

TABLE 3-1
Groundwater Elevations for July 14, 2008
Patchogue Former MGP Site

WELL ID	TOTAL DEPTH OF WELL (ft. TIC)	TOP OF INNER CASING (ft. msl)	DEPTH TO WATER (ft. bgs)	WATER LEVEL ELEVATION (ft. msl)
MW-1	15.2	11.23	5.82	5.41
MW-2S	14.45	8.97	4.46	4.51
MW-2D	26.4	8.23	3.8	4.43
MW-3	10.6	5.39	2.36	3.03
MW-4S	12.2	7.74	4.96	2.78
MW-4D	26.65	7.57	4.71	2.86
MW-5	16.6	7.93	4.12	3.81
MW-6	21.8	8.08	3.75	4.33
MW-7S	12.39	8.21	4.47	3.74
MW-7D	28.26	8.09	4.29	3.80
MW-8S	10.13	4.86	0.96	3.90
MW-8D	25.23	4.77	0.75	4.02
MW-9S	10.26	4.47	1.37	3.10
MW-9D	23.48	4.66	1.43	3.23

ft. TIC - Feet from Top of Inner Casing

ft. bgs - Feet Below Ground Surface

ft. msl - Feet Mean Sea Level

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-21	PASB-21	PASB-21	PASB-22
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB21-0-0.2	PASB21-0-0.5	PASB22-0-0.2	
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-12	Z1355-13	Z1355-16	
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0068 U	0.0065 U	0.0065 U	
Acetone	500	2.2	0.05	0.11 UJ	0.11 UJ	0.11 UJ	
Ethyl Benzene	390	NC	1	0.0054 U	0.0051 U	0.0051 U	
m/p-Xylenes	500	0.26	1.6	0.012 U	0.012 U	0.012 U	
Methylene Chloride	500	12	0.05	0.021 J	0.02 J	0.016 U	
o-Xylene	500	0.26	1.6	0.0051 U	0.0048 U	0.0049 U	
Styrene	NC	NC	NC	0.0042 U	0.0039 U	0.004 U	
Tetrachloroethene	150	2	1.3	0.0083 UJ	0.0079 UJ	0.0079 U	
Toluene	500	36	0.7	0.0059 U	0.0056 U	0.0056 U	
Trichlorofluoromethane	NC	NC	NC	0.008 U	0.0076 U	0.0076 U	
Total VOCs				0.021	0.02	ND	
Total BTEX				ND	ND	ND	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-22	PASB-23	PASB-23
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB22-0-0.5	PASB23-0-0.2	PASB23-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-17	Z1355-20	Z1355-21
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0062 U	0.015 UJ	0.0067 U
Acetone	500	2.2	0.05	0.1 UJ	0.26 UJ	0.11 UJ
Ethyl Benzene	390	NC	1	0.0048 U	0.012 UJ	0.0053 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.028 UJ	0.012 U
Methylene Chloride	500	12	0.05	0.015 U	0.097 U	0.016 U
o-Xylene	500	0.26	1.6	0.0046 U	0.012 UJ	0.005 U
Styrene	NC	NC	NC	0.0037 U	0.0094 UJ	0.0041 U
Tetrachloroethene	150	2	1.3	0.0075 U	0.019 UJ	0.0082 U
Toluene	500	36	0.7	0.0053 U	0.013 UJ	0.0058 U
Trichlorofluoromethane	NC	NC	NC	0.0072 U	0.018 UJ	0.0078 U
Total VOCs				ND	0.097	0.002
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-24	PASB-24	PASB-24	PASB-25
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB24-0-0.2	PASB24-0-0.5	PASB25-0-0.2	
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-04	Z1384-06	Z1355-01	
Sampling Date	Public Health	Ecological	Groundwater	2/1/08	2/1/08	1/30/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0063 U	0.0067 U	0.006 U	0.006 U
Acetone	500	2.2	0.05	0.1 UJ	0.11 UJ	0.099 UJ	0.099 UJ
Ethyl Benzene	390	NC	1	0.0049 U	0.0053 U	0.0047 U	0.0047 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.012 U	0.011 U	0.011 U
Methylene Chloride	500	12	0.05	0.015 U	0.016 U	0.014 U	0.014 U
o-Xylene	500	0.26	1.6	0.0047 U	0.005 U	0.0044 U	0.0044 U
Styrene	NC	NC	NC	0.0038 U	0.0041 U	0.0036 U	0.0036 U
Tetrachloroethene	150	2	1.3	0.0077 U	0.0082 U	0.0072 UJ	0.0072 UJ
Toluene	500	36	0.7	0.0054 U	0.0058 U	0.0051 U	0.0051 U
Trichlorofluoromethane	NC	NC	NC	0.0073 U	0.0079 U	0.0069 U	0.0069 U
Total VOCs				ND	ND	ND	ND
Total BTEX				ND	ND	ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-26	PASB-26
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-0-0.5	PASB-26-0-0.2	PASB-26-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-02	Z1370-01	Z1370-02
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0058 U	0.0062 U	0.0062 U
Acetone	500	2.2	0.05	0.097 UJ	0.1 UJ	0.1 U
Ethyl Benzene	390	NC	1	0.0045 U	0.0049 U	0.0048 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.011 U
Methylene Chloride	500	12	0.05	0.014 U	0.015 U	0.015 U
o-Xylene	500	0.26	1.6	0.0043 U	0.0047 U	0.0046 U
Styrene	NC	NC	NC	0.0035 U	0.0038 U	0.0037 U
Tetrachloroethene	150	2	1.3	0.007 UJ	0.0076 U	0.0075 U
Toluene	500	36	0.7	0.005 U	0.0054 U	0.0053 U
Trichlorofluoromethane	NC	NC	NC	0.0068 U	0.0073 U	0.0072 U
Total VOCs				ND	ND	ND
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-27	PASB-27	PASB-27	PASB-28
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-27-0-0.2	PASB-27-0-0.5	PASB-28-0-0.2	
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-05	Z1370-06	Z1370-07	
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/31/08	
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	Soil
Units							
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0063 U	0.006 U	0.011 UJ	
Acetone	500	2.2	0.05	0.1 UJ	0.099 UJ	0.18 UJ	
Ethyl Benzene	390	NC	1	0.0049 U	0.0047 U	0.0084 UJ	
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.02 UJ	
Methylene Chloride	500	12	0.05	0.015 U	0.014 U	0.026 UJ	
o-Xylene	500	0.26	1.6	0.0047 U	0.0044 U	0.008 UJ	
Styrene	NC	NC	NC	0.0038 U	0.0036 U	0.0065 UJ	
Tetrachloroethene	150	2	1.3	0.0077 U	0.0072 U	0.013 UJ	
Toluene	500	36	0.7	0.0054 U	0.0051 U	0.0093 UJ	
Trichlorofluoromethane	NC	NC	NC	0.0073 U	0.0069 U	0.089 J	
Total VOCs				ND	ND	0.089	
Total BTEX				ND	ND	ND	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-28	PASB-29	PASB-29
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-28-0-0.5	PASB-29-0-0.2	PASB-29-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-08	Z1370-11	Z1370-12
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.012 UJ	0.0058 U	0.0066 U
Acetone	500	2.2	0.05	0.2 UJ	0.096 UJ	0.11 UJ
Ethyl Benzene	390	NC	1	0.0095 UJ	0.0045 U	0.0052 U
m/p-Xylenes	500	0.26	1.6	0.022 UJ	0.01 U	0.012 U
Methylene Chloride	500	12	0.05	0.029 UJ	0.014 U	0.016 U
o-Xylene	500	0.26	1.6	0.009 UJ	0.0043 U	0.005 U
Styrene	NC	NC	NC	0.0073 UJ	0.0035 U	0.004 U
Tetrachloroethene	150	2	1.3	0.015 UJ	0.007 U	0.0081 U
Toluene	500	36	0.7	0.01 UJ	0.005 U	0.0057 U
Trichlorofluoromethane	NC	NC	NC	0.058 J	0.0067 U	0.0078 U
Total VOCs				0.058	ND	ND
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-30	PASB-30	PASB-30	PASB-31
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-30-0-0.2	PASB-30-0-0.5	PASB-31-0-0.2	
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-15	Z1370-16	Z1341-09	
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/29/08	
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	
Units							
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0063 U	0.0057 U		R
Acetone	500	2.2	0.05	0.1 UJ	0.095 UJ	0.21 UJ	
Ethyl Benzene	390	NC	1	0.038	0.0044 U	0.01 UJ	
m/p-Xylenes	500	0.26	1.6	0.069	0.01 U	0.023 UJ	
Methylene Chloride	500	12	0.05	0.015 U	0.014 U	0.03 UJ	
o-Xylene	500	0.26	1.6	0.049	0.0042 U	0.0095 UJ	
Styrene	NC	NC	NC	0.03 J	0.0034 U	0.0078 UJ	
Tetrachloroethene	150	2	1.3	0.0076 U	0.0069 U	0.016 UJ	
Toluene	500	36	0.7	0.019 J	0.0049 U	0.011 UJ	
Trichlorofluoromethane	NC	NC	NC	0.0073 U	0.0066 U	0.015 UJ	
Total VOCs				0.205	ND	ND	
Total BTEX				0.175	ND	ND	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-32	PASB-32
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-10	Z1341-07	Z1341-08
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	R	R	R
Acetone	500	2.2	0.05	0.15 UJ	0.32 UJ	0.17 UJ
Ethyl Benzene	390	NC	1	0.0073 U	0.015 UJ	0.0078 U
m/p-Xylenes	500	0.26	1.6	0.017 U	0.034 UJ	0.018 U
Methylene Chloride	500	12	0.05	0.022 U	0.045 UJ	0.024 U
o-Xylene	500	0.26	1.6	0.0069 U	0.014 UJ	0.0074 U
Styrene	NC	NC	NC	0.0056 U	0.011 UJ	0.006 U
Tetrachloroethene	150	2	1.3	0.011 U	0.023 UJ	0.012 U
Toluene	500	36	0.7	0.008 U	0.016 UJ	0.0085 U
Trichlorofluoromethane	NC	NC	NC	0.011 U	0.022 UJ	0.012 U
Total VOCs				ND	ND	ND
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-32	PASB-33	PASB-33
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-32-0-2	PASB-33-0-0.2	PASB-33-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-01	Z1341-13	Z1341-14
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	R	R	R
Acetone	500	2.2	0.05	0.1 UJ	0.17 UJ	0.13 UJ
Ethyl Benzene	390	NC	1	0.0048 U	0.008 UJ	0.0062 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.019 UJ	0.015 U
Methylene Chloride	500	12	0.05	0.014 U	0.024 UJ	0.019 U
o-Xylene	500	0.26	1.6	0.0045 U	0.0076 UJ	0.0059 U
Styrene	NC	NC	NC	0.0037 U	0.0062 UJ	0.0048 U
Tetrachloroethene	150	2	1.3	0.0074 U	0.029 J	0.0097 U
Toluene	500	36	0.7	0.0052 U	0.0088 UJ	0.0069 U
Trichlorofluoromethane	NC	NC	NC	0.0071 U	0.012 UJ	0.0093 U
Total VOCs				ND	0.029	ND
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-40	PASB-40	PASB-42
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB40-30-35	PASB-42-0-0.2	
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-03	Z3645-04	
Sampling Date	Public Health	Ecological	Groundwater	Duplicate of	7/10/08	
Matrix	Commercial	Resources		PASB40-0-5	Soil	
Units				mg/Kg	mg/Kg	
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.007 U	0.0063 UJ	0.0053 U
Acetone	500	2.2	0.05	R	0.2 J	R
Ethyl Benzene	390	NC	1	0.0055 U	0.005 U	0.0041 U
m/p-Xylenes	500	0.26	1.6	0.013 U	0.012 U	0.0096 U
Methylene Chloride	500	12	0.05	0.017 U	0.015 U	0.013 U
o-Xylene	500	0.26	1.6	0.0052 U	0.0047 U	0.0039 U
Styrene	NC	NC	NC	0.0042 U	0.0038 U	0.0032 U
Tetrachloroethene	150	2	1.3	0.0085 U	0.0077 U	0.0064 U
Toluene	500	36	0.7	0.006 U	0.0054 U	0.0045 U
Trichlorofluoromethane	NC	NC	NC	0.0081 U	0.0074 U	0.0061 U
Total VOCs				ND	0.2	ND
Total BTEX				ND	ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-42	PASB-43	PASB-43
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-42-0-0.5	PASB-43-0-0.2	PASB-43-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-07	Z3645-08	Z3645-09
Sampling Date	Public Health	Ecological	Groundwater	7/10/08	7/10/08	7/10/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0054 U	0.0066 U	0.0056 U
Acetone	500	2.2	0.05	R	R	R
Ethyl Benzene	390	NC	1	0.0042 U	0.0052 U	0.0044 U
m/p-Xylenes	500	0.26	1.6	0.0098 U	0.012 U	0.01 U
Methylene Chloride	500	12	0.05	0.013 U	0.016 U	0.013 U
o-Xylene	500	0.26	1.6	0.004 U	0.0049 U	0.0041 U
Styrene	NC	NC	NC	0.0033 U	0.004 U	0.0034 U
Tetrachloroethene	150	2	1.3	0.0065 U	0.0081 U	0.0068 U
Toluene	500	36	0.7	0.0046 U	0.0057 U	0.0048 U
Trichlorofluoromethane	NC	NC	NC	0.0063 U	0.0077 U	0.039
Total VOCs				ND	ND	0.039
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-1
Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-46	PASB-46
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-46-0-0.2	PASB-46-0-0.5
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z3645-11	Z3645-12
Sampling Date	Commercial			7/10/08	7/10/08
Matrix				Soil	Soil
Units				mg/Kg	mg/Kg
COMPOUND					
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0065 U	0.0061 U
Acetone	500	2.2	0.05	R	R
Ethyl Benzene	390	NC	1	0.0051 U	0.0048 U
m/p-Xylenes	500	0.26	1.6	0.012 U	0.011 U
Methylene Chloride	500	12	0.05	0.015 U	0.015 U
o-Xylene	500	0.26	1.6	0.0048 U	0.0045 U
Styrene	NC	NC	NC	0.0039 U	0.0037 U
Tetrachloroethene	150	2	1.3	0.0078 U	0.0074 U
Toluene	500	36	0.7	0.0056 U	0.0053 U
Trichlorofluoromethane	NC	NC	NC	0.0075 U	0.0071 U
Total VOCs				ND	ND
Total BTEX				ND	ND

Notes:

U - Non-detected.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-10
Metals Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07
Sampling Date	Public Health	Ecological	Groundwater	2/1/08
Matrix	Commercial	Resources		SOIL
Units				mg/Kg
CONSTITUENT				
Aluminum	NC	NC	NC	676
Barium	400	433	820	2,760 J
Calcium	NC	NC	NC	336
Chromium	1500	41	NC	5,450 J
Cobalt	NC	NC	NC	0.442 J
Copper	270	50	1720	2,420
Iron	NC	NC	NC	1200
Lead	1000	63	450	5,030
Magnesium	NC	NC	NC	124
Manganese	10000	1600	2000	11.6
Nickel	310	30	130	0.517 J
Vanadium	NC	NC	NC	2,580 J
Zinc	10000	109	2480	5,670

Notes:

U - Non-detected.

