Shaw Environmental, Inc.

Shaw Environmental, Inc.
92 North Avenue
New Rochelle, New York 10801
914.633.9324

October 15, 2009

Mr. James Schreyer, Project Manager
NYS Department of Environmental Conservation
Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: August 2009 Semi-Annual Monitoring
Taylor Lane Compost Site, Mamaroneck, NY
NYSDEC Site Number 360021

Dear Mr. Schreyer:

This report presents the results of environmental monitoring completed at the Taylor Lane Compost site on August 27, 2009. The monitoring was completed in accordance with the Post Closure Operation and Maintenance Plan for the Taylor Lane Compost Site prepared by EMCON/Wehran-New York, February 1998.

FIELD PROGRAM

Groundwater Sampling

Six groundwater samples were collected on August 27, 2009 from monitoring wells MW-1D, MW-1S, MW-2D, MW-2S, MW-3D and MW-3S. Historically the six wells were located within Taylor Lane. However, because of historical artesian conditions in several of the wells, the wellhead areas were often continuously wet and ponded water would freeze during the winter months. Accordingly, these wells were abandoned, and relocated off Taylor Lane and adjacent to the Landfill during March 2008.

The six groundwater samples were labeled, packed into an iced cooler, and shipped to Columbia Analytical Services in Rochester, NY and analyzed for metals (arsenic, cadmium, copper, lead, mercury, and zinc). The sample from MW-2S was also analyzed for volatile organic compounds (VOCs). During the sampling, the following field parameters were measured and recorded in the field: pH, temperature, conductivity, redox, and turbidity.

Summary tables for the analytical results and field data are provided in Attachment A. Laboratory reports are included in Attachment B.

Landfill Gas Vent and Bar Hole Monitoring

Landfill gas vent monitoring was also performed on August 27, 2009. Two of the eight gas vents were monitored for percent combustible gas and total organic vapors. The other six gas vents were not accessible due to excessive vegetative growth near the gas vents. Bar hole

monitoring was also conducted around the perimeter of the landfill in order to detect any migrating gases. These data are summarized in Attachment C.

RESULTS

Groundwater

The groundwater sampling results were evaluated relative to the New York State Department of Environmental Conservation Part 703 Groundwater Standards. Analytical results (Table 1 in Attachment A) show no metal exceedances in any of the groundwater monitoring samples collected on August 27, 2009.

A total of two VOCs were detected in the groundwater monitoring sample collected from MW-2S (Table 2 in Attachment A). Methyl tert-butyl ether (MTBE) was detected at 15 micrograms per liter (µg/L), in excess of the New York State Class GA standard of 10 µg/L. Tert-butyl alcohol was detected at 50 µg/L, in excess of the New York State Class GA standard of 20 µg/L. MTBE and tert-butyl alcohol are components of petroleum products and their detection may be attributable to the upgradient gas station at the corner of Boston Post Road and Taylor Lane. Vinyl chloride, detected in the last sampling event at a concentration of 2.5 ug/L, was not detected during this August 2009 sampling event.

Gas Vent and Bar Hole Monitoring Results

Gas vent monitoring and bar hole sampling indicates very minimal methane migration from the landfill during the August 2009 sampling event. Most readings were at or near 0% with the highest detection of 0.4%.

Please contact me at 914-633-9324 if you have any questions or require additional information.

Sincerely,

SHAW ENVIRONMENTAL, INC.

Michael R. Sherwood

Michael Sherwood
Client Program Manager

Attachment A – Summary Tables for Analytical Parameters and Field Data
Attachment B – Laboratory Reports
Attachment C – Gas Vent and Bar Hole Monitoring Data

cc: Mr. Richard Slingerland, Village of Mamaroneck

ATTACHMENT A

Table 1

Table 1
Summary of Inorganic Parameters
Taylors Lance Compost Site
Village of Mamaroneck

