PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 January 23, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for: DECEMBER 2006**

Data:	____ Preliminary	**Attached/Enclosed:**	____ Preliminary Report
	_X_ Validated		_X_ Final Report
	____ Adjusted (list parameters)		_X_ Data Summaries
			____ AIRS Diskette
			____ Client Data Disk
			____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of wind speed data (and associated computed parameters) are reported as missing ("N") on December 27 and 30. This missing data is the result of frozen wind speed cups due to a buildup of ice on each during periods of frozen precipitation.*
- *No other operational problems occurred at the Lakeshore/Willis Ave monitoring site in December and monthly data recovery rates for all parameters range from 97 to 100 percent.*

Climatic Summary: **DECEMBER 2006**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*21.8 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*1.1 mph*

2-meter level

Max. Temperature:	*62.2 °F*	Max. Dew Point Temp.	*58.4 °F*	Max. Relative Humidity	*99%*
Min. Temperature:	*11.7 °F*	Min. Dew Point Temp.	*8.7 °F*	Min. Relative Humidity	*32.2%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through December 31, 2006**

10-Meter Level

10-Meter Vector Wind Speed:	*97.0* %
10-Meter Vector Wind Direction:	*97.0* %
10-Meter Scalar Wind Speed:	*97.0* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*100.0* %
10-Meter Vertical Wind Speed:	*100.0* %
Sigma W:	*100.0* %
Sigma Phi:	*97.0* %
10-Meter Temperature:	*100.0* %

2-Meter Level

2-Meter Temperature:	*100.0* %
Delta Temperature:	*100.0* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*100.0* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: DECEMBER 2006

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: **PARSONS** BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: DECEMBER 2006

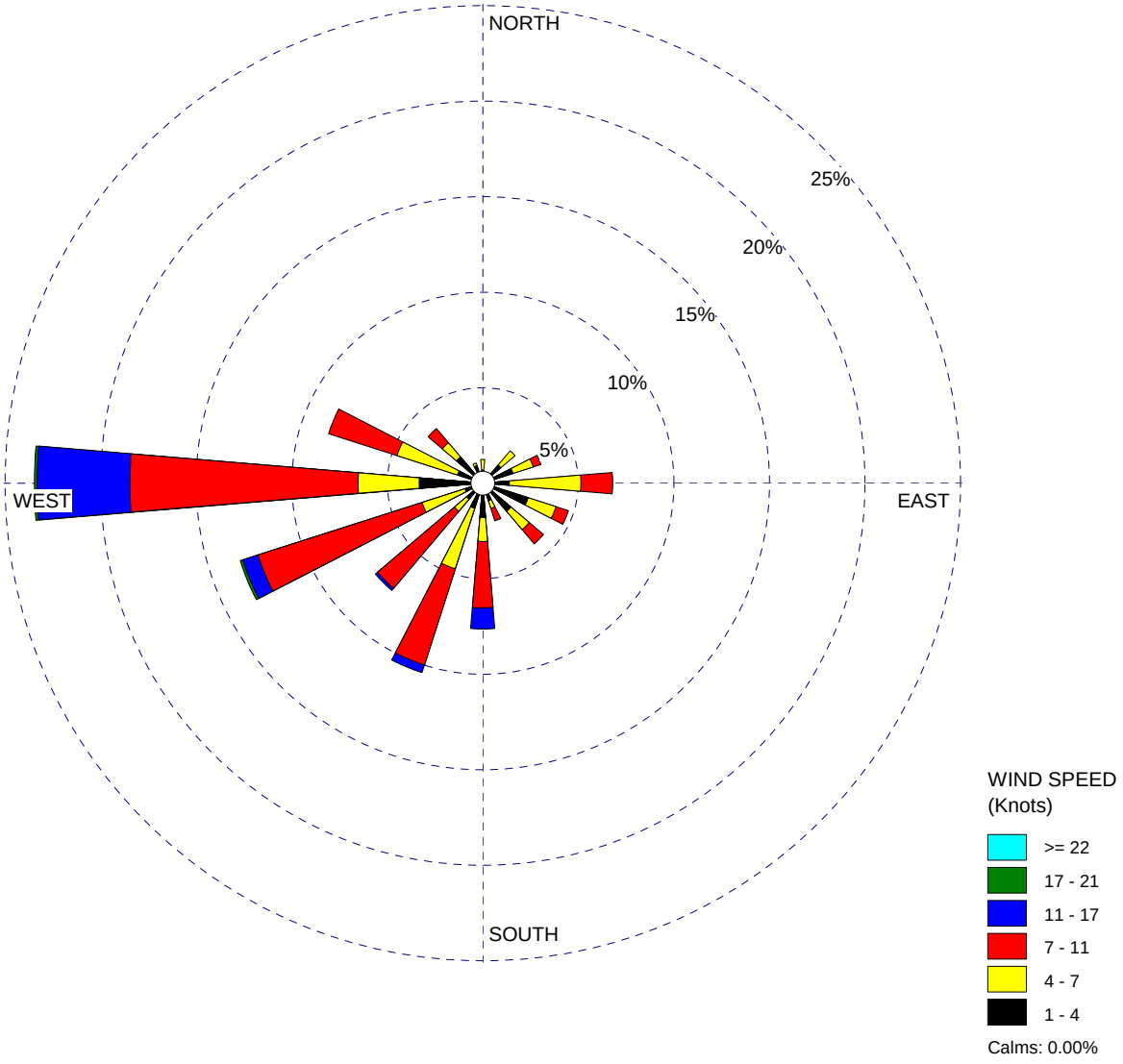
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE	MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER					
10-Meter Level					
Vector Wind Speed (mph)	0.3	21.3	7.6	97.0	97.0
Vector Wind Direction (deg)	1	358	214	97.0	97.0
Scalar Wind Speed (mph)	1.1	21.8	7.9	97.0	97.0
Scalar Wind Direction (deg.)	2	360	217	100.0	100.0
Sigma Theta (deg.)	1.3	65.3	16.4	100.0	100.0
Vertical Wind Speed (mph)	-0.29	1.30	0.24	100.0	100.0
Sigma W (mph)	0.12	2.35	0.94	100.0	100.0
Sigma Phi (deg)	3.17	15.7	6.9	100.0	97.0
Temperature (deg-F)	11.7	62.5	38.5	100.0	100.0
2-Meter Level					
Temperature (deg-F)	11.7	62.2	38.2	100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-1.49	4.71	0.25	100.0	100.0
Relative Humidity (percent)	32.2	99.0	73.4	100.0	100.0
Dew Point Temperature (deg-F)	8.7	58.4	29.8	100.0	100.0
Solar Radiation (W/m^2)	0.0	461.4	1193.3 (Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.92	30.41	29.82	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-Meter Tower - December 2006

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2006 Jan 1 - Dec 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **722 hrs.**	
	AVG. WIND SPEED: **6.89 Knots**	DATE: **1/22/2007**	PROJECT NO.: **442636-02400**

PARSONS

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Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 February 22, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for: JANUARY 2007**

Data:	____ Preliminary	**Attached/Enclosed:**	____ Preliminary Report	____ AIRS Diskette
	_X_ Validated		_X_ Final Report	____ Client Data Disk
	____ Adjusted (list parameters)		_X_ Data Summaries	____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of wind speed data (and associated computed parameters) are reported as missing ("N") from 1100 EST on January 13 through 0900 EST on January 18. This missing data is the result of frozen wind speed cups due to a buildup of ice during periods of frozen precipitation.*
- *No other operational problems occurred at the Lakeshore/Willis Ave monitoring site in January and monthly data recovery rates for all parameters range from 84.9 to 100 percent.*

Climatic Summary: **JANUARY 2007**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*21.2 mph*
Secondary Peak WD:	*SSW*	Min. Wind Speed :	*0.9 mph*

2-meter level

Max. Temperature:	*61.6 °F*	Max. Dew Point Temp.	*56.8 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*-1.9 °F*	Min. Dew Point Temp.	*-4.4 °F*	Min. Relative Humidity	*35.2%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through January 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*91.0* %
10-Meter Vector Wind Direction:	*91.0* %
10-Meter Scalar Wind Speed:	*91.0* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*100.0* %
10-Meter Vertical Wind Speed:	*100.0* %
Sigma W:	*100.0* %
Sigma Phi:	*91.0* %
10-Meter Temperature:	*100.0* %

2-Meter Level

2-Meter Temperature:	*100.0* %
Delta Temperature:	*100.0* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*100.0* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JANUARY 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: JANUARY 2007

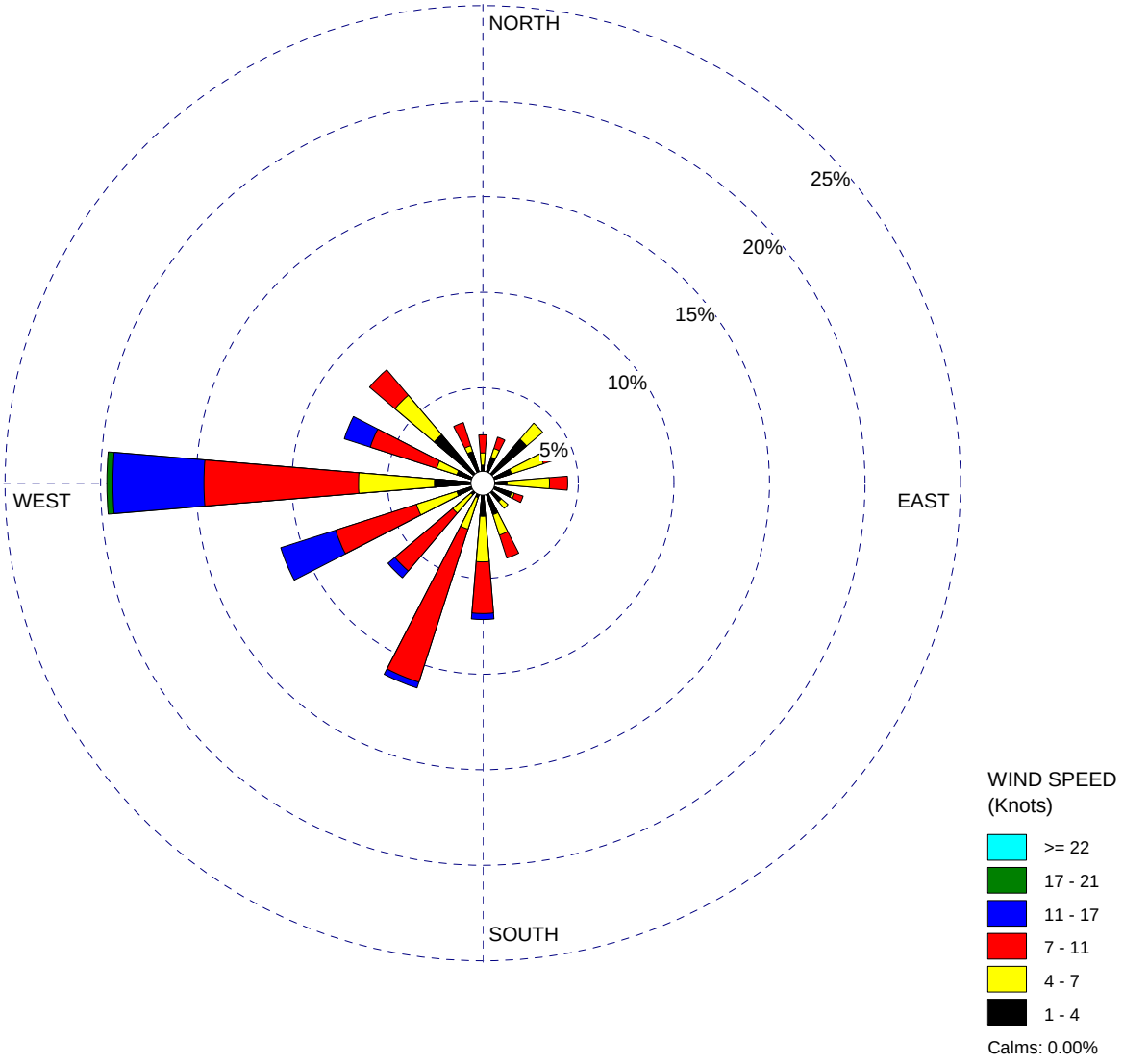
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE	MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER					
10-Meter Level					
Vector Wind Speed (mph)	0.2	20.5	7.6	84.9	84.9
Vector Wind Direction (deg)	4	360	215	84.9	84.9
Scalar Wind Speed (mph)	0.9	21.2	8.0	84.9	84.9
Scalar Wind Direction (deg.)	1	360	214	100.0	100.0
Sigma Theta (deg.)	3.1	65.5	17.5	100.0	100.0
Vertical Wind Speed (mph)	-0.30	1.10	0.21	100.0	100.0
Sigma W (mph)	0.12	2.37	0.94	100.0	100.0
Sigma Phi (deg)	3.10	15.0	7.3	100.0	84.9
Temperature (deg-F)	-1.2	61.9	29.3	100.0	100.0
2-Meter Level					
Temperature (deg-F)	-1.9	61.6	29.2	100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-1.05	4.63	0.14	100.0	100.0
Relative Humidity (percent)	35.2	100.0	77.8	100.0	100.0
Dew Point Temperature (deg-F)	-4.4	56.8	22.5	100.0	100.0
Solar Radiation (W/m^2)	0.0	572.1	1472.9 (Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.15	30.44	29.72	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-Meter Tower - January 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Jan 1 - Jan 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **632 hrs.**	
	AVG. WIND SPEED: **6.95 Knots**	DATE: **2/22/2007**	PROJECT NO.: **442636-02400**

PARSONS

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Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 March 15, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **FEBRUARY 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Lakeshore/Willis Ave monitoring site in February and monthly data recovery rates for all parameters are 100 percent.*

Climatic Summary: **FEBRUARY 2007**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*23.2 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*1.2 mph*

2-meter level

Max. Temperature:	*45.4 °F*	Max. Dew Point Temp.	*34.7 °F*	Max. Relative Humidity	*98%*
Min. Temperature:	*-2.0 °F*	Min. Dew Point Temp.	*-11.7 °F*	Min. Relative Humidity	*32.2%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through February 28, 2007**

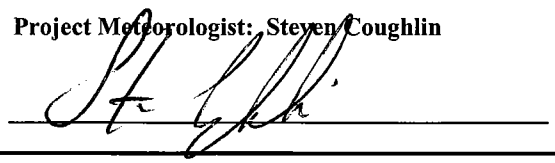
10-Meter Level

10-Meter Vector Wind Speed:	*93.8* %
10-Meter Vector Wind Direction:	*93.8* %
10-Meter Scalar Wind Speed:	*93.8* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*100.0* %
10-Meter Vertical Wind Speed:	*100.0* %
Sigma W:	*100.0* %
Sigma Phi:	*93.8* %
10-Meter Temperature:	*100.0* %

2-Meter Level

2-Meter Temperature:	*100.0* %
Delta Temperature:	*100.0* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*100.0* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin



Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: FEBRUARY 2007

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

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N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: FEBRUARY 2007