J - Estimated.

NC - No criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-11
Mercury Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16	PASB-19	PASB-19
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10	PASB-19-2-4	PASB-19-6-10
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07	Z1341-15	Z1341-16
Sampling Date	Public Health	Ecological	Groundwater	2/1/08	1/29/08	1/29/08
Matrix	Commercial	Resources		SOIL	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
CONSTITUENT						
Mercury	2.8	0.18	0.73	0.004 U	0.072	0.019 J

Notes:

U - Non-detected.

J - Estimated.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-12
Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-1	MW-2D	MW-2S	MW-3	MW-4S	MW-4D
Sample ID	PA-GWMW1	PAGWMW2D	PAGWMW2S	PA-GWMW3	PAGWMW4S		
Lab Sample Number	Water Quality	Z1802-01	Z1802-04	Z1846-05	Z1802-08		
Sampling Date	Standards	3/3/08	3/3/08	3/4/08	3/3/08		
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater		
Units		ug/l	ug/l	ug/l	ug/l		ug/l
Volatile Organic Compounds							
Acetone	50	2.8 UJ	2.8 U	2.8 UJ	2.8 U		2.8 U
Benzene	1	0.29 U	0.29 U	0.29 U	0.29 U		0.29 U
Ethyl Benzene	5	0.34 U	0.34 U	0.34 U	1.8 J		0.34 U
Isopropylbenzene	5	0.19 U	0.19 U	0.19 U	0.19 U		0.19 U
m/p-Xylenes	5	0.66 U	0.66 U	0.66 U	1.6 J		0.66 U
Methyl tert-butyl Ether	10	0.22 UJ	0.22 U	0.22 UJ	0.22 U		1.2 J
o-Xylene	5	0.32 U	0.32 U	0.32 U	0.32 U		0.32 U
Styrene	5	0.22 U	0.22 U	0.22 U	0.22 U		0.22 U
Toluene	5	0.34 U	0.34 U	0.34 U	0.34 U		0.34 U
Trichloroethene	5	0.42 U	0.42 U	0.42 U	0.42 U		0.42 U
Total VOCs		ND	ND	ND	3.4		1.2
Total BTEX		ND	ND	ND	3.4		ND

Notes:

U - Non-detect.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-12
Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-5	MW-5	MW-6	MW-1	MW-2S	MW-2D
Sample ID	Water Quality	PAGWMW5	PAGWMW7	PAGWMW6	PAGWMW1	PAGWMW2S	PAGWMW2D
Lab Sample Number	Standards	Z1802-06	Z1802-07	Z1802-05	Z3688-02	Z3754-01	Z3754-02
Sampling Date	Class GA	3/3/08	Duplicate of	3/3/08	7/14/08	7/15/08	7/15/08
Matrix		Groundwater	PAGWMW5	Groundwater	Groundwater	Groundwater	Groundwater
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds							
Acetone	50	5.9 J	2.8 U	8.3 J	2.8 U	2.8 U	2.8 U
Benzene	1	46	45	12 J	0.29 U	0.29 U	0.29 U
Ethyl Benzene	5	390 JD	370 D	26	0.34 U	0.34 U	0.34 U
Isopropylbenzene	5	147	44	6.9	0.19 U	0.19 U	0.19 U
m/p-Xylenes	5	300 JD	250 D	19	0.66 U	0.66 U	0.66 U
Methyl tert-butyl Ether	10	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
o-Xylene	5	160 JD	140 D	9.1	0.32 U	0.32 U	0.32 U
Styrene	5	3.3 J	4.1 J	0.22 U	0.22 U	0.22 U	0.22 U
Toluene	5	120	120	2 J	0.34 U	0.34 U	0.34 U
Trichloroethene	5	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Total VOCs		1072.2	973.1	72.5	ND	ND	ND
Total BTEX		1016	925	57.3	ND	ND	ND

Notes:

U - Non-detect.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-12
Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S
Sample ID	PAGWMW3	PAGWMW4S	PAGWMW4D	PAGWMW5	PAGWMW6	PAGWMW7S
Lab Sample Number	Z3688-08	Z3688-03	Z3688-04	Z3754-03	Z3754-04	Z3790-03
Sampling Date	7/14/08	7/14/08	7/14/08	7/15/08	7/15/08	7/18/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds						
Acetone	2.8 U	2.8 U	2.8 U	20 J	38	16 J
Benzene	0.29 U	0.29 U	0.29 U	28	0.29 U	0.29 U
Ethyl Benzene	0.34 U	0.34 U	0.34 U	320 D	0.34 U	0.34 U
Isopropylbenzene	0.19 U	0.19 U	0.19 U	15	0.19 U	0.19 U
m/p-Xylenes	0.66 U	0.66 U	0.66 U	180 D	0.66 U	0.66 U
Methyl tert-butyl Ether	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
o-Xylene	0.32 U	0.32 U	0.32 U	110 D	0.32 U	0.32 U
Styrene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Toluene	0.34 U	0.34 U	0.34 U	40	0.34 U	0.34 U
Trichloroethene	5.1	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Total VOCs	5.1	ND	ND	713	38	16
Total BTEX	ND	ND	ND	678	ND	ND

Notes:

U - Non-detect.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-12
Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-7D	MW-8S	MW-8D	MW-9S	MW-9S	MW-9D
Sample ID	Water Quality	PAGWMW7D	PAGWMW8S	PAGWMW8D	PAGWMW9S	PAGWMW9S	PAGWMW9D
Lab Sample Number	Standards	Z3790-04	Z3790-05	Z3790-06	Z3790-07	Z3790-08	Z3790-09
Sampling Date	Class GA	7/18/08	7/18/08	7/18/08	7/18/08	Duplicate of	7/18/08
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	PAGWMW9S	Groundwater
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds							
Acetone	50	29	9.2 J	19 J	200	250	2.8 U
Benzene	1	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Ethyl Benzene	5	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Isopropylbenzene	5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
m/p-Xylenes	5	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Methyl tert-butyl Ether	10	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
o-Xylene	5	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Styrene	5	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Toluene	5	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Trichloroethene	5	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Total VOCs		29	9.2	19	200	250	ND
Total BTEX		ND	ND	ND	ND	ND	ND

Notes:

U - Non-detect.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-1	MW-2D	MW-2S	MW-3	MW-4S
Sample ID	PA-GWMW1	PAGWMW2D	PAGWMW2S	PA-GWMW3	PAGWMW4S
Lab Sample Number	Z1846-06	Z1802-01	Z1802-04	Z1846-05	Z1802-08
Sampling Date	3/4/08	3/3/08	3/3/08	3/4/08	3/3/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds					
1,1-Biphenyl	5	0.47 U	0.51 U	0.48 U	0.47 U
2,4-Dimethylphenol	50	0.52 U	0.56 U	0.54 U	0.53 U
2-Methylnaphthalene	-	0.43 U	0.46 U	0.44 U	0.43 U
3+4-Methylphenols	1**	0.4 U	0.43 U	0.41 U	0.4 U
Acenaphthene	20	0.49 U	0.53 U	0.51 U	0.49 U
Acenaphthylene	-	0.5 U	0.54 U	0.76 J	0.51 U
Acetophenone	-	0.51 U	0.56 U	0.53 U	0.52 U
Anthracene	50	0.47 U	0.51 U	0.48 U	0.47 U
Benzo(a)anthracene	0.002	0.53 U	0.57 U	0.55 U	0.54 U
Benzo(a)pyrene	ND	0.48 U	0.52 U	0.49 U	0.48 U
Benzo(b)fluoranthene	0.002	0.61 U	0.66 U	0.63 U	0.62 U
Benzo(g,h,i)perylene	-	0.63 U	0.68 U	0.65 U	0.64 U
Benzo(k)fluoranthene	0.002	0.55 U	0.59 U	0.57 U	0.56 U
bis(2-Ethylhexyl)phthalate	5	0.71 J	0.6 U	0.58 U	2.6
Carbazole	-	0.87 U	0.93 U	0.89 U	0.88 U
Chrysene	0.002	0.62 U	0.67 U	0.64 U	0.63 U
Dibenz(a,h)anthracene	-	0.85 U	0.91 U	0.87 U	0.86 U
Dibenzofuran	-	0.48 U	0.52 U	0.49 U	0.48 U
Fluoranthene	50	0.43 U	0.46 U	0.44 U	0.43 U
Fluorene	50	0.41 U	0.44 U	0.42 U	0.41 U
Indeno(1,2,3-cd)pyrene	0.002	0.5 U	0.54 U	0.52 U	0.51 U
Naphthalene	10	0.42 U	0.45 U	0.43 U	0.6 J
Phenanthrene	50	0.48 U	0.52 U	0.49 U	0.48 U
Phenol	1	0.13 U	0.14 U	0.14 U	0.13 U
Pyrene	50	0.6 U	0.65 U	0.62 U	0.61 U

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-1	MW-2D	MW-2S	MW-3	MW-4S
Sample ID	PA-GWMW1	PAGWMW2D	PAGWMW2S	PA-GWMW3	PAGWMW4S
Lab Sample Number	Z1846-06	Z1802-01	Z1802-04	Z1846-05	Z1802-08
Sampling Date	3/4/08	3/3/08	3/3/08	3/4/08	3/3/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds					
Total SVOCs	0.71	ND	ND	0.76	3.2
Total PAHs	ND	ND	ND	0.76	0.6
Total Carcinogenic PAHs	ND	ND	ND	ND	ND
Total Noncarcinogenic PAHs	ND	ND	ND	0.76	0.6

Notes:

- U - Non-detected.
- J - Estimated.
- B - Found in Blank.
- D - Diluted.
- R - Rejected.
- ND - Not detected.
- ** - Compared to 4-Methylphenol
- Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-4D	MW-5	MW-5	MW-5	MW-6	MW-1	MW-2S
Sample ID	Water Quality	PAGWMW4D	PAGWMW5	PAGWMW7	PAGWMW6	PAGWMW1	PAGWMW2S	
Lab Sample Number	Standards	Z1802-09	Z1802-06	Z1802-07	Z1802-05	Z3688-02	Z3754-01	
Sampling Date	Class GA	3/3/08	3/3/08	Duplicate of	3/3/08	7/14/08	7/15/08	
Matrix		Groundwater	Groundwater	PAGWMW5	Groundwater	Groundwater	Groundwater	
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Semi-Volatile Organic Compounds								
1,1-Biphenyl	5	0.5 U	35	37	12	0.47 U	0.46 U	
2,4-Dimethylphenol	50	0.55 U	12	9.6	0.55 U	0.52 U	0.51 U	
2-Methylnaphthalene	-	0.46 U	160 D	170 D	27	0.43 U	0.42 U	
3+4-Methylphenols	1**	R	0.62 J	0.63 J	0.42 U	0.4 U	0.39 U	
Acenaphthene	20	0.52 U	180 D	200 D	41	0.49 UJ	0.48 UJ	
Acenaphthylene	-	1.9 J	7	9.9	1.7 J	0.5 UJ	0.49 UJ	
Acetophenone	-	0.54 U	5.9 U	4.8 U	1.7 U	0.51 U	0.5 U	
Anthracene	50	0.5 U	29	44	12	0.47 UJ	0.46 U	
Benzo(a)anthracene	0.002	0.57 U	18	31	1.1 J	0.53 U	0.52 U	
Benzo(a)pyrene	ND	0.51 U	11	21	0.51 U	0.48 U	0.47 U	
Benzo(b)fluoranthene	0.002	0.65 U	12	22	0.65 U	0.61 U	0.6 U	
Benzo(g,h,i)perylene	-	0.67 U	6.2	9.9	0.67 U	0.63 U	0.62 U	
Benzo(k)fluoranthene	0.002	0.59 U	4.4	9.7	0.59 U	0.55 U	0.54 U	
bis(2-Ethylhexyl)phthalate	5	0.6 U	0.59 U	0.57 U	0.6 U	0.56 U	0.55 U	
Carbazole	-	0.92 U	5.6	6.4	0.92 U	0.87 UJ	0.85 U	
Chrysene	0.002	0.66 U	17	33	0.98 J	0.62 U	0.61 U	
Dibenz(a,h)anthracene	-	0.9 U	1.5 J	2.8 J	0.9 U	0.85 U	0.83 U	
Dibenzofuran	-	0.51 U	9.1	11	5.4	0.48 U	0.47 U	
Fluoranthene	50	0.64 J	42	62 D	9.4	0.43 U	0.42 U	
Fluorene	50	0.95 J	62	68 D	39	0.41 UJ	0.4 UJ	
Indeno(1,2,3-cd)pyrene	0.002	0.53 U	4.8 J	8.3	0.53 U	0.5 U	0.49 U	
Naphthalene	10	0.45 U	100 D	100 D	9	0.42 U	0.7 J	
Phenanthrene	50	0.51 U	63	90 D	62	0.48 UJ	0.47 UJ	
Phenol	1	R	4.3	4	0.14 U	0.13 U	0.13 U	
Pyrene	50	0.79 J	56	160 U	11	0.6 U	0.59 U	

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-4D	MW-5	MW-5	MW-6	MW-1	MW-2S
Sample ID	PAGWMW4D	PAGWMW5	PAGWMW7	PAGWMW6	PAGWMW1	PAGWMW2S
Lab Sample Number	Z1802-09	Z1802-06	Z1802-07	Z1802-05	Z3688-02	Z3754-01
Sampling Date	3/3/08	3/3/08	Duplicate of	3/3/08	7/14/08	7/15/08
Matrix	Groundwater	Groundwater	PAGWMW5	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds						
Total SVOCs	4.28	1840.52	2110.23	231.58	ND	0.7
Total PAHs	4.28	1773.9	2041.6	214.18	ND	0.7
Total Carcinogenic PAHs	ND	68.7	127.8	2.08	ND	ND
Total Noncarcinogenic PAHs	4.28	1705.2	1913.8	212.1	ND	0.7

Notes:

U - Non-detected.

J - Estimated.

B - Found in Blank.

D - Diluted.

R - Rejected.

ND - Not detected.

