



April 19, 2010

New York State Department of Environmental Conservation  
Division of Environmental Remediation  
Bureau of Construction Services  
625 Broadway, 12<sup>th</sup> Floor  
Albany, New York 12233-7013

Attn: Jeffrey E. Trad, P.E.  
Environmental Engineer II

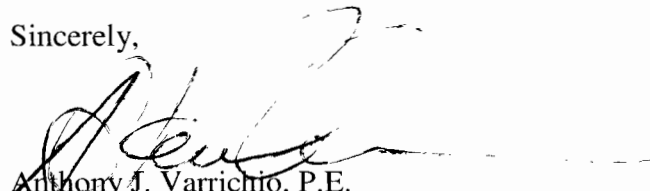
Re: Sonia Road Landfill Remediation Program  
Site Registry No. 152013  
Post Closure Program



Dear Mr. Trad:

Transmitted herewith is the First Quarter Sonia Road Post Closure Monitoring Report for 2010. Also included (as Appendices A, B, C, D & E) are 1) field photographs; 2) the January, February, & March 2010 FPM Gas Migration Monitoring Reports; 3) the H2M Well Condition Report; 4) Omntec field test results; and 5) the total number of cars stored on site (provided by the leasee).

Sincerely,



Anthony J. Varrichio, P.E.  
Chief Engineer  
Islip Resource Recovery Agency

cc: Christopher A. Andrade, Agency President  
R.M. Brick, Executive Assistant to Mr. Andrade  
Fazil Rahaman, Asst. Groundwater Treatment Plant Operator  
File



**TOWN OF ISLIP  
SUFFOLK COUNTY, NEW YORK**

**SONIA ROAD LANDFILL  
WEST BRENTWOOD, NEW YORK  
SITE REGISTRY NO. 152013**



**POST CLOSURE  
MONITORING AND MAINTENANCE REPORT**

**JANUARY THROUGH MARCH  
2010**

**POST-CLOSURE MONITORING AND MAINTENANCE REPORT  
SONIA ROAD LANDFILL  
BRENTWOOD, NEW YORK**

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## **SITE INSPECTION CHECKLIST**



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Vegetative Cover**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
				Winter conditions. Storm Inspection.	03/16/2010 03/31/2010	Fazil Rahaman

PROBLEM CODE	
C	Undesirable growth
E	Litter
F	Others

PRIORITY CODE	
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored
8	Other

If entire site Vegetative Cover is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Soil Cover**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
F1, F2	C	5		Corrective actions began 4/5/2010.	03/16/2010	Fazil Rahaman
F1, F2	C	5	2	Storm Inspection.	03/31/2010	Fazil Rahaman

PROBLEM CODE	
C	Ponding (>10'x10')

PRIORITY CODE	
5	Correct within 6 months

If entire site Soil Cover is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Revetment Matting  
Side Slopes & Gabion Curb**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
B3	J	4	0	Gabion Curb.	03/16/2010	Fazil Rahaman
B3	L	4	0	Gabion Curb.	03/16/2010	Fazil Rahaman
B5.H5	F	7	0		03/16/2010	Fazil Rahaman
E1.H1	F	7	0		03/16/2010	Fazil Rahaman
H2.H5	F	7	0		03/16/2010	Fazil Rahaman

PROBLEM CODE	
B	Slope movement
F	Settlement
J	Damaged baskets
L	Depression

PRIORITY CODE	
4	Correct within 3 months
7	Being Monitored

If entire site Revetment Matting is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Access Roads**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
A3	C	4	0	Between perimeter fence & road.	03/16/2010	Fazil Rahaman
C5	D&H	7	1		03/16/2010	Fazil Rahaman
C5	D&H	7	1	Storm Inspection.	03/31/2010	Fazil Rahaman
E1	G	7	0	Affecting fence contour.	03/16/2010	Fazil Rahaman
F1	G	7	0	Same as above.	03/16/2010	Fazil Rahaman
F5	H	7	3		03/16/2010	Fazil Rahaman
G1	C	1	1		03/16/2010	Fazil Rahaman
G5	H	7	1	Needs attention.	03/16/2010	Fazil Rahaman

