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### **Memorandum**

To: Andrew Prophete (National Grid NY)

From: Brian Skelly

Copy to: Richard Dana, R. Scott Deyette (NYSDEC)

Chris Schroer (EA Engineering) Andrew Rizk (Louis Berger) Stephanie Selmer (NYSDOH)

Dave Boram and Thor Helgason (de maximis)

Ted Leissing (National Grid NY)

Shail Pandya (AECOM)

Ronell Marshall (GEI Consultants, Inc.)

Date: April 10, 2012

Regarding: Weekly Community Air Monitoring Report

Clifton Former MGP Site - Operable Unit 2 (OU-2)

March 31, 2012 through April 6, 2012

#### Dear Andrew:

This report includes a summary of data collected during implementation of the Community Air Monitoring Plan (CAMP) at the Clifton Former MGP Site Operable Unit 2 (OU-2) in Staten Island, New York. Data collected are discussed in relation to remediation activities that occurred between March 31 and April 6, 2012.

There were no fifteen-minute exceedances of the Total Volatile Organic Compounds (TVOC), Particulate Matter (PM-10) [dust], or odor action levels associated with ground intrusive site activities during this reporting period. Fifteen-minute averages of TVOC, PM-10, and odor intensity data remained at a Site Condition 1.

Some elevated dust measurements occurred during the week that were after hours or caused by construction vehicle exhaust that exceeded the fifteen-minute action level for Particulate Matter (PM-10) [dust] data. In each case, concentrations of PM-10 decreased below the alert level and action levels within 15 minutes of each occurrence. Since activities were not related to ground intrusive activities at these times, PM-10 remained at a Site Condition 1. The tables and figures accompanying this report summarize air monitoring results related to the action levels described by the CAMP Work Plan (AECOM, 2011 and GEI, 2012).

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The following information is summarized in this report:

- Site construction activities
- Daily maximum 15-minute average concentrations of TVOC and PM-10 (dust) at each fixed station
- Elevated concentrations (if any)
- Meteorological data

#### **Site Construction Activities**

Construction activities during this reporting period included:

- Asbestos abatement in one-story building in OU-2
- Cleaning out the storm water drain in OU-2
- Remove concrete blocks from around Temporary Fabric Structure (TFS)
- Relocating the TFS
- Placing concrete blocks from around TFS
- Pre-trenching in TFS
- Grading of soil at the previous TFS location
- Relocating jersey blocks to edge of sidewalk around OU-2.
- Running power lines through conduits around inside the OU-2 perimeter
- Stockpiling crushed stone in OU-2
- Level A survey on Willow Avenue

#### **Data collection**

Real-time fixed station monitoring for TVOC and PM-10 (dust) was performed on the OU-2 site perimeter at six locations (FAM#1 through FAM#6). FAM#3 was located in the northeast corner of the 40 Willow Avenue Property during the week. Four AirLogics Classic stations equipped with gas chromatographs (GCs) were operated at FAM#2, FAM#3, FAM#4, and FAM#5 and two AirLogics Light stations were operated at FAM#1 and FAM#6. Diesel generators were used to power the four AirLogics Classic stations and will continue 24 hours a day, 7 days per week until 120 volt electrical connections are established onsite.

Table 1 summarizes the target concentrations for action levels and Site Conditions described by the CAMP. Table 2 provides a daily summary of maximum fifteen-minute average ambient air concentrations from each station. The daily reports appended to this report depict more detailed and time-specific comparison of upwind and downwind measurements and site activities that is needed to determine the Site Condition.

Upwind and downwind ambient air verification samples were collected on April 5, 2012. Meteorological data collected at the on-site weather station are included in this report as Figures 1 through 4 which show a directional wind rose for the period and temperature, relative humidity, and wind speed time series for the period.

If you have any questions regarding the information in this report, please contact me.

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#### References

AECOM (2011). Appendix A of CERP Community Air Monitoring Plan (CAMP) Former Manufactured Gas Plant Operable Unit - 2 Remediation. Clifton, New York. August.

GEI Consultants, Inc (2012). Community Air Monitoring Plan: Clifton Former Manufactured Gas Plant Site – Operable Unit 2, Borough of Staten Island, New York. February.