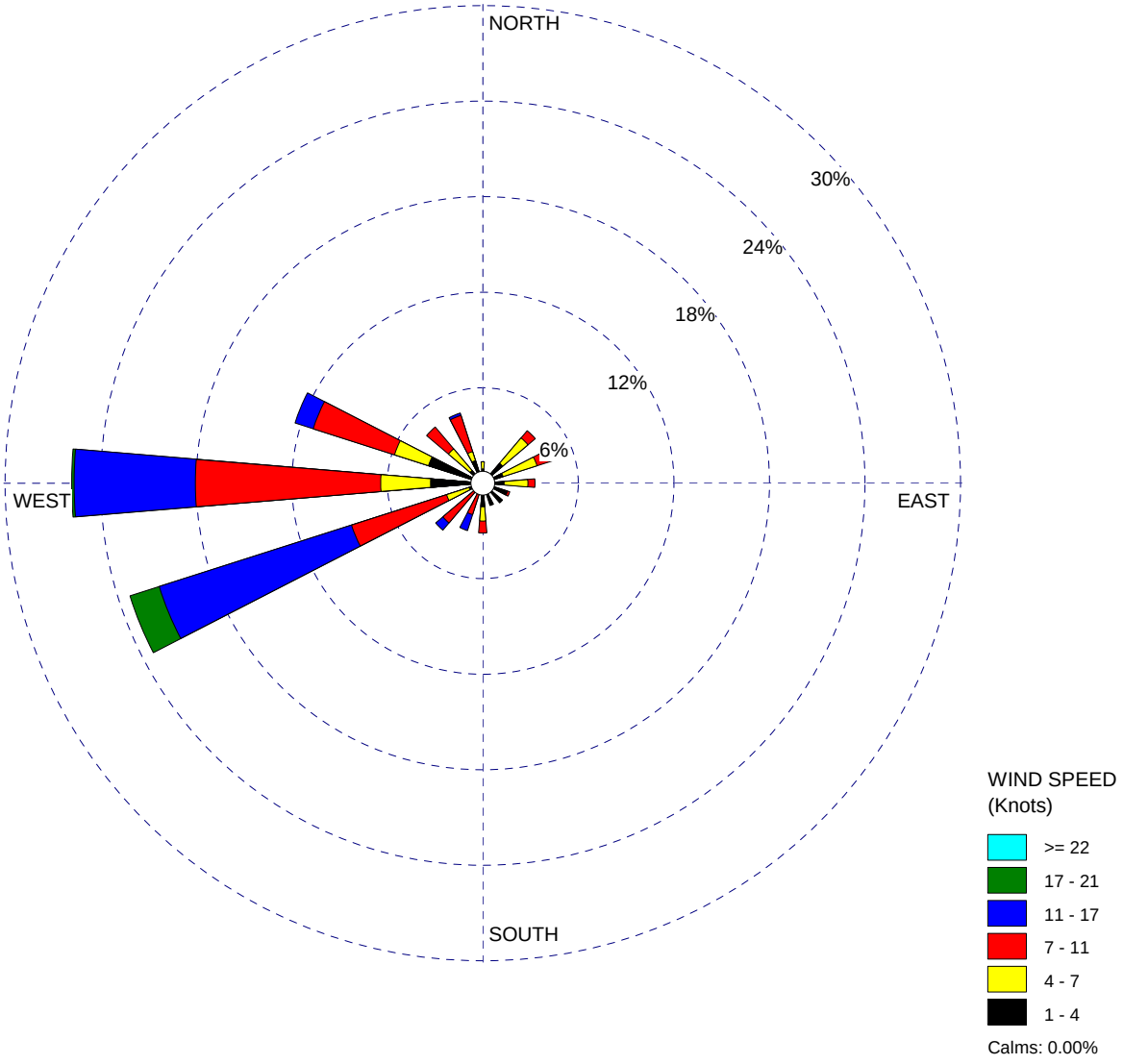
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.2	22.7	9.4		100.0	100.0
Vector Wind Direction (deg)	2	360	231		100.0	100.0
Scalar Wind Speed (mph)	1.2	23.2	9.7		100.0	100.0
Scalar Wind Direction (deg.)	1	359	230		100.0	100.0
Sigma Theta (deg.)	5.6	57.9	15.5		100.0	100.0
Vertical Wind Speed (mph)	-6.02	0.89	0.05		100.0	100.0
Sigma W (mph)	0.12	2.57	1.16		100.0	100.0
Sigma Phi (deg)	2.85	21.4	7.0		100.0	100.0
Temperature (deg-F)	-0.6	45.3	20.2		100.0	100.0
2-Meter Level						
Temperature (deg-F)	-2.0	45.4	20.0		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-1.37	5.13	0.14		100.0	100.0
Relative Humidity (percent)	32.2	97.9	73.5		100.0	100.0
Dew Point Temperature (deg-F)	-11.7	34.7	12.4		100.0	100.0
Solar Radiation (W/m^2)	0.0	730.9	2731.0	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.19	30.25	29.65		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-Meter Tower - February 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Feb 1 - Feb 28 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **672 hrs.**	
	AVG. WIND SPEED: **8.45 Knots**	DATE: **3/16/2007**	PROJECT NO.: **442636-02400**

PARSONS

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Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	442202-03660
		Date:	May 29, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **MARCH 2007**

Data:
- ____ Preliminary
- _X_ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A period of wind speed data (and associated calculated parameters) is reported as missing due to a non-scheduled outage ("N") from 2300 EST on March 1 through 0600 EST on March 2. This missing data results from a buildup of frozen precipitation on the anemometer cups during this time period.*
- *Periods of temperature, delta-temperature, and dew-point temperature data are reported as a non-scheduled outage ("N") during the month. This missing data is the result of intermittent electronic interference with the data logger's temperature signal that in turn, resulted in erroneously high temperature readings.*

Climatic Summary: **MARCH 2007**

General Predominance for winds from: *due west through west-northwest*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*22.3 mph*
Secondary Peak WD:	*WNW*	Min. Wind Speed :	*0.8 mph*

2-meter level

Max. Temperature:	*64.3 °F*	Max. Dew Point Temp.	*53.4 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*-1.2 °F*	Min. Dew Point Temp.	*-10.3 °F*	Min. Relative Humidity	*18.8%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through** **March 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*95.1* %
10-Meter Vector Wind Direction:	*95.1* %
10-Meter Scalar Wind Speed:	*95.1* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*100.0* %
10-Meter Vertical Wind Speed:	*100.0* %
Sigma W:	*100.0* %
Sigma Phi:	*95.1* %
10-Meter Temperature:	*97.7* %

2-Meter Level

2-Meter Temperature:	*97.7* %
Delta Temperature:	*97.7* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*97.5* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: MARCH 2007

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PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

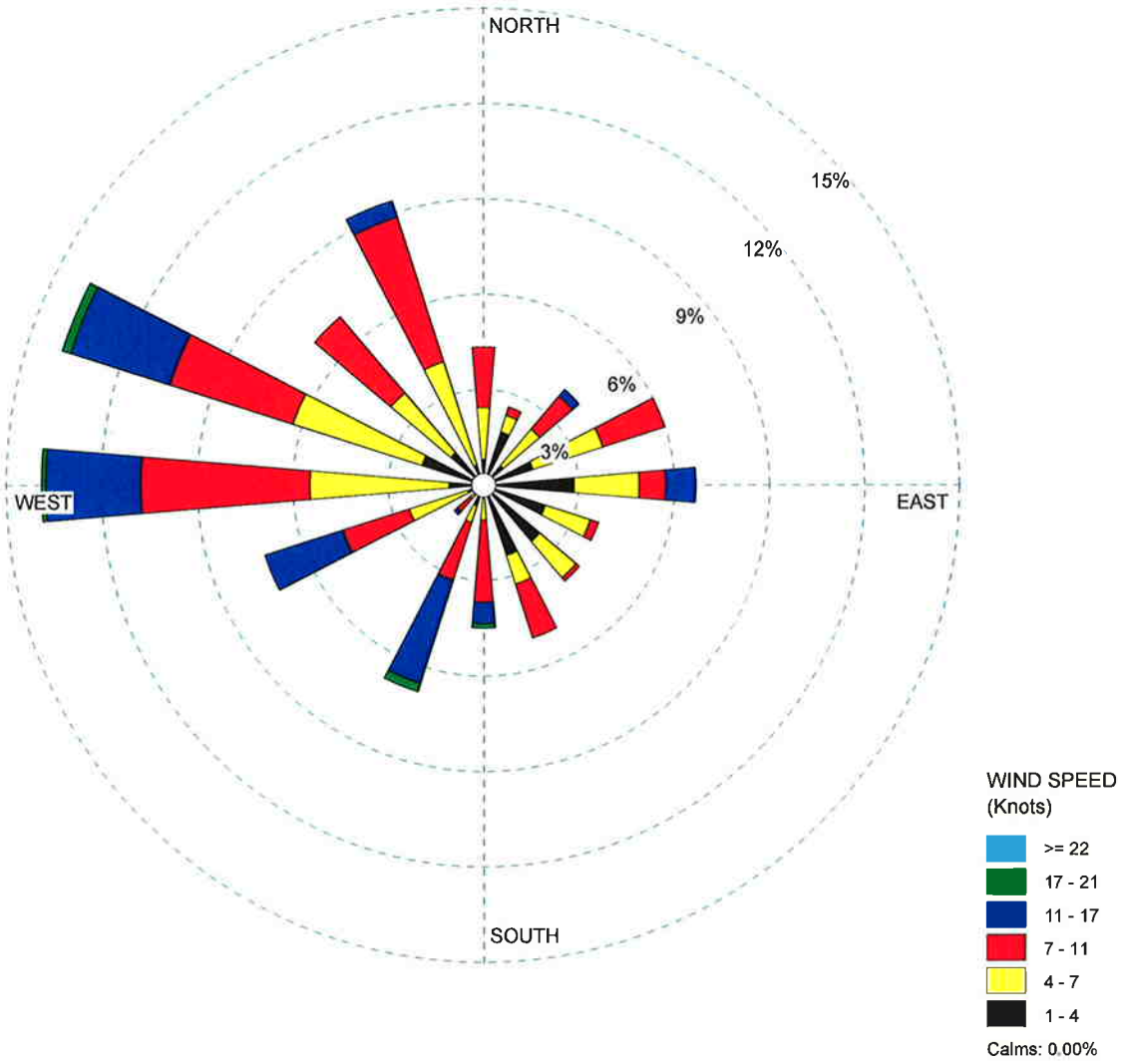
DATA COLLECTION SUMMARY FOR THE MONTH OF: MARCH 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE	MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER					
10-Meter Level					
Vector Wind Speed (mph)	0.2	21.8	7.3	98.9	98.9
Vector Wind Direction (deg)	2	360	213	98.9	98.9
Scalar Wind Speed (mph)	0.8	22.3	7.7	98.9	98.9
Scalar Wind Direction (deg.)	1	358	210	100.0	100.0
Sigma Theta (deg.)	5.6	67.4	18.1	100.0	100.0
Vertical Wind Speed (mph)	-2.62	1.44	0.01	100.0	100.0
Sigma W (mph)	0.01	2.56	0.93	100.0	100.0
Sigma Phi (deg)	2.66	22.1	7.1	100.0	98.9
Temperature (deg-F)	-1.1	65.1	32.6	90.9	90.9
2-Meter Level					
Temperature (deg-F)	-1.2	64.3	32.4	90.9	90.9
10-m - 2-m Delta Temp (F-deg)	-1.91	4.78	0.28	90.9	90.9
Relative Humidity (percent)	18.8	99.7	69.9	100.0	100.0
Dew Point Temperature (deg-F)	-10.3	53.4	22.8	90.3	90.3
Solar Radiation (W/m^2)	0.0	944.0	3755.5 (Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.01	30.47	29.84	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-meter Tower - March 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Mar 1 - Mar 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **736 hrs.**	
	AVG. WIND SPEED: **6.74 Knots**	DATE: **5/24/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 May 29, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **APRIL 2007**

Data:
- ____ Preliminary
- _X_ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of temperature, delta-temperature, and dew-point temperature data are reported as a non-scheduled outage ("N") during the month. This missing data is the result of intermittent electronic interference with the data logger's temperature signal that in turn, resulted in erroneously high temperature readings.*
- *No other operational problems occurred at the Lakeshore/Willis Ave monitoring site in April and monthly data recovery rates for all parameters range from 63.2 percent for the above-mentioned temperature parameters to 100 percent for all remaining parameters.*

Climatic Summary: **APRIL 2007**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*17.7 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*1.0 mph*

2-meter level

Max. Temperature:	*84.9 °F*	Max. Dew Point Temp.	*59.5 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*22.7 °F*	Min. Dew Point Temp.	*12.7 °F*	Min. Relative Humidity	*14.9%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through April 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*96.1* %
10-Meter Vector Wind Direction:	*96.1* %
10-Meter Scalar Wind Speed:	*96.1* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*100.0* %
10-Meter Vertical Wind Speed:	*100.0* %
Sigma W:	*100.0* %
Sigma Phi:	*96.1* %
10-Meter Temperature:	*90.8* %

2-Meter Level

2-Meter Temperature:	*90.8* %
Delta Temperature:	*90.8* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*90.7* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: APRIL 2007

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PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

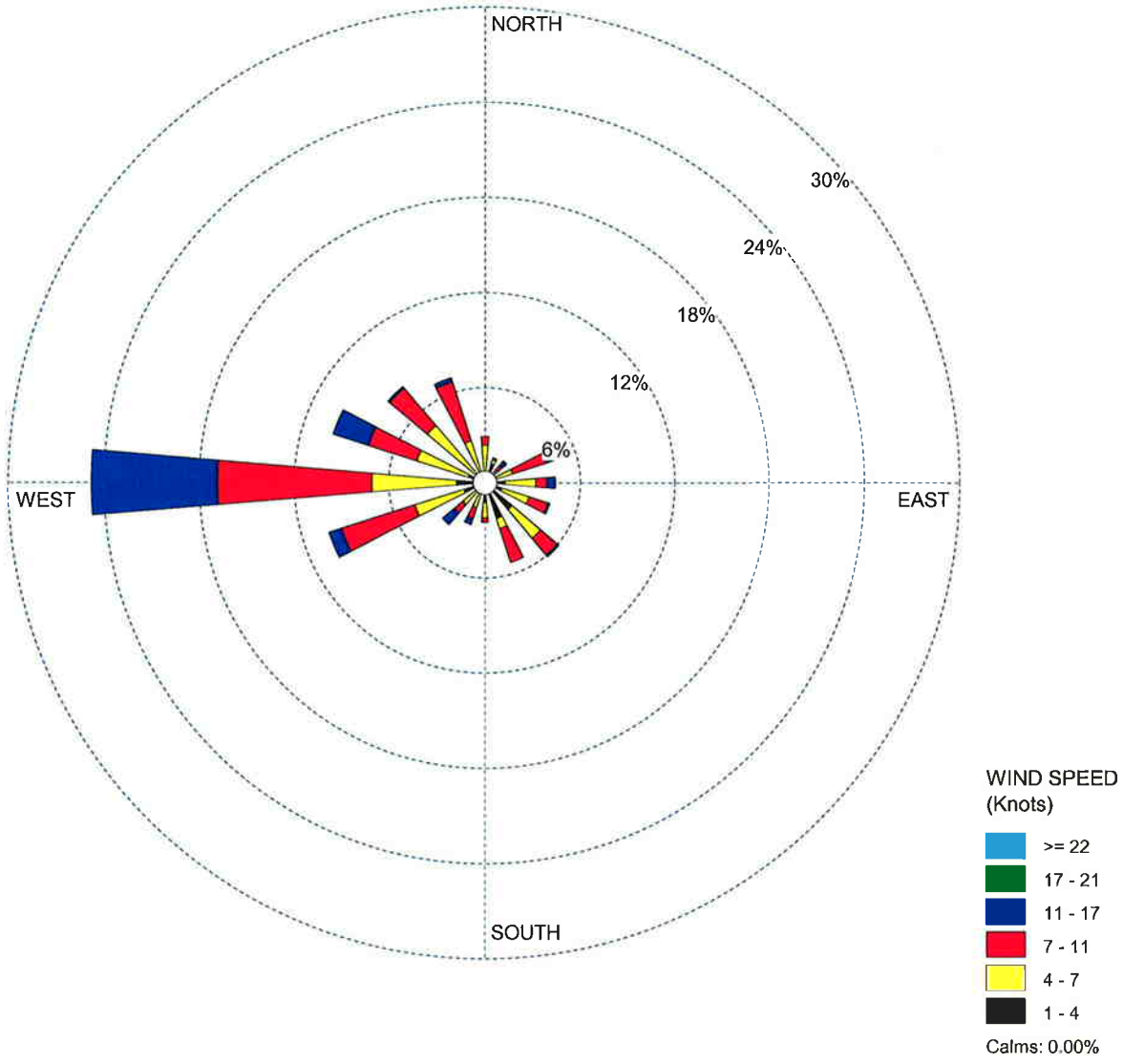
DATA COLLECTION SUMMARY FOR THE MONTH OF: APRIL 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.2	17.0	7.4		100.0	100.0
Vector Wind Direction (deg)	2	359	222		100.0	100.0
Scalar Wind Speed (mph)	1.0	17.7	7.8		100.0	100.0
Scalar Wind Direction (deg.)	2	359	222		100.0	100.0
Sigma Theta (deg.)	6.0	68.5	18.5		100.0	100.0
Vertical Wind Speed (mph)	-0.32	0.97	0.15		100.0	100.0
Sigma W (mph)	0.12	2.37	0.96		100.0	100.0
Sigma Phi (deg)	2.68	18.5	7.2		100.0	100.0
Temperature (deg-F)	22.9	84.4	44.6		63.2	63.2
2-Meter Level						
Temperature (deg-F)	22.7	84.9	44.5		63.2	63.2
10-m - 2-m Delta Temp (F-deg)	-2.51	4.94	0.13		63.2	63.2
Relative Humidity (percent)	14.9	100.0	69.2		100.0	100.0
Dew Point Temperature (deg-F)	12.7	59.5	32.6		63.2	63.2
Solar Radiation (W/m^2)	0.0	1020.0	4189.2	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.79	29.93	29.59		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-meter Tower - April 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Apr 1 - Apr 30** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **6.76 Knots**	DATE: **5/29/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 June 29, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for: MAY 2007**

Data:
____ Preliminary
__X__ Validated
____ Adjusted (list parameters)

Attached/Enclosed:
____ Preliminary Report
__X__ Final Report
__X__ Data Summaries
____ AIRS Diskette
____ Client Data Disk
____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Brief periods of data (1 to 2 hours) are reported as scheduled down ("S") on May 1. This scheduled outage is the result of audit activities that occurred at the Willis Ave. site on this day.*
- *Periods of temperature, delta-temperature, and dew-point temperature data are reported as a non-scheduled outage ("N") during the May 23 through May 31 period. This missing data is the result of intermittent electronic interference with the data logger's temperature signal that in turn, resulted in erroneously high temperature readings.*
- *No other operational problems occurred at the Lakeshore/Willis Ave monitoring site in May and monthly data recovery rates for all parameters range from 84.7 percent for the above-mentioned temperature parameters to 100 percent for all remaining parameters.*

Climatic Summary: **MAY 2007**

General Predominance for winds from: *north-northwest through due north*

10-meter level

Primary Peak WD:	*NNW*	Max. Wind Speed :	*19.2*
Secondary Peak WD:	*N*	Min. Wind Speed :	*0.9*

2-meter level

Max. Temperature:	*89.5 °F*	Max. Dew Point Temp.	*61.5 °F*	Max. Relative Humidity	*99%*
Min. Temperature:	*35.1 °F*	Min. Dew Point Temp.	*16.9 °F*	Min. Relative Humidity	*14.4%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through May 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*96.7* %
10-Meter Vector Wind Direction:	*96.7* %
10-Meter Scalar Wind Speed:	*96.7* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*99.9* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*96.7* %
10-Meter Temperature:	*89.8* %