PROBLEM CODE	
C	Potholes
E	Erosion gullies
F	Loss of stone cover
H	Ponding
I	Depressions

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored

If entire site Access roads is acceptable, check box and sign

Signature \_\_\_\_\_





04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Stormwater Collection System 1 of 4  
Perimeter Swale & Diversion Swale**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
B5.H5	D	7	4	Needs attention.	03/16/2010	Fazil Rahaman
D1.E1	C&D	7	2	Same as above. (Ponded water as well).	03/16/2010	Fazil Rahaman
G1	D	7	1	Same as above.	03/16/2010	Fazil Rahaman
H1.H5	B	7	0	Same as above.	03/16/2010	Fazil Rahaman

PROBLEM CODE	
B	Slope movement
C	Silt accumulation
D	Ponded water
E	Vegetative cover
F	Debris/clogging
L	Others

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
5	Correct within 6 months
7	Being Monitored

If entire site Stormwater collection system 1 of 4 is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP**  
**SONIA ROAD LANDFILL**  
**POST CLOSURE MONITORING AND MAINTENANCE PLAN**  
**SITE INSPECTION CHECK LIST**

**Stormwater Collection System 2 of 4  
Inlet Structures & Rip-Rap Drainway**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
PROBLEM CODE			PRIORITY CODE			
F	Debris/clogging	4	Correct within 3 months			
L	Woody vegetation					

If entire site Stormwater collection system 2 of 4 is acceptable, check box and sign



Signature

*N.M. Pich*



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Stormwater Collection System 3 of 4  
Energy Dissipators & Down-Chutes**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
PROBLEM CODE			PRIORITY CODE			
L	Woody Vegetation	4	Correct within 3 months			

If entire site Stormwater collection system 3 of 4 is acceptable, check box and sign



Signature

*R.M. Brink*



04/07/2010 3:15:02PM

**TOWN OF ISLIP**  
**SONIA ROAD LANDFILL**  
**POST CLOSURE MONITORING AND MAINTENANCE PLAN**  
**SITE INSPECTION CHECK LIST**

**Stormwater Collection System 4 of 4**  
**Drywells & Culverts/Outlets**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
D1&E1	C&D	7	2	Culverts / Outlets.	03/16/2010	Fazil Rahaman
D1&E1	C&D	7		Same as above. Storm Inspection.	03/31/2010	Fazil Rahaman
C5	H	7	1	Located in access roadway.	03/16/2010	Fazil Rahaman

PROBLEM CODE	
C	Silt accumulation
D	Ponded water
H	Soil erosion around
K	Others

PRIORITY CODE	
4	Correct within 3 months
7	Being Monitored

If entire site Stormwater collection system 4 of 4 is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP**  
**SONIA ROAD LANDFILL**  
**POST CLOSURE MONITORING AND MAINTENANCE PLAN**  
**SITE INSPECTION CHECK LIST**

**Recharge Basins**

Report Date: 04/07/2010

GRID NO	PROBLEM CODE	PRIOTITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:

PROBLEM CODE		PRIORITY CODE	
A	Vegetation	4	Correct within 3 months
G	Others		

If entire site's Recharge basins are acceptable, check box and sign



Signature                     *N.M. Brick*



04/07/2010 3:15:02PM

**TOWN OF ISLIP**  
**SONIA ROAD LANDFILL**  
**POST CLOSURE MONITORING AND MAINTENANCE PLAN**  
**SITE INSPECTION CHECK LIST**

**Monitoring Wells**

Report Date: 04/07/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
GM 5 GM 7 GM 13 GM 14				Refer to Jan., Feb., March 2010 Gas Monitoring Reports, prepared by FPM; attached.		
MW 6S, 6I, & 6D				Refer to Well Condition Report, dated Feb. 11, 2010, prepared by H2M; attached.		