New York State Department of Environmental Conservation (2010). DER-10 / Technical Guidance for Site Remediation and Investigation. Washington: Division of Environmental Remediation, December. Appendix 1-A. May.

#### Table 1 - Action Levels and Site Conditions Community Air Monitoring Program Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

	Alert Level	Action Level	Site Condition 1	Site Condition 2	Site Condition 3
TVOC (15-minute)	3.7 ppm	5.0 ppm	< 3.7 ppm	≥ 3.7 ppm, < 5.0 ppm	≥ 5.0 ppm
TVOC (1-minute)	NA	25 ppm	< 25 ppm	NA	≥ 25 ppm
PM-10 (15-minute)	100 ug/m <sup>3</sup>	150 ug/m <sup>3</sup>	< 100 ug/m <sup>3</sup>	≥ 100 ug/m³, < 150 ug/m³	≥ 150 ug/m <sup>3</sup>
Odor (15-minute)	Odors / Complaints	NA	No odors	NA	3 (n-butanol)
HCN (15-minute)	Visual Detection	NA	< 0.6 ppm	≥ 0.6 ppm (4-gas meter)	≥ 0.6 ppm (Draeger tube)
Naphthalene (15-minute)	NA	NA	< 440 ug/m <sup>3</sup>	≥ 330 ug/m³, < 440 ug/m³	≥ 440 ug/m <sup>3</sup>

#### Notes:

ug/m<sup>3</sup> - micrograms per cubic meter

ppmv - parts per million by volume
TVOC - total volatile organic compounds

PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter

HCN - hydrogen cyanide

NA - not applicable



<sup>&</sup>lt;sup>1</sup> Alert Levels are not established by the NYSDOH or NYSDEC and are internally established concentration levels for total volatile organic compounds. Alert Levels are set below the levels established by the NYSDOH so that actions can be taken prior to exceeding a NYSDOH threshold. An Alert Level serves as a screening tool to trigger contingent measures if necessary, to assist in minimizing off-site transport of contaminants during remedial activities

<sup>&</sup>lt;sup>2</sup> Response Levels and Action Levels are not defined in Appendix 1A of the New York State Department of Environmental Conservation *DER-10 / Technical Guidance for Site Investigation and Remediation* (NYSDEC, 2010)

# Table 2. Daily Maximum 15-Minute Average Concentrations of TVOC and PM-10 Community Air Monitoring Program Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

			TV	ос			PM-10							
Date			(pp	om)			(ug/m³)							
	FAM-1	FAM-2	FAM-3	FAM-4	FAM-5	FAM-6	FAM-1	FAM-2	FAM-3	FAM-4	FAM-5	FAM-6		
3/31/2012	0.0	0.0	0.2	0.2	0.1	0.3	37	18	2	5	2	38		
4/1/2012	0.0	0.6	0.2	0.2	0.1	0.2	49	208	2	9	3	42		
4/2/2012	0.2	0.6	0.2	0.2	0.1	0.0	30	19	2	26	102	24		
4/3/2012	0.2	0.0	0.1	0.1	0.0	0.1	18	16	37	35	25	21		
4/4/2012	0.1	0.1	0.2	0.2	0.5	0.1	53	53	9	65	72	52		
4/5/2012	0.2	0.1	0.2	0.2	0.0	0.0	21	18	8	115	26	28		
4/6/2012	0.3	0.5	0.5	0.7	0.0	0.0	24	18	40	121	109	25		
Average	0.1	0.3	0.2	0.3	0.1	0.1	33	50	14	54	48	33		
Maximum	0.3	0.6	0.5	0.7	0.5	0.2	53	208	40	121	109	52		

#### Notes:

FAM - fixed air monitoring station location

ug/m³ - micrograms per cubic meter

ppmv - parts per million by volume

TVOC - total volatile organic compounds

PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter



# Figures 1-4 Meteorological Data Weekly Community Air Monitoring Report Clifton Former MGP Site Operable Unit 2 Borough of Staten Island, New York

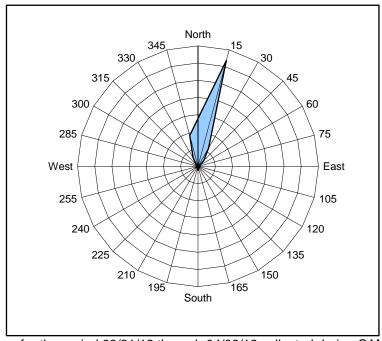


Figure 1. Wind rose for the period 03/31/12 through 04/06/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Wind direction data used to create the wind rose were calculated from 1-minute data.