2-Meter Level

2-Meter Temperature:	*89.8* %
Delta Temperature:	*89.8* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*89.7* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: MAY 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

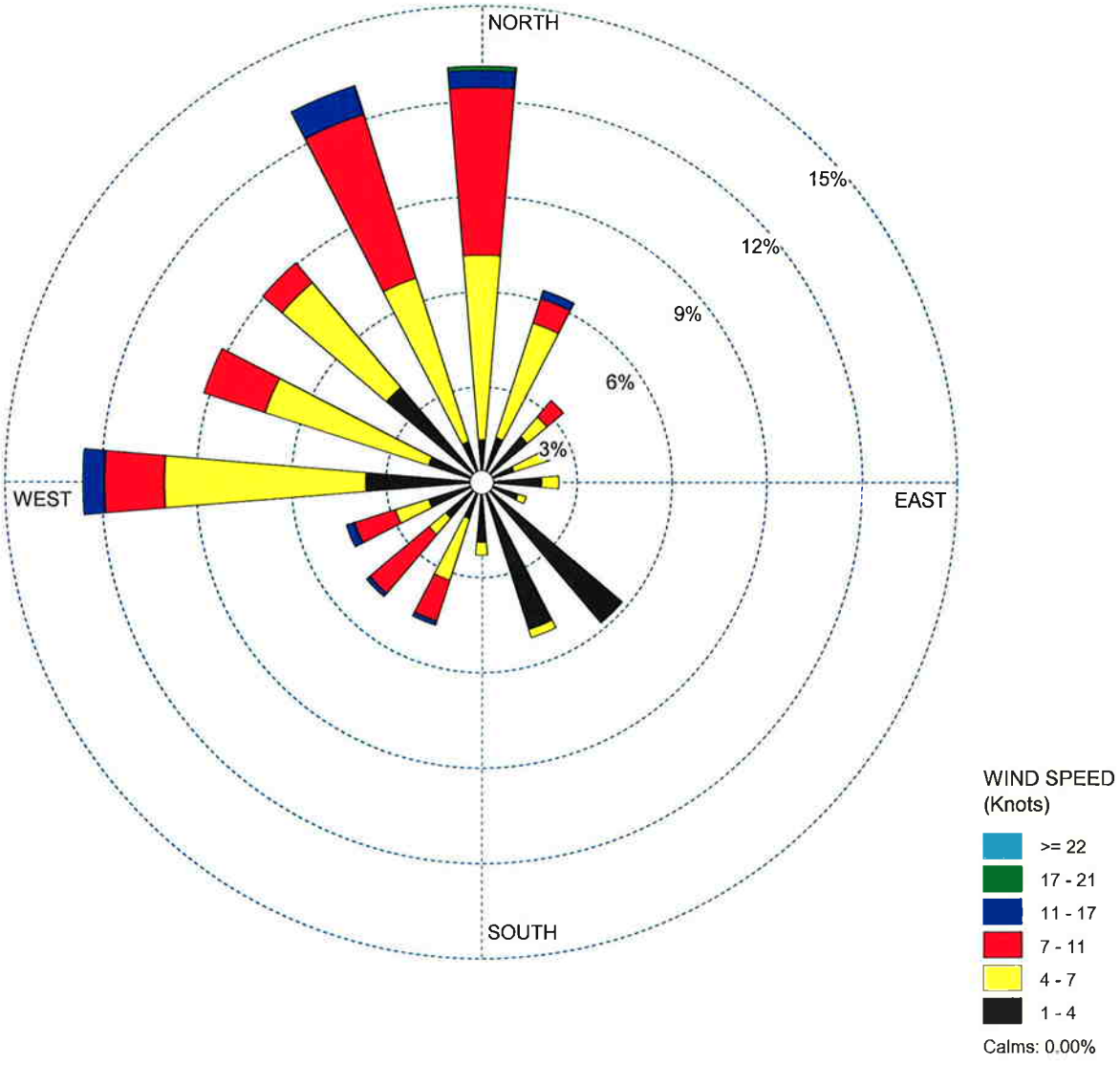
MONTHLY DATA COLLECTION SUMMARY DATA COLLECTION SUMMARY FOR THE MONTH OF: MAY 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (% BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (% BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	18.6	5.0		100.0	99.7
Vector Wind Direction (deg)	1	360	216		100.0	99.7
Scalar Wind Speed (mph)	0.9	19.2	5.5		100.0	99.7
Scalar Wind Direction (deg.)	1	360	215		100.0	100.0
Sigma Theta (deg.)	5.1	75.7	23.5		100.0	99.7
Vertical Wind Speed (mph)	-0.25	0.98	0.09		100.0	99.7
Sigma W (mph)	0.13	2.12	0.78		100.0	99.7
Sigma Phi (deg)	2.97	17.6	8.3		100.0	99.7
Temperature (deg-F)	36.8	88.6	57.7		84.8	84.7
2-Meter Level						
Temperature (deg-F)	35.1	89.5	57.7		84.8	84.8
10-m - 2-m Delta Temp (F-deg)	-2.86	3.33	0.01		84.8	84.7
Relative Humidity (percent)	14.4	98.6	56.2		100.0	100.0
Dew Point Temperature (deg-F)	16.9	61.5	39.8		84.8	84.8
Solar Radiation (W/m^2)	0.0	1074.0	7130.0	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.30	30.23	29.84		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave. Monitoring Site - 10-meter Tower - May 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **May 1 - May 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **742 hrs.**	
	AVG. WIND SPEED: **4.81 Knots**	DATE: **7/2/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 July 17, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for: JUNE 2007**

Data:
- ____ Preliminary
- _X_ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of temperature, delta-temperature, and dew-point temperature data are reported as a non-scheduled outage ("N") from June 1 through June 19. This missing data is the result of intermittent electronic interference with the data logger's temperature signal that in turn, resulted in erroneously high temperature readings. Corrective action was taken during an on-site visit on June 19.*
- *No other operational problems occurred at the Lakeshore/Willis Ave monitoring site in June and monthly data recovery rates for all parameters range from 58.2 percent for the above-mentioned temperature parameters to 100 percent for all remaining parameters.*

Climatic Summary: **JUNE 2007**

General Predominance for winds from: *due west through west-northwest*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*19.2*
Secondary Peak WD:	*WNW*	Min. Wind Speed :	*0.9*

2-meter level

Max. Temperature:	*93.3 °F*	Max. Dew Point Temp.	*71.6 °F*	Max. Relative Humidity	*98%*
Min. Temperature:	*42.7 °F*	Min. Dew Point Temp.	*30.8 °F*	Min. Relative Humidity	*28.5%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through June 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*97.2* %
10-Meter Vector Wind Direction:	*97.2* %
10-Meter Scalar Wind Speed:	*97.2* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*99.9* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*97.2* %
10-Meter Temperature:	*85.3* %

2-Meter Level

2-Meter Temperature:	*85.3* %
Delta Temperature:	*85.3* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*85.2* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JUNE 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

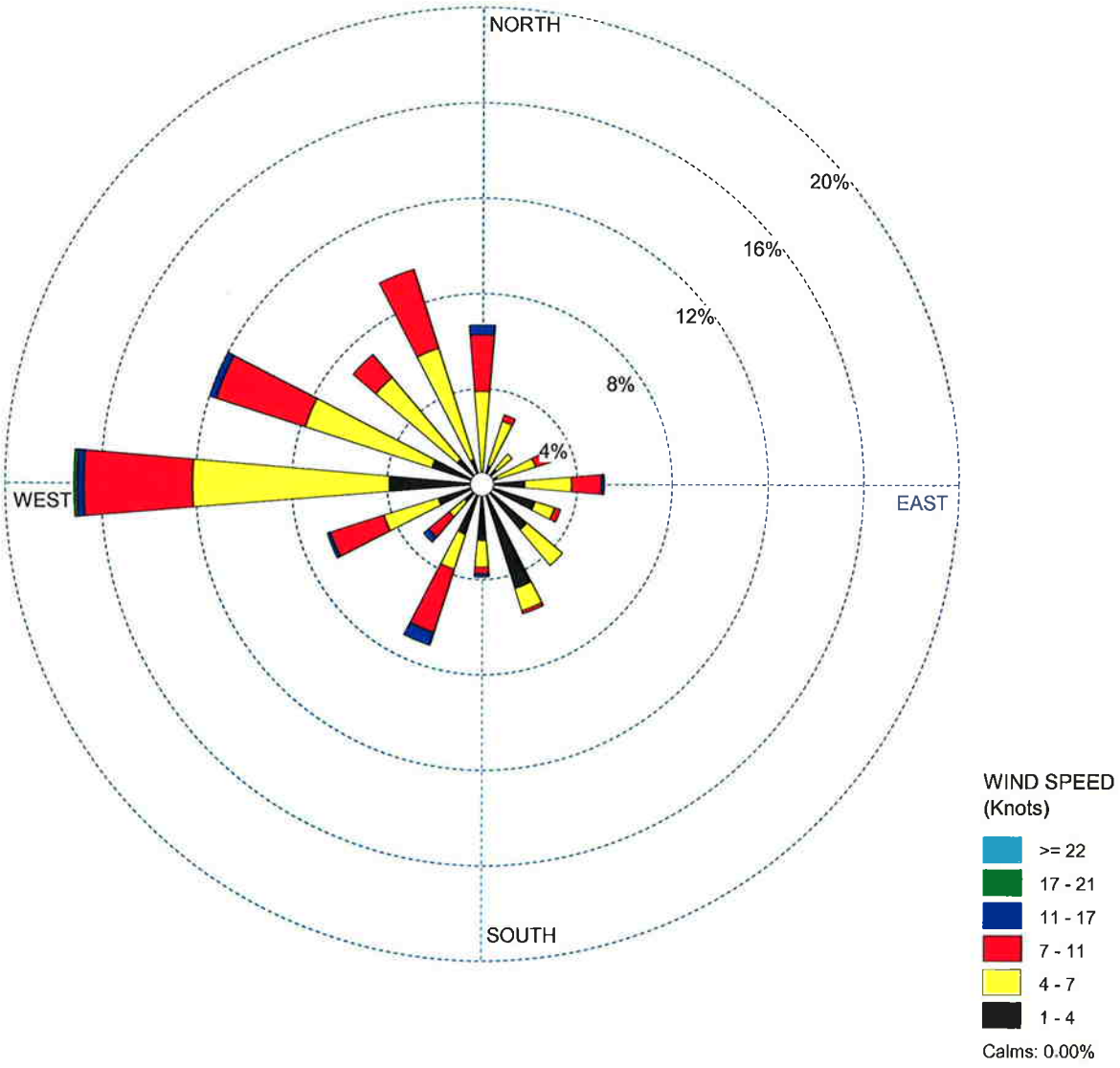
DATA COLLECTION SUMMARY FOR THE MONTH OF: JUNE 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	18.5	5.2		100.0	100.0
Vector Wind Direction (deg)	1	360	221		100.0	100.0
Scalar Wind Speed (mph)	0.9	19.2	5.8		100.0	100.0
Scalar Wind Direction (deg.)	1	360	222		100.0	100.0
Sigma Theta (deg.)	7.4	66.1	25.8		100.0	100.0
Vertical Wind Speed (mph)	-0.30	0.79	0.08		100.0	100.0
Sigma W (mph)	0.12	2.75	0.90		100.0	100.0
Sigma Phi (deg)	3.32	16.9	9.1		100.0	100.0
Temperature (deg-F)	43.4	92.7	69.7		58.2	58.2
2-Meter Level						
Temperature (deg-F)	42.7	93.3	69.7		58.2	58.2
10-m - 2-m Delta Temp (F-deg)	-3.07	3.63	-0.01		58.2	58.2
Relative Humidity (percent)	28.5	97.7	63.0		100.0	100.0
Dew Point Temperature (deg-F)	30.8	71.6	53.8		58.2	58.2
Solar Radiation (W/m^2)	0.0	1099.0	7398.2	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.08	29.94	29.67		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave. Monitoring Site - 10-meter Tower - June 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Jun 1 - Jun 30** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **5.00 Knots**	DATE: **7/17/2007**	PROJECT NO.: **443665-02300**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 August 30, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **JULY 2007**

Data:	____ Preliminary	**Attached/Enclosed:**	____ Preliminary Report
	_X_ Validated		_X_ Final Report
	____ Adjusted (list parameters)		X Data Summaries
			____ AIRS Diskette
			____ Client Data Disk
			____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Lakeshore/Willis Ave monitoring site in July and monthly data recovery rates for all parameters are 100 percent.*

Climatic Summary: **JULY 2007**

General Predominance for winds from: *west-southwest through due west*

10-meter level

Primary Peak WD: *W* Max. Wind Speed : *13.7 mph*
Secondary Peak WD: *WSW* Min. Wind Speed : *1.0 mph*

2-meter level

Max. Temperature:	*91.4 °F*	Max. Dew Point Temp.	*70.8 °F*	Max. Relative Humidity	*98.1%*
Min. Temperature:	*51.1 °F*	Min. Dew Point Temp.	*39.6 °F*	Min. Relative Humidity	*25.9%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through July 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*97.5* %
10-Meter Vector Wind Direction:	*97.5* %
10-Meter Scalar Wind Speed:	*97.5* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*99.9* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*97.5* %
10-Meter Temperature:	*87.2* %

2-Meter Level

2-Meter Temperature:	*87.2* %
Delta Temperature:	*87.2* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*87.1* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

P. Petrone - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JULY 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

DATA COLLECTION SUMMARY FOR THE MONTH OF: JULY 2007

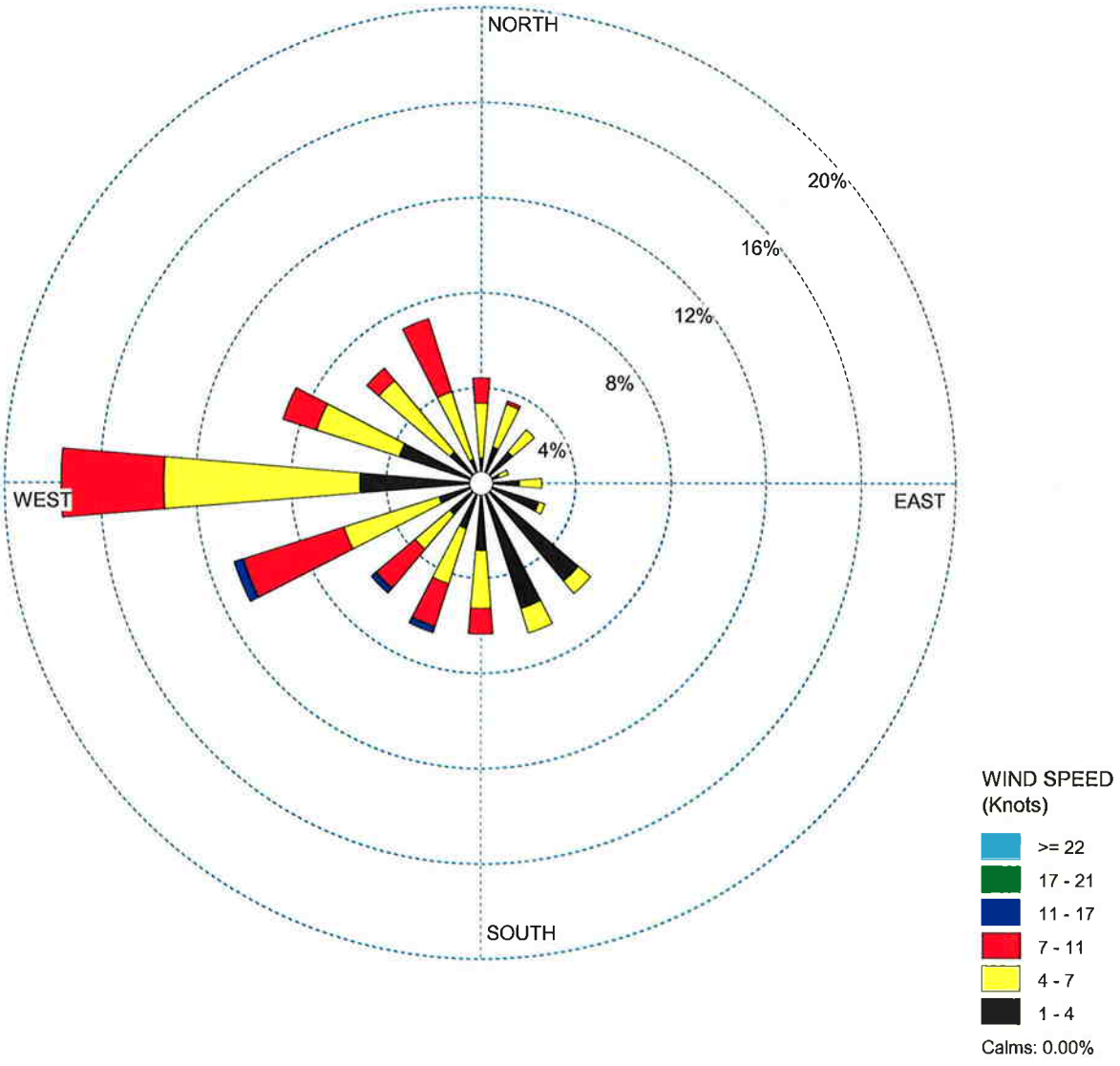
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.3	13.1	4.7		100.0	100.0
Vector Wind Direction (deg)	1	360	220		100.0	100.0
Scalar Wind Speed (mph)	1.0	13.7	5.2		100.0	100.0
Scalar Wind Direction (deg.)	1	360	219		100.0	100.0
Sigma Theta (deg.)	5.6	69.2	25.7		100.0	100.0
Vertical Wind Speed (mph)	-0.24	0.66	0.09		100.0	100.0
Sigma W (mph)	0.14	2.30	0.81		100.0	100.0
Sigma Phi (deg)	2.97	18.7	9.2		100.0	100.0
Temperature (deg-F)	53.2	91.4	70.0		100.0	100.0
2-Meter Level						
Temperature (deg-F)	51.1	91.4	69.8		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-3.06	3.53	0.23		100.0	100.0
Relative Humidity (percent)	25.9	98.1	70.2		100.0	100.0
Dew Point Temperature (deg-F)	39.6	70.8	58.4		100.0	100.0
Solar Radiation (W/m^2)	0.0	1100.0	6140.5	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.34	29.99	29.67		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave. Monitoring Site - 10-meter Tower - July 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Jul 1 - Jul 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **4.55 Knots**	DATE: **8/3/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	442202-03660
		Date:	September 21, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **AUGUST 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A performance audit was conducted at the Lakeshore/Willis Avenue monitoring site on August 16. A minor period of data is reported as scheduled down ("S") on this day to reflect audit activities.*
- *No operational problems occurred at the Lakeshore/Willis Ave monitoring site in August and monthly data recovery rates for all parameters range from 99.6 to 100 percent.*