PROBLEM CODE	
A	Damage
C	Settlement
E	Gasket Damage
F	Others

PRIORITY CODE	
3	Correct within 1 month
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Monitoring wells is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Landfill Gas Collection System**

Report Date: 04/07/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
GC 9.GC16	D	7	9	Corrective actions undertaken beginning 4/5/2010.	03/11/2010	Fazil Rahaman
Vault 13	L	4	1	Same as above.	03/11/2010	Fazil Rahaman
Vault 18	D	7	2	Same as above.	03/11/2010	Fazil Rahaman

PROBLEM CODE	
D	Settlement
K	Soil erosion around
L	Access restricted
N	Others

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Landfill gas collection system is acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

**Landfill Gas Compound**

Report Date: 04/07/2010

ITEM ID	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
Blower	K	7	0	104A between pulley & housing.	03/24/2010	Fazil Rahaman
Gas Condensate	M	7	0	Panel: results on print-out; attached.	03/24/2010	Fazil Rahaman
Flare	M	7	0	Used for venting only.	03/24/2010	Fazil Rahaman

PROBLEM CODE	
F	Alarms
J	Gauges
K	Oil leak
M	Others

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site Landfill gas compound is acceptable, check box and sign

Signature \_\_\_\_\_





04/07/2010 3:15:02PM

**TOWN OF ISLIP**  
**SONIA ROAD LANDFILL**  
**POST CLOSURE MONITORING AND MAINTENANCE PLAN**  
**SITE INSPECTION CHECK LIST**

**Site Facilities**

Report Date: 04/07/2010

GRID / ITEM ID #	PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS	DATE	INSPECTED BY:
Flare Control Panel	L	7	0	"Inlet gas high temp." reflected on digital screen. (Note: FLARE USED FOR VENTING ONLY).	03/24/2010	Fazil Rahaman
E1	K	7	0	Due to settlement.	03/24/2010	Fazil Rahaman
F1	K	7	0	Same as above.	03/24/2010	Fazil Rahaman

PROBLEM CODE	
A	Damage
G	Replace indicator lights
J	Slope Movement
K	Fence Movement
L	Other

PRIORITY CODE	
1	Immediate
4	Correct within 3 months
7	Being Monitored
8	Other

If entire site's facilities are acceptable, check box and sign

Signature \_\_\_\_\_



04/07/2010 3:15:02PM

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**TOWN OF ISLIP  
SONIA ROAD LANDFILL  
POST CLOSURE MONITORING AND MAINTENANCE PLAN  
SITE INSPECTION CHECK LIST**

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**General Comments**

Report Date: 04/07/2010

PROBLEM CODE	PRIORITY CODE	PHOTO	COMMENTS

"Realignment of Selected Gas Monitoring Standpipes, Protective Casings And Vaults At The Sonia Road Landfill", Islip Resource Recovery Agency Contract 2009-2, began April 5, 2010. H2M Group (Melville) as consultants, Newborn Construction (Center Moriches) as general contractor. 3/31/2010 storm inspection yielded 12 site photos (which are included in this report). Additionally, there are 18 (post-closure) quarterly report photos included with this report.