Analytical Parameter	Sampling Date	MW-1S		MW-1D		MW-2S		MW-2D		MW-3S		MW-3D	
Arsenic	5/22/1997	3.7	J	4.9	J	4.4	J	7.9	J	7.1	J	7.2	J
(µg/L)	11/14/1997	17.2		5.2	J	5.9	J	4.6	J	14.4		9.1	J
	5/19/1998	8.3	J	9.1	J	7.6	J	7.6	J	15.2		13.1	
GW Standard	11/5/1998	24.5		**34.2**		21.4		13.4		2.2	U	2.2	U
25.0 µg/L	5/25/1999	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U
	11/18/1999	2.9	U	2.9	U	2.9	U	2.9	U	7.8		2.9	U
	6/28/2000	2.9	U	2.9	U	2.9	U	2.9	U	3.6	J	2.9	U
	11/15/2000	11.2		10	U	10	U	10	U	10	U	10	U
	6/20/2001	3.5	U	3.5	U	3.5	U	3.5	U	6.87		3.5	U
	11/29/2001	10	U	10	U	10	U	10	U	10	U	10	U
	6/26/2002	10	U	10	U	10	U	10	U	10	U	10	U
	11/19/2002	10	U	10	U	10	U	10	U	10	U	10	U
	6/24/2003	10	U	10	U	10	U	10	U	10	U	10	U
	11/17/2003	10	U	10	U	10	U	10	U	10	U	10	U
	6/21/2004	10	U	10	U	10	U	10	U	10	U	10	U
	11/22/2004	10	U	10	U	10	U	10	U	10	U	10	U
	6/22/2005	10	U	10	U	10	U	10	U	10	U	10	U
	11/22/2005	10	U	10	U	10	U	10	U	10	U	10	U
	7/5/2006	10	U	10	U	10	U	10	U	10	U	10	U
	11/27/2006	10	U	10	U	10	U	10	U	22.6		10	U
	6/27/2007	10	U	10	U	10	U	10	U	10	U	21.9	
	1/9/2008	10	U	10	U	10	U	10	U	10	U	10	U
	7/23/2008	19.9		10	U	10	U	10	U	11.6		10	U
	2/20/2009	12		10	U	10	U	10	U	10	U	10	U
	8/27/2009	10	U	10	U	10	U	10	U	10	U	10	U

U - Analyte was analyzed for, but not detected

B - The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL).

Table 1
Summary of Inorganic Parameters
Taylors Lance Compost Site
Village of Mamaroneck

Analytical Parameter	Sampling Date	MW-1S		MW-1D		MW-2S		MW-2D		MW-3S		MW-3D	
Cadmium	5/22/1997	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
(µg/L)	11/14/1997	3.3	J	0.6	U	1.2	J	0.85	J	2.8	J	1.9	J
	5/19/1998	0.81	J	0.2	J	0.67	J	0.36	J	1.3	J	2.6	J
GW Standard	11/5/1998	1.1	J	0.75	U	0.87	J	1.2	J	4.2	J	0.75	U
5.0 µg/L	5/25/1999	1.4	J	0.57	U	0.57	U	0.57	U	0.57	U	4.9	J
	11/18/1999	2.8		0.34	U	2.1		0.34	U	4.8		1.6	
	6/28/2000	1.1	J	0.22	U	1.4	J	0.22	U	1.1	J	0.22	U
	11/15/2000	5	U	5	U	5	U	5	U	5	U	5.1	
	6/20/2001	3.21		2.33		4		0.85	U	4.54		0.85	U
	11/29/2001	5	U	5	U	5	U	5	U	5	U	5	U
	6/26/2002	5	U	5	U	5	U	5	U	5	U	5	U
	11/19/2002	5	U	5	U	5	U	5	U	5	U	5	U
	6/24/2003	5	U	5	U	5	U	5	U	5	U	5	U
	11/17/2003	5	U	5	U	5	U	5	U	5	U	5	U
	6/21/2004	5	U	5	U	5	U	5	U	5	U	5	U
	11/22/2004	5	U	5	U	5	U	5	U	5	U	5	U
	6/22/2005	5	U	5	U	5	U	5	U	5	U	5	U
	11/22/2005	5	U	5	U	5	U	5	U	5	U	5	U
	7/5/2006	5	U	5	U	5	U	5	U	5	U	5	U
	11/27/2006	5	U	5	U	5	U	5	U	**10.4**		5	U
	6/27/2007	5	U	5	U	5	U	5	U	5	U	5	U
	1/9/2008	5	U	5	U	5	U	5	U	5	U	5	U
	7/23/2008	5	U	5	U	5	U	5	U	5	U	5	U
	2/20/2009	5	U	5	U	5	U	5	U	5	U	5	U
	8/27/2009	5	U	5	U	5	U	5	U	5	U	5	U