Climatic Summary: **AUGUST 2007**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*13.5 mph*
Secondary Peak WD:	*SE*	Min. Wind Speed :	*1.1 mph*

2-meter level

Max. Temperature:	*93.8 °F*	Max. Dew Point Temp.	*74.6 °F*	Max. Relative Humidity	*98.3%*
Min. Temperature:	*49.6 °F*	Min. Dew Point Temp.	*37.6 °F*	Min. Relative Humidity	*24.7%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through August 31, 2007**

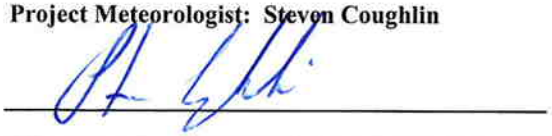
10-Meter Level

10-Meter Vector Wind Speed:	*97.8* %
10-Meter Vector Wind Direction:	*97.8* %
10-Meter Scalar Wind Speed:	*97.8* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*99.9* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*97.8* %
10-Meter Temperature:	*88.6* %

2-Meter Level

2-Meter Temperature:	*88.6* %
Delta Temperature:	*88.6* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*88.6* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin



Distribution:

P. Petrone - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: AUGUST 2007

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

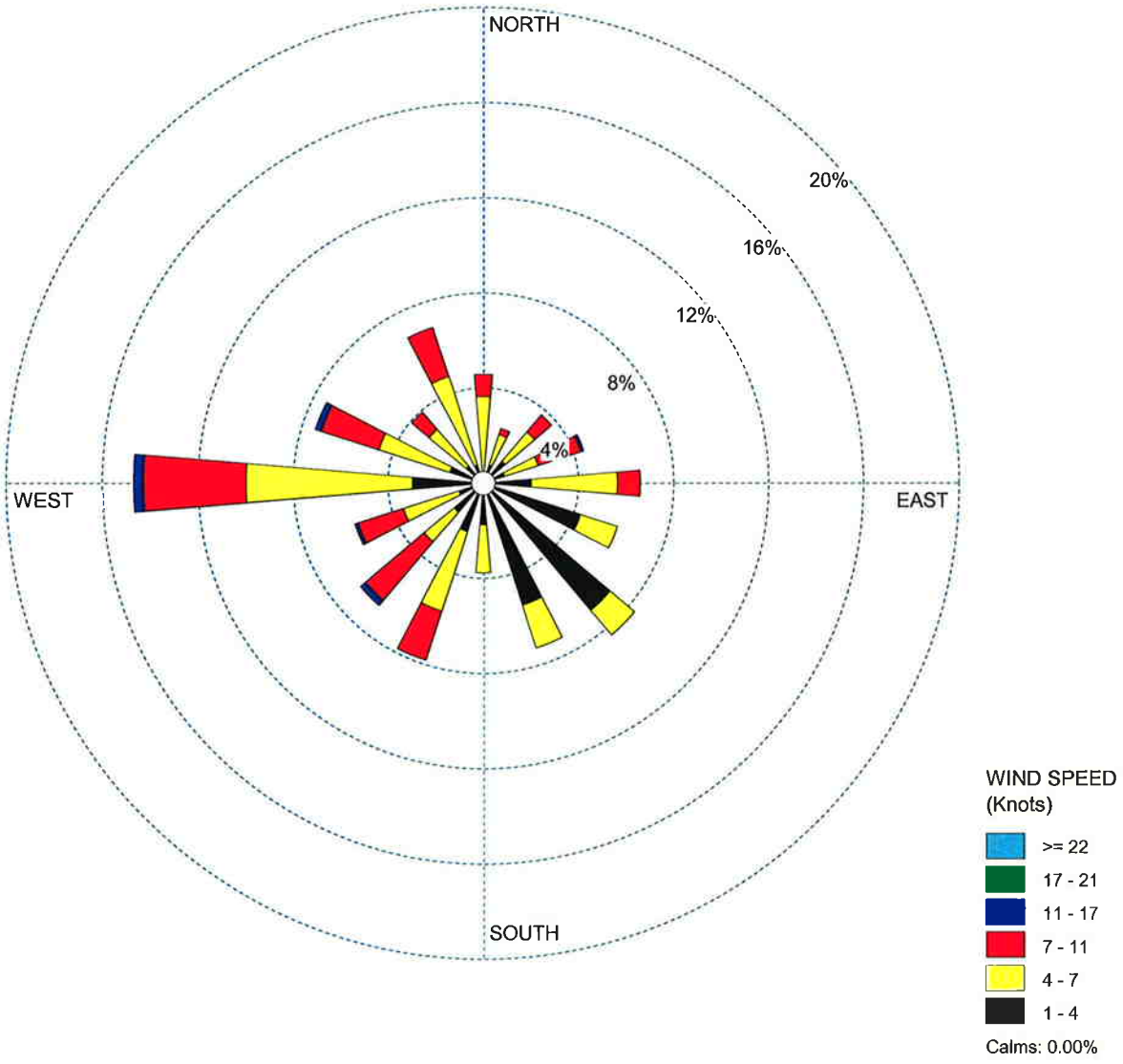
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: AUGUST 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.2	13.3	5.0		100.0	100.0
Vector Wind Direction (deg)	2	359	197		100.0	100.0
Scalar Wind Speed (mph)	1.1	13.5	5.5		100.0	100.0
Scalar Wind Direction (deg.)	1	359	197		100.0	100.0
Sigma Theta (deg.)	6.3	66.2	24.7		100.0	100.0
Vertical Wind Speed (mph)	-0.25	0.71	0.09		100.0	100.0
Sigma W (mph)	0.15	2.50	0.83		100.0	100.0
Sigma Phi (deg)	3.11	17.6	9.0		100.0	100.0
Temperature (deg-F)	50.5	93.0	71.4		100.0	99.6
2-Meter Level						
Temperature (deg-F)	49.6	93.8	71.5		100.0	99.9
10-m - 2-m Delta Temp (F-deg)	-5.01	3.76	-0.05		100.0	99.6
Relative Humidity (percent)	24.7	98.3	68.3		100.0	100.0
Dew Point Temperature (deg-F)	37.6	74.6	59.4		100.0	99.9
Solar Radiation (W/m^2)	0.0	1020.0	5686.3	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.35	29.94	29.70		100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave. Monitoring Site - 10-Meter Tower - August 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Aug 1 - Aug 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **4.78 Knots**	DATE: **9/20/2007**	PROJECT NO.: **443665-02300**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 October 17, 2007

Subject: **Submittal of Lakeshore/Willis Ave Meteorological Data for:** **SEPTEMBER 2007**

Data:	____ Preliminary	**Attached/Enclosed:**	____ Preliminary Report	____ AIRS Diskette
	__X__ Validated		__X__ Final Report	____ Client Data Disk
	____ Adjusted (list parameters)		__X__ Data Summaries	____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Lakeshore/Willis Ave monitoring site in September and monthly data recovery rates for all parameters range are 100 percent.*

Climatic Summary: **SEPTEMBER 2007**

General Predominance for winds from: *due west*

10-meter level

Primary Peak WD: *W* Max. Wind Speed : *17.0 mph*
Secondary Peak WD: *SSW* Min. Wind Speed : *1.2 mph*

2-meter level

Max. Temperature:	*94.5 °F*	Max. Dew Point Temp.	*70.8 °F*	Max. Relative Humidity	*98.3%*
Min. Temperature:	*41.9 °F*	Min. Dew Point Temp.	*37.1 °F*	Min. Relative Humidity	*24.9%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2006 through** **September 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*98.0* %
10-Meter Vector Wind Direction:	*98.0* %
10-Meter Scalar Wind Speed:	*98.0* %
10-Meter Scalar Wind Direction:	*100.0* %
10-Meter Sigma Theta:	*99.9* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*98.0* %
10-Meter Temperature:	*89.7* %

2-Meter Level

2-Meter Temperature:	*89.7* %
Delta Temperature:	*89.7* %
Relative Humidity:	*100.0* %
Dew Point Temperature:	*89.7* %
Solar Radiation:	*100.0* %
Barometric Pressure:	*100.0* %

Project Meteorologist: Steven Coughlin

Distribution:

P. Petrone - Parsons
G. Pacheco - Parsons
T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: SEPTEMBER 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M SOLAR RADIATION	SOLAR RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
LAKESHORE/WILLIS AVE MONITORING SITE - 10-METER TOWER

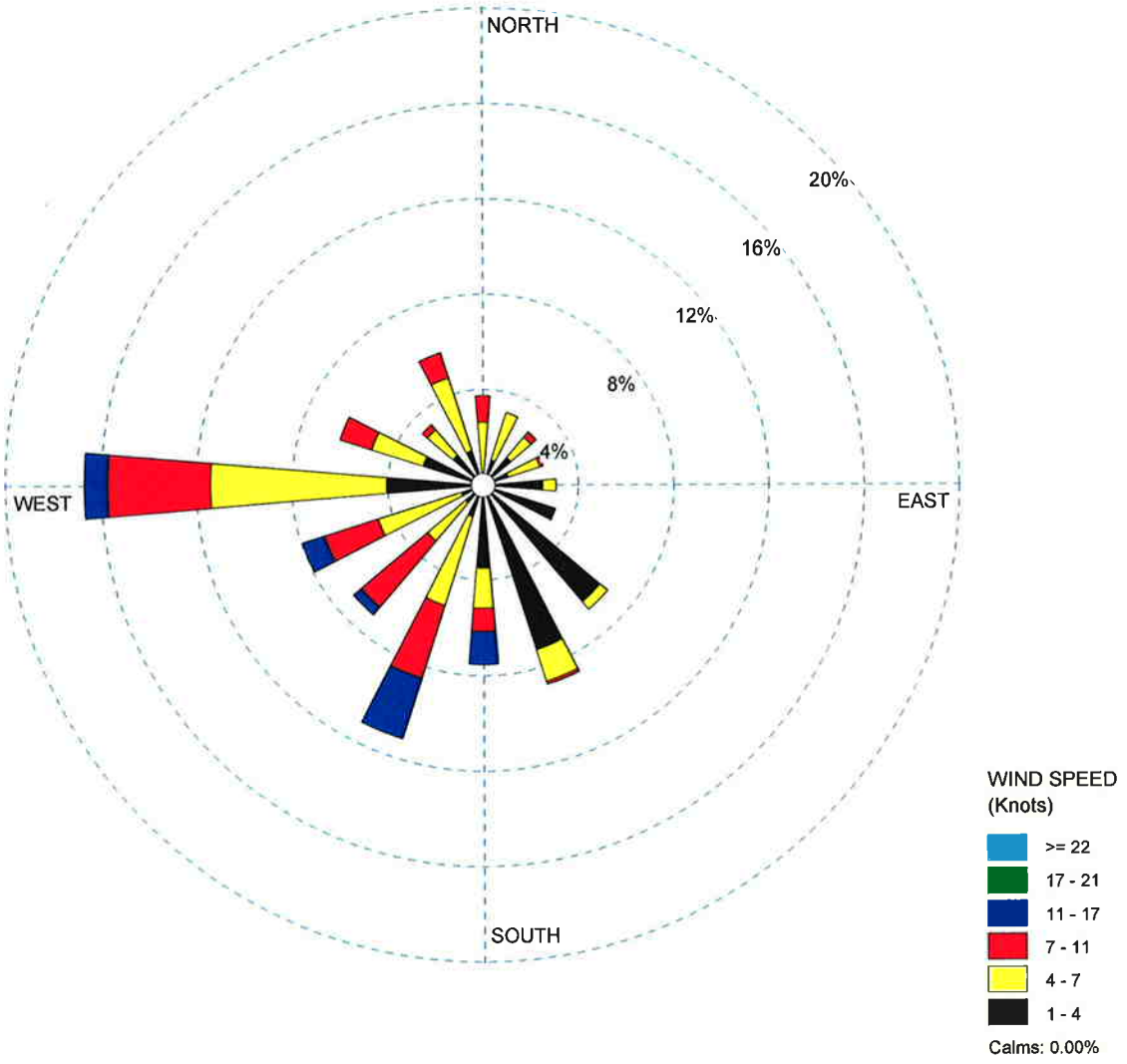
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: SEPTEMBER 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE	MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
LAKESHORE/WILLIS AVE 10-METER TOWER					
10-Meter Level					
Vector Wind Speed (mph)	0.2	16.4	5.1	100.0	100.0
Vector Wind Direction (deg)	1	359	204	100.0	100.0
Scalar Wind Speed (mph)	1.2	17.0	5.6	100.0	100.0
Scalar Wind Direction (deg.)	1	359	205	100.0	100.0
Sigma Theta (deg.)	5.9	77.1	23.6	100.0	100.0
Vertical Wind Speed (mph)	-0.25	0.76	0.12	100.0	100.0
Sigma W (mph)	0.12	2.17	0.81	100.0	100.0
Sigma Phi (deg)	3.57	20.0	8.6	100.0	100.0
Temperature (deg-F)	42.6	93.7	66.0	100.0	100.0
2-Meter Level					
Temperature (deg-F)	41.9	94.5	65.8	100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-3.22	6.47	0.14	100.0	100.0
Relative Humidity (percent)	24.9	98.3	70.8	100.0	100.0
Dew Point Temperature (deg-F)	37.1	70.8	54.8	100.0	100.0
Solar Radiation (W/m^2)	0.0	937.0	4815.5 (Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.25	30.21	29.82	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Lakeshore/Willis Ave Monitoring Site - 10-meter Tower - September 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Sep 1 - Sep 30 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **4.87 Knots**	DATE: **10/17/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 January 15, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **DECEMBER 2006**

Data:	____ Preliminary	**Attached/Enclosed:**	____ Preliminary Report	____ AIRS Diskette
	_X_ Validated		_X_ Final Report	____ Client Data Disk
	____ Adjusted (list parameters)		X Data Summaries	____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of wind speed and direction data (and associated computed parameters) are reported as missing ("N") on December 27, 30, and 31. This missing data is the result of frozen wind speed cups and wind vane due to a buildup of ice on each during periods of frozen precipitation.*
- *No other operational problems occurred at the Wastebed 13 monitoring site in December and monthly data recovery rates for all parameters range from 95.2 percent (for wind speed) to 100 percent*
- *Precipitation bucket is non-heated, so recorded precipitation amounts generally reflect rain events only.*

Climatic Summary: **DECEMBER 2006**

General Predominance for winds from: *southwest through due west*

10-meter level

Primary Peak WD:	*W*	Max. Wind Speed :	*23.4 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*0.4 mph*

2-meter level

Max. Temperature:	*60.8 °F*	Max. Dew Point Temp.	*58.0 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*11.4 °F*	Min. Dew Point Temp.	*8.9 °F*	Min. Relative Humidity	*36.0%*

Cumulative-to-date Data Recovery Rates **Period: December 1, 2005 through** **December 31, 2006**

10-Meter Level

10-Meter Vector Wind Speed:	*98.0* %
10-Meter Vector Wind Direction:	*98.0* %
10-Meter Scalar Wind Speed:	*98.0* %
10-Meter Scalar Wind Direction:	*98.6* %
10-Meter Sigma Theta:	*98.6* %
10-Meter Vertical Wind Speed:	*96.2* %
Sigma W:	*96.2* %
Sigma Phi:	*95.5* %
10-Meter Temperature:	*96.1* %

2-Meter Level

2-Meter Temperature:	*98.7* %
Delta Temperature:	*96.1* %
Relative Humidity:	*98.7* %
Dew Point Temperature:	*98.7* %
Net Radiation:	*97.6* %
Barometric Pressure:	*98.8* %

Surface

Precipitation (Rain):	*96.8* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: DECEMBER 2006

