



## GREAT BASIN UNIFIED AIR POLLUTION CONTROL DISTRICT

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May 8, 2020

Nolan Bobroff  
Associate Planner/Housing Coordinator  
Town of Mammoth Lakes  
P.O. Box 1609  
Mammoth Lakes, CA 93546

RE: 2019-2020 Mammoth Lakes PM10 and Meteorological Summary

Dear Mr. Bobroff:

The Great Basin Unified Air Pollution Control District (District) has monitored air quality in the Town of Mammoth Lakes since 1984. We recently finalized the data completing the 2019-2020 air monitoring year ending March 15, 2020. We are pleased to provide you this summary of air quality measurements recorded by the District between March 16, 2019 and March 15, 2020. The PM10 data presented are from the District's 1:3 day Partisol monitor. The District has also been testing a continuous T640x PM monitor in Mammoth since September 2018, but the accuracy of the monitor is still being evaluated and is not presented here.

During this period, the Federal PM10 standard ( $150 \mu\text{g}/\text{m}^3$  for a 24-hour average) was exceeded on zero (0) days. State PM10 standards ( $50 \mu\text{g}/\text{m}^3$  for a 24-hour average) were exceeded on three (3) days. Since the Partisol was operated with a 1:3 day sampling rate, the calculated number of State exceedances was nine (9) days. None of the monitored State exceedances were due to wildfire smoke impacts. All monitored exceedances of the State standard occurred during the winter months. The winter-time exceedances were analyzed and deemed to be caused by local sources, primarily woodburning stoves, though road cinders may have had a minor contributing impact. Exceedance days and PM10 levels are listed in Table 1 for the 2019-2020 air monitoring year. An exceedance summary comparing the 2019-2020 monitoring year with past monitoring years is shown in Table 2.

Figure 2 shows the daily average PM10 values between July and September 2019. The summer of 2019 did not experience significant wildfire smoke impacts. Figure 3 shows the daily average PM10 values for the entire monitoring year, superimposed on the prior three monitoring years for comparative purposes.

Figure 4 shows the daily average PM10 during July-September for years since 1992. The figure demonstrates that historically, large-scale wildfires in the Mammoth Lakes area have been relatively infrequent events, though the six summers prior to 2019 were impacted by wildfire smoke.

Please contact me with any questions you may have.

Thank you,

A handwritten signature in blue ink, appearing to read "Phil Kiddoo", with a long horizontal flourish extending to the right.

Phillip L. Kiddoo  
Air Pollution Control Officer

Table 1. Town of Mammoth Lakes Federal and State PM10 exceedances: March 16, 2019 - March 15, 2020.

Date	PM10 Average ( $\mu\text{g}/\text{m}^3$ )	Federal PM10 Exceedance	State PM10 Exceedance
3/16/2019	52	No	Yes
12/17/2019	58	No	Yes
12/20/2019	63	No	Yes

Table 2. Comparison of Federal and State PM10 exceedances with prior monitoring years.

Air Monitoring Year	Federal PM10 Exceedances (>150 $\mu\text{g}/\text{m}^3$ )	State PM10 Exceedances (>50 $\mu\text{g}/\text{m}^3$ )
09-10	0	25
10-11	0	36
11-12	0	5
12-13	0	19
13-14	2	17
14-15	0	3
15-16	0	20
16-17	0	21
17-18	0	6
18-19*	4	18
<b>19-20*</b>	<b>0</b>	<b>9</b>
* less than 1:1 daily capture rate		

