

Community Air Monitoring Program
January 5, 2009 through January 11, 2009

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 January 5, 2009 through January 11, 2009 there were six Fixed Air Monitoring (FAM) locations and one Portable Air Monitoring locations measuring Total Volatile Organic Compounds (TVOC) and Particulate Matter (PM₁₀). **Fifteen-minute averages for odor intensity, naphthalene, TVOC, and PM₁₀ data remained in Operational Condition.**

On Monday, January 5, 2008 there were periods of elevated concentrations of dust for seventy-two minutes at FAM-3. These elevated concentrations were caused by exhaust venting from a generator and pump used for the waste water treatment plant on site. This dust was not associated with intrusive activities; therefore the site remained at the Operational Condition (less than the Action Limit).

On Tuesday, January 6, 2008 there were elevated concentrations of dust for fifteen minutes at FAM-2. These elevated concentrations were caused by a cloud of smoke that was generated by a local business to the northeast of the Site. The background subtraction revealed that all elevated concentrations were reduced below the alert limit; therefore the site remained at the Operational Condition (less than the Action Limit).

The elevated concentrations are shown on the following two tables.

Weekly Data Summary Report
National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY
Reporting Period (Monday – Sunday): Start Date: 1/5/09 End Date: 1/11/09

Date	FAM 1		FAM 2		FAM 3		FAM 4		FAM 5		FAM 6		PAM 1		PAM 2		PAM 3		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)	PM ₁₀ (µg/m ³)	TVOC (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)																				
Mon 1/5/09	66.3	0.1	41.8	0.1	344.8 ¹	0.1	49.3	0.1	56.9	0.1	57.9	0.1	NA	NA	NA	NA	NA	NA	0.0	0
Tue 1/6/09	67.1	0.1	230.2 ¹	0.1	67.5	0.1	28.2	0.1	60.6	ND ³	66.3	0.1	109.3	0.6	NA	NA	NA	NA	0.0	2
Wed 1/7/09	18.7	0.1	17.9	0.1	31.2	0.1	18.2	0.1	26.0	ND ³	19.2	0.1	61.3	1.1	NA	NA	NA	NA	0.0	3
Thu 1/8/09	25.0	0.1	25.9	0.1	21.2	0.1	19.3	0.1	21.5	ND ³	20.3	0.1	27.9	0.4	NA	NA	NA	NA	0.0	1
Fri 1/9/09	12.2	0.7	15.5	0.1	9.7	0.1	7.7	0.1	7.9	ND ³	7.9	0.1	9.4	0.4	NA	NA	NA	NA	0.0	0
Sat 1/10/09	21.8	0.1	21.0	0.1	12.1	0.1	11.7	0.1	14.5	ND ³	14.0	0.1	19.9	0.1	NA	NA	NA	NA	NA	NA
Sun 1/11/09	27.2	0.1	20.3	0.1	11.8	0.1	ND ²	ND ²	14.5	ND ³	14.0	0.1	ND ⁴	ND ⁴	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.
Odor Intensity is measured 0-8 on the n-butanol scale.

FAM # Fixed Air Monitoring Station
PAM # Portable Air Monitoring Station
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 Data collection was interrupted when heavy rain caused the AM unit to trip the circuit breaker. The field technician was unable to restore power on 1/11/09 because of the moist conditions. Power was restored on 1/12/09.

³ Limited data collection because of data logger malfunction, PAM1 was set up in the vicinity of FAM5.

⁴ Limited data collection because of battery failure.

Weekly Elevated Concentration Summary Report
National Grid – Sag Harbor Former MGP Site – Sag Harbor, NY
Reporting Period (Monday – Sunday): Start Date: 1/5/09 End Date: 1/11/09

<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 Level</i>															
PM₁₀	1/5/09	FAM 3	1:20AM 1:23AM	1:21AM 1:56AM	36	150	S 2.5 mph	SW 3.5 mph	FAM 5	344.8	9.3	335.5	Operational	Waste water treatment plant in operation (non-ground intrusive) ¹	The field technician responded to the event by contacting the site CM and logging on to the database from home. The field technician reported a generator in close proximity to FAM3 was operating to power the pump for the waste water treatment plant. The exhaust from the pump and generator was determined to be the cause of the elevated concentrations.
PM₁₀	1/5/09	FAM 3	2:49AM 2:51AM	- 3:03AM	14	150	SW 4.3 mph	SW 5.6 mph	FAM 6	211.8	24.0	187.8	Operational	Waste water treatment plant in operation (non-ground intrusive) ¹	The field technician responded to the event by contacting the site CM. The elevated concentrations caused by exhaust from a generator and pump that was operating in the vicinity of FAM 3.
PM₁₀	1/5/09	FAM 3	4:14AM	4:35AM	22	150	SW 3.5 mph	SW 4.5mph	FAM 6	248.4	30.5	217.9	Operational	Waste water treatment plant in operation (non-ground intrusive). ¹	The field technician responded to the event by contacting the site CM. The elevated concentrations caused by exhaust from a generator and pump that was operating in the vicinity of FAM 3.
PM₁₀	1/6/09	FAM 2	3:06PM	3:20PM	15	150	NNE 4.9 mph	NNE 4.5 mph	FAM 2	230.2	230.2	0	Operational	No site intrusive activities. ²	The field technician responded to the event by contacting the site CM and the site Health and Safety Officer. The field technician reported that the elevated concentrations were due to off site activities. A business to the northeast of the site produced a large cloud of smoke which moved on site. The smoke was determined to be the cause of the elevated concentrations.

* 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 activity was not associated with site intrusive activities.

² In accordance with DER-10 this type of event is not considered to be an exceedance because the activity was caused by off site activities.