** - Compared to 4-Methylphenol

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-2D	MW-3	MW-4S	MW-4D
Sample ID	PAGWMW2D	PAGWMW3	PAGWMW4S	PAGWMW4D
Lab Sample Number	Z3754-02	Z3688-08	Z3790-02	Z3688-04
Sampling Date	7/15/08	7/14/08	7/18/08	7/14/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds				
1,1-Biphenyl	5	0.46 U	0.47 U	0.46 U
2,4-Dimethylphenol	50	0.51 U	0.53 U	0.51 U
2-Methylnaphthalene	-	0.42 U	2.3 J	0.42 U
3+4-Methylphenols	1**	0.39 U	0.4 U	0.39 U
Acenaphthene	20	0.48 UJ	0.49 UJ	0.48 UJ
Acenaphthylene	-	0.49 UJ	0.51 UJ	0.49 UJ
Acetophenone	-	0.5 U	0.52 U	0.5 U
Anthracene	50	0.46 U	0.47 U	0.46 UJ
Benzo(a)anthracene	0.002	0.52 U	0.54 U	0.52 U
Benzo(a)pyrene	ND	0.47 U	0.48 U	0.47 U
Benzo(b)fluoranthene	0.002	0.6 U	0.62 U	0.6 U
Benzo(g,h,i)perylene	-	0.62 U	0.64 U	0.62 U
Benzo(k)fluoranthene	0.002	0.54 U	0.56 U	0.54 U
bis(2-Ethylhexyl)phthalate	5	0.55 U	0.57 U	0.55 U
Carbazole	-	0.85 U	0.88 U	0.85 UJ
Chrysene	0.002	0.61 U	0.63 U	0.61 U
Dibenz(a,h)anthracene	-	0.83 U	0.86 U	0.83 U
Dibenzofuran	-	0.47 U	0.48 U	0.47 U
Fluoranthene	50	0.42 U	0.43 U	0.42 U
Fluorene	50	0.4 UJ	0.41 UJ	0.4 UJ
Indeno(1,2,3-cd)pyrene	0.002	0.49 U	0.51 U	0.49 U
Naphthalene	10	0.41 UJ	5.1 J	0.41 U
Phenanthrene	50	0.47 UJ	0.56 J	0.47 UJ
Phenol	1	0.13 U	0.13 U	0.13 U
Pyrene	50	0.59 U	0.61 U	0.59 U

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-2D	MW-3	MW-4S	MW-4D
Sample ID		PAGWMW2D	PAGWMW3	PAGWMW4S	PAGWMW4D
Lab Sample Number	Water Quality	Z3754-02	Z3688-08	Z3790-02	Z3688-04
Sampling Date	Standards	7/15/08	7/14/08	7/18/08	7/14/08
Matrix	Class GA	Groundwater	Groundwater	Groundwater	Groundwater
Units		ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds					
Total SVOCs		ND	ND	7.96	ND
Total PAHs		ND	ND	7.96	ND
Total Carcinogenic PAHs		ND	ND	ND	ND
Total Noncarcinogenic PAHs		ND	ND	7.96	ND

Notes:

U - Non-detect.

J - Estimated.

B - Found in Blank.

D - Diluted.

R - Rejected.

ND - Not detected.

** - Compared to 4-Methylphenol

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D
Sample ID	Water Quality	PAGWMW5	PAGWMW6	PAGWMW7S	PAGWMW7D	PAGWMW8S	PAGWMW8D
Lab Sample Number	Standards	7/15/08	7/15/08	7/18/08	7/18/08	7/18/08	7/18/08
Sampling Date	Class GA	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Matrix		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Units							
Semi-Volatile Organic Compounds							
1,1-Biphenyl	5	30	1.3 J	0.47 U	0.46 U	0.51 U	0.51 U
2,4-Dimethylphenol	50	0.53 U	0.52 U	0.53 U	0.51 U	0.57 U	0.57 U
2-Methylnaphthalene	-	130 D	2.9	0.43 UJ	0.47 J	0.47 UJ	0.47 UJ
3+4-Methylphenols	1**	0.41 U	0.4 U	0.4 U	0.39 U	0.43 U	0.43 U
Acenaphthene	20	160 DJ	2.4 J	0.49 UJ	0.48 UJ	0.53 UJ	0.53 UJ
Acenaphthylene	-	11 J	3.9 J	0.51 UJ	0.49 UJ	0.54 UJ	0.54 UJ
Acetophenone	-	2.3	0.51 U	0.52 U	0.5 U	0.56 U	0.56 U
Anthracene	50	56	17	0.47 U	0.46 U	0.51 U	0.51 U
Benzo(a)anthracene	0.002	28	11	0.54 U	0.52 U	0.58 U	0.58 U
Benzo(a)pyrene	ND	22	9.6	0.48 U	0.47 U	0.52 U	0.52 U
Benzo(b)fluoranthene	0.002	21	8.3	0.62 U	0.6 U	0.67 U	0.67 U
Benzo(g,h,i)perylene	-	14	5.5	0.64 U	0.62 U	0.69 U	0.69 U
Benzo(k)fluoranthene	0.002	8	2.7	0.56 U	0.54 U	0.6 U	0.6 U
bis(2-Ethylhexyl)phthalate	5	0.57 U	0.56 U	0.57 U	0.55 U	0.61 U	0.61 U
Carbazole	-	4.9 J	0.87 U	0.88 U	0.85 U	0.94 U	0.94 U
Chrysene	0.002	32	13	0.63 U	0.61 U	0.68 U	0.68 U
Dibenz(a,h)anthracene	-	2.7 J	1 J	0.86 U	0.83 U	0.92 U	0.92 U
Dibenzofuran	-	11	0.72 J	0.48 U	0.47 U	0.52 U	0.52 U
Fluoranthene	50	67 DJ	19	0.43 U	0.42 U	0.47 U	0.47 U
Fluorene	50	64 DJ	5.9 J	0.41 UJ	0.4 UJ	0.44 UJ	0.44 UJ
Indeno(1,2,3-cd)pyrene	0.002	11	4.4	0.51 U	0.49 U	0.54 U	0.54 U
Naphthalene	10	910 DJ	3.6 J	0.42 UJ	0.41 UJ	0.46 UJ	0.46 UJ
Phenanthrene	50	180 DJ	19 J	0.48 UJ	0.47 UJ	0.52 UJ	0.52 UJ
Phenol	1	0.14 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U
Pyrene	50	82 DJ	25	0.61 U	0.59 U	0.66 U	0.66 U

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D
Sample ID	PAGWMW5	PAGWMW6	PAGWMW7S	PAGWMW7D	PAGWMW8S	PAGWMW8D
Lab Sample Number	Z3754-03	Z3754-04	Z3790-03	Z3790-04	Z3790-05	Z3790-06
Sampling Date	7/15/08	7/15/08	7/18/08	7/18/08	7/18/08	7/18/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds						
Total SVOCs	1846.9	156.22	ND	0.47	ND	ND
Total PAHs	1798.7	154.2	ND	0.47	ND	ND
Total Carcinogenic PAHs	124.7	50	ND	ND	ND	ND
Total Noncarcinogenic PAHs	1674	104.2	ND	0.47	ND	ND

Notes:

U - Non-detected.

J - Estimated.

B - Found in Blank.

D - Diluted.

R - Rejected.

ND - Not detected.

** - Compared to 4-Methylphenol

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-9S	MW-9S	MW-9D
Sample ID	Water Quality	PAGWMW9S	PAGWMW19S	PAGWMW9D
Lab Sample Number	Standards	Z3790-07	Z3790-08	Z3790-09
Sampling Date	Class GA	7/18/08	Duplicate of	7/18/08
Matrix		Groundwater	PAGWMW9S	Groundwater
Units		ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds				
1,1-Biphenyl	5	0.48 U	0.61 U	0.46 U
2,4-Dimethylphenol	50	0.53 U	0.67 U	0.51 U
2-Methylnaphthalene	-	0.44 UJ	0.55 UJ	0.42 UJ
3+4-Methylphenols	1**	0.41 U	0.51 U	0.39 U
Acenaphthene	20	1.4 J	1.2 J	0.48 UJ
Acenaphthylene	-	0.51 UJ	0.64 UJ	0.49 UJ
Acetophenone	-	0.52 U	0.66 U	0.5 U
Anthracene	50	0.56 J	0.72 J	0.46 U
Benzo(a)anthracene	0.002	1 J	1.1 J	0.52 U
Benzo(a)pyrene	ND	0.74 J	0.8 J	0.47 U
Benzo(b)fluoranthene	0.002	0.66 J	0.79 U	0.6 U
Benzo(g,h,i)perylene	-	0.65 U	0.82 U	0.62 U
Benzo(k)fluoranthene	0.002	0.56 U	0.71 U	0.54 U
bis(2-Ethylhexyl)phthalate	5	0.57 U	0.72 U	0.55 U
Carbazole	-	0.89 U	1.1 U	0.85 U
Chrysene	0.002	0.95 U	0.93 J	0.61 U
Dibenz(a,h)anthracene	-	0.86 U	1.1 U	0.83 U
Dibenzofuran	-	0.49 U	0.62 U	0.47 U
Fluoranthene	50	2.2	3.1	0.42 U
Fluorene	50	0.44 J	0.53 UJ	0.4 UJ
Indeno(1,2,3-cd)pyrene	0.002	0.51 U	0.64 U	0.49 U
Naphthalene	10	0.43 UJ	0.54 UJ	0.41 UJ
Phenanthrene	50	0.96 J	1.2 J	0.47 UJ
Phenol	1	0.14 U	0.17 U	0.13 U
Pyrene	50	3.1	4	0.59 U

Table 4-13
Semi-Volatile Organic Compounds Detected in Groundwater
Patchogue Former MGP Site

Sample Location	NYSDEC	MW-9S	MW-9S	MW-9D
Sample ID	Water Quality	PAGWMMW9S	PAGWMMW19S	PAGWMMW9D
Lab Sample Number	Standards	Z3790-07	Z3790-08	Z3790-09
Sampling Date	Class GA	7/18/08	Duplicate of	7/18/08
Matrix		Groundwater	PAGWMMW9S	Groundwater
Units		ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds				
Total SVOCs		12.01	13.05	ND
Total PAHs		12.01	13.05	ND
Total Carcinogenic PAHs		3.35	2.83	ND
Total Noncarcinogenic PAHs		8.66	10.22	ND

Notes:

U - Non-detect.

J - Estimated.

B - Found in Blank.

D - Diluted.

R - Rejected.

ND - Not detected.

** - Compared to 4-Methylphenol

Shading indicates exceedance of criteria.

NYSDEC Surface Water and Groundwater Quality
Standards and Groundwater Effluent Limitations, Table
1: Water Quality Standards Surface Waters and
Groundwater, 2008.

**Table 4-14
Cyanide Detected in Groundwater
Patchogue Former MGP Site**

Sample Location	MW-1	MW-2D	MW-2S	MW-3	MW-4S	MW-4D
Sample ID	PA-GWMW1	PAGWMW2D	PAGWMW2S	PA-GWMW3	PAGWMW4S	PAGWMW4D
Lab Sample Number	Z1846-06	Z1802-01	Z1802-04	Z1846-05	Z1802-08	Z1802-09
Sampling Date	3/4/08	3/3/08	3/3/08	3/4/08	3/3/08	3/3/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

Note:

U - Non-detect.

R - Rejected.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-14
Cyanide Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-5	MW-5	MW-6	MW-2S	MW-2D	MW-2D
Sample ID	PAGWMW5	PAGWMW7	PAGWMW6	PAGWMW2S	PAGWMW2D	PAGWMW3
Lab Sample Number	Z1802-06	Z1802-07	Z1802-05	Z3754-01	Z3754-02	Z3688-08
Sampling Date	3/3/08	Duplicate of	3/3/08	7/15/08	7/15/08	7/14/08
Matrix	Groundwater	PAGWMW5	Groundwater	Groundwater	Groundwater	Groundwater
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Cyanide	0.2	0.01 U	0.01 U	R	R	0.01 U

Note:

U - Non-detected.

R - Rejected.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-14
Cyanide Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D
Sample ID	PAGWMW4S	PAGWMW4D	PAGWMW5	PAGWMW6	PAGWMW7S	PAGWMW7D
Lab Sample Number	Z3688-03	Z3688-04	Z3754-03	Z3754-04	Z3790-03	Z3790-04
Sampling Date	7/14/08	7/14/08	7/15/08	7/15/08	7/18/08	7/18/08
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Cyanide	0.01 U	0.01 U	0.056 J		0.012	0.01 U

Note:

U - Non-detected.

R - Rejected.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-14
Cyanide Detected in Groundwater
Patchogue Former MGP Site

Sample Location	MW-8S	MW-8D	MW-9S	MW-9S	MW-9D
Sample ID	PAGWMW8S	PAGWMW8D	PAGWMW9S	PAGWMW9S	PAGWMW9D
Lab Sample Number	Z3790-05	Z3790-06	Z3790-07	Z3790-08	Z3790-09
Sampling Date	7/18/08	7/18/08	7/18/08	Duplicate of	7/18/08
Matrix	Groundwater	Groundwater	Groundwater	PAGWMW9S	Groundwater
Units	mg/l	mg/l	mg/l	mg/l	mg/l
Cyanide	0.2	0.01 U	0.01 U	0.01 U	0.015

Note:

U - Non-detect.

R - Rejected.

NYSDEC Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Table 1: Water Quality Standards Surface Waters and Groundwater, 2008.

Table 4-15
BTEX Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location	SED-1	SED-2	SED-3	SED-4	SED-4	SED-4	SED-5	SED-6	SED-7
Sample ID	PASED1	PASED2	PASED3	PASED4	PASED4	PASED11	PASED5	PASED6	PASED7
Lab Sample Number	Z1465-02	Z1465-01	Z1436-05	Z1436-03	Z1436-04	Z1436-04	Z1465-03	Z1465-04	Z1436-02
Sampling Date	2/7/08	2/7/08	2/6/08	2/6/08	Duplicate of	Duplicate of	2/7/08	2/7/08	2/6/08
Matrix	Sediment	Sediment	Sediment	Sediment	PASED4	PASED4	Sediment	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND									
Benzene	0.0044 U	0.0043 U	0.0048 U	0.0043 U	0.0044 U	0.0044 U	0.0048 U	0.0045 U	0.0049 U
Ethyl Benzene	0.0049 U	0.0047 U	0.0054 U	0.0048 U	0.0049 U	0.0049 U	0.0053 U	0.005 U	0.0054 U
m/p-Xylenes	0.011 U	0.011 U	0.012 U	0.011 U	0.011 U	0.011 U	0.012 U	0.012 U	0.013 U
o-Xylene	0.0047 U	0.0045 U	0.0051 U	0.0045 U	0.0047 U	0.0047 U	0.005 U	0.0047 U	0.0052 U
Toluene	0.0054 U	0.0052 U	0.0059 U	0.0053 U	0.0054 U	0.0054 U	0.0058 U	0.0054 U	0.006 U
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

ND - Not detected.

