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Memorandum

To: Andrew Prophete (National Grid NY)

From: Brian Skelly

Copy to: Richard Dana and 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 and Clayton John (GEI Consultants, Inc.)

Date: January 23, 2013

Regarding: Weekly Community Air Monitoring Report Clifton Former MGP Site - Operable Unit 2 (OU-2) January 12, 2013 through January 18, 2013

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 January 12, 2013 and January 18, 2013.

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. 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).

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

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Site Construction Activities

Construction activities during this reporting period included:

- Excavated in Temporary Fabric Structure (TFS)
- Backfilled in TFS
- Deconned dump trucks
- Deconned excavators
- Deconned frac tank
- Leveled terrain inside TFS
- Loaded clean backfill into TFS
- Loaded out excavated material
- Prepared TFS for relocation
- Received delivery of clean backfill
- Relocated bin blocks
- Relocated frac tank
- Relocated TFS
- Removed sections of fencing along Northwest fence line of OU2.
- Stockpiled clean backfill
- Tarped dump trucks
- Transported clean backfill into TFS

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. 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.

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 January 16, 2013. 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 ³	150 ug/m ³	< 100 ug/m ³	≥ 100 ug/m ³ , < 150 ug/m ³	≥ 150 ug/m ³
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 ³	≥ 330 ug/m ³ , < 440 ug/m ³	≥ 440 ug/m ³

Notes:

¹ 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

² 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)

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

HCN - hydrogen cyanide

NA - not applicable



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

			ΤV	OC					PM	l-10		
Date			(pr	om)					(ug	/m ³)		
	FAM#1	FAM#2	FAM#3	FAM#4	FAM#5	FAM#6	FAM#1	FAM#2	FAM#3	FAM#4	FAM#5	FAM#6
1/12/2013	0.0	0.1	ND	0.1	0.1	ND	55	63	ND	45	64	ND
1/13/2013	0.0	0.1	ND	0.2	0.1	ND	51	63	ND	46	67	ND
1/14/2013	0.8	0.1	3.6 ^a	0.1	0.1	0.3 ^a	29	37	78 ^a	46	40	27 ^a
1/15/2013	0.6	0.2	0.3	0.1	0.7	0.0	37	17	12	8	18	26
1/16/2013	0.3	0.1	1.5	0.2	0.3	0.0	37	30	15	24	36	51
1/17/2013	0.1	0.1	0.3	0.2	0.2	0.0	22	21	9	23	23	52
1/18/2013	0.2	0.1	0.2	0.1	0.1	0.0	9	8	2	5	8	13
Average	0.3	0.1	0.6	0.1	0.2	0.0	34	34	10	28	37	36
Maximum	0.8	0.2	1.5	0.2	0.7	0.0	55	63	15	46	67	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

N/A - no site activity/CAMP due to holiday

^(a) Due to an power outage, no data were recorded @ FAM#3 or FAM#6 through 8:14 am on 1/14/2013.

ND: No Data- Units were offline due to power loss



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

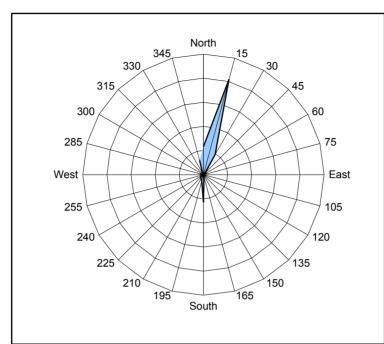


Figure 1. Wind rose for the period 01/12/13 through 01/18/13 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Wind direction data used to create the wind rose were calculated from 1-minute data.

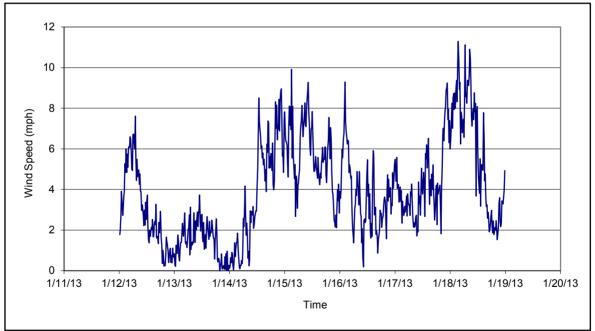
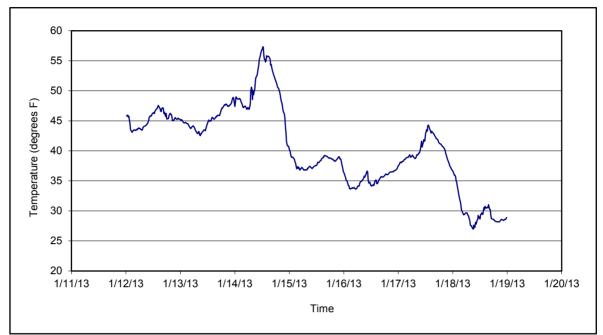
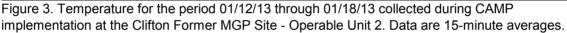