If entire site's General Comments are acceptable, check box and sign

Signature \_\_\_\_\_

**APPENDIX A**  
**FIELD PHOTOGRAPHS**

3/11/10 G.C. 12



3/11/10 G.C. 11



10FS

3/11/10 G.C. 10



3/11/10 G.C. 9



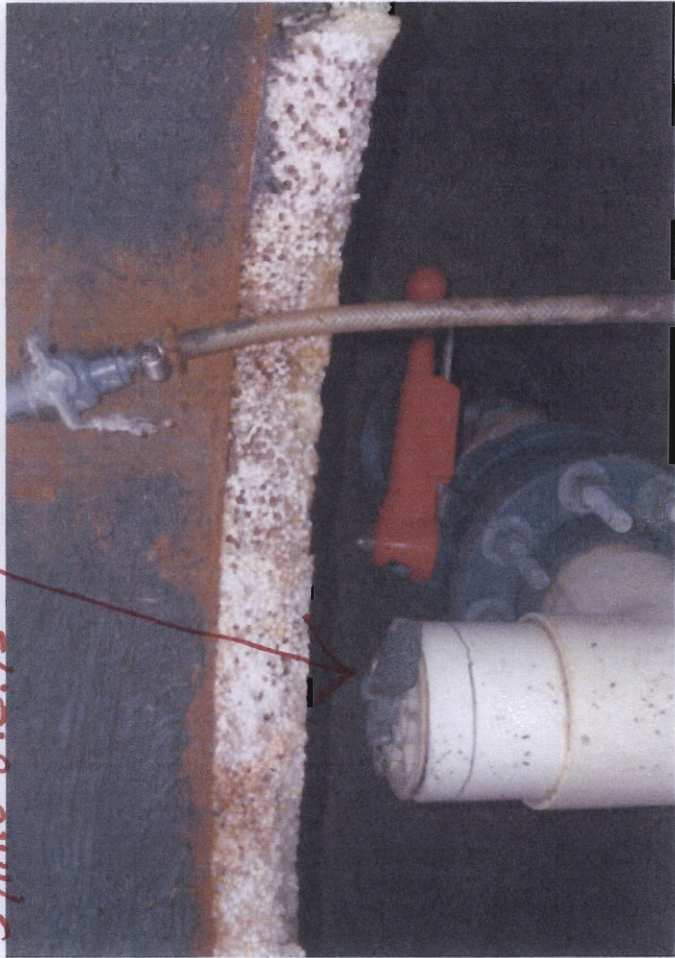
3/Julio G.C. 14



3/Julio G.C. 13



3/Julio G.C. 13



3/Julio G.C. 12



2055

3 Julio G.C. 15



3 Julio G.V. 18



3085

3 Julio G.V. 18



3/16/10 GRID I.O. FS



3/16/10 GRID I.O. FS & GS



4 OF 5

3/16/10 GRID I.O. G1



3/16/10 GRID I.O. G1



3/16/10 CRIO I.O. C5



3/16/10 CRIO I.O. F5



3/16/10 CRIO I.O. B4



50f5



3/31/10 STORM INSPECTION GRID I. D. C5



3/31/10 STORM INSPECTION GRID I. D. G5



3/31/10 STORM INSPECTION GRID I. D. B4



3/31/10 STORM INSPECTION GRID I. D. E5





3/31/10 STORM INSPECTION GR10 I.O. E1



3/31/10 STORM INSPECTION GR10 I.O. 01



3/31/10 STORM INSPECTION GR10 I.O. E1



**APPENDIX B**  
**GAS MIGRATION MONITORING REPORTS**

# FPM group --- Engineering and Environmental Science

FPM Group, Ltd.  
FPM Engineering Group, P.C.  
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS  
909 Marconi Avenue  
Ronkonkoma, NY 11779  
631/737-8200  
Fax 631/737-2410

February 2, 2010

Mr. Alan R. Sanchez  
Vice President of Operations  
Islip Resource Recovery Agency  
401 Main Street  
Islip, New York 11751

Re: **Sonia Road Landfill**  
**January 2010 Landfill Gas Monitoring Results**  
**FPM File No. 631-08-11**

Dear Mr. Sanchez:

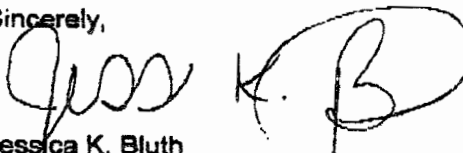
On January 21, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for February 18, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-8200, ext. 229.

Sincerely,

  
Jessica K. Bluth  
Hydrogeologist

JKB:tac  
Attachment

cc: Jim Jahnke (via fax)  
Fazil Rahaman (via fax)