Criteria based on 1% TOC for most stringent value presented in Sediment Guidance.

NYSDEC Division of Fish, Wildlife, and Marine Resources. Technical Guidance for Screening Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-15
BTEX Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location	SED-8	SED-9	SED-10
Sample ID	PASED8	PASED9	PASED10
Lab Sample Number	Z1436-01	Z1465-05	Z1436-06
Sampling Date	2/6/08	2/7/08	2/6/08
Matrix	Sediment	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg
COMPOUND			
Benzene	0.006	0.0051 U	0.015 UJ
Ethyl Benzene	0.24	0.0065 U	0.017 UJ
m/p-Xylenes	0.92	0.015 U	0.038 UJ
o-Xylene	0.92	0.0062 U	0.016 UJ
Toluene	0.49	0.0071 U	0.018 UJ
Total BTEX	NC	ND	ND

Notes:

U - Non-detected.

J - Estimated.

ND - Not detected.

Criteria based on 1% TOC for most stringent value presented in Sediment Guidance.

NYSDEC Division of Fish, Wildlife, and Marine Resources. Technical Guidance for Screening Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-16
PAH Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location	SED-1	SED-2	SED-3	SED-4	SED-4	SED-5	SED-6
Sample ID	PASED1	PASED2	PASED3	PASED4	PASED11	PASED5	PASED6
Lab Sample Number	Z1465-02	Z1465-01	Z1436-05	Z1436-03	Z1436-04	Z1465-03	Z1465-04
Sampling Date	2/7/08	2/7/08	2/6/08	2/6/08	Duplicate of	2/7/08	2/7/08
Matrix	Sediment	Sediment	Sediment	Sediment	PASED4	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Acenaphthene	0.052 U	0.052 U	0.049 U	0.0087 U	0.044 U	2.5 J	0.053 U
Acenaphthylene	0.035 U	0.035 U	0.56 J	0.0059 U	0.03 U	0.31 J	0.036 U
Anthracene	0.081 U	0.081 U	1.6 J	0.078 J	0.068 U	5.2	0.083 U
Benzo(a)anthracene	0.058 U	0.058 U	6.8	0.026 J	0.62 J	1.1	0.56 J
Benzo(a)pyrene	0.071 U	0.071 U	5.5 J	0.023 J	0.59 J	8.1	0.48 J
Benzo(b)fluoranthene	0.17 U	0.17 U	9.9 J	0.038 J	0.86 J	9.6	0.64 J
Benzo(g,h,i)perylene	0.17 U	0.17 U	1.9 J	0.097 J	0.36 J	5.9	3.3 J
Benzo(k)fluoranthene	0.11 U	0.11 U	2.4 J	0.13 J	0.34 J	3.4	0.11 U
Chrysene	0.045 U	0.045 U	6.7	0.038 J	0.84 J	12	0.56 J
Dibenz(a,h)anthracene	0.18 U	0.18 U	0.63 J	0.03 U	0.15 U	1.2 J	0.18 U
Fluoranthene	0.37 J	0.058 U	15 D	0.65	1.9 J	26 D	1.3 J
Fluorene	0.065 U	0.065 U	0.3 J	0.011 U	0.055 U	3.2	0.066 U
Indeno(1,2,3-cd)pyrene	0.061 U	0.061 U	1.4 J	0.088 J	0.31 J	5.7	0.38 J
Naphthalene	0.058 U	0.058 U	0.055 U	0.0097 U	0.049 U	1.6 J	0.059 U
Phenanthrene	0.075 U	0.075 U	8.2	0.41	1.1 J	19	0.81 J
Pyrene	0.38 J	0.052 U	17	0.69	1.4 J	25 D	1.2 J
Total PAHs	0.75	ND	77.89	3.343	8.32	139.71	9.23
Total Carcinogenic PAHs	ND	ND	33.33	1.418	3.56	51	2.62
Total Non-Carcinogenic PAHs	0.75	ND	44.56	1.925	4.76	88.71	6.61

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

Criteria based on 1% TOC for most stringent

value presented in Sediment Guidance.

NYSDEC Division of Fish, Wildlife, and Marine

Resources. Technical Guidance for Screening

Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-16
PAH Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location	SED-7	SED-8	SED-9	SED-10
Sample ID	PASED7	PASED8	PASED9	PASED10
Lab Sample Number	Z1436-02	Z1436-01	Z1465-05	Z1436-06
Sampling Date	2/6/08	2/6/08	2/7/08	2/6/08
Matrix	Sediment	Sediment	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND				
Acenaphthene	1.4	0.058 U	0.06 U	0.03 UJ
Acenaphthylene	NC	1.1 J	0.04 U	0.02 UJ
Anthracene	1.07	0.58 J	0.3 J	0.046 UJ
Benzo(a)anthracene	0.12	4.5	1.1 J	0.033 UJ
Benzo(a)pyrene	0.013	3.7	1.2 J	0.041 UJ
Benzo(b)fluoranthene	0.013	3.4	1.3 J	0.099 UJ
Benzo(g,h,i)perylene	NC	2.8 J	0.72 J	0.099 UJ
Benzo(k)fluoranthene	0.013	1.1 J	0.3 J	0.063 UJ
Chrysene	0.013	4	1.1 J	0.026 UJ
Dibenz(a,h)anthracene	NC	0.033 UJ	0.2 U	0.1 UJ
Fluoranthene	10.2	3.8 D	2.3 J	0.033 UJ
Fluorene	0.08	0.16 UJ	0.073 U	0.037 UJ
Indeno(1,2,3-cd)pyrene	0.013	0.092 UJ	2.3 J	0.035 UJ
Naphthalene	0.3	0.089 J	0.065 U	0.033 UJ
Phenanthrene	1.2	3.7 D	0.62 J	0.043 UJ
Pyrene	9.61	4.8 D	2.4 J	0.03 UJ
Total PAHs		18.191	38.8	ND
Total Carcinogenic PAHs		2.712	19	ND
Total Non-Carcinogenic PAHs		15.479	19.8	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

ND - Not detected.

Shading indicates exceedance of criteria.

Criteria based on 1% TOC for most stringent value presented in Sediment Guidance.

NYSDEC Division of Fish, Wildlife, and Marine Resources. Technical Guidance for Screening Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-17
Cyanide Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location	SED-1	SED-2	SED-3	SED-4	SED-4	SED-4	SED-5	SED-6	SED-7
Sample ID	PASED1	PASED2	PASED3	PASED4	PASED4	PASED11	PASED5	PASED6	PASED7
Lab Sample Number	Z1465-02	Z1465-01	Z1436-05	Z1436-03	Z1436-04	Z1436-04	Z1465-03	Z1465-04	Z1436-02
Sampling Date	2/7/08	2/7/08	2/6/08	02/06/08	Duplicate of	2/7/08	2/7/08	2/7/08	2/6/08
Matrix	Sediment	Sediment	Sediment	Sediment	PASED4	PASED4	Sediment	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND									
Cyanide	0.061 U	0.00061 U	0.00069 U	0.00061 U	0.00062 U	0.00062 U	0.00067 U	0.00062 U	0.00068 U

Notes:

U - Non-detected.

J - Estimated.

NC - No criteria.

NYSDEC Division of Fish, Wildlife, and Marine Resources. Technical Guidance for Screening Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-17
Cyanide Concentrations in Sediment Samples
Patchogue Former MGP Site

Sample Location		SED-8	SED-9	SED-10
Sample ID	NYSDEC	PASED8	PASED9	PASED10
Lab Sample Number	Most Stringent	Z1436-01	Z1465-05	Z1436-06
Sampling Date	Sediment	2/6/08	2/7/08	2/6/08
Matrix	Criteria	Sediment	Sediment	Sediment
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND				
Cyanide	NC	0.00082 U	0.0007 U	0.00212 UJ

Notes:

U - Non-detected.

J - Estimated.

NC - No criteria.

NYSDEC Division of Fish, Wildlife, and Marine Resources. Technical Guidance for Screening Contaminated Sediments, Tables 1 and 2, 1999.

Table 4-18
Volatile Organic Compounds Detected in Surface Water
Patchogue Former MGP Site

Sample Location	SW-1	SW-2	SW-3	SW-4	SW-5	SW-5
Sample ID	PASW1	PASW2	PASW3	PASW4	PASW5	PASW6
Lab Sample Number	Z3688-05	Z3666-05	Z3666-04	Z3666-03	Z3666-02	Z3666-01
Sampling Date	7/14/08	7/11/08	7/11/08	7/11/08	7/11/08	Duplicate of
Matrix	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	PASW5
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds						
Toluene	0.34 U	2.4 J	0.34 U	0.34 U	0.34 U	0.34 U
Total VOCs	ND	2.4	ND	ND	ND	ND
Total BTEX	ND	2.4	ND	ND	ND	ND

Notes:

U - Non-detect

J - Estimated

ND - Not detected

NYSDEC Surface Water and Groundwater
Quality Standards and Groundwater Effluent
Limitations, Table 1: Water Quality Standards
Surface Waters and Groundwater, 2008.

Table 4-19
Semi-Volatile Organic Compound Results for Surface Water
Patchogue Former MGP Site

Sample Location	SW-1	SW-2	SW-3	SW-4	SW-5	SW-5
Sample ID	PASW1	PASW2	PASW3	PASW4	PASW5	PASW6
Lab Sample Number	Z3688-05	Z3666-05	Z3666-04	Z3666-03	Z3666-02	Z3666-01
Sampling Date	7/14/08	7/11/08	7/11/08	7/11/08	7/11/08	Duplicate of
Matrix	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	PASW5
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Semi-Volatile Organic Compounds	ND	ND	ND	ND	ND	ND

Note:
ND - Not detected

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB21-0-0.2	PASB21-0-0.5	PASB22-0-0.2	PASB22-0-0.5	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1355-12	Z1355-13	Z1355-16	Z1355-17	
Sampling Date	Commercial			1/30/08	1/30/08	1/30/08	1/30/08	
Matrix				Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.067 U	0.13 U	0.13 U	0.06 U	
2-Methylnaphthalene	NC	NC	NC	0.064 U	0.12 U	0.12 U	0.057 U	
Acenaphthene	500	20	98	0.049 U	0.092 U	0.092 U	0.044 U	
Acenaphthylene	500	NC	107	0.033 U	0.062 U	0.062 U	0.029 U	
Acetophenone	NC	NC	NC	0.067 U	0.13 U	0.13 U	0.06 U	
Anthracene	500	NC	1000	0.7 J	0.14 U	0.14 U	0.068 U	
Benzaldehyde	NC	NC	NC	0.076 U	0.14 U	0.14 U	0.067 U	
Benzo(a)anthracene	5.6	NC	1	0.44 J	0.1 U	0.1 U	0.048 U	
Benzo(a)pyrene	1	2.6	22	0.42 J	0.12 U	0.12 U	0.059 U	
Benzo(b)fluoranthene	5.6	NC	1.7	0.53 J	0.3 U	0.31 U	0.22 J	
Benzo(g,h,i)perylene	500	NC	1	0.29 J	0.31 U	0.31 U	0.15 U	
Benzo(k)fluoranthene	56	NC	1.7	0.1 U	0.19 U	0.19 U	0.092 U	
bis(2-Chloroethyl)ether	NC	NC	NC	0.03 U	0.055 U	0.055 U	0.026 U	
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.4 J	0.57 J	0.95 J	0.51 J	
Butylbenzylphthalate	NC	NC	NC	0.42 J	0.27 U	0.27 U	0.13 U	
Caprolactam	NC	NC	NC	0.27 U	0.51 U	0.51 U	0.24 U	
Carbazole	NC	NC	NC	0.17 U	0.32 U	0.32 U	0.15 U	
Chrysene	56	NC	1	0.41 J	0.079 U	0.079 U	0.037 U	
Dibenz(a,h)anthracene	0.56	NC	1000	0.17 U	0.31 U	0.31 U	0.15 U	
Dibenzofuran	NC	NC	NC	0.07 U	0.13 U	0.13 U	0.062 U	
Fluoranthene	500	NC	1000	0.82 J	0.1 U	0.61 J	0.29 J	
Fluorene	500	30	386	0.061 U	0.11 U	0.11 U	0.054 U	
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.057 U	0.11 U	0.11 U	0.051 U	
Naphthalene	500	NC	12	0.23 J	0.1 U	0.1 U	0.049 U	
Phenanthrene	500	NC	1000	0.8 J	0.13 U	0.13 U	0.063 U	
Phenol	500	30	0.00033	0.063 U	0.12 U	0.12 U	0.056 U	