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Table 1
Summary of Inorganic Parameters
Taylors Lance Compost Site
Village of Mamaroneck

Analytical Parameter	Sampling Date	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D
Copper	5/22/1997	5.7 J	3.6 J	19.9 J	1.7 U	18.8 J	14.5 J
(µg/L)	11/14/1997	46.5	13.1 J	34.2	7.7 J	74.3	35.3
	5/19/1998	9.3 J	3.7 J	5.7 J	4.5 J	26.8	12.3 J
GW Standard	11/5/1998	8.3 J	16.6 J	13.9 J	77.4	15.5 J	85.8
200.0 µg/L	5/25/1999	6.8 J	21.4 J	7.2 J	18.5 J	9.4 J	17.5 J
	11/18/1999	21.8	23.1	103	7.6	**478**	22.1
	6/28/2000	3.7 U	15 J	36	3.7 U	**255**	3.7 U
	11/15/2000	87	38.4	20 U	20 U	43.2	20 U
	6/20/2001	10.3	17.7	145	17.1	**520**	16
	11/29/2001	20 U	20 U	25.9	20 U	**204**	20 U
	6/26/2002	20 U	23	20 U	20 U	20 U	20 U
	11/19/2002	20 U	40	47	20 U	20 U	20 U
	6/24/2003	20 U	20 U	20 U	20 U	20 U	20 U
	11/17/2003	20 U	20 U	20 U	20 U	20 U	20 U
	6/21/2004	20 U	20 U	20 U	20 U	27.4	20 U
	11/22/2004	20 U	20 U	20 U	20 U	56	20 U
	6/22/2005	20 U	20 U	20 U	20 U	20 U	20 U
	11/22/2005	20 U	31.2	20 U	20 U	20 U	20 U
	7/5/2006	20 U	20 U	20 U	20 U	26	20 U
	11/27/2006	21.6	64.1	28.5	20 U	38.7	20 U
	6/27/2007	20 U	20 U	20 U	20 U	20 U	106
	1/9/2008	51.8	37.5	20 U	20 U	74.5	20 U
	7/23/2008	20 U	20 U	20 U	20 U	20 U	20 U
	2/20/2009	20 U	20 U	20 U	20 U	20 U	20 U
	8/27/2009	20 U	20 U	20 U	20 U	20 U	20 U

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Analytical Parameter	Sampling Date	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D
Lead	5/22/1997	1.1 U	1.1 U	4.4	1.1 U	12.7	21.2
(µg/L)	11/14/1997	2.4 J	0.7 U	2.9 J	0.7 U	**36.1**	18.2
	5/19/1998	1.4 J	0.7 U	0.81 J	0.7 U	14.6	16.6
GW Standard	11/5/1998	1.8 U	1.8 U	1.8 U	1.8 U	6.1	23.5
25.0 µg/L	5/25/1999	1.8 U	1.8 U	1.8 U	1.8 U	13	12.7
	11/18/1999	0.99 U	0.99 U	21	0.99 U	**68**	3.6
	6/28/2000	2.3 U	**44.4**	7.2	2.3 U	**98.5**	17.5
	11/15/2000	5 U	**91.8**	8.05	5 U	22.5	19.6
	6/20/2001	1.69	**37.9**	**45.2**	5.13	**62.3**	7.28
	11/29/2001	5 U	5 U	5 U	5 U	21.5	5 U
	6/26/2002	5 U	5 U	5.88	5 U	5 U	5 U
	11/19/2002	5 U	5.64	13.2	5 U	5.07	5 U
	6/24/2003	5 U	5 U	5 U	5 U	6.81	5 U
	11/17/2003	5 U	5 U	5 U	5 U	21.5	5 U
	6/21/2004	5 U	5 U	5 U	5 U	17.8	5 U
	11/22/2004	5 U	5 U	5 U	5 U	10.1	12.4
	6/22/2005	5 U	5 U	5 U	5 U	5 U	5 U
	11/22/2005	5 U	10.7	5 U	5 U	11.3	5.58
	7/5/2006	5 U	5 U	5 U	5 U	6	5 U
	11/27/2006	5 U	13.2	11.7	5 U	**54.2**	7.3
	6/27/2007	5 U	13.2	11.7	5 U	**54.2**	7.3
	1/9/2008	5 U	5 U	5 U	5 U	5 U	**72.5**
	7/23/2008	6.7	11	6.7	5 U	5.9	11.5
	2/20/2009	26.5	6.5	10.5	10.4	16.1	5 U
	2/20/2009	5.7	5 U	5 U	5 U	5 U	5 U
	8/27/2009	5 U	5 U	5 U	5 U	5 U	5 U