Figure 2. Wind speed for the period 01/12/13 through 01/18/13 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

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





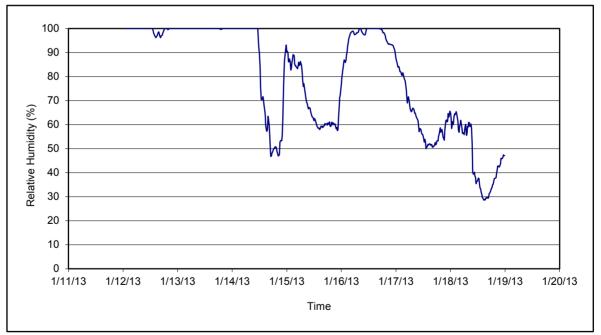


Figure 4. Relative humidity for the period 01/12/13 through 01/18/13 collected during CAMP implementation at the Clifton Former MGP Site - Operable Unit 2. Data are 15-minute averages.

	System Op	erations									General Observations		
		mpling Date		/2013	General Weath								
		n Start Time	conti		Overcas	t- ~ 51°I	F - ~56°F						
		m Stop Time		nuous									
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					Health &	Safety I	Meeting		Relocated	frac tank			
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							ckfill into TFS						
	-			-	Tarped of	dump tru	cks						
					# of					linute			
Date	Alert	Station	Start	End	15-min	Wind	Upwind/	Upwind		d-Upwind	Site Condition	Site Activity During the Period	Actions Taken
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				ion Limit:			ug/m³	5.0 ppm			- 25 ppm	- 3 (n-butanol scale)	
lotes:			Act				-9	5.0 ppm			20 ppm		
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	ts per million by vol									ata available		Field Representative:	S. Ou
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													Page 1 of



	System Op										General Observations				
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		n Stop Time	contir												
	Total Hr	s Monitored	2	24	General Descri	iption of	Site Activities:								
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	System	Calibrations)k	Continuo				Received	delivery of cl	ean backfill				
	(1	ime/Status)	0657	-0836	Deconne				Stockpiled clean backfill						
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							backfill into TFS		Prepared 7	FFS for reloo	cation				
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												Batol	Page 1 of		



	System Op	erations									General Observations			
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FAM - Fixe	d Air Monitoring stat	tion location		·	-									
ug/m ³ - mia	crograms per cubic r	meter							NA - not a	pplicable				
ppmv - par	ts per million by volu	ume							ND - no da	ta available		Field Representative:	C. John	
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wores: * 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							
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Devine many solution of the specific comparison. Two - total volatile organic compositions							
r And a ruse of indimicing station location ug/m ² - micrograms per cubic meter NA - not applicable							
	John						
	/2013						
	Page 1 of						



	System Op	erations									General Observations				
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		n Stop Time		nuous											
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Date Alert Station Start End 15-min Wind Upwind/								Upwind		nd-Upwind	Site Condition	Site Activity During the Period	Actions Taken		
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				ion Limit:			ug/m ³	5.0 ppm			25 ppm	3 (n-butanol scale)			
latao			7,01	on cinill.		.50		0.0 ppili			=o ppin	o (in batanoi ocale)			
lotes:	ctions are presented	hu octort (:			C CIA/ IA/ NILA/I				DM 10 ~	articulato	atter (i.e. dust) less than 10 micr	one in diamotor			
	minus downwind cor					-					rganic compounds				
	d Air Monitoring stat		acaulli	e apecilic	companson.				1 000 - 10	iai vulatilė U	iganic compounds				
	crograms per cubic r								NA - not a	nnlicable					
	ts per million by volu									ata available		Field Representative:	C. John		
pp pui												Date:	1/18/2013		