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB21-0-0.2	PASB21-0-0.5	PASB22-0-0.2	PASB22-0-0.5	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1355-12	Z1355-13	Z1355-16	Z1355-17	
Sampling Date	Commercial			1/30/08	1/30/08	1/30/08	1/30/08	
Matrix				Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Pyrene	500	NC	1000	1.1 J	0.092 U	0.66 J	0.36 J	
Total SVOCs				6.56	0.57	2.22	1.38	
Total PAHs				5.74	ND	1.27	0.87	
Total Carcinogenic PAHs				1.8	ND	ND	0.22	
Total Non-Carcinogenic PAHs				3.94	ND	1.27	0.65	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-23	PASB-23	PASB-24	PASB-24
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB23-0-0.2	PASB23-0-0.2	PASB23-0-0.5	PASB24-0-0.2	PASB24-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-20	Z1355-21	Z1355-21	Z1384-04	Z1384-06
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08	2/1/08	2/1/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.029 UJ	0.058 J	0.058 J	0.012 U	0.013 U
2-Methylnaphthalene	NC	NC	NC	0.13 J	0.19 J	0.19 J	0.012 U	0.012 U
Acenaphthene	500	20	98	0.1 J	0.75	0.75	0.0088 U	0.0095 U
Acenaphthylene	500	NC	107	0.21 J	0.098 J	0.098 J	0.006 U	0.0064 U
Acetophenone	NC	NC	NC	0.24 J	0.091 J	0.091 J	0.012 U	0.013 U
Anthracene	500	NC	1000	0.38 J	1.4	1.4	0.045 J	0.015 U
Benzaldehyde	NC	NC	NC	0.033 U	0.015 U	0.015 U	0.014 U	0.015 U
Benzo(a)anthracene	5.6	NC	1	0.94 J	2.3	2.3	0.12 J	0.1 J
Benzo(a)pyrene	1	2.6	22	0.74 J	2.2	2.2	0.093 J	0.092 J
Benzo(b)fluoranthene	5.6	NC	1.7	1.1 J	2.6	2.6	0.16 J	0.13 J
Benzo(g,h,i)perylene	500	NC	1	0.68 J	1.3	1.3	0.053 J	0.051 J
Benzo(k)fluoranthene	56	NC	1.7	0.38 J	0.67	0.67	0.056 J	0.051 J
bis(2-Chloroethyl)ether	NC	NC	NC	0.013 U	0.0057 U	0.0057 U	0.0053 U	0.0058 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.85 J	0.37 J	0.37 J	0.36 J	0.21 J
Butylbenzylphthalate	NC	NC	NC	0.79 J	0.22 J	0.22 J	0.026 U	0.028 U
Caprolactam	NC	NC	NC	0.12 U	0.052 U	0.052 U	0.049 U	0.053 U
Carbazole	NC	NC	NC	0.076 UJ	0.34 J	0.34 J	0.031 U	0.034 U
Chrysene	56	NC	1	0.95 J	2.2	2.2	0.15 J	0.12 J
Dibenz(a,h)anthracene	0.56	NC	1000	0.17 J	0.37 J	0.37 J	0.03 U	0.032 U
Dibenzofuran	NC	NC	NC	0.031 UJ	0.24 J	0.24 J	0.013 U	0.014 U
Fluoranthene	500	NC	1000	1.5 J	3.6 D	3.6 D	0.22 J	0.18 J
Fluorene	500	30	386	0.18 J	0.63	0.63	0.011 U	0.012 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.45 J	0.89	0.89	0.01 U	0.011 U
Naphthalene	500	NC	12	0.24 J	0.17 J	0.17 J	0.0099 U	0.011 U
Phenanthrene	500	NC	1000	1.3 J	5.3 D	5.3 D	0.17 J	0.11 J
Phenol	500	30	0.00033	0.028 U	0.012 U	0.012 U	0.011 U	0.012 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-23	PASB-23	PASB-24	PASB-24
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB23-0-0.2	PASB23-0-0.5	PASB24-0-0.2	PASB24-0-0.5	PASB24-0-0.5
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1355-20	Z1355-21	Z1384-04	Z1384-06	Z1384-06
Sampling Date	Commercial			1/30/08	1/30/08	2/1/08	2/1/08	2/1/08
Matrix				Soil	Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND								
Pyrene	500	NC	1000	2.3 J	4.9 D	0.28 J	0.21 J	0.21 J
Total SVOCs				13.63	30.887	1.707	1.254	1.254
Total PAHs				11.75	29.568	1.347	1.044	1.044
Total Carcinogenic PAHs				4.73	11.23	0.579	0.493	0.493
Total Non-Carcinogenic PAHs				7.02	18.338	0.768	0.551	0.551

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-26	PASB-26
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-0-0.2	PASB25-0-0.2	PASB25-0-0.5	PASB-26-0-0.2	PASB-26-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-01	Z1355-01	Z1355-02	Z1370-01	Z1370-02
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.012 U	0.012 U	0.011 U	0.12 U	0.12 U
2-Methylnaphthalene	NC	NC	NC	0.13 J	0.13 J	0.011 U	0.12 U	0.11 U
Acenaphthene	500	20	98	0.089 J	0.089 J	0.0081 U	0.088 U	0.086 U
Acenaphthylene	500	NC	107	0.0058 U	0.0058 U	0.0055 U	0.06 U	0.058 U
Acetophenone	NC	NC	NC	0.012 U	0.012 U	0.011 U	0.12 U	0.12 U
Anthracene	500	NC	1000	0.33 J	0.33 J	0.013 U	0.14 U	0.13 U
Benzaldehyde	NC	NC	NC	0.013 U	0.013 U	0.013 U	0.14 U	0.13 U
Benzo(a)anthracene	5.6	NC	1	0.077 J	0.077 J	0.009 U	0.099 U	0.096 U
Benzo(a)pyrene	1	2.6	22	0.078 J	0.078 J	0.011 U	0.12 U	0.12 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.11 J	0.11 J	0.027 U	0.29 U	0.29 U
Benzo(g,h,i)perylene	500	NC	1	0.085 J	0.085 J	0.027 U	0.3 U	0.29 U
Benzo(k)fluoranthene	56	NC	1.7	0.041 J	0.041 J	0.017 U	0.19 U	0.18 U
bis(2-Chloroethyl)ether	NC	NC	NC	0.0051 U	0.0051 U	0.0049 U	0.053 U	0.052 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.41	0.41	0.8	1.1 J	0.84 J
Butylbenzylphthalate	NC	NC	NC	0.12 J	0.12 J	0.05 J	0.26 U	0.25 U
Caprolactam	NC	NC	NC	0.047 U	0.047 U	0.045 U	0.49 U	0.48 U
Carbazole	NC	NC	NC	0.03 U	0.03 U	0.029 U	0.31 U	0.3 U
Chrysene	56	NC	1	0.088 J	0.088 J	0.007 U	0.076 U	0.074 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.029 U	0.029 U	0.028 U	0.3 U	0.29 U
Dibenzofuran	NC	NC	NC	0.012 U	0.012 U	0.012 U	0.13 U	0.12 U
Fluoranthene	500	NC	1000	0.12 J	0.12 J	0.0091 U	0.099 U	0.44 J
Fluorene	500	30	386	0.051 J	0.051 J	0.01 U	0.11 U	0.11 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.055 J	0.055 J	0.0095 U	0.1 U	0.1 U
Naphthalene	500	NC	12	0.26 J	0.26 J	0.0091 U	0.099 U	0.95 J
Phenanthrene	500	NC	1000	0.18 J	0.18 J	0.012 U	0.13 U	0.91 J
Phenol	500	30	0.00033	0.011 U	0.011 U	0.01 U	0.11 U	0.11 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-26	PASB-26
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-0-0.2	PASB25-0-0.2	PASB25-0-0.5	PASB-26-0-0.2	PASB-26-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-01	Z1355-01	Z1355-02	Z1370-01	Z1370-02
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
Pyrene	500	NC	1000	0.18 J	0.039 J	0.089 U	0.55 J	0.55 J
Total SVOCs				2.404	0.889	1.1	3.69	3.69
Total PAHs				1.874	0.039	ND	2.85	2.85
Total Carcinogenic PAHs				0.449	ND	ND	ND	ND
Total Non-Carcinogenic PAHs				1.425	0.039	ND	2.85	2.85

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC		NYSDEC		PASB-27		PASB-27		PASB-28		PASB-28	
Sample ID		Soil Criteria		Soil Criteria		PASB-27-0-0.2		PASB-27-0-0.5		PASB-28-0-0.2		PASB-28-0-0.5	
Lab Sample Number		Protection of		Protection of		Z1370-05		Z1370-06		Z1370-07		Z1370-08	
Sampling Date		Public Health		Ecological		1/31/08		1/31/08		1/31/08		1/31/08	
Matrix		Commercial		Resources		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Units													
COMPOUND													
1,1-Biphenyl		NC	NC	NC		0.12 U	0.11 U			1 UJ		1.2 UJ	
2-Methylnaphthalene		NC	NC	NC		1.4 J	0.11 UJ			1 UJ		1.1 UJ	
Acenaphthene		500	20	98		0.087 U	0.084 U			0.77 UJ		0.85 UJ	
Acenaphthylene		500	NC	107		0.059 U	0.057 U			5 J		0.57 UJ	
Acetophenone		NC	NC	NC		0.12 U	0.12 U			4.5 J		1.2 UJ	
Anthracene		500	NC	1000		0.14 U	0.13 U			1.2 UJ		1.3 UJ	
Benzaldehyde		NC	NC	NC		0.13 U	0.13 U			1.2 U		1.3 U	
Benzo(a)anthracene		5.6	NC	1		0.097 UJ	0.093 UJ			16 J		7.4 J	
Benzo(a)pyrene		1	2.6	22		0.12 U	0.11 U			19 J		7.9 J	
Benzo(b)fluoranthene		5.6	NC	1.7		0.29 U	0.28 U			17 J		8.4 J	
Benzo(g,h,i)perylene		500	NC	1		0.29 U	0.28 U			14 J		6.8 J	
Benzo(k)fluoranthene		56	NC	1.7		0.18 U	0.18 U			7 J		1.8 UJ	
bis(2-Chloroethyl)ether		NC	NC	NC		0.052 U	0.051 U			0.46 U		0.51 U	
bis(2-Ethylhexyl)phthalate		NC	NC	NC		0.15 U	0.15 U			4.8 J		5.7 J	
Butylbenzylphthalate		NC	NC	NC		0.25 U	0.25 U			2.2 UJ		2.5 UJ	
Caprolactam		NC	NC	NC		0.48 U	0.46 U			4.3 U		4.7 U	
Carbazole		NC	NC	NC		0.31 U	0.3 U			2.7 UJ		3 UJ	
Chrysene		56	NC	1		0.075 U	0.072 U			18 J		8.4 J	
Dibenz(a,h)anthracene		0.56	NC	1000		0.29 U	0.28 U			2.6 UJ		2.9 UJ	
Dibenzofuran		NC	NC	NC		0.12 U	0.12 U			1.1 UJ		1.2 UJ	
Fluoranthene		500	NC	1000		0.5 J	0.094 U			18 J		8.6 J	
Fluorene		500	30	386		0.11 U	0.1 U			0.95 UJ		1.1 UJ	
Indeno(1,2,3-cd)pyrene		5.6	NC	8.2		0.1 U	0.098 U			11 J		5.1 J	
Naphthalene		500	NC	12		5.2	1.6 J			0.86 UJ		0.95 UJ	
Phenanthrene		500	NC	1000		0.97 J	0.12 U			4.1 J		1.2 UJ	
Phenol		500	30	0.00033		0.11 U	0.11 U			0.99 U		1.1 U	

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-27	PASB-27	PASB-28	PASB-28
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-27-0-0.2	PASB-27-0-0.5	PASB-28-0-0.2	PASB-28-0-0.5
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1370-05	Z1370-06	Z1370-07	Z1370-08
Sampling Date	Commercial			1/31/08	1/31/08	1/31/08	1/31/08
Matrix				Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Pyrene	500	NC	1000	0.65 J	0.084 U	39 J	16 J
Total SVOCs				8.72	1.6	177.4	74.3
Total PAHs				8.72	1.6	168.1	68.6
Total Carcinogenic PAHs				ND	ND	88	37.2
Total Non-Carcinogenic PAHs				8.72	1.6	80.1	31.4

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-29	PASB-29	PASB-30	PASB-30
Sample ID	Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-29-0-0.2	PASB-29-0-0.5	PASB-30-0-0.2	PASB-30-0-0.5
Lab Sample Number	Soil Criteria	Protection of	Protection of	Soil Criteria	Z1370-11	Z1370-12	Z1370-15	Z1370-16
Sampling Date	Protection of	Ecological	Ecological	Protection of	1/31/08	1/31/08	1/31/08	1/31/08
Matrix	Public Health	Resources	Resources	Groundwater	Soil	Soil	Soil	Soil
Units	Commercial				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND								
1,1-Biphenyl								
2-Methylnaphthalene	NC	NC	NC	NC	0.11 U	0.13 U	0.11 U	0.11 U
Acenaphthene	NC	NC	NC	NC	0.11 UJ	0.78 J	0.51 J	1.2 J
Acenaphthylene	500	20	98	98	0.082 U	0.093 U	0.64 J	0.78 J
Acetophenone	500	NC	107	107	0.055 U	0.063 U	1 J	1.1 J
Anthracene	NC	NC	NC	NC	0.11 U	0.13 U	0.12 U	0.11 U
Benzaldehyde	500	NC	1000	1000	0.13 U	0.14 U	0.94 J	1.7 J
Benzo(a)anthracene	NC	NC	NC	NC	0.13 U	0.14 U	0.13 U	0.12 U
Benzo(a)pyrene	5.6	NC	1	1	0.4 J	0.94 J	1 J	1.9 J
Benzo(b)fluoranthene	1	2.6	22	22	0.11 U	0.82 J	0.91 J	1.5 J
Benzo(g,h,i)perylene	5.6	NC	1.7	1.7	0.49 J	1.5 J	0.9 J	1.4 J
Benzo(k)fluoranthene	500	NC	1	1	0.27 U	0.96 J	0.61 J	0.94 J
bis(2-Chloroethyl)ether	56	NC	1.7	1.7	0.17 U	0.59 J	0.18 U	0.54 J
bis(2-Ethylhexyl)phthalate	NC	NC	NC	NC	0.049 U	0.056 U	0.051 U	0.048 U
Butylbenzylphthalate	NC	NC	NC	NC	1.4 J	1.6 J	0.15 U	0.8 J
Caprolactam	NC	NC	NC	NC	0.24 U	0.27 U	0.24 U	0.23 U
Carbazole	NC	NC	NC	NC	0.45 U	0.51 U	0.46 U	0.44 U
Chrysene	NC	NC	NC	NC	0.29 U	0.33 U	0.3 U	0.28 U
Dibenz(a,h)anthracene	56	NC	1	1	0.51 J	1.6 J	1.3 J	2.2 J
Dibenzofuran	0.56	NC	1000	1000	0.28 U	0.31 U	0.28 U	0.27 U
Fluoranthene	NC	NC	NC	NC	0.12 U	0.13 U	0.12 U	0.11 U
Fluorene	500	NC	1000	1000	0.61 J	1.9 J	1.9 J	3.6 J
Indeno(1,2,3-cd)pyrene	500	30	386	386	0.1 U	0.12 U	0.78 J	1.4 J
Naphthalene	5.6	NC	8.2	8.2	0.095 U	0.73 J	0.44 J	0.71 J
Phenanthrene	500	NC	12	12	0.091 U	1.2 J	0.8 J	0.93 J
Phenol	500	NC	1000	1000	0.12 U	1.3 J	2.9 J	5.6
	500	30	0.00033	0.00033	0.1 U	0.12 U	0.11 U	0.1 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-29	PASB-29	PASB-30	PASB-30
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-29-0-0.2	PASB-29-0-0.5	PASB-30-0-0.2	PASB-30-0-0.5
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1370-11	Z1370-12	Z1370-15	Z1370-16
Sampling Date	Commercial			1/31/08	1/31/08	1/31/08	1/31/08
Matrix				Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Pyrene	500	NC	1000	0.76 J	2.2 J	2.9 J	5.6
Total SVOCs				4.17	16.12	17.53	31.9
Total PAHs				2.77	14.52	17.53	31.1
Total Carcinogenic PAHs				1.4	6.18	4.55	8.25
Total Non-Carcinogenic PAHs				1.37	8.34	12.98	22.85