## Summer 2019 Wildfire Smoke impacts on the Town of Mammoth Lakes

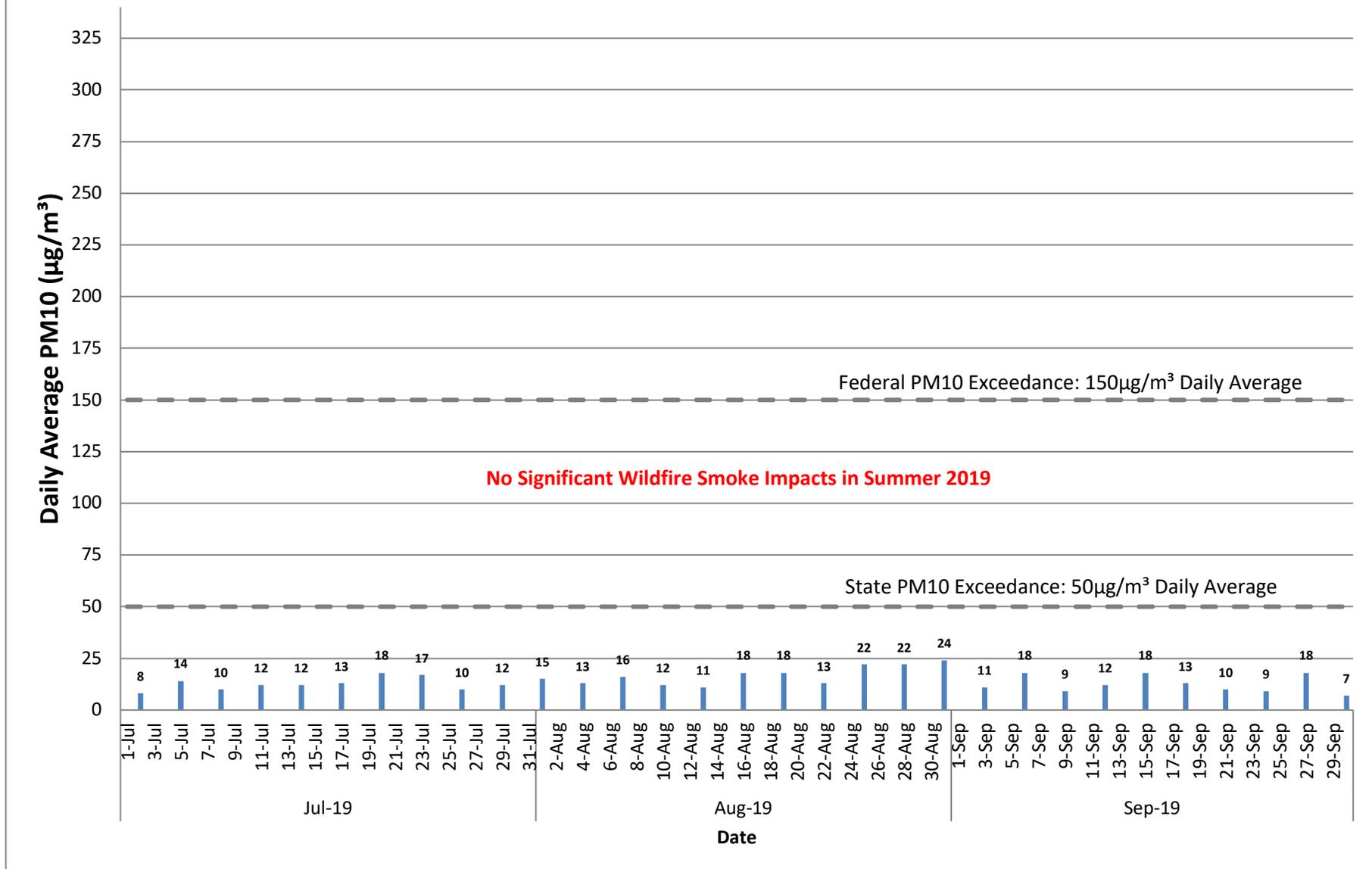


Figure 2: Summer 2019 Wildfire Smoke Impacts on the Town of Mammoth Lakes.