S:\Info RRA\Reports\Sonia-L\res2010 Letters\January,Dec

**TABLE 1  
LANDFILL GAS MONITORING RESULTS  
SONIA ROAD LANDFILL  
ISLIP, NEW YORK**

**Gas Monitoring Wells**

Location ID	Well Condition	Time & Date	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	1/21/2010 12:40	0.0	0.1	17.8	30.2	-45.20
GM-01	OK	1/21/2010 12:43	0.0	2.8	15.7	30.2	-3.50
GM-02	OK	1/21/2010 12:56	0.0	1.8	16.5	30.2	-0.10
GM-03	OK	1/21/2010 13:01	0.0	0.1	17.7	30.2	0.00
GM-04	OK	1/21/2010 14:40	0.0	0.2	17.7	30.1	0.00
GM-05	**	1/21/2010 13:13	0.0	0.2	17.7	30.1	-0.40
GM-06	OK	1/21/2010 13:17	0.0	0.2	17.7	30.1	-0.20
GM-07	**	1/21/2010 13:23	0.0	0.2	17.7	30.1	-0.20
GM-08	OK	1/21/2010 13:31	0.0	0.1	17.7	30.1	-0.10
GM-09	OK	1/21/2010 13:36	0.0	0.9	17.2	30.1	-0.10
GM-10	OK	1/21/2010 13:45	0.0	0.1	17.7	30.1	-0.10
GM-11	OK	1/21/2010 13:49	0.0	1.0	16.9	30.1	0.00
GM-12	OK	1/21/2010 13:55	0.0	0.1	17.8	30.1	0.00
GM-13	**	1/21/2010 14:00	0.0	0.3	17.6	30.1	-0.30
GM-14	**	1/21/2010 14:07	0.0	0.3	17.6	30.1	0.00
GM-15	OK	1/21/2010 14:14	0.0	0.1	17.6	30.1	0.00
GM-16	OK	1/21/2010 14:19	0.0	1.1	17.2	30.1	-0.10
GM-17	OK	1/21/2010 14:29	0.0	0.3	17.7	30.1	-0.10

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - On

Weather - Clear, 40°F

\*\*Exterior casing is obstructed by well column and will not close.

**FPM**

**FPM** group \_\_\_\_\_ Engineering and Environmental Science

FPM Group, Ltd.  
FPM Engineering Group, P.C.  
formerly Fanning, Phillips and Molnar

CORPORATE HEADQUARTERS  
908 Marconi Avenue  
Ronkonkoma, NY 11779  
631/737-6200  
Fax 631/737-2410

March 2, 2010

Mr. Alan R. Sanchez  
Vice President of Operations  
Islip Resource Recovery Agency  
401 Main Street  
Islip, New York 11751

Re: **Sonia Road Landfill**  
**February 2010 Landfill Gas Monitoring Results**  
**FPM File No. 631-08-11**

Dear Mr. Sanchez:

On February 25, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. Very low percentages (0.1%) of CH<sub>4</sub> were detected in landfill monitoring wells GM-03, GM-05, GM-07 and GM-08. However, these low detections of methane gas are most likely a result of high humidity affecting the instrumentation on the day the sampling was conducted.

The next landfill gas monitoring event is tentatively scheduled for March 23, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,

  
Jessica K. Bluth  
Hydrogeologist

JKB:tac  
Attachment

cc: Jim Jahnke (via fax)  
Fazil Rahaman (via fax)

S:\Islip RRA\Reports\Sonia-Ltr\2010 Letters\February.doc

**TABLE 1  
LANDFILL GAS MONITORING RESULTS  
SONIA ROAD LANDFILL  
ISLIP, NEW YORK**

**Gas Monitoring Wells**

Location ID	Well Condition	Time & Date	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	2/25/2010 13:20	3.4	11.3	8.0	29.3	0.00
GM-01	OK	2/25/2010 13:23	0.0	2.2	15.8	29.3	3.10
GM-02	OK	2/25/2010 13:29	0.0	1.3	16.5	29.2	0.40
GM-03	OK	2/25/2010 13:36	0.1	0.6	12.7	29.2	0.00
GM-04	OK	2/25/2010 14:48	0.0	2.3	17.1	29.2	-0.20
GM-05	**	2/25/2010 13:42	0.1	1.2	15.9	29.2	0.20
GM-06	OK	2/25/2010 13:46	0.0	0.3	17.6	29.2	0.10
GM-07	**	2/25/2010 13:53	0.1	0.8	17.1	29.2	0.00
GM-08	OK	2/25/2010 13:58	0.1	1.3	16.2	29.2	0.10
GM-09	OK	2/25/2010 14:03	0.0	0.7	17.3	29.2	0.00
GM-10	OK	2/25/2010 14:07	0.0	0.3	17.6	29.2	0.00
GM-11	OK	2/25/2010 14:11	0.0	1.3	16.9	29.2	0.00
GM-12	OK	2/25/2010 14:16	0.0	0.2	17.7	29.3	0.00
GM-13	**	2/25/2010 14:20	0.0	0.8	17.2	29.2	-0.40
GM-14	**	2/25/2010 14:28	0.0	0.7	17.1	29.2	-0.40
GM-15	OK	2/25/2010 14:32	0.0	0.5	17.5	29.2	0.00
GM-16	OK	2/25/2010 14:36	0.0	0.9	17.2	29.2	0.00
GM-17	OK	2/25/2010 14:41	0.0	0.3	17.6	29.2	0.00