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-0-0.2	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5	PASB-32-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-09	Z1341-10	Z1341-07	Z1341-08	Z1341-08
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	1/29/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.49 UJ	0.36 U	0.036 UJ	0.019 U	0.019 U
2-Methylnaphthalene	NC	NC	NC	0.47 UJ	0.34 U	0.035 UJ	0.018 U	0.018 U
Acenaphthene	500	20	98	0.36 UJ	0.26 U	0.026 UJ	0.014 U	0.014 U
Acenaphthylene	500	NC	107	0.24 UJ	0.18 U	0.018 UJ	0.15 J	0.15 J
Acetophenone	NC	NC	NC	0.49 UJ	0.36 U	0.036 UJ	0.019 U	0.019 U
Anthracene	500	NC	1000	0.56 UJ	0.41 U	0.041 UJ	0.071 J	0.071 J
Benzaldehyde	NC	NC	NC	0.55 U	0.41 U	0.041 U	0.021 U	0.021 U
Benzo(a)anthracene	5.6	NC	1	0.4 UJ	0.29 U	0.28 J	0.45 J	0.45 J
Benzo(a)pyrene	1	2.6	22	0.49 UJ	0.36 U	0.31 J	0.41 J	0.41 J
Benzo(b)fluoranthene	5.6	NC	1.7	2.4 J	1.7 J	0.51 J	0.74	0.74
Benzo(g,h,i)perylene	500	NC	1	1.7 J	0.88 U	0.47 J	0.57 J	0.57 J
Benzo(k)fluoranthene	56	NC	1.7	0.76 UJ	0.56 U	0.22 J	0.22 J	0.22 J
bis(2-Chloroethyl)ether	NC	NC	NC	0.22 U	0.16 U	0.016 U	0.0083 U	0.0083 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.63 UJ	0.47 U	0.047 UJ	0.077 U	0.077 U
Butylbenzylphthalate	NC	NC	NC	1 UJ	0.77 U	0.077 UJ	0.04 U	0.04 U
Caprolactam	NC	NC	NC	2 U	1.5 U	0.15 U	0.076 U	0.076 U
Carbazole	NC	NC	NC	1.3 UJ	0.93 U	0.094 UJ	0.048 U	0.048 U
Chrysene	56	NC	1	1.9 J	0.23 U	0.37 J	0.52 J	0.52 J
Dibenz(a,h)anthracene	0.56	NC	1000	1.2 UJ	0.9 U	0.09 UJ	0.097 J	0.097 J
Dibenzofuran	NC	NC	NC	0.51 UJ	0.38 U	0.038 UJ	0.02 U	0.02 U
Fluoranthene	500	NC	1000	2.4 J	1.3 J	0.3 J	0.41 J	0.41 J
Fluorene	500	30	386	0.44 UJ	0.33 U	0.033 UJ	0.017 U	0.017 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.42 UJ	0.31 U	0.27 J	0.35 J	0.35 J
Naphthalene	500	NC	12	0.4 UJ	0.29 U	0.03 UJ	0.015 U	0.015 U
Phenanthrene	500	NC	1000	0.51 UJ	0.38 U	0.038 UJ	0.094 J	0.094 J
Phenol	500	30	0.00033	0.46 U	0.34 U	0.034 U	0.018 U	0.018 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-0-0.2	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5	PASB-32-0-0.5
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1341-09	Z1341-10	Z1341-07	Z1341-08	Z1341-08
Sampling Date	Commercial	Resources	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	1/29/08
Matrix				Soil	Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND								
Pyrene	500	NC	1000	3.3 J	1.9 J	0.52 J	0.71	
Total SVOCs				11.7	4.9	3.25	4.792	
Total PAHs				11.7	4.9	3.25	4.792	
Total Carcinogenic PAHs				4.3	1.7	1.96	2.787	
Total Non-Carcinogenic PAHs				7.4	3.2	1.29	2.005	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-32	PASB-33	PASB-33	PASB-33	PASB-33	PASB-40
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-32-0-2	PASB-33-0-0.2	PASB-33-0-0.5	PASB-33-0-0.5	PASB-33-0-0.5	PASB-40-0-5
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-01	Z1341-13	Z1341-14	Z1341-14	Z1341-14	Z3645-01
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	1/29/08	7/10/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND									
1,1-Biphenyl	NC	NC	NC	0.012 U	0.4 UJ	0.076 U	0.076 U	0.066 U	0.066 U
2-Methylnaphthalene	NC	NC	NC	0.011 U	0.38 UJ	0.073 U	0.073 U	0.063 U	0.063 U
Acenaphthene	500	20	98	0.0085 U	0.29 UJ	0.056 U	0.056 U	0.048 U	0.048 U
Acenaphthylene	500	NC	107	0.0058 U	4.7 J	2 J	2 J	0.033 U	0.033 U
Acetophenone	NC	NC	NC	0.012 U	0.4 UJ	0.077 U	0.077 U	0.066 U	0.066 U
Anthracene	500	NC	1000	0.013 U	9.1 J	4.5	4.5	0.075 U	0.075 U
Benzaldehyde	NC	NC	NC	0.013 U	0.45 U	0.086 U	0.086 U	0.075 U	0.075 U
Benzo(a)anthracene	5.6	NC	1	0.15 J	11 J	5.5	5.5	0.054 U	0.054 U
Benzo(a)pyrene	1	2.6	22	0.18 J	9.5 J	4.9	4.9	0.066 U	0.066 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.19 J	10 J	4.9	4.9	0.16 U	0.16 U
Benzo(g,h,i)perylene	500	NC	1	0.15 J	6.2 J	3.4	3.4	0.16 U	0.16 U
Benzo(k)fluoranthene	56	NC	1.7	0.082 J	3.1 J	1.8 J	1.8 J	0.1 U	0.1 U
bis(2-Chloroethyl)ether	NC	NC	NC	0.0051 U	0.18 U	0.034 U	0.034 U	0.029 U	0.029 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.066 U	1.5 UJ	0.35 U	0.35 U	0.24 J	0.24 J
Butylbenzylphthalate	NC	NC	NC	0.025 U	0.85 UJ	0.16 U	0.16 U	0.14 U	0.14 U
Caprolactam	NC	NC	NC	0.047 U	1.6 U	0.31 U	0.31 U	0.27 U	0.27 U
Carbazole	NC	NC	NC	0.03 U	1 UJ	0.2 U	0.2 U	0.17 U	0.17 U
Chrysene	56	NC	1	0.17 J	9.2 J	5.2	5.2	0.041 U	0.041 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.029 U	0.99 UJ	0.61 J	0.61 J	0.16 U	0.16 U
Dibenzofuran	NC	NC	NC	0.012 U	0.42 UJ	0.08 U	0.08 U	0.069 U	0.069 U
Fluoranthene	500	NC	1000	0.15 J	24	8.3	8.3	0.054 U	0.054 U
Fluorene	500	30	386	0.011 U	3.7 J	0.34 J	0.34 J	0.06 U	0.06 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.1 J	3.5 J	2.1 J	2.1 J	0.056 U	0.056 U
Naphthalene	500	NC	12	0.0095 U	0.33 UJ	0.48 J	0.48 J	0.054 U	0.054 U
Phenanthrene	500	NC	1000	0.05 J	21	2.7	2.7	0.069 U	0.069 U
Phenol	500	30	0.00033	0.011 U	0.37 U	0.072 U	0.072 U	0.062 U	0.062 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-32	PASB-33	PASB-33	PASB-33	PASB-33	PASB-40
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-32-0-2	PASB-33-0-0.2	PASB-33-0-0.5	PASB-33-0-0.5	PASB-33-0-0.5	PASB-40-0-5
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-01	Z1341-13	Z1341-14	Z1341-14	Z1341-14	Z3645-01
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	1/29/08	7/10/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND									
Pyrene	500	NC	1000	0.24 J	33	13		0.049 U	
Total SVOCs				1.462	148	59.73		0.24	
Total PAHs				1.462	148	59.73		ND	
Total Carcinogenic PAHs				0.872	46.3	25.01		ND	
Total Non-Carcinogenic PAHs				0.59	101.7	34.72		ND	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-40	PASB-42	PASB-42	PASB-42	PASB-43
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB40-30-35	PASB42-0-0.2	PASB42-0-0.2	PASB42-0-0.5	PASB43-0-0.2
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-03	Z3645-04	Z3645-04	Z3645-07	Z3645-08
Sampling Date	Public Health	Ecological	Groundwater	Duplicate of	7/10/08	7/10/08	7/10/08	7/10/08
Matrix	Commercial	Resources		PASB40-0-5	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.024 U	0.02 U	0.02 U	0.01 U	0.063 U
2-Methylnaphthalene	NC	NC	NC	0.023 U	0.019 U	0.019 U	0.0096 U	0.06 U
Acenaphthene	500	20	98	0.018 U	0.015 U	0.015 U	0.0074 U	0.046 U
Acenaphthylene	500	NC	107	0.012 U	0.15 J	0.15 J	0.099 J	0.031 U
Acetophenone	NC	NC	NC	0.025 U	0.02 U	0.02 U	0.01 U	0.064 U
Anthracene	500	NC	1000	0.028 U	0.11 J	0.11 J	0.053 J	0.072 U
Benzaldehyde	NC	NC	NC	0.028 U	0.023 U	0.023 U	0.011 U	0.072 U
Benzo(a)anthracene	5.6	NC	1	0.13 J	0.53 J	0.53 J	0.36	0.33 J
Benzo(a)pyrene	1	2.6	22	0.11 J	0.47 J	0.47 J	0.34	0.32 J
Benzo(b)fluoranthene	5.6	NC	1.7	0.12 J	0.82	0.82	0.54	0.42 J
Benzo(g,h,i)perylene	500	NC	1	0.06 U	0.49 J	0.49 J	0.36	0.26 J
Benzo(k)fluoranthene	56	NC	1.7	0.038 U	0.23 J	0.23 J	0.18 J	0.098 U
bis(2-Chloroethyl)ether	NC	NC	NC	0.011 U	0.0089 U	0.0089 U	0.0045 U	0.028 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.032 U	2.5	2.5	0.38	0.64 J
Butylbenzylphthalate	NC	NC	NC	0.052 U	10 D	10 D	0.16 J	1.3 J
Caprolactam	NC	NC	NC	0.099 U	0.082 U	0.082 U	0.041 U	0.26 U
Carbazole	NC	NC	NC	0.063 U	0.052 U	0.052 U	0.026 U	0.16 U
Chrysene	56	NC	1	0.13 J	0.7	0.7	0.43	0.41 J
Dibenz(a,h)anthracene	0.56	NC	1000	0.061 U	0.11 J	0.11 J	0.068 J	0.16 U
Dibenzofuran	NC	NC	NC	0.026 U	0.021 U	0.021 U	0.011 U	0.066 U
Fluoranthene	500	NC	1000	0.21 J	0.8	0.8	0.38	0.53 J
Fluorene	500	30	386	0.022 U	0.018 U	0.018 U	0.0092 U	0.058 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.021 U	0.4 J	0.4 J	0.3 J	0.22 J
Naphthalene	500	NC	12	0.02 U	0.016 U	0.016 U	0.0082 U	0.052 U
Phenanthrene	500	NC	1000	0.14 J	0.33 J	0.33 J	0.098 J	0.25 J
Phenol	500	30	0.00033	0.023 U	0.019 U	0.019 U	0.0095 U	0.059 U

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-40	PASB-42	PASB-42	PASB-42	PASB-43
Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB40-30-35	PASB42-0-0.2	PASB42-0-0.2	PASB42-0-0.5	PASB43-0-0.2
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z3645-03	Z3645-04	Z3645-04	Z3645-07	Z3645-08
Sampling Date	Protection of	Protection of	Protection of	Duplicate of	7/10/08	7/10/08	7/10/08	7/10/08
Matrix	Public Health	Ecological	Groundwater	PASB40-0-5	Soil	Soil	Soil	Soil
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND								
Pyrene	500	NC	1000	0.25 J	0.91	0.56	0.56	0.62 J
Total SVOCs				1.09	18.55	4.308	4.308	5.3
Total PAHs				1.09	6.05	3.768	3.768	3.36
Total Carcinogenic PAHs				0.49	3.26	2.218	2.218	1.7
Total Non-Carcinogenic PAHs				0.6	2.79	1.55	1.55	1.66

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-43	PASB-46	PASB-46
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB43-0-0.5	PASB46-0-0.2	PASB46-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-09	Z3645-11	Z3645-12
Sampling Date	Public Health	Ecological	Groundwater	7/10/08	7/10/08	7/10/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,1-Biphenyl	NC	NC	NC	0.022 U	0.012 U	0.012 U
2-Methylnaphthalene	NC	NC	NC	0.021 U	0.012 U	0.011 U
Acenaphthene	500	20	98	0.016 U	0.009 U	0.0087 U
Acenaphthylene	500	NC	107	0.011 U	0.047 J	0.065 J
Acetophenone	NC	NC	NC	0.022 U	0.012 U	0.012 U
Anthracene	500	NC	1000	0.025 U	0.053 J	0.071 J
Benzaldehyde	NC	NC	NC	0.025 U	0.014 UJ	1.6 DJ
Benzo(a)anthracene	5.6	NC	1	0.096 J	0.31 J	0.29 J
Benzo(a)pyrene	1	2.6	22	0.098 J	0.31 J	0.3 J
Benzo(b)fluoranthene	5.6	NC	1.7	0.14 J	0.4 J	0.38 J
Benzo(g,h,i)perylene	500	NC	1	0.094 J	0.23 J	0.25 J
Benzo(k)fluoranthene	56	NC	1.7	0.034 U	0.13 J	0.12 J
bis(2-Chloroethyl)ether	NC	NC	NC	0.0096 U	0.066 J	0.0053 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.25 J	0.14 J	0.078 J
Butylbenzylphthalate	NC	NC	NC	0.21 J	0.026 U	0.025 U
Caprolactam	NC	NC	NC	0.088 U	0.05 U	0.15 J
Carbazole	NC	NC	NC	0.056 U	0.032 U	0.031 U
Chrysene	56	NC	1	0.11 J	0.33 J	0.34 J
Dibenz(a,h)anthracene	0.56	NC	1000	0.054 U	0.048 J	0.054 J
Dibenzofuran	NC	NC	NC	0.023 U	0.013 U	0.012 U
Fluoranthene	500	NC	1000	0.12 J	0.47	0.43
Fluorene	500	30	386	0.02 U	0.011 U	0.011 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.076 J	0.16 J	0.21 J
Naphthalene	500	NC	12	0.018 U	0.01 U	0.0097 U
Phenanthrene	500	NC	1000	0.023 U	0.2 J	0.23 J
Phenol	500	30	0.00033	0.021 U	0.012 U	0.26 J

Table 4-2
Semi-Volatile Organic Compounds Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-43	PASB-46	PASB-46
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB43-0-0.5	PASB46-0-0.2	PASB46-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-09	Z3645-11	Z3645-12
Sampling Date	Public Health	Ecological	Groundwater	7/10/08	7/10/08	7/10/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
Pyrene						
Total SVOCs	500	NC	1000	0.15 J	0.58	0.5
Total PAHs				1.344	3.474	5.328
Total Carcinogenic PAHs				0.884	3.268	3.24
Total Non-Carcinogenic PAHs				0.52	1.688	1.694
				0.364	1.58	1.546

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b):

Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-20
Cyanide Detected in Surface Water
Patchogue Former MGP Site

Sample Location	SW-1	SW-2	SW-3	SW-4	SW-5	SW-5
Sample ID	PASW1	PASW2	PASW3	PASW4	PASW5	PASW6
Lab Sample Number	Z3688-05	Z3666-05	Z3666-04	Z3666-03	Z3666-02	Z3666-01
Sampling Date	7/14/08	7/11/08	7/11/08	7/11/08	7/11/08	Duplicate of
Matrix	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	PASW5
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

Notes:

U - Non-detected

NYSDEC Surface Water and
Groundwater Quality Standards and
Groundwater Effluent Limitations, Table
1: Water Quality Standards Surface
Waters and Groundwater, 2008.