# Town of Mammoth Lakes - PM10 March 16, 2019 - March 15, 2020

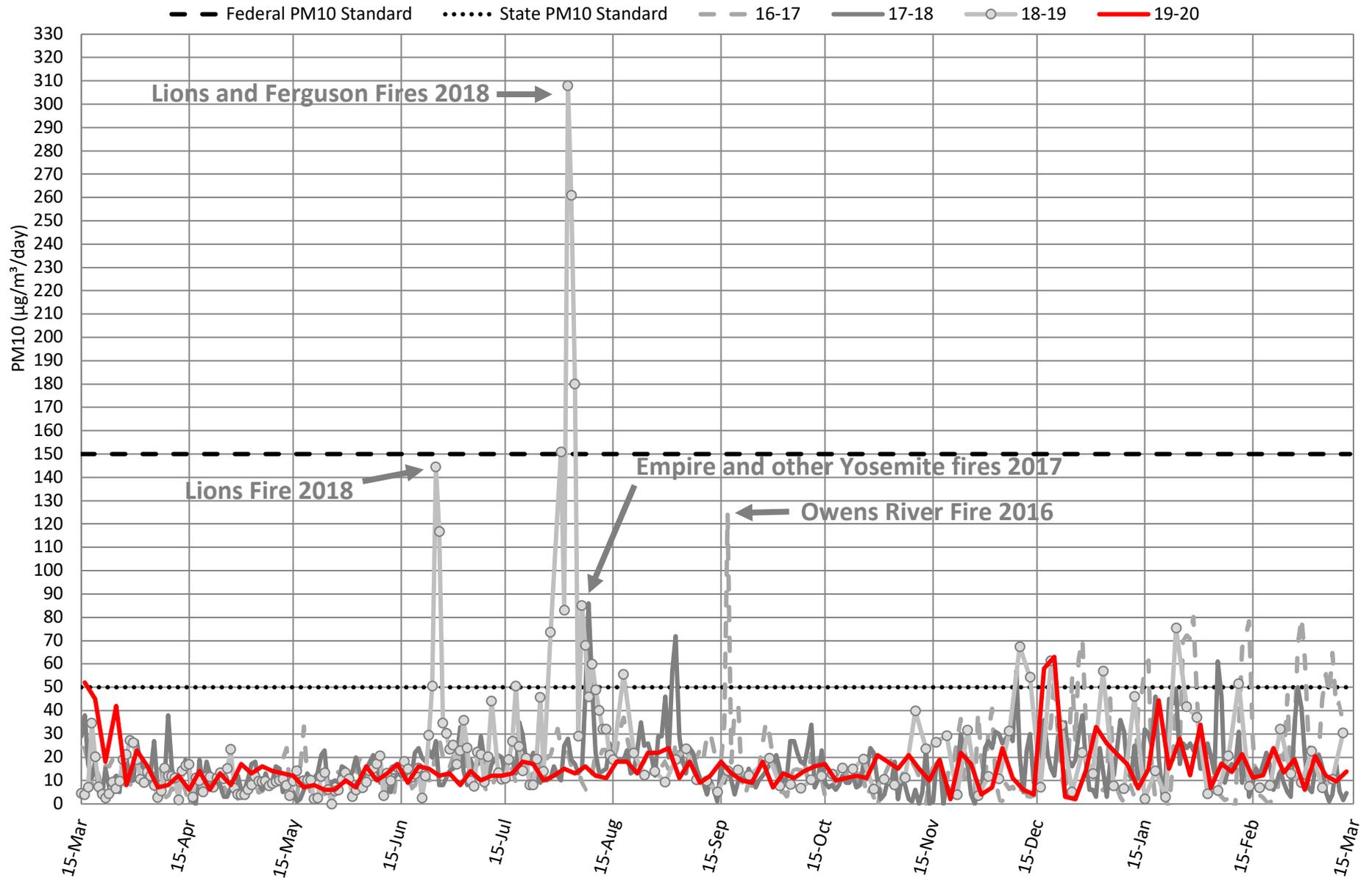


Figure 3: Town of Mammoth Lakes - PM10, March 16, 2019 - March 15, 2020.