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: DECEMBER 2006

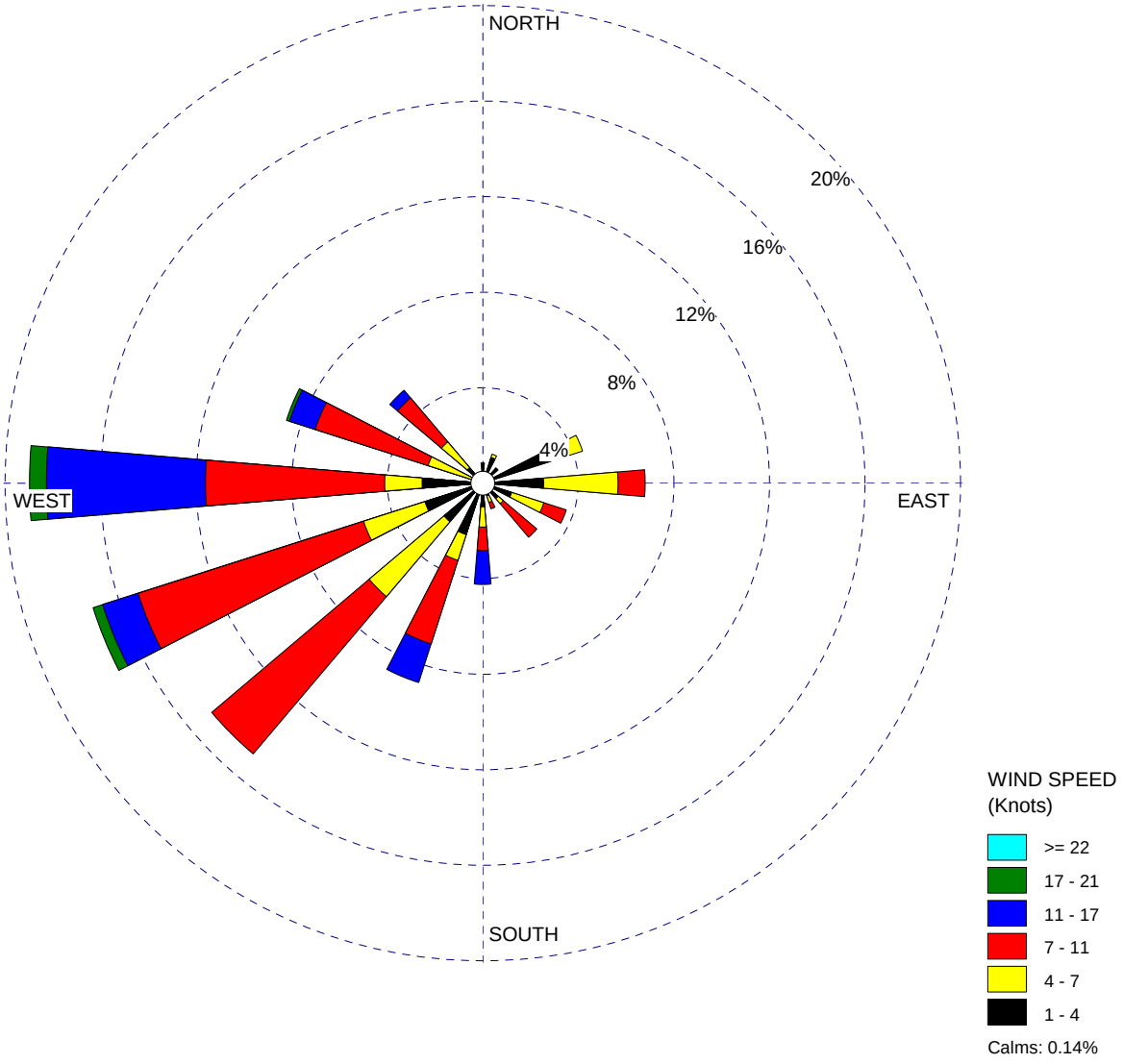
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.2	22.9	8.2		95.2	95.2
Vector Wind Direction (deg)	3	354	216		95.2	95.2
Scalar Wind Speed (mph)	0.4	23.4	8.5		95.2	95.2
Scalar Wind Direction (deg.)	3	358	219		99.6	99.6
Sigma Theta (deg.)	4.7	77.7	14.4		99.6	99.6
Vertical Wind Speed (mph)	-0.51	1.24	-0.06		100.0	100.0
Sigma W (mph)	0.02	2.46	0.89		100.0	100.0
Sigma Phi (deg)	0.87	18.8	6.0		95.2	95.2
Temperature (deg-F)	11.3	60.8	37.8		100.0	100.0
2-Meter Level						
Temperature (deg-F)	11.4	60.8	37.6		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-1.40	4.76	0.22		100.0	100.0
Relative Humidity (percent)	36.0	100.0	75.7		100.0	100.0
Dew Point Temperature (deg-F)	8.9	58.0	29.9		100.0	100.0
Net Radiation (W/m^2)	-80.5	192.5	-160.9	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.83	30.29	29.70		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.46	3.46	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - December 2006

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2006 Jan 1 - Dec 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.14%**	TOTAL COUNT: **708 hrs.**	
	AVG. WIND SPEED: **7.42 Knots**	DATE: **1/13/2007**	PROJECT NO.: **442202-03660**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 February 22, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **JANUARY 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Periods of wind speed and direction data (and associated computed parameters) are reported as missing ("N") from January 13 through January 18. This missing data is the result of frozen wind speed cups and wind vane due to a buildup of ice on each during periods of frozen precipitation.*
- *A performance audit was conducted at the Wastebed 13 monitoring site on January 18. As a result, periods of data are reported as scheduled down ("S") on this day to reflect these audit activities.*
- *No other operational problems occurred at the Wastebed 13 monitoring site in January and monthly data recovery rates for all parameters range from 85.2 percent to 100 percent*
- *Precipitation bucket is non-heated, so recorded precipitation amounts generally reflect rain events only.*

Climatic Summary: **JANUARY 2007**

General Predominance for winds from: *southwest through due west*

10-meter level

Primary Peak WD:	*SW*	Max. Wind Speed :	*24.5 mph*
Secondary Peak WD:	*W*	Min. Wind Speed :	*1.1 mph*

2-meter level

Max. Temperature:	*61.7 °F*	Max. Dew Point Temp.	*57.0 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*-7.5 °F*	Min. Dew Point Temp.	*-10.2 °F*	Min. Relative Humidity	*37.4%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **January 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*85.2* %
10-Meter Vector Wind Direction:	*85.2* %
10-Meter Scalar Wind Speed:	*89.8* %
10-Meter Scalar Wind Direction:	*89.5* %
10-Meter Sigma Theta:	*89.5* %
10-Meter Vertical Wind Speed:	*99.5* %
Sigma W:	*99.5* %
Sigma Phi:	*89.8* %
10-Meter Temperature:	*99.5* %

2-Meter Level

2-Meter Temperature:	*99.5* %
Delta Temperature:	*99.5* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*99.5* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JANUARY 2007

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: JANUARY 2007

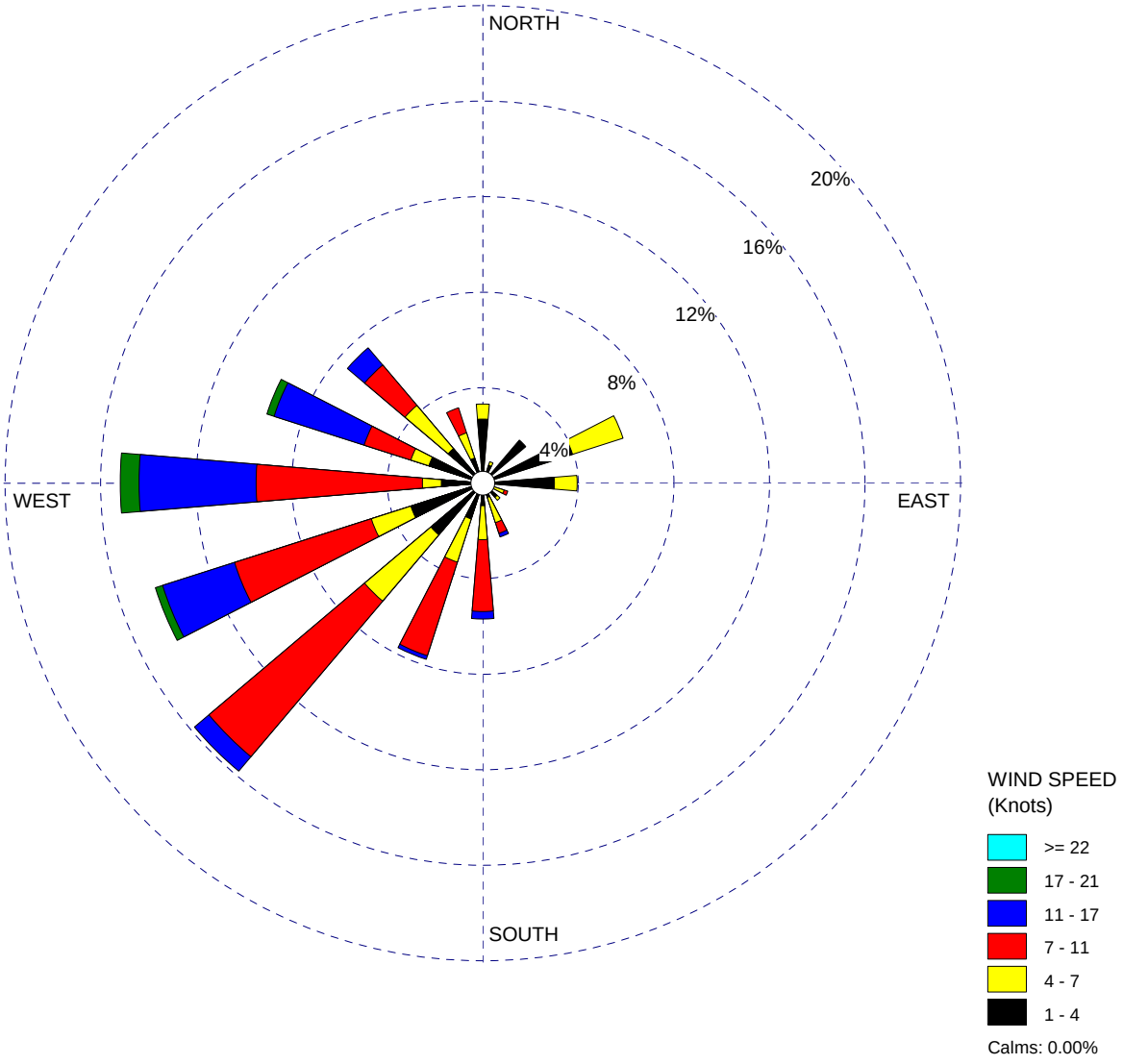
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.4	23.6	8.0		85.8	85.2
Vector Wind Direction (deg)	2	360	221		85.8	85.2
Scalar Wind Speed (mph)	1.1	24.5	8.1		90.3	89.8
Scalar Wind Direction (deg.)	2	356	222		89.9	89.5
Sigma Theta (deg.)	4.2	63.1	15.6		89.9	89.5
Vertical Wind Speed (mph)	-0.51	1.18	0.10		100.0	99.5
Sigma W (mph)	0.07	2.47	0.84		100.0	99.5
Sigma Phi (deg)	1.75	23.2	6.4		90.3	89.8
Temperature (deg-F)	-4.6	61.3	28.5		100.0	99.5
2-Meter Level						
Temperature (deg-F)	-7.5	61.7	28.5		100.0	99.5
10-m - 2-m Delta Temp (F-deg)	-1.49	4.59	0.05		100.0	99.5
Relative Humidity (percent)	37.4	100.0	79.8		100.0	99.9
Dew Point Temperature (deg-F)	-10.2	57.0	22.5		100.0	99.5
Net Radiation (W/m^2)	-96.3	240.0	-211.3	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.05	30.30	29.59		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.26	2.32	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - January 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Jan 1 - Jan 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **634 hrs.**	
	AVG. WIND SPEED: **7.27 Knots**	DATE: **2/22/2007**	PROJECT NO.: **442202-03660**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	442202-03660
		Date:	March 15, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **FEBRUARY 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Wastebed 13 monitoring site in February and monthly data recovery rates for all parameters are 100 percent.*
- *Precipitation bucket is non-heated, so recorded precipitation amounts generally reflect rain events only.*

Climatic Summary: **FEBRUARY 2007**

General Predominance for winds from: *west-southwest*

10-meter level

Primary Peak WD:	*WSW*	Max. Wind Speed :	*24.6 mph*
Secondary Peak WD:	*W*	Min. Wind Speed :	*0.3 mph*

2-meter level

Max. Temperature:	*44.4 °F*	Max. Dew Point Temp.	*34.9 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*-4.4 °F*	Min. Dew Point Temp.	*-13.1 °F*	Min. Relative Humidity	*29.8%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **February 28, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*92.2* %
10-Meter Vector Wind Direction:	*92.2* %
10-Meter Scalar Wind Speed:	*94.6* %
10-Meter Scalar Wind Direction:	*94.5* %
10-Meter Sigma Theta:	*94.5* %
10-Meter Vertical Wind Speed:	*99.7* %
Sigma W:	*99.7* %
Sigma Phi:	*94.6* %
10-Meter Temperature:	*99.7* %

2-Meter Level

2-Meter Temperature:	*99.7* %
Delta Temperature:	*99.7* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*99.7* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: FEBRUARY 2007

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

DATA COLLECTION SUMMARY FOR THE MONTH OF: FEBRUARY 2007

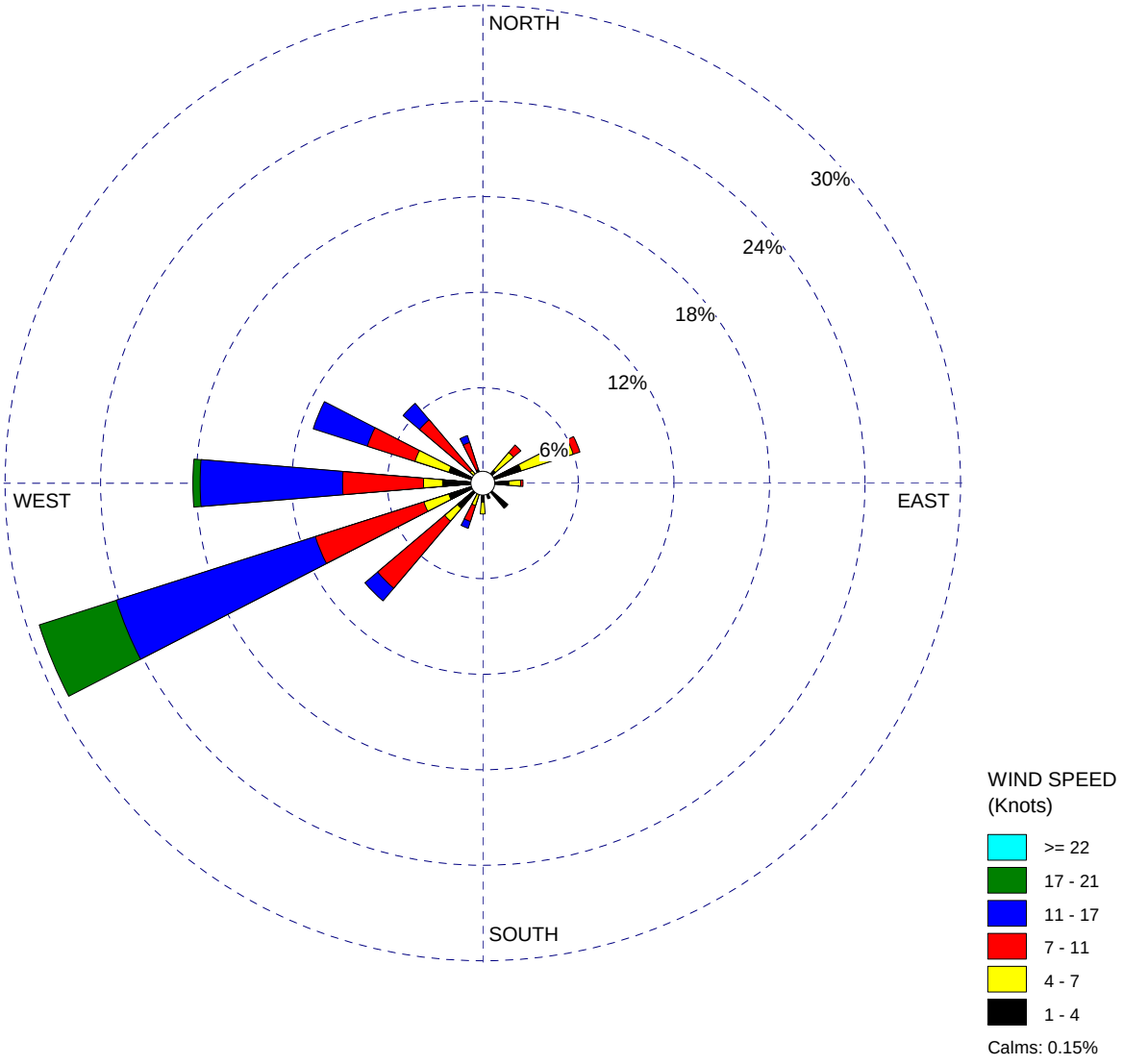
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	24.2	10.4		100.0	100.0
Vector Wind Direction (deg)	6	349	232		100.0	100.0
Scalar Wind Speed (mph)	0.3	24.6	10.6		100.0	100.0
Scalar Wind Direction (deg.)	6	359	232		100.0	100.0
Sigma Theta (deg.)	3.6	57.6	12.7		100.0	100.0
Vertical Wind Speed (mph)	-0.20	1.22	0.32		100.0	100.0
Sigma W (mph)	0.10	2.45	1.06		100.0	100.0
Sigma Phi (deg)	1.87	31.3	5.9		100.0	100.0
Temperature (deg-F)	-1.7	45.4	19.6		100.0	100.0
2-Meter Level						
Temperature (deg-F)	-4.4	44.4	19.4		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-0.66	4.43	0.26		100.0	100.0
Relative Humidity (percent)	29.8	100.0	74.7		100.0	100.0
Dew Point Temperature (deg-F)	-13.1	34.9	12.1		100.0	100.0
Net Radiation (W/m^2)	-116.3	89.2	-242.6	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.08	30.11	29.52		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.11	0.80	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - February 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Feb 1 - Feb 28** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.15%**	TOTAL COUNT: **672 hrs.**	
	AVG. WIND SPEED: **9.25 Knots**	DATE: **3/16/2007**	PROJECT NO.: **442636-02400**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 April 25, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **MARCH 2007**