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - Off

Weather - Rain, 38°F

**\*\*Exterior casing is obstructed by well column and will not close.**



# FPM group \_\_\_\_\_ Engineering and Environmental Science

FPM Group, Ltd.  
FPM Engineering Group, P.C.  
formerly Fanning, Phillips and Molner

CORPORATE HEADQUARTERS  
909 Marconi Avenue  
Ronkonkoma, NY 11779  
631/737-6200  
Fax 631/737-2410

April 1, 2010

Mr. Alan R. Sanchez  
Vice President of Operations  
Islip Resource Recovery Agency  
401 Main Street  
Islip, New York 11751

Re: **Sonia Road Landfill**  
**March 2010 Landfill Gas Monitoring Results**  
**FPM File No. 631-08-11**

Dear Mr. Sanchez:

On March 19, 2010, FPM Group (FPM) performed landfill gas monitoring at the above-referenced site. Monitoring was performed with a Landtec GA-90 Gas Analyzer, model GA1/1.

Oxygen (O<sub>2</sub>) gas and methane (CH<sub>4</sub>) gas were zeroed according to the manufacturer's specifications. The gas analyzer was calibrated with 15 percent (%) CH<sub>4</sub> and 15% carbon dioxide (CO<sub>2</sub>) with the balance nitrogen (N<sub>2</sub>) gas, and 4% O<sub>2</sub> with the balance N<sub>2</sub> gas according to the manufacturer's recommendation prior to sampling.

The landfill gas monitoring results are provided in Table 1. The next landfill gas monitoring event is tentatively scheduled for April 23, 2010. Jim Jahnke will be notified several days in advance of the sampling event.

Should you have any questions, please do not hesitate to call me at (631) 737-6200, ext. 229.

Sincerely,

  
Jessica K. Bluth  
Hydrogeologist

JKB:tac  
Attachment

cc: Jim Jahnke (via fax)  
Fazil Rahaman (via fax)

S:\slip RRA\Report\Sonia-Ltr\2010 Letters\March.doc

**TABLE 1  
LANDFILL GAS MONITORING RESULTS  
SONIA ROAD LANDFILL  
ISLIP, NEW YORK**

**Gas Monitoring Wells**

Location ID	Well Condition	Time & Date	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Atmospheric Pressure	Relative Pressure
SONIBLOW	OK	3/19/2010 11:44	2.5	7.5	10.7	29.8	-41.70
GM-01	OK	3/19/2010 11:46	0.0	1.6	15.9	29.8	0.50
GM-02	OK	3/19/2010 11:51	0.0	2.1	12.8	29.8	-0.10
GM-03	OK	3/19/2010 11:56	0.0	0.3	16.9	29.7	0.00
GM-04	OK	3/19/2010 13:02	0.0	0.2	17.0	29.7	0.00
GM-05	**	3/19/2010 12:01	0.0	0.7	16.7	29.7	-0.50
GM-06	OK	3/19/2010 12:05	0.0	0.3	17.1	29.7	-0.20
GM-07	**	3/19/2010 12:10	0.0	0.7	16.8	29.7	0.00
GM-08	OK	3/19/2010 12:16	0.0	0.1	17.2	29.7	-0.20
GM-09	OK	3/19/2010 12:20	0.0	0.8	16.3	29.7	-0.20
GM-10	OK	3/19/2010 12:24	0.0	0.2	17.2	29.7	-0.10
GM-11	OK	3/19/2010 12:28	0.0	1.1	16.3	29.7	0.00
GM-12	OK	3/19/2010 12:33	0.0	0.2	17.2	29.7	-0.10
GM-13	**	3/19/2010 12:38	0.0	0.7	16.7	29.7	0.00
GM-14	**	3/19/2010 12:44	0.0	0.5	16.8	29.7	-0.70
GM-15	OK	3/19/2010 12:49	0.0	0.1	17.2	29.7	0.00
GM-16	OK	3/19/2010 12:52	0.0	0.6	16.5	29.7	-0.20
GM-17	OK	3/19/2010 12:56	0.0	0.3	16.9	29.7	-0.10

**Notes:**

CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> are reported in percent gas.

