

## INTEROFFICE MEMORANDUM

Date: November 07, 2006  
 To: Arthur L. Williams, Director  
 From: Arthur Chang, Technical Services Supervisor  
 Re: October 2006 FRM PM<sub>2.5</sub> Monitoring Update Report

This is a report of October 2006 Federal Reference Method PM<sub>2.5</sub> monthly averages, annual averages, 3-year annual design values, and year-to-year comparison data summaries. (These data are subject to further quality assurance and are not final.)

### October 2006

**Table 1. PM<sub>2.5</sub> Monthly Data Summary (µg/m<sup>3</sup>)**

	<b>Daily Maximum</b>	<b>Daily Minimum</b>		<b>Monthly</b>
<b>Site Name</b>	<b>Conc. &amp; Date</b>	<b>Conc. &amp; Date</b>	<b>Run Time</b>	<b>Average</b>
Southwick	21.5 (10/04)	3.9 (10/12)	77.4 %	10.2
Wyandotte	22.1 (10/04)	3.9 (10/12)	100.0 %	10.6
Barret	11.5 (10/11)	6.6 (10/23)	100.0 %	9.4
Watson	14.6 (10/10)	6.6 (10/14)	100.0 %	10.2
<b>Overall</b>				<b>10.2</b>

The 24-hour average standard is 65 µg/m<sup>3</sup>.

**Table 2. PM<sub>2.5</sub> Design Values and Year-to-Date Annual Mean Comparisons**

<b>Site Name</b>	<b>Annual Mean (ug/m<sup>3</sup>)</b>							<b>Annual Design Values (2000-2002)</b>	<b>Annual Design Values (2001-2003)</b>	<b>Annual Design Values (2002-2004)</b>	<b>Annual Design Values (2003-2005)</b>	<b>Annual Design Values (2004-2006)<sup>3</sup></b>
	<b>2006<sup>3</sup></b>	<b>2005</b>	<b>2004</b>	<b>2003</b>	<b>2002</b>	<b>2001</b>	<b>2000</b>					
Southwick/ <i>Firearms Trn<sup>1</sup></i>	15.2	16.7	14.6	15.4	17.2	17.1/ 18.7 <sup>1</sup>	17.3	N/A	N/A	<b>15.9<sup>2</sup></b>	<b>15.6<sup>2</sup></b>	<b>15.5<sup>2</sup></b>
Wyandotte	15.4	16.6	14.1	15.2	17.5	17.7	16.7	<b>17.3<sup>2</sup></b>	<b>16.8<sup>2</sup></b>	15.6	15.3	15.3
Barret	14.7	16.8	14.0	15.2	16.3	16.9	16.7	16.6	16.1	15.2	15.3	15.1
Watson	14.3	16.5	12.7	15.1	15.3	16.3	16.8	16.1	15.5	14.4	14.7	14.5

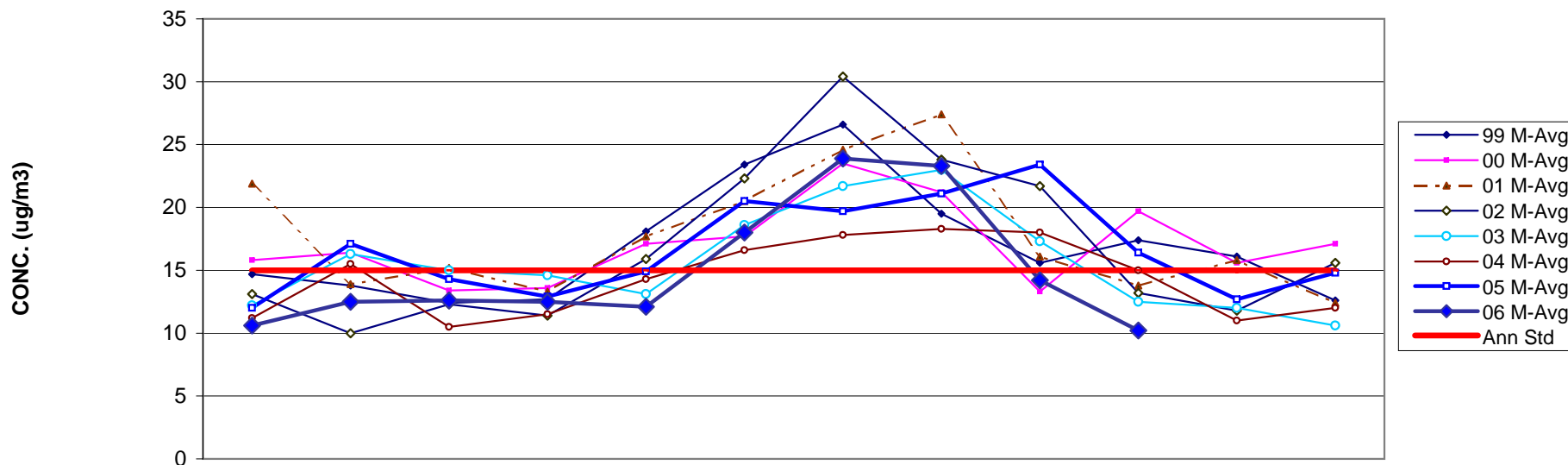
The annual average standard is 15.0 µg/m<sup>3</sup>.

<sup>1</sup> *Firearms Training* temporarily replaced Southwick Community Center monitoring during 2001, due to renovation. Twelve quarters of contiguous data are unavailable.

<sup>2</sup> Design value site for Louisville.

<sup>3</sup> Year-to-date data for 2006.

### LOUISVILLE METRO FRM PM2.5 MONTHLY AVERAGES TRENDS FOR 1999 - 2006



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
99 M-Avg	14.7	13.8	12.4	12.7	18.1	23.4	26.6	19.5	15.6	17.4	16.1	12.6
00 M-Avg	15.8	16.4	13.4	13.6	17.1	17.7	23.5	21.2	13.3	19.7	15.6	17.1
01 M-Avg	21.9	13.9	15.2	13.3	17.7	20.5	24.6	27.4	16.1	13.8	15.8	12.4
02 M-Avg	13.1	10	12.3	11.4	15.9	22.3	30.4	23.8	21.7	13.2	11.8	15.6
03 M-Avg	12.2	16.3	15	14.6	13.1	18.6	21.7	23	17.3	12.5	12	10.6
04 M-Avg	11.2	15.5	10.5	11.5	14.3	16.6	17.8	18.3	18	15	11	12
05 M-Avg	12	17.1	14.3	12.9	14.9	20.5	19.7	21.1	23.4	16.4	12.7	14.8
06 M-Avg	10.6	12.5	12.6	12.5	12.1	18	23.9	23.3	14.2	10.2		
Ann Std	15	15	15	15	15	15	15	15	15	15	15	15

**MONTH**