

Community Air Monitoring Program
07/18/11 through 07/24/11

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 07/18/11 through 07/24/11 there were six Fixed Air Monitoring locations measuring TVOC and PM₁₀. **Fifteen-minute averages for PM₁₀ and TVOC data remained in the Operational Condition.** However, there were elevated concentrations above the Action Limit as described in the following paragraph.

On Wednesday, Thursday and Friday, July, 20, 21, and 22, 2011 there were periods of elevated PM₁₀ concentrations at FAM 3 and a period of elevated PM₁₀ concentrations at FAM 1 on Thursday, July 21, 2011. The elevated concentrations measured onsite were caused by high regional background concentrations associated with atmospheric conditions (high relative humidity) and were not the result of site activities. Each elevated concentration was reduced below the Action Limit after background subtraction. Therefore, the site remained in the operational condition (see Table 2).

Weekly Data Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 07/18/11 End Date: 07/24/11

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)	Naphthalene (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 07/18/11	67.3	0.1	102.5	0.1	120.4	0.2	102.7	0.1	88.1	0.1	101.8	0.1	NA	NA	NA	NA	NA	NA	NA
Tue 07/19/11	77.6	0.1	104.8	0.1	134.0	0.1	111.9	0.1	96.7	0.1	132.2	0.1	NA	NA	NA	NA	NA	NA	NA
Wed 07/20/11	51.1	0.1	123.6	0.1	168.7 ¹	0.2	132.1	0.1	111.6	0.1	134.7	0.1	NA	NA	NA	NA	NA	NA	NA
Thu 07/21/11	154.7 ¹	0.1	129.9	0.1	209.5 ¹	0.1	127.8	0.1	113.5	0.1	137.0	0.1	NA	NA	NA	NA	NA	NA	NA
Fri 07/22/11	103.6	0.1	128.5	0.1	203.8 ¹	0.1	148.3	0.1	120.8	0.1	146.0	0.1	NA	NA	NA	NA	NA	NA	NA
Sat 07/23/11	86.2	0.1	146.1	0.1	128.9	0.1	149.9	0.1	124.2	0.1	150.0	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 07/24/11	101.5	0.1	103.4	0.1	73.8	0.3	90.9	0.1	82.4	0.1	97.7	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 1 PM₁₀ 7/20 @ 4:30PM – 7/21/11 @ 11:44AM, data invalid due to an instrument malfunction.

³ FAM 3 PM₁₀ 7/21/11 @ 8:29AM – 11:34AM, data invalid due to PM₁₀ head becoming saturated.

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: 07/18/11 End Date: 07/24/11

<i>Summary of Elevated Concentrations</i>															
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
<i>Elevated Concentrations Above the Action Limit</i>															
PM₁₀	Wed 07/20/11	FAM 3	4:28AM 4:51AM	4:31AM 5:36AM	50	150	SSE 2.0 mph	SW 3.5 mph	FAM 1	168.7	50.4	118.3	Operational ¹	Atmospheric conditions (high relative humidity)	Background reduced levels below the Action Limit.
PM₁₀	Thu 07/21/11	FAM 3	7:35AM 11:35AM	8:28AM 11:45AM	65	150	SW 5.5 mph	SW 10.9 mph	FAM 2	209.5	89.3	120.2	Operational ¹	Atmospheric conditions (high relative humidity)	Background reduced levels below the Action Limit.
PM₁₀	Thu 07/21/11	FAM 1	3:39PM	3:42PM	4	150	SSW 13.5 mph	SSW 13.5 mph	FAM 5	154.7	68.2	86.5	Operational ¹	Atmospheric conditions (high relative humidity)	Background reduced levels below the Action Limit.
PM₁₀	Fri 07/22/11	FAM 3	7:03AM	10:32AM	210	150	W 5.6 mph	WNW 6.5 mph	FAM 1	203.8	83.9	119.9	Operational ¹	Atmospheric conditions (high relative humidity)	Background reduced levels below the Action Limit.

* 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.

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 µg/m³)

TVOC – Total volatile organic compound (reported in ppm)

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.