Data:	___ Preliminary	**Attached/Enclosed:**	___ Preliminary Report
	_X_ Validated		_X_ Final Report
	___ Adjusted (list parameters)		_X_ Data Summaries
			___ AIRS Diskette
			___ Client Data Disk
			___ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A period of wind speed data (and associated calculated parameters) is reported as missing due to a non-scheduled outage ("N") from 2300 EST on March 1 through 0700 EST on March 2. A period of vertical wind speed data is also reported as "N" from 0400 EST through 0600 EST on March 2. This missing data results from frozen wind speed cups and a frozen vertical wind speed propeller caused by a buildup of frozen precipitation on each.*
- *No other operational problems occurred at the Wastebed 13 monitoring site in March and monthly data recovery rates for all parameters range from 98.8 to 100 percent.*
- *Precipitation bucket is non-heated, so recorded precipitation amounts generally reflect rain events only.*

Climatic Summary: **MARCH 2007**

General Predominance for winds from: *southwest through due west to northwest*

10-meter level

Primary Peak WD:	*WNW*	Max. Wind Speed :	*26.1 mph*
Secondary Peak WD:	*SW*	Min. Wind Speed :	*0.8 mph*

2-meter level

Max. Temperature:	*62.6 °F*	Max. Dew Point Temp.	*52.8 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*-4.9 °F*	Min. Dew Point Temp.	*-7.9 °F*	Min. Relative Humidity	*15.2%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **March 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*94.5* %
10-Meter Vector Wind Direction:	*94.5* %
10-Meter Scalar Wind Speed:	*96.1* %
10-Meter Scalar Wind Direction:	*96.4* %
10-Meter Sigma Theta:	*96.4* %
10-Meter Vertical Wind Speed:	*99.7* %
Sigma W:	*99.7* %
Sigma Phi:	*96.1* %
10-Meter Temperature:	*99.8* %

2-Meter Level

2-Meter Temperature:	*99.8* %
Delta Temperature:	*99.8* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*99.8* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: MARCH 2007

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PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

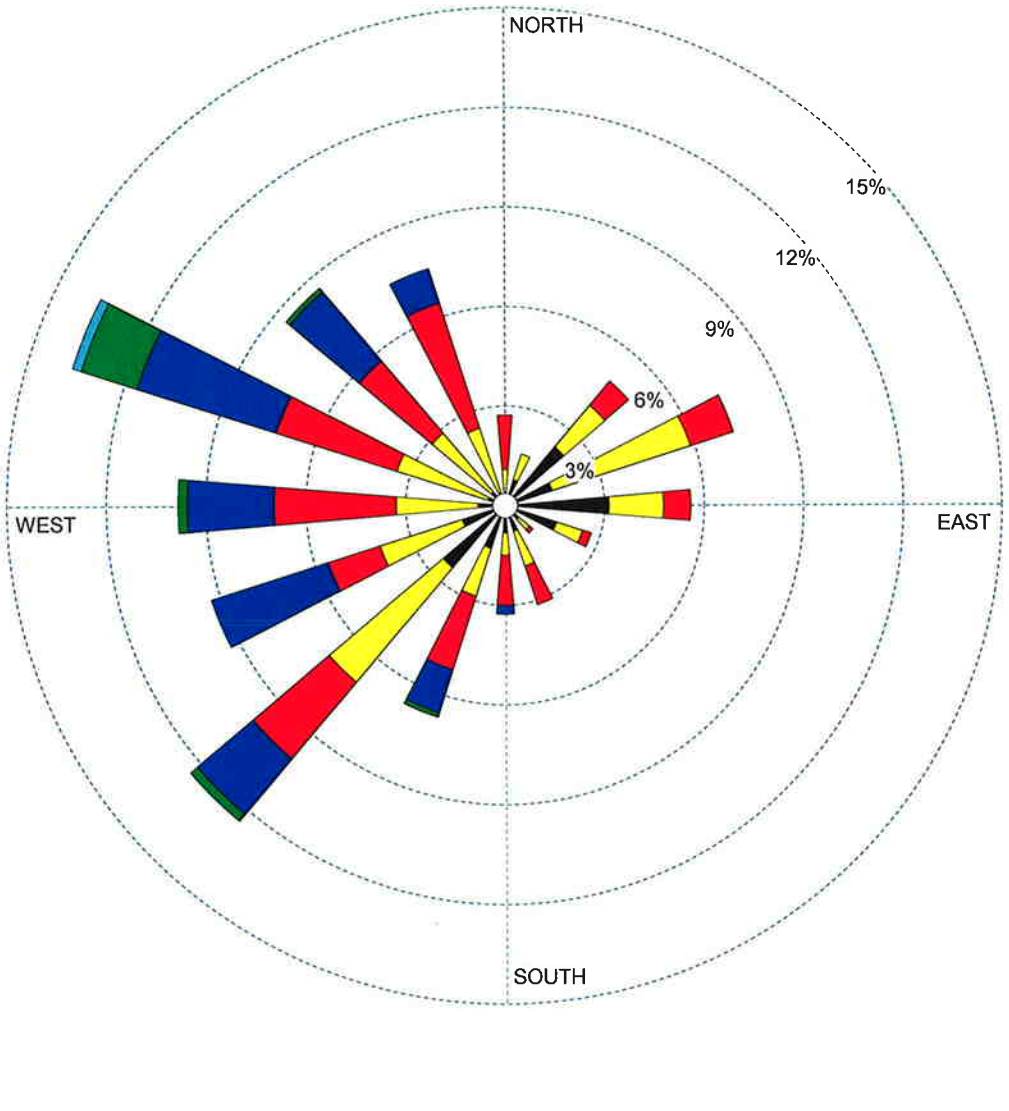
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: MARCH 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	25.6	7.9		98.8	98.8
Vector Wind Direction (deg)	2	360	218		98.8	98.8
Scalar Wind Speed (mph)	0.8	26.1	8.3		98.8	98.8
Scalar Wind Direction (deg.)	1	360	216		100.0	100.0
Sigma Theta (deg.)	3.0	63.3	16.6		100.0	100.0
Vertical Wind Speed (mph)	-0.30	1.47	0.30		99.6	99.6
Sigma W (mph)	0.06	2.45	0.90		99.6	99.6
Sigma Phi (deg)	1.81	20.8	6.2		98.8	98.8
Temperature (deg-F)	-2.1	63.8	33.0		100.0	100.0
2-Meter Level						
Temperature (deg-F)	-4.9	62.6	32.3		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-1.36	5.93	0.65		100.0	100.0
Relative Humidity (percent)	15.2	100.0	72.1		100.0	100.0
Dew Point Temperature (deg-F)	-7.9	52.8	22.9		100.0	100.0
Net Radiation (W/m^2)	-160.1	489.7	592.8	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.90	30.32	29.72		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.44	2.47	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - March 2006

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Mar 1 - Mar 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **735 hrs.**	
	AVG. WIND SPEED: **7.23 Knots**	DATE: **4/23/2007**	PROJECT NO.: **442202-03660**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 442202-03660 May 9, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **APRIL 2007**

Data:
- ___ Preliminary
- _X_ Validated
- ___ Adjusted (list parameters)

Attached/Enclosed:
- ___ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ___ AIRS Diskette
- ___ Client Data Disk
- ___ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *Minor periods of data are reported as scheduled down ("S") on April 30. This missing data results from tower audit activities that were conducted at the Wastebed 13 monitoring site on this day.*
- *No operational problems occurred at the Wastebed 13 monitoring site in April and monthly data recovery rates for all parameters range from 99.7 to 100 percent.*

Climatic Summary: **APRIL 2007**

General Predominance for winds from: *southwest through due west*

10-meter level

Primary Peak WD: *W* Max. Wind Speed : *21.2 mph*
Secondary Peak WD: *WSW* Min. Wind Speed : *1.2 mph*

2-meter level

Max. Temperature:	*83.3 °F*	Max. Dew Point Temp.	*58.9 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*19.9 °F*	Min. Dew Point Temp.	*11.8 °F*	Min. Relative Humidity	*14.9%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through April 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*95.8* %
10-Meter Vector Wind Direction:	*95.8* %
10-Meter Scalar Wind Speed:	*97.0* %
10-Meter Scalar Wind Direction:	*97.3* %
10-Meter Sigma Theta:	*97.3* %
10-Meter Vertical Wind Speed:	*99.8* %
Sigma W:	*99.7* %
Sigma Phi:	*97.0* %
10-Meter Temperature:	*99.8* %

2-Meter Level

2-Meter Temperature:	*99.9* %
Delta Temperature:	*99.9* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*99.8* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons
G. Pacheco - Parsons
T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: APRIL 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY

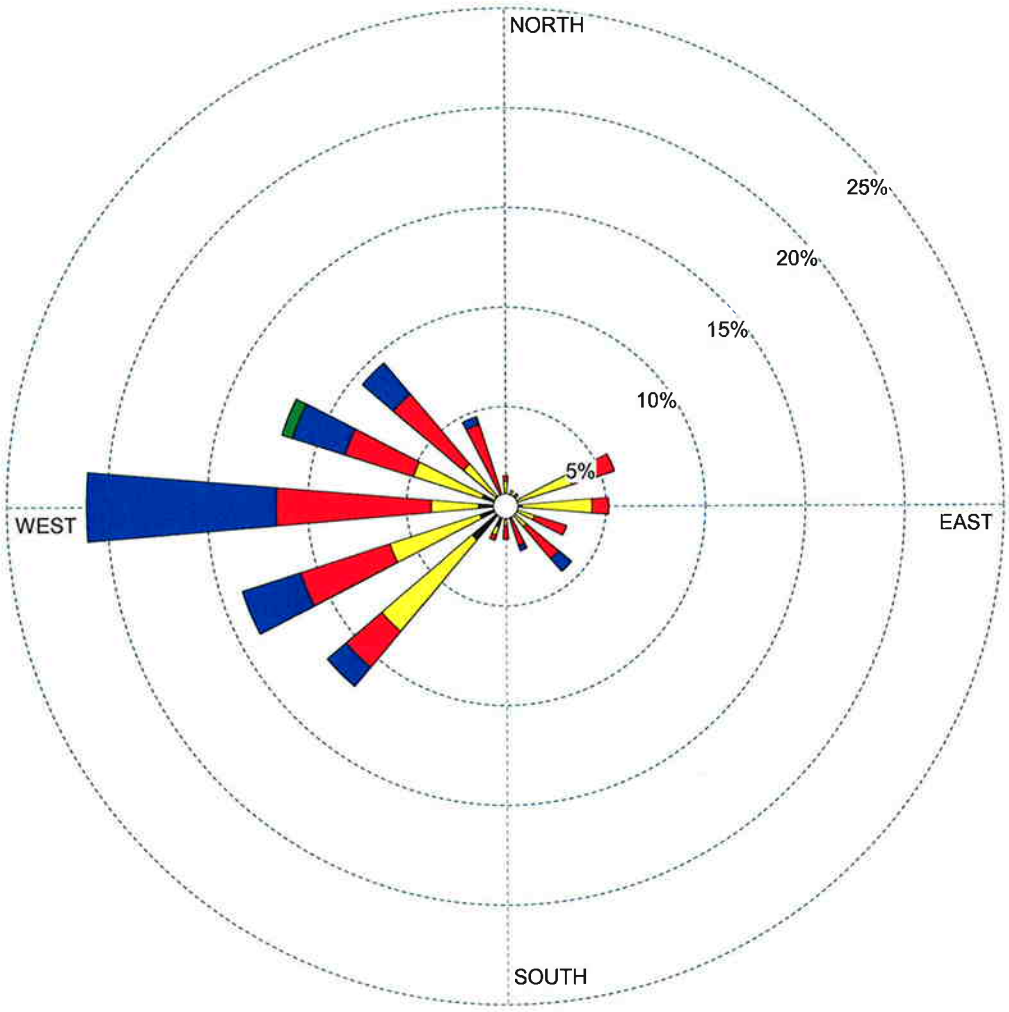
DATA COLLECTION SUMMARY FOR THE MONTH OF: APRIL 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.4	19.4	8.3		100.0	99.7
Vector Wind Direction (deg)	5	359	230		100.0	99.7
Scalar Wind Speed (mph)	1.2	21.2	8.7		100.0	100.0
Scalar Wind Direction (deg.)	4	360	231		100.0	100.0
Sigma Theta (deg.)	3.6	69.3	15.2		100.0	99.9
Vertical Wind Speed (mph)	-0.18	1.69	0.30		100.0	100.0
Sigma W (mph)	0.00	2.18	0.94		100.0	99.7
Sigma Phi (deg)	0.01	20.4	6.2		100.0	99.7
Temperature (deg-F)	21.4	81.7	43.8		100.0	99.7
2-Meter Level						
Temperature (deg-F)	19.9	83.3	43.5		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-2.22	5.86	0.28		100.0	99.7
Relative Humidity (percent)	14.9	100.0	71.2		100.0	100.0
Dew Point Temperature (deg-F)	11.8	58.9	33.1		100.0	99.9
Net Radiation (W/m^2)	-130.0	569.4	1461.9	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.68	29.83	29.48		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.37	3.47	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - April 2007

DISPLAY:
Wind Speed
Direction (blowing from)



WIND SPEED
(Knots)

- >= 22
- 17 - 21
- 11 - 17
- 7 - 11
- 4 - 7
- 1 - 4

Calms: 0.00%

COMMENTS:	DATA PERIOD: **2007 Apr 1 - Apr 30 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **7.57 Knots**	DATE: **5/8/2007**	PROJECT NO.: **442636-02400**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	442202-03660
		Date:	June 15, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **MAY 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A period of 2-meter temperature, delta-temperature, and dew-point temperature data is reported as a non-scheduled outage ("N") on May 31. This missing data results from a voltage loss to the 2-meter temperature signal that in turn, resulted in erroneously low temperature data recorded during the period.*
- *No other operational problems occurred at the Wastebed 13 monitoring site in May and monthly data recovery rates for all parameters range from 98.4 to 100 percent.*

Climatic Summary: **MAY 2007**

General Predominance for winds from: *southwest*

10-meter level

Primary Peak WD:	*SW*	Max. Wind Speed :	*16.3 mph*
Secondary Peak WD:	*NW*	Min. Wind Speed :	*0.9 mph*

2-meter level

Max. Temperature:	*87.7 °F*	Max. Dew Point Temp.	*64.6 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*33.0 °F*	Min. Dew Point Temp.	*15.0 °F*	Min. Relative Humidity	*15.9%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through May 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*96.7* %
10-Meter Vector Wind Direction:	*96.7* %
10-Meter Scalar Wind Speed:	*97.7* %
10-Meter Scalar Wind Direction:	*97.8* %
10-Meter Sigma Theta:	*97.8* %
10-Meter Vertical Wind Speed:	*99.8* %
Sigma W:	*99.8* %
Sigma Phi:	*97.6* %
10-Meter Temperature:	*99.8* %

2-Meter Level

2-Meter Temperature:	*99.6* %
Delta Temperature:	*99.5* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*99.5* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: MAY 2007

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PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: MAY 2007