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	SV-1	SV-6
Sample ID	Outdoor Air	Indoor Air	SV1-013108	PASV6
Lab Sample Number	Concentrations	Concentrations	Z1234-01	Z3667-01
Sampling Date	25th - 95th	25th - 95th	1/31/08	7/11/08
Matrix	Percentile Range	Percentile Range	Soil Vapor	Soil Vapor
Units	ug/m3	ug/m3	ppbv	ug/m3
COMPOUND				
1,1,1-Trichloroethane	<0.25 - 0.7	<0.25 - 6.9	0.5	0.022
1,1,2-Trichlorotrifluoroethane	<0.25 - 3.6	<0.25 - 3.4	0.13	0.026
1,1-Dichloroethene	<0.25	<0.25 - 0.7	0.120	0.024
1,2,4-Trichlorobenzene	<0.25 - 4.8	<0.25 - 6.3	0.180	0.035
1,2,4-Trimethylbenzene	<0.25 - 2.5	0.7 - 18	1.0	15
1,2-Dichloroethane	<0.25	<0.25	0.250	0.05
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.25 - 1.3	<0.25 - 1.2	0.110	0.022
1,3,5-Trimethylbenzene	<0.25 - 1	0.3 - 6.5	0.18	5.6
1,3-Dichlorobenzene	<0.25 - 0.7	<0.25 - 0.9	0.084	0.017
1,4 Dioxane	NC	NC	0.230	0.24
1,4-Dichlorobenzene	<0.25 - 0.8	<0.25 - 2.6	0.120	1
2,2,4-Trimethylpentane (Isocetane)	<0.25 - 2	<0.25 - 14	0.120	0.29
2-Butanone (Methyl ethyl ketone)	0.8 - 17	1.4 - 39	2.7	11
2-Chlorotoluene	NC	NC	0.190	0.038
3-Chloropropene (allyl chloride)	NC	NC	0.310	0.061
4-Ethyltoluene (p-Ethyltoluene)	NC	NC	0.075	3.7
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	<0.25 - 2.9	<0.25 - 5.3	3.0	1.3
Acetone (2-propanone)	3.4 - 58	9.9 - 140	22	68
Benzene	0.6 - 5.8	1.1 - 29	0.220	0.31
Bromoform	NC	NC	0.076	0.015
Carbon disulfide	NC	NC	0.076	0.18
Carbon tetrachloride	<0.25 - 1	<0.25 - 1.1	0.084	0.017
Chlorobenzene	<0.25	<0.25	0.130	0.026
Chloromethane (Methyl chloride)	<0.25 - 4.6	<0.25 - 5.2	0.120	0.26
Cyclohexane	<0.25 - 3	<0.25 - 19	9.4	32.36
Dichlorodifluoromethane	<0.25 - 11	<0.25 - 26	55	271.96
Ethyl Benzene	<0.25 - 1.9	0.4 - 13	0.09	3.7
			0.39	16.07

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	SV-1	SV-6
Sample ID	Outdoor Air	Indoor Air	SV1-013108	PASV6
Lab Sample Number	Concentrations	Concentrations	Z1234-01	Z3667-01
Sampling Date	25th - 95th	25th - 95th	1/31/08	7/11/08
Matrix	Percentile Range	Percentile Range	Soil Vapor	Soil Vapor
Units	ug/m3	ug/m3	ppbv	ug/m3
COMPOUND				
Heptane	<0.25 - 7.6	1 - 33	0.12	0.31
Hexane	<0.25 - 5.1	0.6 - 35	0.13	0.37
Methylene chloride	<0.25 - 2.9	0.3 - 45	3.0	0.16
MTBE (Methyl tert-butyl ether)	NC	<0.25 - 71	0.084	0.017
Styrene	<0.25 - 0.6	<0.25 - 2.3	0.310	0.55
tert-butyl alcohol	NC	NC	0.400	0.21
Tetrachloroethene	<0.25 - 1.6	<0.25 - 4.1	0.24	0.22
Tetrahydrofuran	<0.25 - 0.4	<0.25 - 9.4	0.42	1.3
Toluene	0.6 - 21	3.5 - 110	0.8	7.8
trans-1,3-Dichloropropene	<0.25	<0.25	0.280	0.057
Trichloroethene	<0.25 - 0.5	<0.25 - 0.8	0.2	0.041
Trichlorofluoromethane (Freon 11)	<0.25 - 6.1	1.1 - 30	0.6	0.29
Xylenes (m&p)	<0.25 - 3.1	0.5 - 21	1.1	13
Xylenes (o)	<0.25 - 2.5	0.4 - 13	0.120	6.5
			0.52	28.41

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NA - Not Analyzed

NC - No Criteria

Bold indicates exceedance of Outdoor Air Concentration, 95th Percentile

Shading indicates exceedance of Indoor Air Concentration, 95th Percentile

* - Only compared sample results for criteria for Indoor Air Concentration, 95th Percentile

** - Only compared sample results for criteria for Outdoor Air Concentration, 95th Percentile

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	SV-7	SV-8
Sample ID	Outdoor Air	Indoor Air	SV-07	SV8
Lab Sample Number	Concentrations	Concentrations	A2736-01	A5318-01
Sampling Date	25th - 95th	25th - 95th	5/12/09	11/25/09
Matrix	Percentile Range	Percentile Range	Soil Vapor	Soil Vapor
Units	ug/m3	ug/m3	ppbv	ppbv
			ug/m3	ug/m3
COMPOUND				
1,1,1-Trichloroethane	<0.25 - 0.7	<0.25 - 6.9	0.76	0.55
1,1,2-Trichlorotrifluoroethane	<0.25 - 3.6	<0.25 - 3.4	0.04	0.14
1,1-Dichloroethene	<0.25	<0.25 - 0.7	0.05	0.05
1,2,4-Trichlorobenzene	<0.25 - 4.8	<0.25 - 6.3	0.04	0.04
1,2,4-Trimethylbenzene	<0.25 - 2.5	0.7 - 18	0.1	2.4
1,2-Dichloroethane	<0.25	<0.25	0.07	0.07
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.25 - 1.3	<0.25 - 1.2	NA	0.04
1,3,5-Trimethylbenzene	<0.25 - 1	0.3 - 6.5	0.09	0.78
1,3-Dichlorobenzene	<0.25 - 0.7	<0.25 - 0.9	0.08	0.08
1,4 Dioxane	NC	NC	0.09	0.09
1,4-Dichlorobenzene	<0.25 - 0.8	<0.25 - 2.6	0.06	0.14
2,2,4-Trimethylpentane (Isocitane)	<0.25 - 2	<0.25 - 14	0.04	0.59
2-Butanone (Methyl ethyl ketone)	0.8 - 17	1.4 - 39	3.5	7.3
2-Chlorotoluene	NC	NC	0.1	0.1
3-Chloropropene (allyl chloride)	NC	NC	0.05	0.05
4-Ethyltoluene (p-Ethyltoluene)	NC	NC	0.08	0.87
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	<0.25 - 2.9	<0.25 - 5.3	0.06	1.3
Acetone (2-propanone)	3.4 - 58	9.9 - 140	19	37
Benzene	0.6 - 5.8	1.1 - 29	0.11	1.5
Bromoform	NC	NC	0.05	0.05
Carbon disulfide	NC	NC	0.14	0.76
Carbon tetrachloride	<0.25 - 1	<0.25 - 1.1	0.04	0.08
Chlorobenzene	<0.25	<0.25	0.09	0.09
Chloromethane (Methyl chloride)	<0.25 - 4.6	<0.25 - 5.2	1.5	0.06
Cyclohexane	<0.25 - 3	<0.25 - 19	0.08	0.98
Dichlorodifluoromethane	<0.25 - 11	<0.25 - 26	0.56	0.49
Ethyl Benzene	<0.25 - 1.9	0.4 - 13	0.08	2.8
			0.35	12

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	SV-7	SV-8
Sample ID	Outdoor Air	Indoor Air	SV-07	SV8
Lab Sample Number	Concentrations	Concentrations	A2736-01	A5318-01
Sampling Date	25th - 95th	25th - 95th	5/12/09	11/25/09
Matrix	Percentile Range	Percentile Range	Soil Vapor	Soil Vapor
Units	ug/m3	ug/m3	ppbv	ppbv
			ug/m3	ug/m3
COMPOUND				
Heptane	<0.25 - 7.6	1 - 33	0.41	2.2
Hexane	<0.25 - 5.1	0.6 - 35	0.92	4.4
Methylene chloride	<0.25 - 2.9	0.3 - 45	1.22	4.9
MTBE (Methyl tert-butyl ether)	NC	<0.25 - 71	0.18	0.05
Styrene	<0.25 - 0.6	<0.25 - 2.3	0.3	0.25
tert-butyl alcohol	NC	NC	0.76	0.31
Tetrachloroethene	<0.25 - 1.6	<0.25 - 4.1	9.22	1.2
Tetrahydrofuran	<0.25 - 0.4	<0.25 - 9.4	0.24	5.2
Toluene	0.6 - 21	3.5 - 110	0.83	16
trans-1,3-Dichloropropene	<0.25	<0.25	0.24	0.07
Trichloroethene	<0.25 - 0.5	<0.25 - 0.8	21.6	2.5
Trichlorofluoromethane (Freon 11)	<0.25 - 6.1	1.1 - 30	2.53	0.42
Xylenes (m&p)	<0.25 - 3.1	0.5 - 21	0.65	11
Xylenes (o)	<0.25 - 2.5	0.4 - 13	0.3	3.2

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NA - Not Analyzed

NC - No Criteria

Bold indicates exceedance of Outdoor Air Concentration, 95th Percentile

Shading indicates exceedance of Indoor Air Concentration, 95th Percentile

* - Only compared sample results for criteria for Indoor Air Concentration, 95th Percentile

** - Only compared sample results for criteria for Outdoor Air Concentration, 95th Percentile

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	IA112509*	IA112509**
Sample ID	Outdoor Air	Indoor Air	IA112509	AA112509
Lab Sample Number	Concentrations	Concentrations	A5318-04	A5318-02
Sampling Date	25th - 95th	25th - 95th	11/25/09	11/25/09
Matrix	Percentile Range	Percentile Range	Indoor Air	Ambient Air
Units	ug/m3	ug/m3	ppbv	ug/m3
COMPOUND				
1,1,1-Trichloroethane	<0.25 - 0.7	<0.25 - 6.9	0.04	0.22
1,1,2-Trichlorotrifluoroethane	<0.25 - 3.6	<0.25 - 3.4	0.1	0.77
1,1-Dichloroethene	<0.25	<0.25 - 0.7	0.05	0.2
1,2,4-Trichlorobenzene	<0.25 - 4.8	<0.25 - 6.3	0.04	0.3
1,2,4-Trimethylbenzene	<0.25 - 2.5	0.7 - 18	0.24	7.2
1,2-Dichloroethane	<0.25	<0.25	0.07	0.28
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.25 - 1.3	<0.25 - 1.2	0.04	0.28
1,3,5-Trimethylbenzene	<0.25 - 1	0.3 - 6.5	0.09	2
1,3-Dichlorobenzene	<0.25 - 0.7	<0.25 - 0.9	0.08	0.48
1,4 Dioxane	NC	NC	0.09	0.32
1,4-Dichlorobenzene	<0.25 - 0.8	<0.25 - 2.6	0.82	4.93
2,2,4-Trimethylpentane (Isooctane)	<0.25 - 2	<0.25 - 14	0.04	0.19
2-Butanone (Methyl ethyl ketone)	0.8 - 17	1.4 - 39	0.35	1.03
2-Chlorotoluene	NC	NC	0.1	0.52
3-Chloropropene (allyl chloride)	NC	NC	0.05	0.16
4-Ethyltoluene (p-Ethyltoluene)	NC	NC	0.08	0.39
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	<0.25 - 2.9	<0.25 - 5.3	0.06	0.25
Acetone (2-propanone)	3.4 - 58	9.9 - 140	8.6	20.5
Benzene	0.6 - 5.8	1.1 - 29	0.21	0.67
Bromoform	NC	NC	0.05	0.52
Carbon disulfide	NC	NC	0.78	2.43
Carbon tetrachloride	<0.25 - 1	<0.25 - 1.1	0.04	0.25
Chlorobenzene	<0.25	<0.25	0.09	0.41
Chloromethane (Methyl chloride)	<0.25 - 4.6	<0.25 - 5.2	0.56	1.16
Cyclohexane	<0.25 - 3	<0.25 - 19	0.3	1.03
Dichlorodifluoromethane	<0.25 - 11	<0.25 - 26	0.53	2.62
Ethyl Benzene	<0.25 - 1.9	0.4 - 13	0.08	0.35
			3.7	15.9

Table 4-21
Volatile Organic Compounds Detected in Soil Vapor
Patchogue Former MGP Site