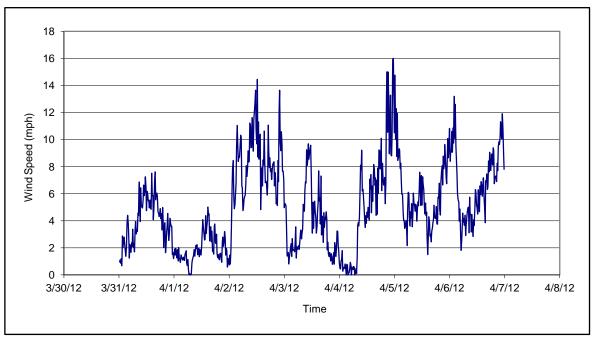


Figure 2. Wind speed for the period 03/31/12 through 04/06/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

Figures 1-4
Meteorological Data
Weekly Community Air Monitoring Report
Clifton Former MGP Site Operable Unit 2
Borough of Staten Island, New York

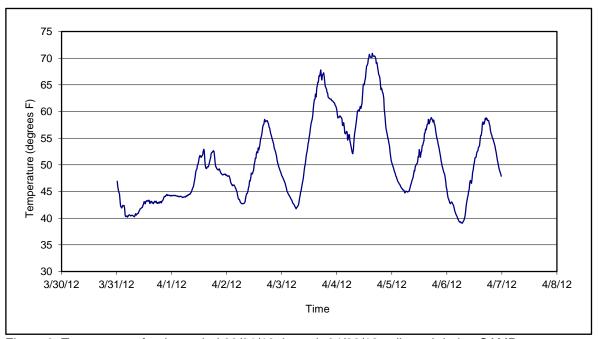


Figure 3. Temperature for the period 03/31/12 through 04/06/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

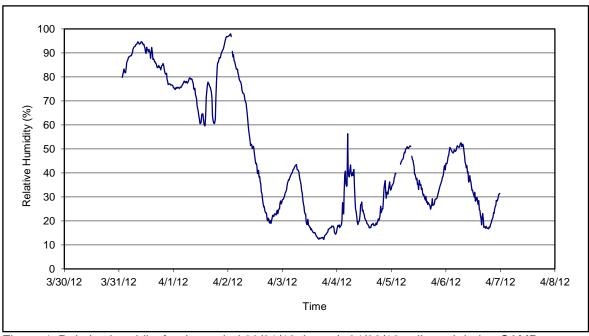


Figure 4. Relative humidity for the period 03/31/12 through 04/06/12 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