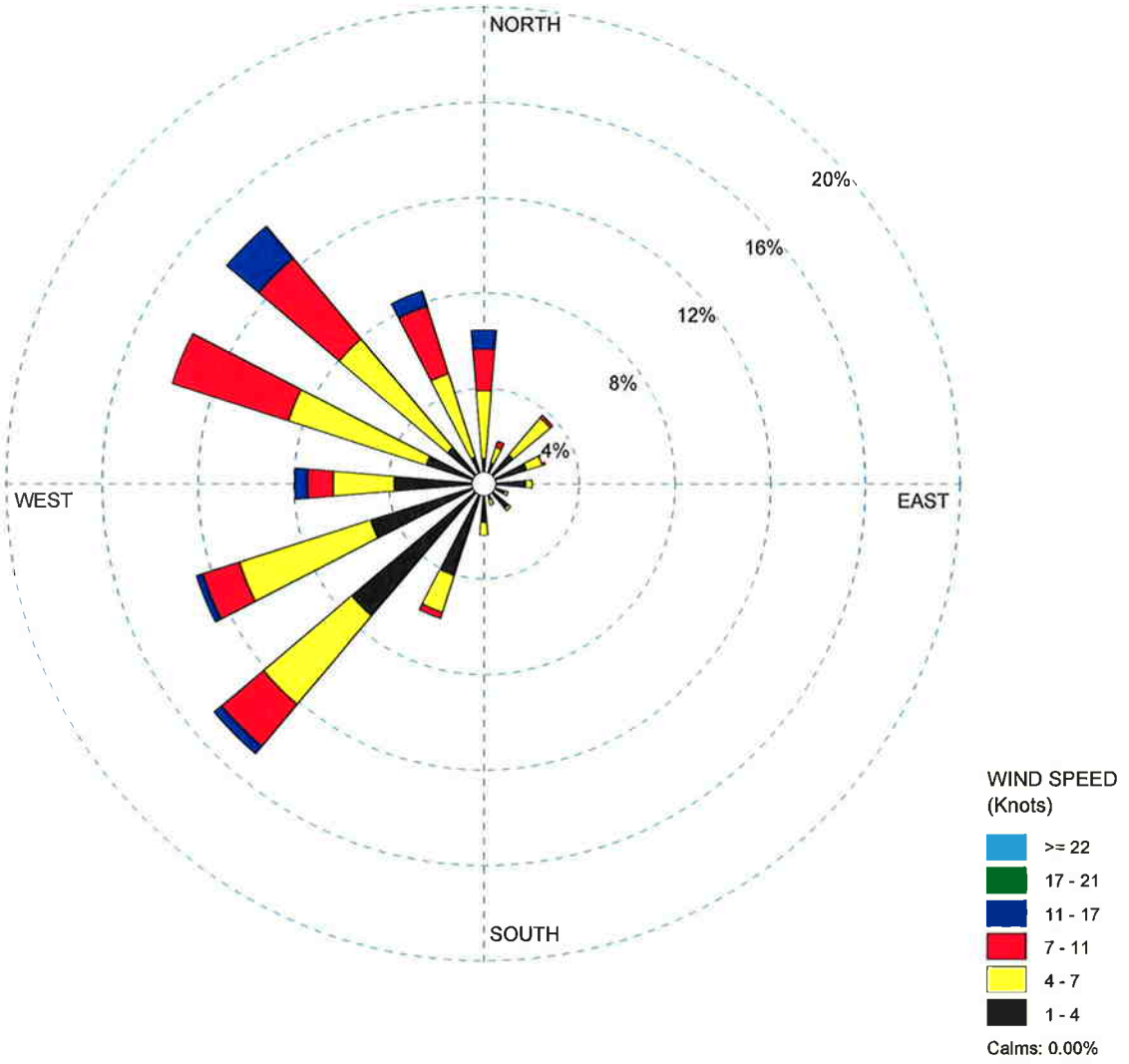
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	15.7	5.1		100.0	100.0
Vector Wind Direction (deg)	1	360	243		100.0	100.0
Scalar Wind Speed (mph)	0.9	16.3	5.6		100.0	100.0
Scalar Wind Direction (deg.)	1	360	241		100.0	100.0
Sigma Theta (deg.)	5.4	77.2	22.1		100.0	100.0
Vertical Wind Speed (mph)	-0.15	1.14	0.21		100.0	100.0
Sigma W (mph)	0.07	1.79	0.75		100.0	100.0
Sigma Phi (deg)	1.95	24.7	7.7		100.0	100.0
Temperature (deg-F)	34.9	86.3	59.0		100.0	100.0
2-Meter Level						
Temperature (deg-F)	33.0	87.7	58.3		98.5	98.5
10-m - 2-m Delta Temp (F-deg)	-2.56	6.23	0.34		98.5	98.5
Relative Humidity (percent)	15.9	100.0	59.4		100.0	100.0
Dew Point Temperature (deg-F)	15.0	64.6	41.5		98.4	98.4
Net Radiation (W/m^2)	-132.2	614.4	3012.6	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.20	30.12	29.73		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.11	0.53	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-meter Tower - May 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **May 1 - May 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **4.89 Knots**	DATE: **6/13/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 443665-02300 July 17, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **JUNE 2007**

Data:
- ___ Preliminary
- _X_ Validated
- ___ Adjusted (list parameters)

Attached/Enclosed:
- ___ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ___ AIRS Diskette
- ___ Client Data Disk
- ___ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A period of 2-meter temperature, delta-temperature, and dew-point temperature data is reported as a non-scheduled outage ("N") from June 1 through hour 12 on June 19. This missing data results from a voltage loss caused by contact between the 2-meter temperature signal wires and the aspirator fan. The 2-meter temperature probe and signal cable were replaced on June 19 and valid data collection resumed at 1300 EST on this day.*
- *No other operational problems occurred at the Wastebed 13 monitoring site in June and monthly data recovery rates for all parameters range from 38.2 for the above mentioned parameters to 100 percent for all other parameters.*

Climatic Summary: **JUNE 2007**

General Predominance for winds from: *southwest through west-southwest*

10-meter level

Primary Peak WD:	*SW*	Max. Wind Speed :	*19.3 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*0.9 mph*

2-meter level

Max. Temperature:	*89.9 °F*	Max. Dew Point Temp.	*72.5 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*46.4 °F*	Min. Dew Point Temp.	*32.1 °F*	Min. Relative Humidity	*30.1%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through June 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*97.2* %
10-Meter Vector Wind Direction:	*97.2* %
10-Meter Scalar Wind Speed:	*98.0* %
10-Meter Scalar Wind Direction:	*98.2* %
10-Meter Sigma Theta:	*98.2* %
10-Meter Vertical Wind Speed:	*99.8* %
Sigma W:	*99.8* %
Sigma Phi:	*98.0* %
10-Meter Temperature:	*99.9* %

2-Meter Level

2-Meter Temperature:	*89.4* %
Delta Temperature:	*89.4* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*89.4* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

T. Johnson - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JUNE 2007

□

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

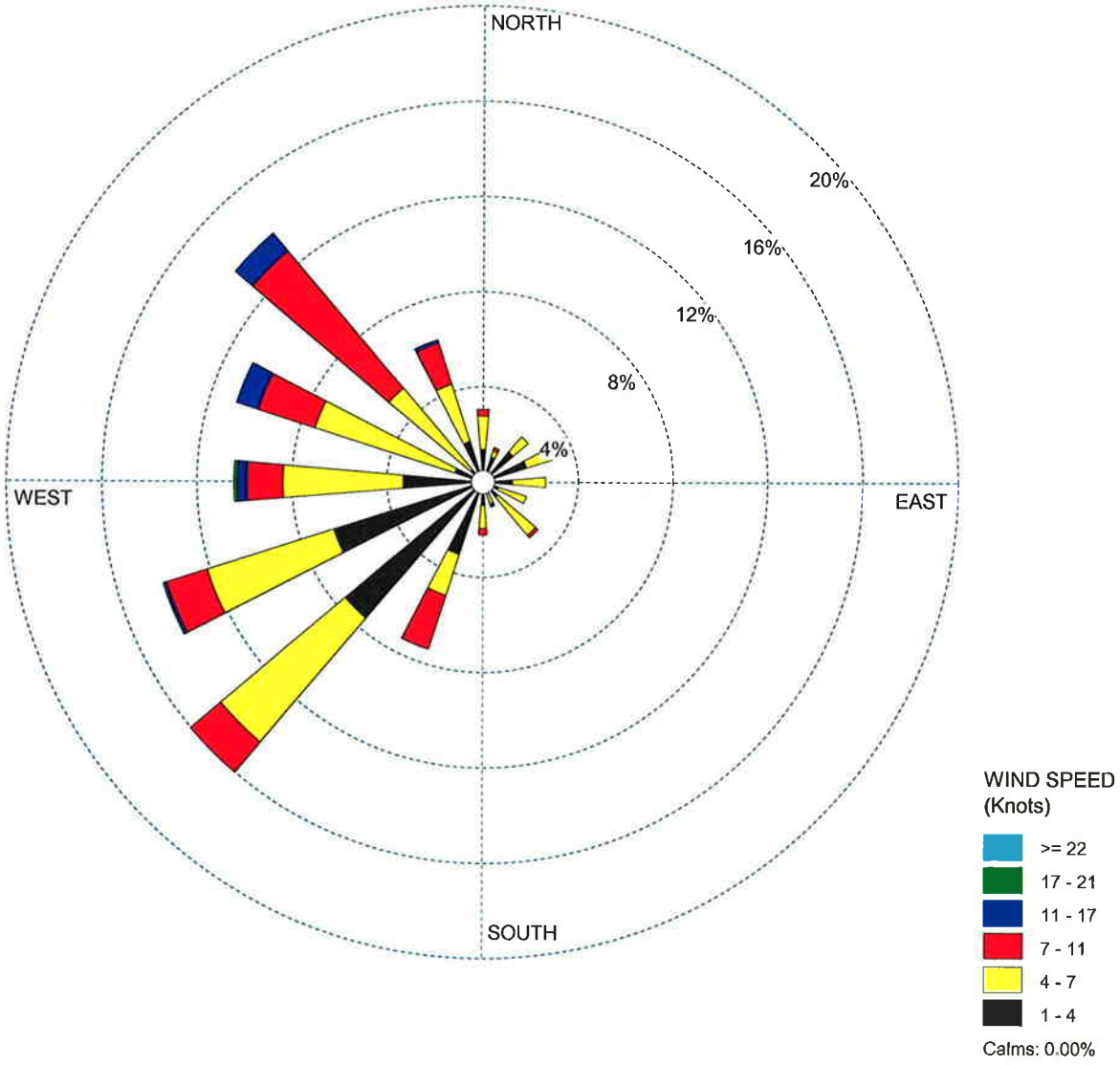
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: JUNE 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	18.4	5.2		100.0	100.0
Vector Wind Direction (deg)	1	359	235		100.0	100.0
Scalar Wind Speed (mph)	0.9	19.3	5.7		100.0	100.0
Scalar Wind Direction (deg.)	1	360	235		100.0	100.0
Sigma Theta (deg.)	6.4	70.0	21.3		100.0	100.0
Vertical Wind Speed (mph)	-0.27	0.93	0.16		100.0	100.0
Sigma W (mph)	0.06	2.31	0.80		100.0	100.0
Sigma Phi (deg)	2.66	27.4	8.0		100.0	100.0
Temperature (deg-F)	43.6	90.5	67.8		100.0	100.0
2-Meter Level						
Temperature (deg-F)	46.4	89.9	67.8		38.2	38.2
10-m - 2-m Delta Temp (F-deg)	-2.46	5.06	0.08		38.2	38.2
Relative Humidity (percent)	30.1	99.9	67.6		100.0	100.0
Dew Point Temperature (deg-F)	32.1	72.5	54.8		38.2	38.2
Net Radiation (W/m^2)	-96.5	641.0	3432.0	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	28.98	29.84	29.57		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.87	3.24	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-meter Tower - June 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Jun 1 - Jun 30** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **4.91 Knots**	DATE: **7/16/2007**	PROJECT NO.: **443665-02300**

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:** **Project:** **Job No.:** **Date:**	Honeywell Onondaga Lake - Meteorological Monitoring Program 443665-02300 August 30, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **JULY 2007**

Data:
- ____ Preliminary
- __X__ Validated
- ____ Adjusted (list parameters)

Attached/Enclosed:
- ____ Preliminary Report
- __X__ Final Report
- __X__ Data Summaries
- ____ AIRS Diskette
- ____ Client Data Disk
- ____ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Wastebed 13 monitoring site in July and monthly data recovery rates for all parameters are 100 percent.*

Climatic Summary: **JULY 2007**

General Predominance for winds from: *southwest through west-southwest*

10-meter level

Primary Peak WD: *WSW* Max. Wind Speed : *14.5 mph*
Secondary Peak WD: *SW* Min. Wind Speed : *0.9 mph*

2-meter level

Max. Temperature:	*91.6 °F*	Max. Dew Point Temp.	*71.6 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*46.4 °F*	Min. Dew Point Temp.	*40.1 °F*	Min. Relative Humidity	*26.0%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **July 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*97.6* %
10-Meter Vector Wind Direction:	*97.6* %
10-Meter Scalar Wind Speed:	*98.3* %
10-Meter Scalar Wind Direction:	*98.5* %
10-Meter Sigma Theta:	*98.4* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.8* %
Sigma Phi:	*98.3* %
10-Meter Temperature:	*99.9* %

2-Meter Level

2-Meter Temperature:	*91.0* %
Delta Temperature:	*90.9* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*90.9* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

P. Petrone - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: JULY 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

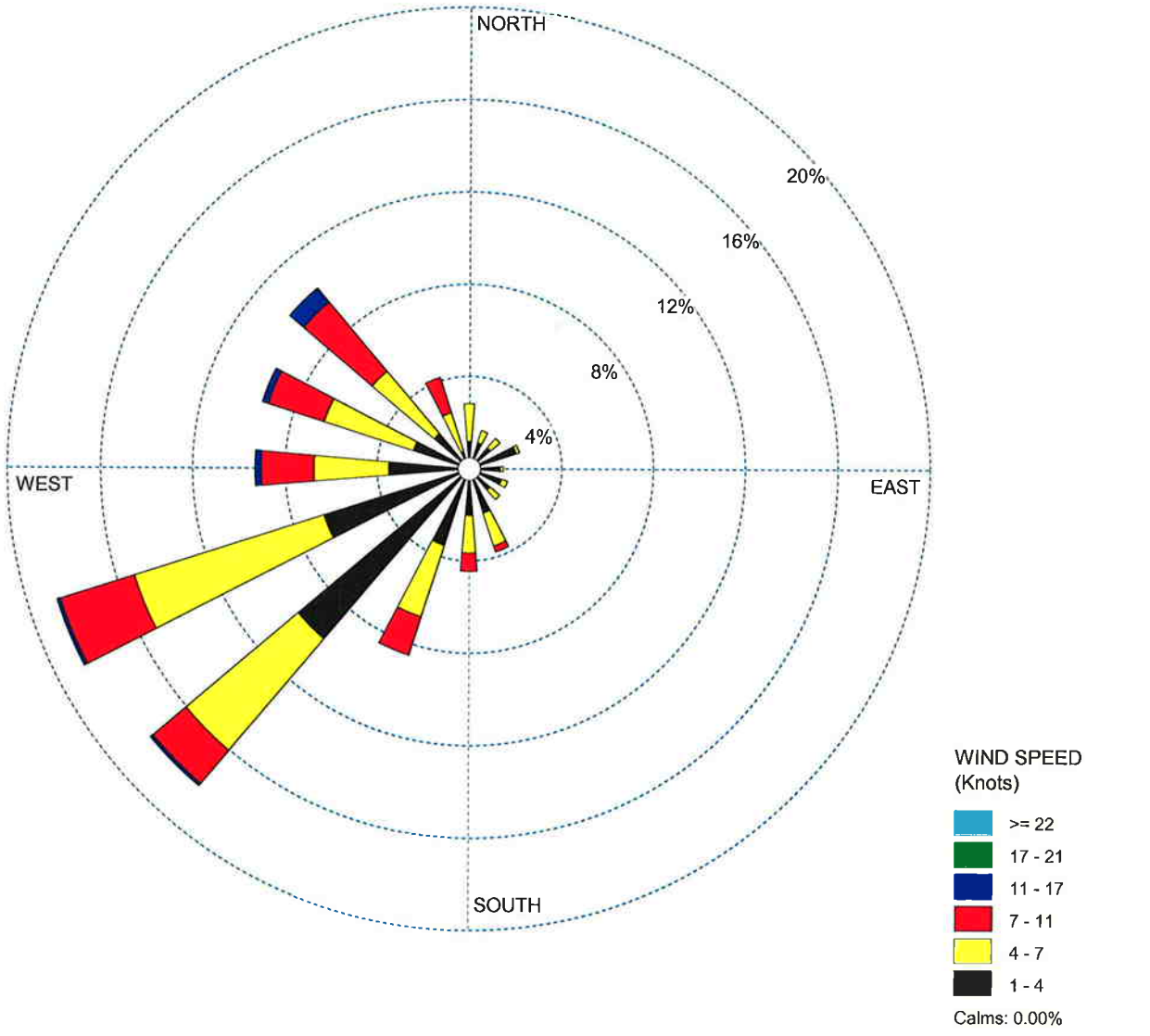
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: JULY 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	13.7	4.7		100.0	100.0
Vector Wind Direction (deg)	1	360	233		100.0	100.0
Scalar Wind Speed (mph)	0.9	14.5	5.2		100.0	100.0
Scalar Wind Direction (deg.)	1	360	232		100.0	100.0
Sigma Theta (deg.)	6.2	74.8	22.3		100.0	100.0
Vertical Wind Speed (mph)	-0.16	0.92	0.13		100.0	100.0
Sigma W (mph)	0.04	1.85	0.71		100.0	100.0
Sigma Phi (deg)	2.64	23.2	7.8		100.0	100.0
Temperature (deg-F)	47.8	90.9	68.6		100.0	100.0
2-Meter Level						
Temperature (deg-F)	46.4	91.6	68.4		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-2.90	5.96	0.26		100.0	100.0
Relative Humidity (percent)	26.0	100.0	74.9		100.0	100.0
Dew Point Temperature (deg-F)	40.1	71.6	58.8		100.0	100.0
Net Radiation (W/m^2)	-76.6	653.9	2887.3	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.24	29.89	29.57		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.41	3.55	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-meter Tower - July 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Jul 1 - Jul 31** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **4.50 Knots**	DATE: **8/2/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	443665-02300
		Date:	September 21, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **AUGUST 2007**

Data:

- ___ Preliminary
- _X_ Validated
- ___ Adjusted (list parameters)

Attached/Enclosed:

- ___ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ___ AIRS Diskette
- ___ Client Data Disk
- ___ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *A performance audit was conducted at the Wastebed 13 monitoring site on August 15. A minor period of data is reported as scheduled down ("S") on this day to reflect audit activities.*
- *No operational problems occurred at the Wastebed 13 monitoring site in August and monthly data recovery rates for all parameters range from 99.6 to 100 percent.*

Climatic Summary: **AUGUST 2007**

General Predominance for winds from: *southwest through west-southwest*

10-meter level

Primary Peak WD:	*SW*	Max. Wind Speed :	*15.5 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*0.6 mph*

2-meter level

Max. Temperature:	*93.7 °F*	Max. Dew Point Temp.	*74.2 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*46.4 °F*	Min. Dew Point Temp.	*37.8 °F*	Min. Relative Humidity	*23.6%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **August 31, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*97.9* %
10-Meter Vector Wind Direction:	*97.9* %
10-Meter Scalar Wind Speed:	*98.5* %
10-Meter Scalar Wind Direction:	*98.7* %
10-Meter Sigma Theta:	*98.6* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.8* %
Sigma Phi:	*98.5* %
10-Meter Temperature:	*99.8* %

2-Meter Level

2-Meter Temperature:	*92.1* %
Delta Temperature:	*92.0* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*92.1* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

P. Petrone - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: AUGUST 2007

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PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

HONEYWELL - ONONDAGA LAKE - METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE - 10-METER TOWER

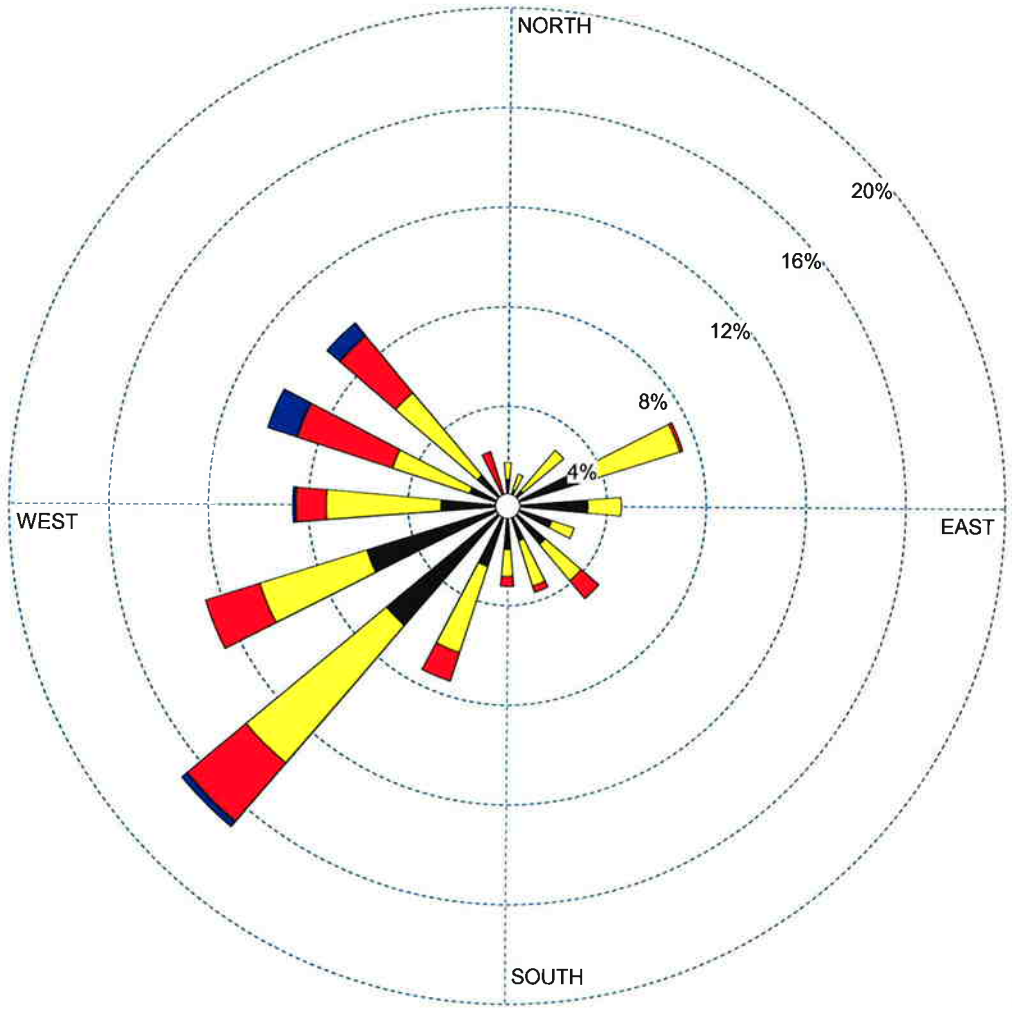
MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: AUGUST 2007

SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	MONTHLY DATA RECOVERY RATES (%) BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	15.0	4.8		100.0	100.0
Vector Wind Direction (deg)	2	359	211		100.0	100.0
Scalar Wind Speed (mph)	0.6	15.5	5.2		100.0	100.0
Scalar Wind Direction (deg.)	2	360	211		100.0	100.0
Sigma Theta (deg.)	6.4	73.0	22.5		100.0	100.0
Vertical Wind Speed (mph)	-0.19	0.77	0.12		100.0	100.0
Sigma W (mph)	0.06	2.12	0.76		100.0	100.0
Sigma Phi (deg)	2.71	22.7	8.3		100.0	100.0
Temperature (deg-F)	50.2	92.3	70.2		100.0	99.6
2-Meter Level						
Temperature (deg-F)	46.4	93.7	70.0		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-3.14	6.41	0.28		100.0	99.6
Relative Humidity (percent)	23.6	100.0	73.0		100.0	100.0
Dew Point Temperature (deg-F)	37.8	74.2	59.5		100.0	100.0
Net Radiation (W/m^2)	-82.1	617.3	2620.6	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.26	29.83	29.60		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.25	1.26	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-Meter Tower - August 2007

DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007 Aug 1 - Aug 31 00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **4.57 Knots**	DATE: **9/20/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software

PARSONS

150 Federal Street • Boston, Massachusetts 02110 • (617) 946-9400 • Fax: (617) 946-9777

Aerometric Data Transmittal Form

To:	Mr. Tom Drachenberg Parsons 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	**Client:**	Honeywell
		Project:	Onondaga Lake - Meteorological Monitoring Program
		Job No.:	443665-02300
		Date:	October 18, 2007

Subject: **Submittal of Wastebed 13 Meteorological Data for:** **SEPTEMBER 2007**

Data:
- ___ Preliminary
- _X_ Validated
- ___ Adjusted (list parameters)

Attached/Enclosed:
- ___ Preliminary Report
- _X_ Final Report
- _X_ Data Summaries
- ___ AIRS Diskette
- ___ Client Data Disk
- ___ Other (as noted)

Program Operations/Data Collection Activities Summary:

- *No operational problems occurred at the Wastebed 13 monitoring site in September and monthly data recovery rates for all parameters are 100 percent.*

Climatic Summary: **SEPTEMBER 2007**

General Predominance for winds from: *southwest through west-southwest*

10-meter level

Primary Peak WD:	*SW*	Max. Wind Speed :	*17.0 mph*
Secondary Peak WD:	*WSW*	Min. Wind Speed :	*0.9 mph*

2-meter level

Max. Temperature:	*94.6 °F*	Max. Dew Point Temp.	*70.6 °F*	Max. Relative Humidity	*100%*
Min. Temperature:	*36.4 °F*	Min. Dew Point Temp.	*36.4 °F*	Min. Relative Humidity	*25.4%*

Cumulative-to-date Data Recovery Rates **Period: January 1, 2007 through** **September 30, 2007**

10-Meter Level

10-Meter Vector Wind Speed:	*98.2* %
10-Meter Vector Wind Direction:	*98.2* %
10-Meter Scalar Wind Speed:	*98.7* %
10-Meter Scalar Wind Direction:	*98.8* %
10-Meter Sigma Theta:	*98.8* %
10-Meter Vertical Wind Speed:	*99.9* %
Sigma W:	*99.9* %
Sigma Phi:	*98.7* %
10-Meter Temperature:	*99.9* %

2-Meter Level

2-Meter Temperature:	*93.0* %
Delta Temperature:	*92.9* %
Relative Humidity:	*99.9* %
Dew Point Temperature:	*92.9* %
Net Radiation:	*100* %
Barometric Pressure:	*100* %

Surface

Precipitation (Rain):	*100* %

Project Meteorologist: Steven Coughlin

Distribution:

P. Petrone - Parsons

G. Pacheco - Parsons

T. Fritts - Parsons

HONEYWELL - ONONDAGA LAKE – METEOROLOGICAL MONITORING PROGRAM
WASTEBED 13 MONITORING SITE – 10-METER TOWER

METEOROLOGICAL DATA SUMMARY FOR: SEPTEMBER 2007

PARAMETER IDENTIFICATION AND SITE DESCRIPTION

PARAMETER	ABBREVIATION	UNITS OF MEASUREMENT
10-M WIND SPEED (VECTOR AVERAGE)	VECTOR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (VECTOR AVERAGE)	VECTOR WIND DIR.	DEGREES FROM TRUE NORTH
10-M WIND SPEED (SCALAR AVERAGE)	SCALAR WIND SPEED	MILES PER HOUR
10-M WIND DIRECTION (SCALAR AVERAGE)	SCALAR WIND DIR.	DEGREES FROM TRUE NORTH
10-M STD. DEV. OF HORIZONTAL WIND DIRECTION	SIGMA THETA	DEGREES
10-M VERTICAL WIND SPEED	VERT WIND SPEED	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND SPEED	SIGMA W	MILES PER HOUR
10-M STD. DEV. OF VERTICAL WIND DIRECTION	SIGMA PHI	DEGREES
WIND PERSISTENCE FACTOR	WIND PERS.	---
10-METER TEMPERATURE	10-M TEMP.	DEGREES FAHRENHEIT
2-METER TEMPERATURE	2-M TEMP.	DEGREES FAHRENHEIT
DELTA TEMPERATURE	10-M – 2-M DELTA TEMP.	FAHRENHEIT DEGREES
2-M RELATIVE HUMIDITY	2M REL. HUM.	PERCENT
2-M DEW POINT TEMPERATURE	2-M DEW POINT TEMP.	DEGREES FAHRENHEIT
2-M NET RADIATION	NET RAD	WATTS PER SQUARE METER
2-M BAROMETRIC PRESSURE	BAR PRESS	INCHES OF MERCURY
SFC PRECIPITATION (RAIN)	RAIN	INCHES OF WATER

THE FOLLOWING DATA CODES ARE USED IN THIS REPORT:

S SIGNIFIES MISSING DATA AS A RESULT OF A SCHEDULED OUTAGE.

N SIGNIFIES MISSING DATA AS A RESULT OF A NON-SCHEDULED OUTAGE.

A DASH (-) INDICATES INSUFFICIENT DATA TO CALCULATE THE VALUE.

ALL TIMES ARE LOCAL STANDARD TIME (LST) AND INDICATE HOUR STARTING TIMES.

THE DAILY AVERAGE WIND SPEED AND DIRECTION ARE COMPUTED AS THE VECTOR, OR RESULTANT WIND FOR THE DAY BASED ON HOURLY VALUES.

PREPARED BY: PARSONS BOSTON, MASS.

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MONTHLY DATA COLLECTION SUMMARY — DATA COLLECTION SUMMARY FOR THE MONTH OF: SEPTEMBER 2007

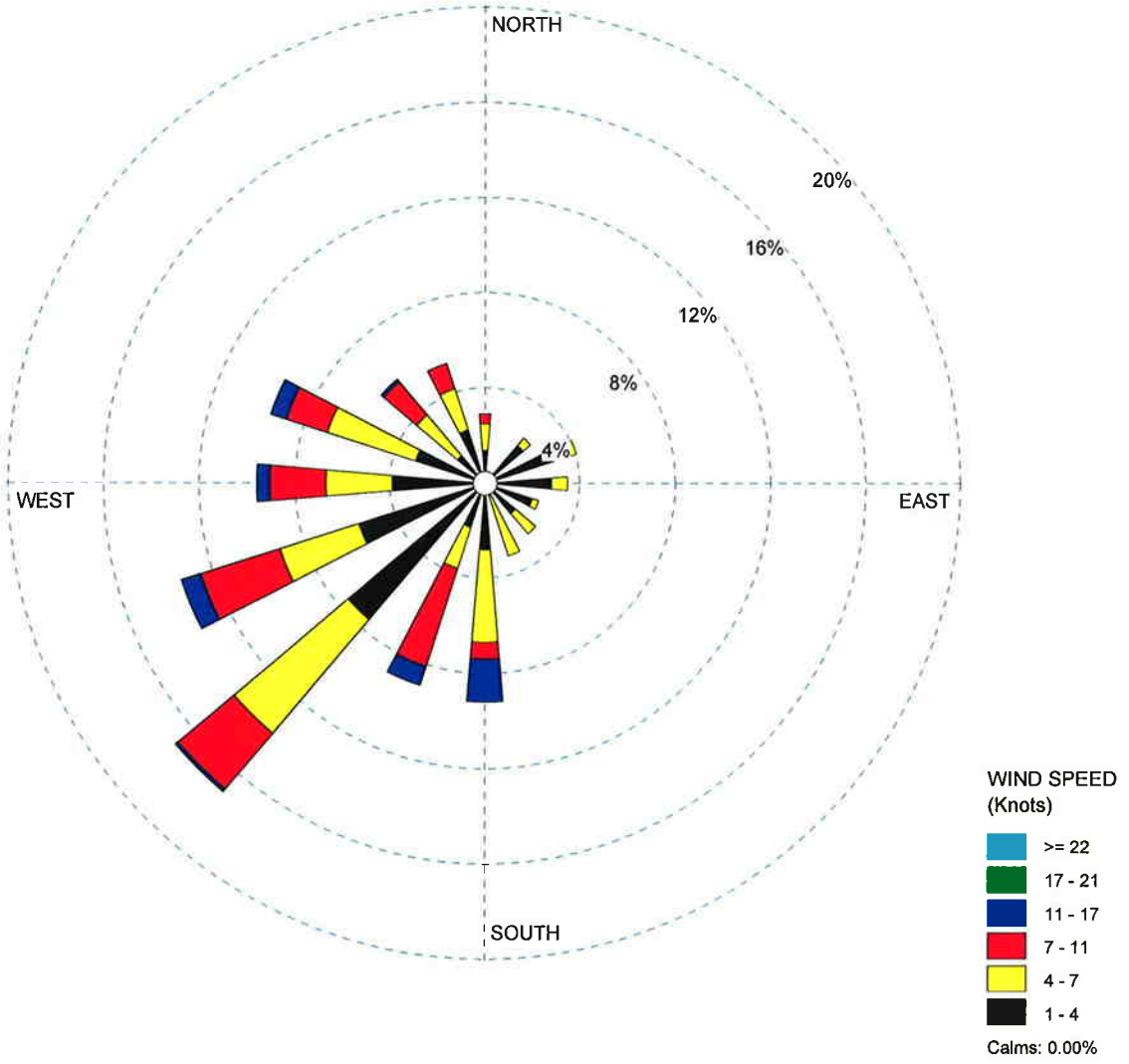
SITE / PARAMETER	MONTHLY MINIMUM VALUE	MONTHLY MAXIMUM VALUE	MONTHLY MEAN VALUE		MONTHLY DATA RECOVERY RATES (%) BASED ON OPERATING SCHEDULE	BASED ON TOTAL HOURS
WASTEBED 13 10-METER TOWER						
10-Meter Level						
Vector Wind Speed (mph)	0.1	16.3	4.9		100.0	100.0
Vector Wind Direction (deg)	3	359	222		100.0	100.0
Scalar Wind Speed (mph)	0.9	17.0	5.4		100.0	100.0
Scalar Wind Direction (deg.)	3	360	221		100.0	100.0
Sigma Theta (deg.)	4.3	76.7	22.8		100.0	100.0
Vertical Wind Speed (mph)	-0.31	0.76	0.12		100.0	100.0
Sigma W (mph)	0.06	2.40	0.74		100.0	100.0
Sigma Phi (deg)	2.34	25.3	7.7		100.0	100.0
Temperature (deg-F)	39.1	93.6	64.7		100.0	100.0
2-Meter Level						
Temperature (deg-F)	36.4	94.6	64.1		100.0	100.0
10-m - 2-m Delta Temp (F-deg)	-2.71	8.94	0.64		100.0	100.0
Relative Humidity (percent)	25.4	100.0	75.6		100.0	100.0
Dew Point Temperature (deg-F)	36.4	70.6	54.7		100.0	100.0
Net Radiation (W/m^2)	-110.4	561.7	1962.6	(Avg. Daily Total)	100.0	100.0
Barometric Pressure (in. Hg.)	29.15	30.10	29.71		100.0	100.0
Surface Level						
Precipitation (Rain in inches)	0.00	0.24	2.92	(Total)	100.0	100.0

WIND ROSE PLOT:

Honeywell - Onondaga Lake - Meteorological Monitoring Program
Wastebed 13 Monitoring Site - 10-meter Tower - September 2007

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **2007** **Sep 1 - Sep 30** **00:00 - 23:00**	COMPANY NAME: **PARSONS**	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **4.68 Knots**	DATE: **10/16/2007**	PROJECT NO.: **443665-02300**

WRPLOT View - Lakes Environmental Software