



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. 1616614-01

SAMPLES DESCRIBED AS:

One 47-mm Teflon (PTFE) filter

REFERENCE NO.: XRF2-4-80

SUBMITTED ON: 06/14/2016

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 sample was collected using a PTFE filter on a low volume TSP sampler on 06-14-2016 11:11 – 17:01 PDT. The sampler was at a location 50 ft. SE of the main fire event; winds were variable. The sampling duration was 5 hours 50 minutes, and as such is not necessarily representative of a traditional 24 hour sampling duration.

Metals Analysis by EDXRF:

The submitted PTFE filter sample was 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: 6/16/16

Approved By: 

Solomon Teffera, Acting Sr. Manager
Laboratory Services

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

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

| Metal | Conc. Unit | Sample #1 (6/14/2016) (50 ft. from fire) | Acute REL |
|--------------|-------------------|---|------------------|
| Aluminum | ng/m3 | 4,330 | (a) |
| Antimony | ng/m3 | 4,710 | (a) |
| Arsenic | ng/m3 | BELOW DETECTION LIMIT | 200 |
| Barium | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Bromine | ng/m3 | 4,400 | (a) |
| Cadmium | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Calcium | ng/m3 | 1,280 | (a) |
| Chlorine | ng/m3 | 20,200 | 210,000 |
| Chromium | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Cobalt | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Copper | ng/m3 | 1,430 | 100,000 |
| Iron | ng/m3 | 1,440 | (a) |
| Lead | ng/m3 | 4,900 | (a) |
| Magnesium | ng/m3 | 2,170 | (a) |
| Manganese | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Molybdenum | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Nickel | ng/m3 | BELOW DETECTION LIMIT | 200 |
| Phosphorus | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Potassium | ng/m3 | 646 | (a) |
| Selenium | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Sulfur | ng/m3 | 1,890 | (a) |
| Tin | ng/m3 | 415 | (a) |
| Titanium | ng/m3 | BELOW DETECTION LIMIT | (a) |
| Vanadium | ng/m3 | BELOW DETECTION LIMIT | 30,000 |
| Zinc | ng/m3 | 2,050 | (a) |

(a) No acute REL available

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT INFORMATION
 INVOICE SOURCE
LABORATORY NO. **1616614**



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Maywood Fire I.D. No. _____

Source Address: 3570 Fruitland Ave City: Maywood 90270

Mailing Address: _____ City: _____ Zip: _____

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: _____ Date: 6/14/2016

Approved by: Jason Low Office: _____ Budget #: _____

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) Other

Sample Collected By: R Wimmer / S Boldeker Date: 06/14/2016 Time: 17:01 pdt

Sample Description: ([Sample Number] - Sample Name)

[1616614-01] - Sample #1 - # 4675473

Analyses Requested:

Metals ICP/MS

Volum

~~[1616614-02] - Sample #2 - # 4675474~~

1.79 v m³

Metals ICP/MS

1.77 std m³

~~[1616614-03] - Sample #3 - # 4675475~~

Flow 5.00 v lpm

Metals ICP/MS

~~[1616614-04] - Sample #4 - # 4675476~~

12. 6/14/16

Metals ICP/MS

15:11 pdt

~~[1616614-05] - Sample #5 - # 4675477~~

17:01 pdt

Metals ICP/MS

| Relinquished by | Received by | Firm/Agency | Date | Time |
|-----------------------|-------------|-------------|---------|-------|
| S Boldeker | | | | |
| S Boldeker | J. Sainado | SCAQMD Lab | 6/14/16 | 19:00 |
| | | | | |
| | | | | |

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT INFORMATION
 INVOICE SOURCE
LABORATORY NO. **1616614**



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Maywood Fire I.D. No. _____

Source Address: 3570 Fruitland Ave City: Maywood 90270

Mailing Address: _____ City: _____ Zip: _____

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: _____ Date: 6/14/2016

Approved by: Jason Low Office: _____ Budget #: _____

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) Other

Sample Collected By: S Boddeker Date: 06/14/2016 Time: 3 to 4 pm pdt

Sample Description: ([Sample Number] - Sample Name)

~~[1616614-01] - Sample #1 - #4675473~~ Submitted 6/14/16 @ 19:00 pdt

Analyses Requested:

Metals ICP/MS
[1616614-02] - Sample #2 - #4675474 1420 min Volumetric Standard 7.10 m³ 7.16 sm³ 5.00 v lpm
12:00 to 11:40 6/14 6/15 Maywood Christian

Metals ICP/MS
[1616614-03] - Sample #3 - #4675475 v m³ Fishburn Elementary 7.20 7.28 sm³ 1440 min
14:10 to 14:10 6/14 6/15

Metals ICP/MS
[1616614-04] - Sample #4 - #4675476 1440 min
13:14 to 13:14 6/14 6/15

| |
|-------------------------|
| 7.20 vol m ³ |
| 7.29 std m ³ |

Metals ICP/MS
[1616614-05] - Sample #5 - #4675477 Pacific Machine Moving 35ft WNW of fire 1440 min
5.00 v lpm 6/14 to 6/15
17:02 14:05

| | |
|-----------------------|-----------------------|
| 6.31 V m ³ | 6.36 s m ³ |
| Vol m ³ | Std m ³ |

unsampled filters

| Relinquished by | Received by | Firm/Agency | Date | Time |
|-------------------|----------------------------|------------------------|----------------|-------------|
| <u>Steve Dutz</u> | <u>M Koch / S Boddeker</u> | <u>Spec Monitoring</u> | <u>6/14/16</u> | <u>0800</u> |
| <u>S Boddeker</u> | <u>Kelly Dutz</u> | <u>UAT</u> | <u>6/15/16</u> | <u>6 PM</u> |
| | | | | |