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MEMORANDUM

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

FROM: Walter Pochron/lg/12 *WJP* DATE: May 24, 2010

C.C.: Fred Blickle
Doug Chenoweth

RE: **Air Monitoring Data**
Period From May 10 Through May 14, 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 May 10, 2010 through May 14, 2010. Demolition activities occurred in Areas 1, 2, 4, and 5 during this period.

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, 4, and 5, indicate that the net contribution of PM₁₀ concentration to the ambient air was generally negligible and well below the Screening Level of 0.3 milligrams per cubic meter.

TABLE 1
AIR MONITORING DATA
MAY 10 THROUGH MAY 14, 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>			
5/10/2010	0.028	0.022	0.006
5/11/2010	0.029	0.032	-0.003
5/12/2010	0.027	0.025	0.002
5/13/2010	0.062	0.059	0.003
5/14/2010	0.006	0.004	0.002
<i>Demolition Package 2</i>			
5/10/2010	0.058	0.017	0.041
5/11/2010	0.039	0.038	0.001
5/12/2010	0.034 ²	0.045	-0.011
5/13/2010	NA ³	NA	NA
5/14/2010	0.014	0.005	0.009
<i>Demolition Package 4</i>			
5/10/2010	NE	NE	NE
5/11/2010	0.035	0.041	-0.006
5/12/2010	0.036	0.038	-0.002
5/13/2010	NA	NA	NA
5/14/2010	0.006	0.008	-0.002
<i>Demolition Package 5</i>			
5/10/2010	0.032	0.020	0.012
5/11/2010	0.039	0.036	0.003
5/12/2010	0.093	0.038	0.055
5/13/2010	0.076	0.065	0.011
5/14/2010	0.027	0.004	0.023

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 The downwind Monitor for Package 4 was left running throughout the night on May 12, 2010. Therefore, data recorded during non-working hours was omitted when obtaining the average downwind reading for the day.

³ NA - No work conducted due to heavy rain.

⁴ NE - Monitors were not yet established in this Package.