# Town of Mammoth Lakes Wildfire Season PM10

## June-September, 1992-2019

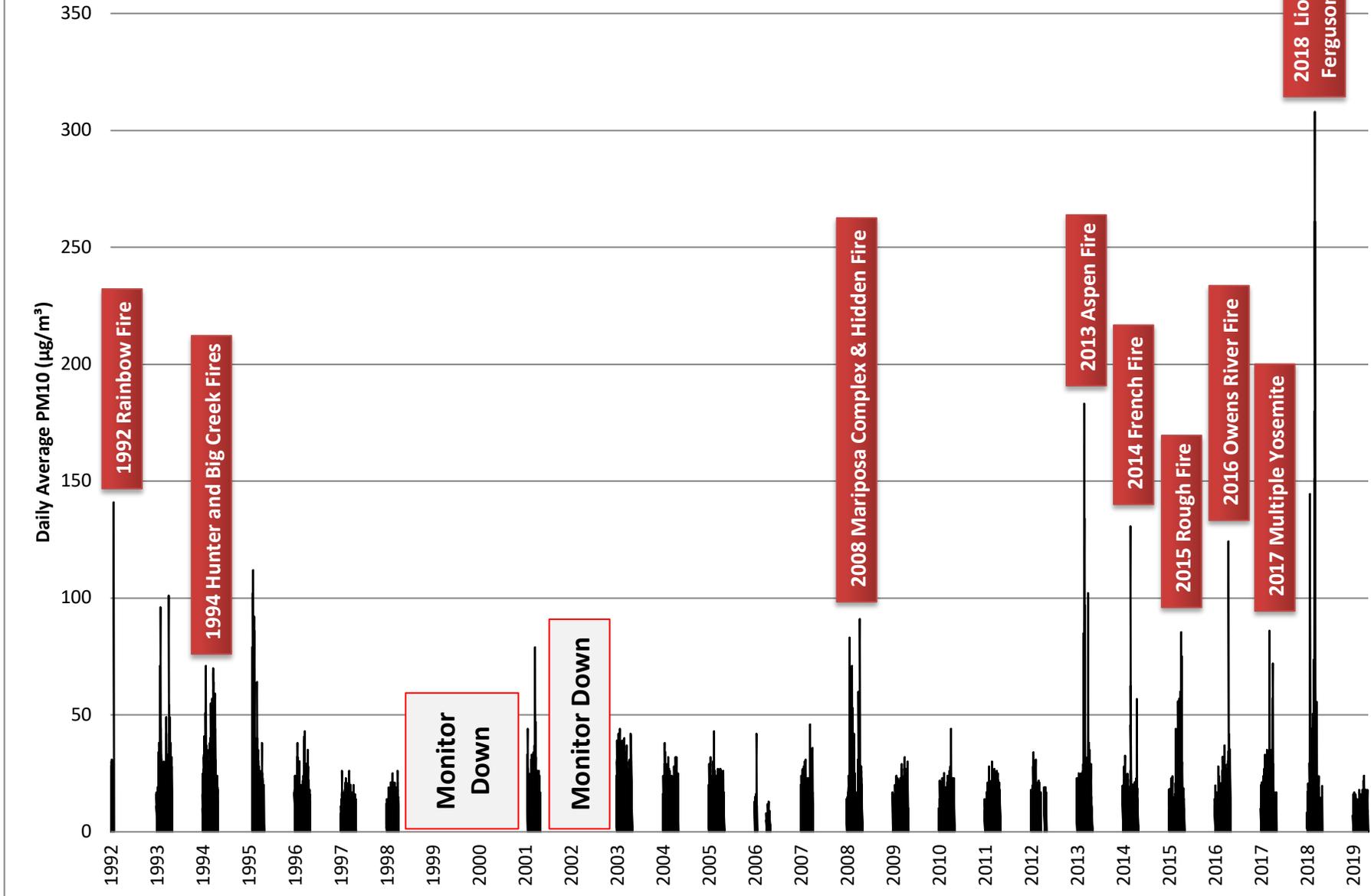


Figure 4: Town of Mammoth Lakes Wildfire Season PM10, June-September, 1992-2019.