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Table 1
Summary of Inorganic Parameters
Taylors Lance Compost Site
Village of Mamaroneck

Analytical Parameter	Sampling Date	MW-1S		MW-1D		MW-2S		MW-2D		MW-3S		MW-3D	
Mercury	5/22/1997	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
(µg/L)	11/14/1997	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	5/19/1998	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
GW Standard	11/5/1998	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
0.7 µg/L	5/25/1999	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
	11/18/1999	0.04	U	0.04	U	0.09		0.04	U	0.27		0.04	U
	6/28/2000	0.05	J	0.01	U	0.02	J	0.01	U	0.34		0.04	J
	11/15/2000	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
	6/20/2001	0.03	U	0.03	U	0.03	U	0.03	U	0.28		0.03	U
	11/29/2001	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	6/26/2002	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	11/19/2002	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	6/24/2003	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	11/17/2003	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	6/21/2004	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	11/22/2004	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	6/22/2005	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	11/22/2005	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	7/5/2006	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	11/27/2006	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	6/27/2007	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	1/9/2008	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	7/23/2008	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	2/20/2009	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	8/27/2009	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U

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Table 1
Summary of Inorganic Parameters
Taylors Lance Compost Site
Village of Mamaroneck

Analytical Parameter	Sampling Date	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D
Zinc	5/22/1997	20	17.2 J	31.3	12.6 J	83.7	931
(µg/L)	11/14/1997	74.2	37	75	10.6 J	102	514
	5/19/1998	130	12.7 J	23.7	10.6	48.7	806
GW Standard	11/5/1998	13.9 J	27.9	23.3	51.4	29.9	659
2,000 µg/L	5/25/1999	15 J	36.7	16.2 J	8.8	21.8	558
	11/18/1999	26.8	38	95.6	20.4	102	101
	6/28/2000	7.9 J	104	202	21.3	432	941
	11/15/2000	20 U	1650	52.8	26.8	122	**2040**
	6/20/2001	25	630	274	72.6	314	246
	11/29/2001	20 U	29.5	23.1	20 U	56.5	56.4
	6/26/2002	20 U	28.2	76.8	20 U	20 U	20 U
	11/19/2002	20 U	69.6	65.2	20 U	20 U	20 U
	6/24/2003	20 U	20 U	20 U	42.9	20 U	20 U
	11/17/2003	20 U	20 U	20 U	55.5	38.6	20 U
	6/21/2004	21	20 U	20 U	55.5	45.7	20 U
	11/22/2004	20 U	20 U	20 U	20 U	113	20 U
	6/22/2005	20 U	20 U	20 U	20 U	113	20 U
	11/22/2005	20.5	144	32.9	20 U	33.3	58.6
	7/5/2006	25	51	20 U	20 U	20 U	20 U
	11/27/2006	23.3	352	84.7	20 U	64.4	65.5
	6/27/2007	20 U	20 U	20 U	20 U	20 U	1150
	1/9/2008	138	343	31.7	20 U	45.6	148
	7/23/2008	38.9	20 U	29.7	20 U	69.5	61.4
	2/20/2009	20 U	20 U	20 U	20 U	45	44
	8/27/2009	20 U	20 U	20 U	20 U	28	38

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Table 2

Village of Mamaroneck
Taylor Lane Compost Site
Historically Detected
VOC Compounds in MW-2S
(concentration in ug/l)

