

Community Air Monitoring Program  
07/06/09 through 07/12/09

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 (PM<sub>10</sub>), 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 07/06/09 through 07/12/09 there were six Fixed and one Portable Air Monitoring locations measuring TVOC and PM<sub>10</sub>. **Fifteen-minute averages for PM<sub>10</sub> data remained in Operational Condition. However, there were elevated concentrations of TVOC above the Action Limit.**

On Tuesday night into Wednesday morning, July 7 and 8, 2009 there were periods of elevated TVOC concentrations were caused when gusty winds eroded the southern base of the remediation tent wall. Winds lifted the base flaps of the tent panel and air flow was released. The elevated concentrations lasted for one-hundred-fourteen minutes at Station 4 (FAM 4). The technician notified all appropriate personnel, the tent was repaired and concentrations were reduced below the Action Limit. During the period the site was in the Action Condition.

On Friday, July 10, 2009 there were periods of elevated TVOC concentrations caused by air flow from the tent along a vertical seam on the lower panel of the tent. The elevated concentrations lasted for seventy-nine minutes at Station 4 (FAM 4). The technician notified all appropriate personnel, and workers worked to repair the tent and powered up the air handling system. Concentrations then dropped below the Action Limit. During this period the site was in the Action Condition.

On Friday, July 10, 2009 there were periods of elevated TVOC concentrations caused by workers using industrial strength adhesive to reinforce the tent seam. The elevated concentrations lasted for eight minutes at Station 4 (FAM 4). The technician notified all appropriate personnel, and workers stopped using the adhesive. Concentrations then dropped below the Action Limit. These activities were not considered to be ground intrusive; therefore the site remained in the Operational Condition (less than the Action Limit and/or were not associated with ground intrusive activities).

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: 07/06/09 End Date: 07/12/09**

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		HCN	Odor	
	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	PM <sub>10</sub> (µg/m <sup>3</sup> )	TVOC (ppm)	HCN (ppm)	Naphthalene (µg/m <sup>3</sup> )	Intensity (0-8)
Maximum 15-minute Averages (Action Limits: PM <sub>10</sub> = 150 µg/m <sup>3</sup> / TVOC = 5 ppm / Naphthalene = 440 µg/m <sup>3</sup> / Odor Intensity = 3 / HCN = 1 ppm)																			
Mon 07/06/09	87.9	0.2	58.5	0.1	63.6	0.2	52.9	0.1	62.2 <sup>2</sup>	0.1 <sup>2</sup>	65.6	0.1	91.3	0.3	NA	NA	NA	NA	0
Tue 07/07/09	67.5	0.2	76.4	0.1	94.9	0.1	79.4	7.5 <sup>1</sup>	73.7	0.1	97.0	0.1	116.0	0.2	NA	NA	NA	NA	0
Wed 07/08/09	41.4	0.1	36.9	0.1	89.3	0.1	83.3	19.2 <sup>1</sup>	77.7	0.1	102.0	0.1	42.4	0.1	NA	NA	NA	NA	ND
Thu 07/09/09	51.2	0.1	12.8	0.1	27.7	0.1	21.8	0.1	42.8	0.1	23.2	0.1	26.9	0.3	NA	NA	NA	NA	1
Fri 07/10/09	66.2	0.1	25.8	0.2	51.7	0.2	47.0	9.8 <sup>1</sup>	62.2	0.1	53.2	0.1	65.9	0.1	NA	NA	NA	NA	0
Sat 07/11/09	29.2	0.1	29.0	0.1	39.7	0.1	27.4	0.1	53.7	0.1	46.7	0.1	NA	NA	NA	NA	NA	NA	NA
Sun 07/12/09	19.6	0.1	11.9	0.1	144.3	0.1	27.9	0.1	32.0	0.1	32.8	0.1	NA	NA	NA	NA	NA	NA	NA

PM<sub>10</sub> = Respirable Particulate Matter (dust)

TVOC = Total Volatile Organic Compound

ppm = Parts per million (by volume)

µg/m<sup>3</sup> = Micrograms per cubic meter

All reported PM<sub>10</sub>, TVOC, and odor intensity values represent 15-minute averages.

NA ND No Data

NA Not Applicable

<sup>1</sup> 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)

<sup>2</sup> Data collection interrupted for FAM 5 due to power service interruption (7/5 @ 4:49 AM through 7/6/09 @ 7:27 AM)

**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: 07/06/09 End Date: 07/12/09**

<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>															
<b>TVOC</b>	Tue & Wed 7/7 & 7/8/09	FAM4	10:48PM 11:50PM	11:03PM 1:27AM	114	5.0	NNE 2.8mph	NNE 7.0mph	FAM3	19.2	0.1	19.1	Action	The remediation tent wall was eroded during gusty winds and air flow was released from the base of the tent wall along the southern end.	Remediation contractor implemented corrective action which included sealing off the panel base with new sand bags and fill material, and reinforcing seals on panels.
<b>TVOC</b>	Fri 7/10/09	FAM4	1:50AM 2:46AM 4:21AM	2:14AM 3:37AM 4:22AM	79	5.0	VAR	VAR	FAM3	9.8	0.1	9.7	Action	The remediation tent wall was eroded and air flow was released from a vertical seam at the southern end of the tent.	Remediation contractor arrived onsite around 2:15AM. Contractor started up the air handling system around 4:00AM. During this time the contractor worked to reseal and secure the vertical seam.
<b>TVOC</b>	Fri 7/10/09	FAM4	8:23AM	8:30AM	8	5.0	N 4.2mph	NNE 3.9mph	FAM3	5.7	0.1	5.6	Operational	There were no ground intrusive activities. However, workers were applying industrial strength adhesive to reseal the vertical seam of the tent along the southern wall. <sup>1</sup>	Remediation contractor completed spaying adhesive and concentrations quickly dropped below the Alert and Action Limits.

\* 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)

<sup>1</sup> In accordance with DER-10 this type of event is not considered to be an exceedance because the elevated concentrations were not caused by ground intrusive or impacted soil activities.