Sampling Date 4/2/2012 System Stort Time System Calibrations (imedicate) System Calibration (i		Syster	m Operation	ıs							Gener	al Observation	ons				
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Total hrs Montoved   24						]		· <del>·</del> ·									
						Gonoral Do	corintian	of Sito Activitios:									
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Alert   Trigger   Station   Size   Trigger   Station   Trigger   Station   Trigger   Station   Trigger						Pre-trend	hing in C	DU2		Running po	ower lines t	hrough condu	its around inside perimeter inOU2				
Alert   Trigger   Station   Size   Trigger   Station   Trigger   Station   Trigger   Station   Trigger																	
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Min	Date	Trigger	Station	Time	Time		Dir.	Downwind	Station(s)	Conce	ntration	Condition	(if applicable)	Actions raken			
ALCOUNT PW-10 FAMRS 10:19 10:20 2 NE DW FAMRS 96 97 1 concrete refusal during pre-trenching Notified construction manager.    Value						renous				Min**	Max**						
concrete refusal during pre-trenching  concrete refusal d	4/2/2012	DM-10	EAM#5	10:10	10:20	2	NE	DW	ΕΔΜ#6	96	07	1		Notified construction manager			
Since no ground intrusive activities were conducted during this time period, PM-10 remained at a Site Condition 1.  PM-10 (15-min) TVOC (15-min) Odor Intensity (15-min) Alert Limit: 100 ug/m³ 3.7 ppm	4/2/2012	1 101-10	I AIVI#3	10.19	10.20	2	INL	DVV	1 AW#O	90	31	'	concrete refusal during pre-trenching	Notified construction manager.			
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* Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW).  * Upwind minus downwind concentrations are a time specific comparison.  FAM - Fixed Air Monitoring station location  ug/m³ - micrograms per cubic meter  ppmv - parts per million by volume  PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter  TVOC - total volatile organic compounds  NA - not applicable  ND - no data available  Field Representative:  Ronell Marshall  4/2/2012												-					
* Wind directions are presented by octant (i.e. N, NE, E, SE, S, SW, W, NW).  PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter  TVOC - total volatile organic compounds  FAM - Fixed Air Monitoring station location  ug/m³ - micrograms per cubic meter  ppmv - parts per million by volume  PM-10 - particulate matter (i.e. dust) less than 10 microns in diameter  TVOC - total volatile organic compounds  NA - not applicable  ND - no data available  Field Representative:  Ronell Marshall  4/2/2012				Act	ion Limit:		150 u	g/m²	5.0 ppm		25	ppm	3 (n-butanol scale)				
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4/5/2012	PM-10	FAM#4	15:16	15:29	14	NW	CW/UW	N/A	104	115	1*	No ground intrusive activity.	NA			
4/0/2012	1 101 10	174177	10.10	10.20		1400	GW/GW	14//	104	110	<u>'</u>	ivo ground mit doive dotivity.	TVX			
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Since no g	round intru	sive activities	were co	nducted				l at a Site Condition 1.								
						PM-10 (1		TVOC (15-min)		TVOC	C (1-min)	Odor Intensity (15-min)				
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Notes:  * Wind dir	actions are	presented b	v octant	(ia NI NI	E E SE S	S/V/ /V/	NIM/)		PM-10 - pc	rticulate m	atter (i.e. dust)	less than 10 microns in diameter				
		nwind conce			ie specific co	mparisc	ori.				organic compou	inus				
		itoring station							NA - not applicable							
-		per cubic met							ND - no da	ta available	Э	Field Representative:	R. Marshall			
ppmv - pa	rts per mill	ion by volume	Э									Date: _	4/5/2012			
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	Syste	m Operation	ıs		General Observations										
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System Stop Time continuous Total Hrs Monitored 24  System Calibrations Ok (Time/Status) 0634-0856				24 Ok	General De Health & Continuo Relocate Pre-trenc	Safety Mous Air Mous Station I	onitoring FAM#4		Surveying on Willow Ave Placing concrete blocks from around TFS						
Date	I Station I I 15-min I I						Upwind/ Downwind	Upwind Station(s)	Downwin	15-Minute Downwind-Upwind Concentration Min** Max**		Site Activity During the Period (if applicable)	Actions Taken		
4/6/2012	PM-10	FAM#4	1:50	2:00	11	N	DW	FAM#6	99	115	1*	No ground intrusive activity. After Hours	NA		
4/6/2012 PM-10 FAM#5			13:48	14:03	10	NE	DW/CW	FAM#6	91	102	1*	Parking and shutting down construction vehicles, and covering the backfilled trench with fabric and plastic	NA		
<b>Comments</b> Since no g		sive activitie	s were co	onducted	during this re	eporting	period, PM-10 rema	ined at a Site Condition 1.							
				lert Limit:		<b>PM-10 (1</b> 100 ug 150 ug	g/m <sup>3</sup>	TVOC (15-min) 3.7 ppm			(1-min) -	Odor Intensity (15-min)			
** Upwind FAM - Fix	d minus dov ked Air Mon	e presented by vnwind conce litoring station per cubic me	oy octant entrations n location	are a tin	E, E, SE, S,	SW, W,	NW).	5.0 ppm		irticulate ma al volatile co oplicable	rganic compo	3 (n-butanol scale) t) less than 10 microns in diameter bunds Field Representative:	R. Marshall		



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