Sampling Date	Analytical Parameters			
	Vinyl Chloride	1, 2-Dichloroethene	MTBE	Tert-Butyl-Alcohol
Standard	2.0	5.0	10.0	20.0
5/22/1997	4 J	2 J	-	-
11/14/1997	21	3 J	-	-
5/19/1998	17	3 J	-	-
11/5/1998	14	3 J	-	-
5/25/1999	13	2 J	-	-
11/18/1999	6 J	10 U	-	-
6/28/2000	7.8	1.6	-	-
11/15/2000	5 U	5 U	-	-
6/20/2001	7.6	1.2	190	-
11/29/2001	2.5 U	0.5 U	82	270
6/26/2002	1.6	1 U	50	130
11/19/2002	5 U	5 U	56	210
6/24/2003	3.3	0.5 U	270	0
11/17/2003	1.2	0.5 U	250	120
6/21/2004	0.96	0.5 U	380	90
11/22/2004	0.64	0.5 U	380	200
6/22/2005	7.7	1.1	16	23
11/22/2005	4.1	0.5 U	61	90
7/5/2006	6.4	0.6	63	110
11/27/2006	4	0.5 U	70 E	110
6/27/2007	2.5	0.5 U	93 E	250
1/9/2008	2.2	0.5 U	74 E	350
7/23/2008	2.8	0.5	12	37
2/20/2009	1.3	0.5 U	16	43
8/27/2009	0.5 U	0.5 U	15	50

U - Compound not detected
J - Estimated value, less than detection limit
E - Concentrations exceed the calibration r

Field Data

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-1S	5/22/1997	15.1	6.82	0.8	720
	11/14/1997	12.8	6.64	102.5	904
	5/19/1998	17.1	5.63	73.4	700
	11/5/1998	16.5	6.08	48.6	800
	5/25/1999	14.9	6.22	33.3	800
	11/18/1999	14.4	6.12	50.5	720
	6/28/2000	18.1	6.53	11.0	700
	11/15/2000	11.3	6.10	-45.8	600
	6/20/2001	17.8	6.40	24.4	560
	11/29/2001	13.2	5.91	50.4	455
	6/26/2002	17.1	6.24	38.2	550
	11/19/2002	12.9	6.29	21.1	768
	6/24/2003	14.5	6.21	68.5	941
	11/17/2003	13.5	6.46	18.5	866
	6/21/2004	14.9	6.13	49.1	800
	11/22/2004	13.7	6.70	19.2	655
	6/22/2005	15.9	6.97	15.7	880
	11/22/2005	11.3	6.86	4.9	945
	7/5/2006	13.8	6.68	18.4	30.2
	11/27/2006	14.1	6.94	20.2	24.9
	6/27/2007	16.7	6.87	15.3	969
	1/9/2008	12.5	7.29	103.4	1.06
	7/23/2008	14.8	7.13	-134.1	1.255
	2/20/2009	10.1	6.83	-123.8	1.158
	8/27/2009	21.4	7.41	-180.1	0.963

Notes:
(µS): Units of Conductivity (micro Siemens)

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-1D	5/22/1997	16.0	6.72	4.7	430
	11/14/1997	11.4	7.41	82.0	596
	5/19/1998	18.6	7.19	-10.8	448
	11/5/1998	16.2	7.05	-26.2	600
	5/25/1999	17.5	6.32	28.6	449
	11/18/1999	12.8	7.88	-44.5	550
	6/28/2000	18.9	8.08	-79.3	500
	11/15/2000	12.2	7.78	-39.3	420
	6/20/2001	18.1	8.12	-73.8	540
	11/29/2002	13.0	7.25	-39.6	450
	6/26/2002	17.8	7.82	-48.9	450
	11/19/2002	12.6	7.64	-56.9	486
	6/24/2003	14.9	8.06	-23.2	573
	11/17/2003	12.0	8.20	-80.1	465
	6/21/2004	13.5	7.86	-48.1	513
	11/22/2004	12.9	7.49	-23.3	395
	6/22/2005	17.6	7.30	-56.6	464
	11/22/2005	9.9	7.22	-14.7	486
	7/5/2006	15.6	7.67	-33.7	586
	11/27/2006	13.7	7.66	-40.7	30.1
	6/27/2007	17.0	7.34	-18.0	585
	1/9/2008	12.5	7.16	-52.7	0.601
	7/23/2008	15.1	7.67	-179.6	0.624
	2/20/2009	11.1	7.19	-37.8	0.597
	8/27/2009	22.7	7.71	13.6	0.54

Notes:
(µS): Units of Conductivity (micro Siemens)

