

Community Air Monitoring Program
11/09/09 through 11/15/09

Community air monitoring data is reviewed and compared to specific NYSDEC/NYSDOH approved criteria, known as “Action Limits”. As a result of this evaluation process, site conditions are categorized into two categories, “Operational Condition” and “Action Condition”. The “Operational Condition” is applicable when the data is below the “Action Limits” noted in the table below. The “Action Condition” occurs when one or more fifteen minute average measurement for Dust (PM₁₀), Total Volatile Organic Compounds (TVOC), Naphthalene or Odor Intensity exceeds the background or upwind measurement by the “Action Limits” in the table below. During the period from 11/09/09 through 11/15/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM₁₀. **Fifteen-minute averages for PM₁₀ and TVOC data remained in the Operational Condition.**

On Monday and Tuesday, November 9 and 10, 2009 there were elevated PM₁₀ concentrations at Portable Air Monitoring Site 1 (PAM 1) and on Tuesday, November 10, 2009 at Fixed Air Monitoring Site 5 (FAM 5) caused by high relative humidity which interfered with the true measurement of PM₁₀ at the sites plus generally high regional concentrations (as determined by the EPA/NOAA AirNow site). Background concentrations were great enough to reduce all the elevated PM₁₀ concentrations below the Action Limit. Therefore the site remained in the Operational Condition (less than the Action Limit).

Additionally, on Sunday, November 15, 2009 there were elevated PM₁₀ concentrations at all of the Fixed Air Monitoring Sites except Fixed Air Monitoring Site 3 (FAM 3) due to high relative humidity which interfered with the true measurement of PM₁₀ at the sites. Background concentrations were great enough to reduce all the elevated PM₁₀ concentrations below the Action Limit. Therefore the site remained in the Operational Condition (less than the Action Limit).

The elevated concentrations are shown in the following two tables.

Weekly Data Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 11/09/09 End Date: 11/15/09

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		HCN	Odor	
	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	PM ₁₀ (µg/m ³)	TVOC (ppm)	HCN (ppm)	Naphth alene (µg/m ³)	Intensity (0-8)
Maximum 15-minute Averages (Action Limits: PM ₁₀ = 150 µg/m ³ / TVOC = 5 ppm / Naphthalene = 440 µg/m ³ / Odor Intensity = 3 / HCN = 1 ppm)																			
Mon 11/09/09	83.9	0.3	84.2	0.1	83.5	0.1	78.3	0.1	113.3	0.1	89.8	0.1	157.8 ¹	0.1	NA	NA	NA	NA	NA
Tue 11/10/09	107.5	0.4	113.7	0.1	111.9	0.1	109.7	0.1	157.5 ¹	0.1	126.5	0.1	224.3 ¹	0.1	NA	NA	NA	NA	NA
Wed 11/11/09	20.5	0.3	20.9	0.1	21.0	0.1	21.2	0.1	21.8	0.1	31.4	0.1	27.7	0.1	NA	NA	NA	NA	NA
Thu 11/12/09	5.0	0.2	7.5	0.1	13.5	0.1	11.3	0.1	26.4	0.1	39.1	0.1	39.6	0.1	NA	NA	NA	NA	NA
Fri 11/13/09	8.3	0.5	8.9	0.1	66.0 ²	0.1	11.3	0.1	81.4	0.1	30.2	0.1	19.2	0.1	NA	NA	NA	NA	NA
Sat 11/14/09	11.0	0.6	10.3	0.1	90.1 ²	0.1	13.0	0.1	60.3 ³	0.1	19.9	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 11/15/09	174.0 ¹	0.2	210.3 ¹	0.1	147.5	0.1	200.1 ¹	0.3	243.9 ¹	0.1	246.0 ¹	0.1	NA	NA	NA	NA	NA	NA	NA

PM₁₀ = Respirable Particulate Matter (dust)

TVOC = Total Volatile Organic Compound

ppm = Parts per million (by volume)

µg/m³ = Micrograms per cubic meter

All reported PM₁₀, TVOC, and odor intensity values represent 15-minute averages.

ND No Data

NA Not Applicable

¹ Highlighted values indicate dates and locations that require further comparison to the Action Limits based on wind direction, off site and on site activities (see Table 2)

² FAM 3 PM₁₀ 11/13 @10:49 PM through 11/14/09 @ 3:06 AM invalid due to heavy rain affecting sample inlet .

³ FAM 5 PM₁₀ 11/14 @ 12:23 AM through 11/14/09 @ 4:10 AM invalid due to heavy rain affecting sample inlet.

Weekly Elevated Concentration above the Action Limit Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 11/09/09 End Date: 11/15/09

Summary of Elevated Concentrations															
Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Approx. Start Dir* and speed	Approx. End Dir* and speed	Location of background conc.	Elevated Conc. Max	Background Conc. **	Max Conc. – Background Conc.**	Site Condition	Site Activity During the Period (if applicable)	Actions Taken
Elevated Concentrations Above the Action Limit															
PM₁₀	Mon 11/09/09	PAM 1	8:00 AM 8:52 AM 9:02 AM 9:20 AM 11:05 AM	8:02 AM 9:00 AM " 9:30 AM 11:08 AM	28	150	NW 1.4mph	S 6.1mph	FAM 4	157.8	77.1	80.7	Operational ¹	High Humidity and High regional concentrations. ¹	None
PM₁₀	Tue 11/10/09	PAM 1	7:13 AM	8:27 AM	75	150	WNW 8.5mph	NW 4.3mph	PAM 1	224.3	224.3	0.0	Operational ¹	High Humidity and High regional concentrations	None
PM₁₀	Tue 11/10/09	FAM 5	10:38 AM 11:31 AM	11:26 AM 11:57 AM	76	150	VAR	VAR	FAM 1	157.5	101.5	56.0	Operational ¹	High Humidity and High regional concentrations	None
PM₁₀	Sun 11/15/09	FAM 2	10:07 PM 11:19 PM	10:18 PM 11:36 PM	30	150	VAR	VAR	FAM 3	210.3	142.9	67.4	Operational ¹	High Humidity ¹	None
PM₁₀	Sun 11/15/09	FAM 5	9:47 PM 11:04 PM 11:11 PM	10:07 PM 11:08 PM 11:36 PM	52	150	VAR	VAR	FAM 3	243.9	146.3	97.6	Operational ¹	High Humidity ¹	None
PM₁₀	Sun 11/15/09	FAM 4	9:54 PM 11:09 PM	10:07 PM 11:32 PM	38	150	VAR	VAR	FAM 3	200.1	142.8	57.3	Operational ¹	High Humidity ¹	None
PM₁₀	Sun 11/15/09	FAM 6	9:45 PM 11:15 PM	10:13 PM 11:34 PM	49	150	VAR	VAR	FAM 3	246.0	146.0	100.0	Operational ¹	High Humidity ¹	None
PM₁₀	Sun 11/15/09	FAM 1	11:23 PM	11:32 PM	10	150	VAR	VAR	FAM 3	174.0	146.3	27.7	Operational ¹	High Humidity ¹	None

* Wind Directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW)

** Background concentrations are equal to the upwind concentrations unless winds are determined to be variable.

¹ In accordance with DER-10 this type of event is not considered to be an exceedance because the elevated concentrations did not exceed the Action Limit.

FAM – Real time fixed air monitoring station

PAM – Real time portable air monitoring station

NA – Not applicable

ND – No data available

VAR – Variable winds

PM₁₀ – Particulate matter (reported in $\mu\text{g}/\text{m}^3$)

TVOC – Total volatile organic compound (reported in ppm)