Relative well head pressure is reported in inches of water.

Atmospheric pressure is reported in inches of mercury.

Recovery System Status - Off

Weather - Clear, 64°F

**\*\*Exterior casing is obstructed by well column and will not close.**

**APPENDIX C**  
**WELL CONDITION REPORT**



Engineers | Architects | Scientists | Planners | Surveyors

Holzmacher, McLendon & Murrell, P.C. | H2M Associates, Inc.  
H2M Labs, Inc. | H2M Architects & Engineers, Inc.

175 Pinelawn Road | Suite 308  
Melville, New York 11747  
v 631.756.8000 | 631.393.6322  
www.h2m.com

February 11, 2010

Anthony Varrichio, P.E., Chief Engineer  
Islip Resource Recovery Agency  
401 Main Street  
Islip, New York 11751

Re: Well Condition Report, First Semi-Annual 2010 Report  
Sonia Road Landfill,  
H2M No. ISLP1001

Dear Mr. Varrichio:

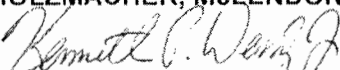
The purpose of this letter is to provide the First Semi-Annual 2010 well inspection summary report for the 35 monitoring wells at the Sonia Road Landfill. The completed well inspection checklists are enclosed. The well inspection did not reveal any significant damage, security issues or other concerns related to the sampled monitoring wells that would require corrective action, except at 12 wells. The following concerns were noted during the inspection:

- The vaults to monitoring wells MW-02D and MW-02I could not be closed due to contact between the well caps and vault covers.
- The rubber gaskets on the vaults for monitoring wells MW-06S and MW-06I were damaged.
- The casings for monitoring wells MW-05S, MW-13S and MW-14S are straight, but not vertical.
- The manhole cover for monitoring MW-07D could not be closed completely due to contact with the well cap.
- The PVC casing for monitoring wells MW-11S, MW-14S, MW-14I and MW-14D appeared to have been recently cut, and may need to be resurveyed.
- The well cap for monitoring well MW-11I was damaged.
- Sediment accumulation found beneath manhole cover for monitoring well MW-11D.
- The manhole cover for monitoring well MW-13S was missing.
- Monitoring well MW-13I was apparently buried beneath substantial landscaping debris, and could not be located during this sampling event.

If you have any questions or require any additional information, please call me at (631) 756-8000, extension 1606.

Very truly yours,

**HOLZMACHER, McLENDON & MURRELL, P.C.**

  
Kenneth P. Wenz, Jr., CPG  
Senior Project Manager

X:\ISLP (Town of Islip) - 10560\2010\Sonia Rd 2010\Well Condition Logs\Well condition Logs\First Semi-Annual Well Condition Report 2010.docx



CELEBRATING 75 YEARS

ACEC  
MEMBER



Table 1  
WELL INSPECTION SUMMARY – FIRST SEMI-ANNUAL 2010  
SONIA ROAD LANDFILL

Well	Surface Seal	Cover/Standpipe	Lock Intact?	Casing Alignment	Survey Point	Well Labeled?	Well Protected?
MW-01S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-01I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-01D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-02I	Intact	<b>Vault could not be closed</b>	Yes	Straight	Marked	Yes	No
MW-02D	Intact	<b>Vault could not be closed</b>	Yes	Straight	Marked	Yes	No
MW-03S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-03I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-03D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-04D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-05S	Intact	Intact	Yes	<b>Straight, not vertical</b>	Marked	Yes	Yes
MW-05I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-05D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-06S	Intact	<b>Gasket damaged</b>	Yes	Straight	Marked	Yes	Yes
MW-06I	Intact	<b>Gasket damaged</b>	Yes	Straight	Marked	Yes	Yes
MW-06D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-07D	Intact	<b>Manhole cover not flush</b>	Yes	Straight	Marked	Yes	Yes
MW-10S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-10I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-10D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-11S	Intact	Intact	Yes	Straight	<b>PVC casing recently cut</b>	Yes	Yes
MW-11I	Intact	<b>Well cap damaged</b>	Yes	Straight	Marked	Yes	Yes
MW-11D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12S	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12I	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-12D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-13S	Intact	<b>Missing manhole cover</b>	Yes	<b>Straight, not vertical</b>	Marked	Yes	No
MW-13I	Intact	Unable to locate well at the time of the inspection due to landscaping debris.					
MW-13D	Intact	Intact	Yes	Straight	Marked	Yes	Yes
MW-14S	Intact	Intact	Yes	<b>Straight, not vertical</b>	<b>PVC casing recently cut</b>	Yes	Yes
MW-14I	Intact	Intact	Yes	Straight	<b>PVC casing recently cut</b>	Yes	Yes
MW-14D	Intact	Intact	Yes	Straight	<b>PVC casing recently cut</b>	Yes	Yes