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-2S	5/22/1997	12.7	6.93	-7.0	550
	11/14/1997	15.9	7.00	36.5	932
	5/19/1998	14.3	7.34	-15.0	472
	11/5/1998	16.0	6.91	2.0	750
	5/25/1999	13.6	6.50	17.1	700
	11/18/1999	13.7	7.13	-5.8	803
	6/28/2000	17.5	7.39	-39.0	700
	11/15/2000	11.9	6.80	-9.3	600
	6/20/2001	17.8	7.29	-27.9	560
	11/29/2001	13.3	6.52	15.7	570
	6/26/2002	17.8	7.19	-13.5	570
	11/19/2002	13.2	7.15	-27.8	771
	6/24/2003	13.9	7.37	9.7	895
	11/17/2003	13.4	7.33	-28.2	762
	6/21/2004	12.8	6.99	0.7	47.1
	11/22/2004	12.9	7.04	1.7	672
	6/22/2005	13.6	7.07	-9.4	817
	11/22/2005	11.3	7.12	-9.1	805
	7/5/2006	14.5	7.15	-5.5	21.4
	11/27/2006	13.7	7.10	-8.0	32.6
	6/27/2007	15.4	7.03	-5.1	1034
	1/9/2008	12.5	7.14	-94.8	1.1
	7/23/2008	14.6	7.00	-114.6	1.176
	2/20/2009	9.4	6.70	-110.7	1.135
	8/27/2009	17.3	7.17	-141.0	0.993

Notes:
(µS): Units of Conductivity (micro Siemens)

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-2D	5/22/1997	13.5	7.16	-22.5	320
	11/14/1997	13.8	7.47	1.6	502
	5/19/1998	15.7	7.32	-20.8	322
	11/5/1998	15.4	7.28	-19.3	330
	5/25/1999	14.9	6.76	1.4	340
	11/18/1999	12.7	7.91	-48.0	500
	6/28/2000	16.2	7.78	-58.3	370
	11/15/2001	12.1	7.58	-3.2	330
	6/20/2001	15.3	7.86	-60.8	540
	11/29/2001	11.3	6.83	-1.7	320
	6/26/2002	16.2	7.67	-37.8	390
	11/19/2002	12.3	7.47	-48.3	450
	6/24/2003	14.1	7.83	-12.9	564
	11/17/2003	12.1	7.77	-53.5	483
	6/21/2004	13.7	7.66	-36.6	523
	11/22/2004	12.9	7.46	-21.9	412
	6/22/2005	15.7	7.27	-21.4	513
	11/22/2005	10.5	7.07	-6.4	537
	7/5/2006	13.5	7.13	-6.7	679
	11/27/2006	13.1	7.63	-37.6	37.8
	6/27/2007	15.4	7.21	-28.4	671
	1/9/2008	12.5	7.13	-109.4	0.68
	7/23/2008	14.4	7.31	-126.3	0.634
	2/20/2009	9.6	7.10	-93.5	1.084
	8/27/2009	18.6	7.77	9.5	0.528

Notes:
(µS): Units of Conductivity (micro Siemens)

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-3S	5/22/1997	13.2	7.18	-16.5	700
	11/14/1997	16.9	6.72	-5.8	1072
	5/19/1998	15.7	6.95	9.4	800
	11/5/1998	13.5	6.59	17.2	850
	5/25/1999	13.5	6.31	25.9	900
	11/18/2001	12.6	6.61	23.8	850
	6/28/2000	17.5	6.44	-37.1	900
	11/15/2001	12.4	7.10	-29.9	700
	6/20/2001	15.1	6.24	44.1	570
	11/29/2002	13.3	5.62	64.3	570
	6/26/2002	16.9	6.81	9.2	570
	11/19/2002	13.5	6.52	7.9	789
	6/24/2003	13.3	6.75	40.8	1054
	11/17/2003	13.1	7.65	-64.0	564
	6/21/2004	12.1	6.47	29.8	911
	11/22/2004	13.0	6.63	23.6	768
	6/22/2005	12.6	6.48	24.2	996
	11/22/2005	10.8	6.74	11.6	967
	7/5/2006	12.6	6.77	14.2	54.7
	11/27/2006	13.5	6.85	7.0	34.6
	6/27/2007	13.6	6.92	9.2	37
	1/9/2008	12.8	6.98	-21.5	1.31
	7/23/2008	15.5	6.45	-39.2	1.367
	2/20/2009	7.9	5.81	-13.8	1.397
	8/27/2009	19.0	6.57	-40.5	1.036

Notes:
(µS): Units of Conductivity (micro Siemens)

