

Community Air Monitoring Program
12/07/09 through 12/13/09

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 12/07/09 through 12/13/09 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 Thursday and Friday, December 10 and 11, 2009 there were elevated PM₁₀ concentrations at Fixed Air Monitoring Site 5 (FAM 5) and on Friday, December 11, 2009 at Fixed Air Monitoring Site 3 (FAM 3) and Fixed Air Monitoring Site 4 (FAM 4) caused by high winds blowing loose clean fill (Mole Rock) in the direction of Sites 3, 4, and 5 (FAM 3, FAM 4, and FAM 5). Background concentrations were not great enough to reduce all the elevated PM₁₀ concentrations below the Action Limit. However, the elevated concentrations were not associated with ground intrusive activity: therefore, the site remained in the Operational Condition (not associated to ground intrusive activity) (see table 2).

Weekly Data Summary Report
National Grid – Rockaway Park Former MGP Site – Rockaway Park, NY
Reporting Period (Monday – Sunday): Start Date: 12/07/09 End Date: 12/13/09

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)	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 12/07/09	62.0	0.9	74.5	0.1	44.8	0.1	55.7	0.1	79.2	0.1	54.4	0.1	54.0	0.1	NA	NA	NA	NA	NA
Tue 12/08/09	48.4	1.0	50.4	0.1	42.5	0.1	44.9	0.1	55.3	0.1	51.3	0.1	50.8	0.1	NA	NA	NA	NA	NA
Wed 12/09/09	45.1 ²	3.1	71.3	0.1	91.7 ²	0.1	70.2	0.9	83.3	0.1	95.4 ²	0.1	ND ³	ND ³	NA	NA	NA	NA	NA
Thu 12/10/09	8.9	0.1	32.7	0.4	41.8	0.1	94.9	0.5	222.7 ¹	0.1	25.3	0.1	20.3 ⁴	0.1	NA	NA	NA	NA	NA
Fri 12/11/09	17.4	0.1	34.5	0.1	252.2 ¹	0.1	161.2 ¹	0.2	278.6 ¹	0.1	29.2	0.4	76.9	0.2	NA	NA	NA	NA	NA
Sat 12/12/09	28.9	0.1	36.4	0.1	52.3	0.1	24.4	0.1	24.6	0.1	26.7	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 12/13/09	48.2	0.9	32.4	0.1	62.7 ²	0.1	26.2	0.1	27.4	0.1	54.1	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 The following periods were invalid due to heavy rain affecting sampler inlets:

FAM 1 PM₁₀ 12/09/09 @ 6:24 AM through 1:20 PM;

FAM 3 PM₁₀ 12/09/09 @ 6:33 AM through 12:25 PM, and 12/13/09 @ 3:10 PM through 11:59 PM; and

FAM 6 PM₁₀ 12/09/09 @ 5:05 AM through 8:47 AM.

³ PAM 1 Unit out of service 12/09/09 due to high winds and heavy rain.

⁴ PAM 1 PM₁₀ 12/10/09 @ 11:45 AM through 1:10 PM instrument malfunctioned.

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: 12/07/09 End Date: 12/13/09

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 d 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	Thu 12/10/09	FAM 5	9:30 PM	9:45 PM	139	150	WNW ² 20.1 mph	WNW ² 20.3 mph	FAM 1	278.6	1.8	276.8	Operational ¹	Blowing clean fill (Mole Rock)	Watering instituted
	Fri 12/11/09		10:08 PM 11:03 PM 11:15 PM 12:15 AM 3:30 AM 3:57 AM 4:37 AM 5:52 AM 6:21 AM 7:42 AM	10:15 PM 11:11 PM 11:30 PM 12:34 AM 3:32 AM 4:10 AM 4:46 AM 5:53 AM 6:33 AM 8:09 AM											
PM₁₀	Fri 12/11/09	FAM 3	7:31AM	7:56 AM	26	150	WNW ² 19.8mph	WNW ² 20.1 mph	FAM 1	252.2	1.6	250.6	Operational ¹	Blowing clean fill (Mole Rock)	Watering instituted
PM₁₀	Fri 12/11/09	FAM 4	7:51 AM 7:55 AM	7:53 AM 7:56 AM	5	150	WNW ² 20.3mph	WNW ² 20.1 mph	FAM 1	161.2	1.8	159.4	Operational ¹	Blowing clean fill (Mole Rock)	Watering instituted

* 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 $\mu\text{g}/\text{m}^3$)

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 were not due to ground intrusive activities.

² Wind direction data from JFK Airport due to on-site wind direction sensor malfunction.