**APPENDIX D**  
**OMNTEC FIELD TEST RESULTS**

**SYS CK. 2010 1<sup>ST</sup> QTR  
POST CLOSURE**

\*\*\*\* POWER INTERRUPT \*\*\*\*  
POWER OFF MAR 24, 2010 08:17:59AM  
POWER UP MAR 24, 2010 08:18:24AM

---OMNTEC Mfg., Inc.  
Tel: 1(631)981-2001  
Fax: 1(631)981-2007

-SITE INFORMATION:  
Name:Town Of Islip  
Addr:SONIA ROAD LANDFILL  
ID#: ELO18627  
VER 4.22 PR 030603  
MAR 24, 2010 08:15 AM

---OMNTEC PROBE  
WE 03/24/10 08:15:34  
Tank 1  
Product Type: Leachate  
Product Height: 10.29(In)  
Water: 1.30(In)  
Gross Volume: 519.38(G)  
T.C.: 479.43(G)  
Water: 42.64(G)  
Ullage: 5309.62(G)  
TEMP.: 47.51(°F)

**STICK MEASURED  
CONDENSATE TANK  
15<sup>3</sup>/<sub>4</sub>" = 971 GAL.**

---OMNTEC Mfg., Inc.  
Tel: 1(631)981-2001  
Fax: 1(631)981-2007

SITE INFORMATION:  
Name:Town Of Islip  
Addr:SONIA ROAD LANDFILL  
ID#: ELO18627  
VER 4.22 PR 030603  
MAR 24, 2010 08:19 AM

---Testing PROM  
PROM Tests OK

--Testing RAM PASSED  
Parameter Flash Used 0.75%

---Check Slot  
Slot 1 Annunciator Board  
Slot 2 Relay Board  
Slot 3 Relay Board

---Testing Level Probes  
T# PRODUCT TYPE TEST  
T1 Leachate P

---Testing Leak Sensors  
S# P/N LABEL TEST  
01 BXPDS F1PS CONTAIN.CHAMBE.. P  
(S/N: 200092605)  
02 BXPDS T 1,Sump#: 1 P  
(S/N: 200080154)  
03 BXPDPF T 1,Dbie\_Wall#: 1 P  
(S/N: 210030803)  
04 BXUT1 Caution Level P  
(S/N: 500031027)

S# = SENSOR NUMBER, P/N = PART NUMBER,  
T# = TANK, S/N = SENSOR SERIAL NUMBER,  
P = PASS, A = ALARM, F = FAIL, NR = NO REPLY

**APPENDIX E**  
**CARS STORED ON SITE**



ATLANTIC CENTRAL STORAGE

MARCH 29,2010

DEALERSHIPS	UNITS ON HILL	UNITS AT LEXUS PDI
ATLANTIC HYUNDAI	585	0
ADVANTAGE TOYOTA	260	0
ATLANTIC AUDI	22	0
ATLANTIC CADDY	37	0
ATLANTIC CHEVY	43	0
HUNTINGTON TOYOTA	217	0
ATLANTIC NISSAN	293	0
ATLANTIC TOYOTA	272	0
ATLANTIC HONDA	405	0
LEXUS OF MASSAPEQUA	0	255
LEXUS OF R.V.C	0	218
MILLENNIUM HONDA	237	0
MASSAPEQUA NISSAN	134	0
WESTBURY NISSAN	23	0
TOTALS	2528	473

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