Village of Mamaroneck
Taylor Lane Compost Site
Summary of Field Parameters

Well ID	Date	Temp. (C)	pH (S.U.)	Eh (mv)	Specific Conductance (µS)
MW-3D	5/22/1997	14.0	6.94	-11.2	620
	11/14/1997	16.2	7.02	-46.2	1074
	5/19/1998	15.6	7.85	-30.8	725
	11/5/1998	13.3	7.01	-3.7	900
	5/25/1999	13.8	6.52	6.2	900
	11/18/1999	11.9	7.30	-12.4	800
	6/28/2000	17.2	7.24	-30.8	900
	11/15/2000	13.1	6.29	-36.6	362
	6/20/2001	15.8	7.76	-174.7	570
	11/29/2002	12.7	6.36	41.8	570
	6/26/2002	16.7	7.20	-15.5	570
	11/19/2002	12.5	7.11	-25.7	880
	6/24/2003	13.6	7.31	15.1	1039
	11/17/2003	11.9	7.46	-33.5	729
	6/21/2004	14.0	7.17	-8.3	31.9
	11/22/2004	12.3	7.15	-3.4	766
	6/22/2005	15.6	6.62	17.2	900
	11/22/2005	9.4	6.92	2.4	1005
	7/5/2006	9.4	6.92	2.4	1005
	11/27/2006	12.8	7.20	-13.2	46.2
	6/27/2007	15.6	7.17	-10.4	1126
	1/9/2008	12.5	7.18	14.9	1.28
	7/23/2008	14.6	6.71	-13.8	1.408
	2/20/2009	8.2	6.07	-41.8	1.377
	8/27/2009	17.7	6.76	183.6	1.031

Notes:
(µS): Units of Conductivity (micro Siemens)

ATTACHMENT B

Columbia Analytical Services

1 Mustard Street, Suite 250
Rochester, NY 14609

Date: September 17, 2009

Number of pages: 10

To:

Steve Goldberg
Shaw Environmental & Infrastructure, Inc.
92 North Avenue, Suite 106
New Rochelle, NY 10801

Phone: 914-633-9324

Fax:

From:

Michael Perry

Phone: 585-288-5380

Fax: 585-288-8475

RUSH REPORT

Submission #: R0904900

Project Reference: Taylor Lane - Mamaroneck PROJECT #124348

IMPORTANT NOTICE:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-1S
Lab Code: R0904900-001

Service Request: R0904900
Date Collected: 8/27/09 1145
Date Received: 8/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 19:38
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 19:38
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 19:38
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 19:38
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:03
Zinc, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 19:38

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-2S
Lab Code: R0904900-002

Service Request: R0904900
Date Collected: 8/27/09 1030
Date Received: 8/28/09

Units: µg/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1,2-Trichloroethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1-Dichloroethene (1,1-DCE)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1-Dichloropropene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2,3-Trichlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2,3-Trichloropropane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2,4-Trichlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2,4-Trimethylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2-Dibromo-3-chloropropane (DBCP)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2-Dibromoethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2-Dichlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2-Dichloroethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,3,5-Trimethylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,3-Dichlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,3-Dichloropropane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,4-Dichlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
2,2-Dichloropropane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
2-Chlorotoluene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
4-Chlorotoluene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
p-Isopropyltoluene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Benzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Bromobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Bromochloromethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Bromodichloromethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Bromoform	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Bromomethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Carbon Tetrachloride	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Chlorobenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Chloroethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Chloroform	ND	U	0.50	1	NA	9/3/09 15:21		168915	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-2S
Lab Code: R0904900-002

Service Request: R0904900
Date Collected: 8/27/09 1030
Date Received: 8/28/09

Units: µg/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Chloromethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Dibromochloromethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Dibromomethane	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Dichlorodifluoromethane (CFC 12)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Methylene Chloride	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Ethylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Hexachlorobutadiene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Isopropylbenzene (Cumene)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Methyl tert-Butyl Ether	**15**		0.50	1	NA	9/3/09 15:21		168915	
Naphthalene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Styrene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Tetrachloroethene (PCE)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Toluene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Trichloroethene (TCE)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Trichlorofluoromethane (CFC 11)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
Vinyl Chloride	ND	U	0.50	1	NA	9/3/09 15:21		168915	
cis-1,2-Dichloroethene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
cis-1,3-Dichloropropene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
m,p-Xylenes	ND	U	1.0	1	NA	9/3/09 15:21		168915	
n-Butylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
n-Propylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
o-Xylene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
sec-Butylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
tert-Butylbenzene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
trans-1,2-Dichloroethene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
trans-1,3-Dichloropropene	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,1-Dichloroethane (SPCC)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
1,2-Dichloropropane (CCC)	ND	U	0.50	1	NA	9/3/09 15:21		168915	
2-Methyl-2-propanol (tert-Butyl Alcohol)	**50**		20	1	NA	9/3/09 15:21		168915	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-2S
Lab Code: R0904900-002

