



MEMORANDUM

TO: Paul Dadian, PM-OMP REF. NO.: 059487

FROM: Walter Pochron/ko/16 *WJP* DATE: June 17, 2010

C.C.: Fred Blickle
Doug Chenoweth

RE: **Air Monitoring Data
Period From June 7 Through June 11, 2010
O'Hare Modernization Program – Southwest Acquisition Area**

This memorandum summarizes the air monitoring data collected during demolition-related activities conducted at the O'Hare Modernization Program (OMP) Southwest Acquisition Area during the period from June 7, 2010 through June 11, 2010. Demolition activities occurred in Areas 1, 2, 3, 4, and 5 during this period. Packages 2, 3, 4 were monitored as one contiguous area.

Two DustTrak Aerosol Monitors (Monitors) were established within each contiguous demolition area for each day of demolition-related activity. One Monitor was placed at a perimeter upwind location, and a second Monitor was placed at a perimeter downwind location within active demolition areas. The Monitors were programmed to collect and record readings of particulate matter with diameters of ten micrometers or less (PM₁₀) at hourly intervals throughout the day, and provide an average reading for the complete run time based on the hourly readings. Monitors operated and recorded readings for the duration of the workday (no more than twelve hours per day). To assess the potential particulate contribution from demolition activities, the average daily upwind reading was subtracted from the average daily downwind reading to provide the net PM₁₀ concentration. The attached Table 1 provides a summary of the collected air monitoring data from the period noted above.

The air monitoring results for Demolition Areas 1, 2, 3, 4, and 5, indicate that the net contribution of PM₁₀ concentration to the ambient air were generally below the Screening Level of 0.3 milligrams per cubic meter.

TABLE 1
AIR MONITORING DATA
JUNE 7 THROUGH JUNE 11, 2010
O'HARE MODERNIZATION PROGRAM

<i>Date</i>	<i>Average Downwind Reading (mg/m³)¹</i>	<i>Average Upwind Reading (mg/m³)</i>	<i>Net Difference (mg/m³)</i>
<i>Demolition Package 1</i>			
6/7/2010	0.014	0.029	-0.015
6/8/2010	0.039	0.045	-0.006
6/9/2010	0.024	0.013	0.011
6/10/2010	0.085	0.068	0.017
6/11/2010	0.070	0.040	0.030
<i>Demolition Packages 2, 3, 4</i>			
6/7/2010	0.010	0.017	-0.007
6/8/2010	0.045	0.049	-0.004
6/9/2010	0.015	0.014	0.001
6/10/2010	0.021	0.042	-0.021
6/11/2010	0.046	0.045	0.001
<i>Demolition Package 5</i>			
6/7/2010	0.021	0.012	0.009
6/8/2010	0.048	0.020 ²	0.028
6/9/2010	0.179	0.016	0.163
6/10/2010	0.025	0.020	0.005
6/11/2010	0.054	0.040	0.014

Note: Instantaneous readings collected at 1-hour intervals for the duration of the work day (≤ 12 hours). Daily average is the average of the hourly readings.

¹ mg/m³ - milligrams per cubic meter

² Value based on approximately one hour of collected data.