Service Request: R0904900
Date Collected: 8/27/09 1030
Date Received: 8/28/09

Units: Percent
Basis: NA

Purgeable Organic Compounds by GC/MS

Analytical Method: 524.2

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
1,2-Dichlorobenzene-d4	105	70-130	9/3/09 15:21		
4-Bromofluorobenzene	92	70-130	9/3/09 15:21		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Service Request: R0904900
Date Collected: 8/27/09 1030
Date Received: 8/28/09

Sample Name: MW-2S
Lab Code: R0904900-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 20:18
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:18
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:18
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:18
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:09
Zinc, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:18

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Shaw Environmental & Infrastructure, Inc.	**Service Request:**	R0904900
Project:	Taylor Lane - Mamaroneck/124348	**Date Collected:**	8/27/09 0950
Sample Matrix:	Water	**Date Received:**	8/28/09
Sample Name:	MW-3S		
Lab Code:	R0904900-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 20:24
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:24
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:24
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:24
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:43
Zinc, Total	200.7	**28**		µg/L	20	1	9/ 2/09	9/9/09 20:24

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-1D
Lab Code: R0904900-004

Service Request: R0904900
Date Collected: 8/27/09 1220
Date Received: 8/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 20:30
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:30
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:30
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:30
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:45
Zinc, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-2D
Lab Code: R0904900-005

Service Request: R0904900
Date Collected: 8/27/09 1120
Date Received: 8/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 20:36
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:36
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:36
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:36
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:47
Zinc, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: Taylor Lane - Mamaroneck/124348
Sample Matrix: Water

Sample Name: MW-3D
Lab Code: R0904900-006

Service Request: R0904900
Date Collected: 8/27/09 0900
Date Received: 8/28/09

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Arsenic, Total	200.7	ND	U	µg/L	10	1	9/ 2/09	9/9/09 20:41
Cadmium, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:41
Copper, Total	200.7	ND	U	µg/L	20	1	9/ 2/09	9/9/09 20:41
Lead, Total	200.7	ND	U	µg/L	5.0	1	9/ 2/09	9/9/09 20:41
Mercury, Total	245.1	ND	U	µg/L	0.30	1	9/ 1/09	9/1/09 15:49
Zinc, Total	200.7	**38**		µg/L	20	1	9/ 2/09	9/9/09 20:41

Comments:

ATTACHMENT C

TAYLOR LANE, MAMARONECK - FIELD DATA - 08.27.2009

Gas Vent's Sampling Data by GEM 2000						
GV #	PID (ppm)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Remarks
1	0	0.1	1.6	18.6	79.7	
2	0	0.7	1.9	20.1	77.3	
3	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.
4	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.
5	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.
6	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.
7	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.
8	-	-	-	-	-	Excessive weed growth prohibited access to gas vent.

Bar Hole Sampling Data by GEM 2000						
Location	PID (ppm)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Remarks
Along Taylor Lane:						
Near small gate	0	0.1	0.1	20.3	79.5	
Near MW-1	0	0.1	0.1	20.1	79.7	
Between MW1 & 2	0	0.4	0	20	79.6	
Between MW 2 & 3	0	0.2	0.1	20.1	79.6	
Corner of Taylor Ln-Shadow Ln	0	0.1	0.1	19.8	80	
Along Shadow Lane:						
1	0	0.2	0	19.7	80.1	
2	0	0.2	0.8	20.1	78.9	
3	0	0.1	0.5	19.9	79.5	
4	0	0.1	0.1	19.8	80	
Along Greenhaven Lane (NE Side)						
Weinstein's House	0	0.2	0.1	20.3	79.4	
Close to MW-9	0	0.2	0.7	19.1	80	
Markowitz House	0	0.1	0.6	19.3	80	