Location ID	NYSDOH Background	NYSDOH Background	IA112509*	AA112509**
Sample ID	Outdoor Air	Indoor Air	IA112509	AA112509
Lab Sample Number	Concentrations	Concentrations	A5318-04	A5318-02
Sampling Date	25th - 95th	25th - 95th	11/25/09	11/25/09
Matrix	Percentile Range	Percentile Range	Indoor Air	Ambient Air
Units	ug/m3	ug/m3	ppbv	ppbv
COMPOUND				
Heptane	<0.25 - 7.6	1 - 33	0.18	1.1
Hexane	<0.25 - 5.1	0.6 - 35	3.4	1.1
Methylene chloride	<0.25 - 2.9	0.3 - 45	0.45	1.2
MTBE (Methyl tert-butyl ether)	NC	<0.25 - 71	0.05	0.05
Styrene	<0.25 - 0.6	<0.25 - 2.3	0.07	0.2
tert-butyl alcohol	NC	NC	0.1	0.16
Tetrachloroethene	<0.25 - 1.6	<0.25 - 4.1	0.03	0.06
Tetrahydrofuran	<0.25 - 0.4	<0.25 - 9.4	0.08	0.84
Toluene	0.6 - 21	3.5 - 110	6.3	9
trans-1,3-Dichloropropene	<0.25	<0.25	0.07	0.07
Trichloroethene	<0.25 - 0.5	<0.25 - 0.8	0.04	0.04
Trichlorofluoromethane (Freon 11)	<0.25 - 6.1	1.1 - 30	0.22	0.19
Xylenes (m&p)	<0.25 - 3.1	0.5 - 21	0.17	18
Xylenes (o)	<0.25 - 2.5	0.4 - 13	0.07	5.5
			0.3	23.9

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NA - Not Analyzed

NC - No Criteria

Bold indicates exceedance of Outdoor Air Concentration, 95th Percentile

Shading indicates exceedance of Indoor Air Concentration, 95th Percentile

* - Only compared sample results for criteria for Indoor Air Concentration, 95th Percentile

** - Only compared sample results for criteria for Outdoor Air Concentration, 95th Percentile

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location					PASB-21		PASB-21		PASB-22		PASB-22
Sample ID	NYSDEC	NYSDEC	NYSDEC		PASB21-0-0.2		PASB21-0-0.5		PASB22-0-0.2		PASB22-0-0.5
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria		Z1355-12		Z1355-13		Z1355-16		Z1355-17
Sampling Date	Protection of	Protection of	Protection of		1/30/08		1/30/08		1/30/08		1/30/08
Matrix	Public Health	Ecological	Groundwater		Soil		Soil		Soil		Soil
Units	Commercial	Resources			mg/Kg		mg/Kg		mg/Kg		mg/Kg
CONSTITUENT											
Cyanide	27	NC	40		0.683 U		0.645 U		0.644 U		0.612 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location					PASB-23		PASB-23		PASB-24		PASB-24
Sample ID	NYSDEC	NYSDEC	NYSDEC		PASB23-0-0.2		PASB23-0-0.5		PASB24-0-0.2		PASB24-0-0.5
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria		Z1355-20		Z1355-21		Z1384-04		Z1384-06
Sampling Date	Protection of	Protection of	Protection of		1/30/08		1/30/08		2/1/08		2/1/08
Matrix	Public Health	Ecological	Groundwater		Soil		Soil		Soil		Soil
Units	Commercial	Resources			mg/Kg		mg/Kg		mg/Kg		mg/Kg
CONSTITUENT											
Cyanide	27	NC	40		1.52 U		2.97		0.62 U		0.67 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-26	PASB-26
Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB25-0-0.2	PASB25-0-0.2	PASB25-0-0.5	PASB-26-0-0.2	PASB-26-0-0.5
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z1355-01	Z1355-01	Z1355-02	Z1370-01	Z1370-02
Sampling Date	Protection of	Protection of	Protection of	1/30/08	1/30/08	1/30/08	1/31/08	1/31/08
Matrix	Public Health	Ecological	Groundwater	Soil	Soil	Soil	Soil	Soil
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
CONSTITUENT								
Cyanide	27	NC	40	0.597 U	0.57 U	0.63 U		0.61 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-27	PASB-27	PASB-27	PASB-27	PASB-28	PASB-28	PASB-28
Sample ID	Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-27-0-0.2	PASB-27-0-0.2	PASB-27-0-0.5	PASB-27-0-0.5	PASB-28-0-0.2	PASB-28-0-0.5	PASB-28-0-0.5
Lab Sample Number	Sampling Date	Protection of	Protection of	Protection of	1/31/08	1/31/08	1/31/08	1/31/08	1/31/08	1/31/08	1/31/08
Matrix	Units	Public Health	Ecological	Groundwater	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
CONSTITUENT											
Cyanide		27	NC	40	0.61 U	1.20	1.20	1.10 UJ	1.21 UJ	1.21 UJ	1.21 UJ

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-29	PASB-29	PASB-29	PASB-30	PASB-30
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-29-0-0.2	PASB-29-0-0.5	PASB-30-0-0.2	PASB-30-0-0.5	PASB-30-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-11	Z1370-12	Z1370-15	Z1370-16	Z1370-16
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/31/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
CONSTITUENT								
Cyanide	27	NC	40	0.58 U	0.66 U	0.6 U	0.58	0.58

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-0-0.2	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5	
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-09	Z1341-10	Z1341-07	Z1341-08	
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
CONSTITUENT								
Cyanide	27	NC	40	1.26 UJ	0.92 U	2.44 J	1.42	

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-32	PASB-33	PASB-33	PASB-33	PASB-33	PASB-40
Sample ID	Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-32-0-2	PASB-33-0-0.2	PASB-33-0-0.5	PASB-33-0-0.5	PASB-33-0-0.5	PASB-40-0-5
Lab Sample Number	Sampling Date	Protection of	Protection of	Protection of	Z1341-01	Z1341-13	Z1341-14	Z1341-14	Z1341-14	Z3645-01
Matrix	Units	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08	1/29/08	7/10/08
		Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/kg
CONSTITUENT										
Cyanide		27	NC	40	3.40	1.09 J	0.89	0.89	0.68 U	

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC		NYSDEC		NYSDEC		PASB-40		PASB-42		PASB-42		PASB-42		PASB-43	
Sample ID	Sample Number	Soil Criteria	Protection of	Soil Criteria	Protection of	Soil Criteria	Protection of	PASB40-30-35	Z3645-03	PASB42-0-0.2	Z3645-04	PASB42-0-0.2	Z3645-07	PASB42-0-0.5	Z3645-08	PASB43-0-0.2	Z3645-08
Lab Sample Number	Sampling Date	Public Health	Ecological	Resources	Groundwater	Groundwater	Groundwater	Duplicate of	PASB40-0-5	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Matrix	Units	Commercial	Commercial	Resources	Resources	Resources	Resources	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CONSTITUENT																	
Cyanide		27	NC		40			0.622	U	0.513	U	0.514	U	0.514	U	0.652	U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-3
Cyanide Detected in Surface Soil
Patchogue Former MGP Site**

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-43	PASB-46	PASB-46
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB43-0-0.5	PASB46-0-0.2	PASB46-0-0.5
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-09	Z3645-11	Z3645-12
Sampling Date	Public Health	Ecological	Groundwater	7/10/08	7/10/08	7/10/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/kg	mg/kg	mg/kg
CONSTITUENT						
Cyanide	27	NC	40	0.562 U	0.632 U	0.612 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-4
TOC Detected in Surface Soil
Patchogue Former MGP Site

Sample Location	Sample ID	Lab Sample Number	Sampling Date	Matrix	Total Organic Carbon (mg/Kg)
PASB-21	PASB21-0-0.2	Z1355-12	1/30/08	Soil	22000
PASB-21	PASB21-0-0.5	Z1355-13	1/30/08	Soil	22000
PASB-22	PASB22-0-0.2	Z1355-16	1/30/08	Soil	16000
PASB-22	PASB22-0-0.5	Z1355-17	1/30/08	Soil	16000
PASB-23	PASB23-0-0.2	Z1355-20	1/30/08	Soil	71000
PASB-23	PASB23-0-0.5	Z1355-21	1/30/08	Soil	36000
PASB-24	PASB24-0-0.2	Z1384-04	2/1/08	Soil	15000
PASB-24	PASB24-0-0.5	Z1384-06	2/1/08	Soil	19000
PASB-25	PASB25-0-0.2	Z1355-01	1/30/08	Soil	22000
PASB-25	PASB25-0-0.5	Z1355-02	1/30/08	Soil	24000
PASB-26	PASB-26-0-0.2	Z1370-01	1/31/08	Soil	55000
PASB-26	PASB-26-0-0.5	Z1370-02	1/31/08	Soil	43000
PASB-27	PASB-27-0-0.2	Z1370-05	1/31/08	Soil	41000
PASB-27	PASB-27-0-0.5	Z1370-06	1/31/08	Soil	31000
PASB-28	PASB-28-0-0.2	Z1370-07	1/31/08	Soil	44000 J
PASB-28	PASB-28-0-0.5	Z1370-08	1/31/08	Soil	44000 J
PASB-29	PASB-29-0-0.2	Z1370-11	1/31/08	Soil	15000
PASB-29	PASB-29-0-0.5	Z1370-12	1/31/08	Soil	18000
PASB-30	PASB-30-0-0.2	Z1370-15	1/31/08	Soil	7700
PASB-30	PASB-30-0-0.5	Z1370-16	1/31/08	Soil	6700
PASB-31	PASB-31-0-0.2	Z1341-09	1/29/08	Soil	17000 J
PASB-31	PASB-31-0-0.5	Z1341-10	1/29/08	Soil	15000
PASB-32	PASB-32-0-0.2	Z1341-07	1/29/08	Soil	19000 J
PASB-32	PASB-32-0-0.5	Z1341-08	1/29/08	Soil	15000
PASB-32	PASB-32-0-2	Z1341-01	1/29/08	Soil	1900
PASB-33	PASB-33-0-0.2	Z1341-13	1/29/08	Soil	20000 J
PASB-33	PASB-33-0-0.5	Z1341-14	1/29/08	Soil	17000
PASB-40	PASB40-0-5	Z3645-01	7/10/08	Soil	33501
PASB-40	PASB40-30-35	Z3645-03	Duplicate of PASB40-0-5		30514
PASB-42	PASB42-0-0.2	Z3645-04	7/10/08	Soil	12318
PASB-42	PASB42-0-0.5	Z3645-07	7/10/08	Soil	9261
PASB-43	PASB43-0-0.2	Z3645-08	7/10/08	Soil	35058
PASB-43	PASB43-0-0.5	Z3645-09	7/10/08	Soil	27818
PASB-46	PASB46-0-0.2	Z3645-11	7/10/08	Soil	33770
PASB-46	PASB46-0-0.5	Z3645-12	7/10/08	Soil	37311

Notes:

U - Non-detected.

J - Estimated.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16	PASB-16	PASB-16	PASB-20
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10	PASB16-35-40	PASB-20-8-10	
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07	Z1384-08	Z1341-17	
Sampling Date	Public Health	Ecological	Groundwater	2/1/08	Duplicate of	1/29/08	
Matrix	Commercial	Resources		Soil	PASB16-5-10	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0058 U	0.007 U		R
1,2-Dichlorobenzene	500	NC	1.1	0.0049 U	0.0059 U	0.0051 U	
2-Butanone	500	100	0.12	0.029 UJ	0.034 UJ	0.03 UJ	
Acetone	500	2.2	0.05	0.097 UJ	0.12 UJ	0.1 UJ	
Benzene	44	70	0.06	0.0041 U	0.0049 U	0.0043 U	
Carbon Disulfide	NC	NC	NC	0.0062 U	0.0074 U	0.0064 U	
Ethyl Benzene	390	NC	1 -	0.0046 U	0.0055 U	0.0047 U	
Isopropylbenzene	NC	NC	NC	0.0047 U	0.0056 U	0.0048 U	
m/p-Xylenes	500	0.26	1.6	0.011 U	0.013 U	0.011 U	
Methyl Acetate	NC	NC	NC	0.0097 UJ	0.012 UJ	0.01 UJ	
Methylcyclohexane	NC	NC	NC	0.0047 U	0.0057 U	0.0049 U	
Methylene Chloride	500	12	0.05	0.014 U	0.017 U	0.014 UJ	
o-Xylene	500	0.26	1.6	0.0043 U	0.0052 U	0.0045 U	
Styrene	NC	NC	NC	0.0035 U	0.0042 U	0.0037 U	
Tetrachloroethene	150	2	1.3	0.0071 U	0.0085 U	0.0073 U	
Toluene	500	36	0.7	0.005 U	0.006 U	0.0052 U	
Total VOCs				ND	ND	ND	
Total BTEX				ND	ND	ND	

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.
- ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	NYSDEC	PASB-20	PASB-21	PASB-21
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	PASB-20-11-13	PASB-21-3-5	PASB-21-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Protection of	Z1341-18	Z1355-14	Z1355-15
Sampling Date	Public Health	Ecological	Groundwater	Groundwater	1/29/08	1/30/08	1/30/08
Matrix	Commercial	Resources			Soil	Soil	Soil
Units					mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC		0.0061 U	0.0058 U
1,2-Dichlorobenzene	500	NC	1.1	0.005 U	0.005 U	0.0051 U	0.0049 U
2-Butanone	500	100	0.12	0.029 UJ	0.029 UJ	0.03 U	0.029 U
Acetone	500	2.2	0.05	0.098 UJ	0.098 UJ	0.1 UJ	0.097 UJ
Benzene	44	70	0.06	0.0042 U	0.0042 U	0.0043 U	0.0041 U
Carbon Disulfide	NC	NC	NC	0.0062 U	0.0062 U	0.0064 U	0.0062 U
Ethyl Benzene	390	NC	1	0.0046 U	0.0046 U	0.0048 U	0.0046 U
Isopropylbenzene	NC	NC	NC	0.0047 U	0.0047 U	0.0049 U	0.0047 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.011 U	0.011 U
Methyl Acetate	NC	NC	NC	0.0098 UJ	0.0098 UJ	0.01 UJ	0.0096 UJ
Methylcyclohexane	NC	NC	NC	0.0048 U	0.0048 U	0.0049 U	0.0047 U
Methylene Chloride	500	12	0.05	0.014 UJ	0.014 UJ	0.014 U	0.014 U
o-Xylene	500	0.26	1.6	0.0044 U	0.0044 U	0.0045 U	0.0043 U
Styrene	NC	NC	NC	0.0036 U	0.0036 U	0.0037 U	0.0035 U
Tetrachloroethene	150	2	1.3	0.0072 U	0.0072 U	0.0074 UJ	0.0071 UJ
Toluene	500	36	0.7	0.0051 U	0.0051 U	0.0052 U	0.005 U
Total VOCs				ND	ND	ND	ND
Total BTEX				ND	ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location													
Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB-22	PASB-22	PASB-22	PASB-22	PASB-22	PASB-22	PASB-22	PASB-22	PASB-23	PASB-23
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z1355-18	Z1355-19	Z1355-19	Z1355-19	Z1355-19	Z1355-19	Z1355-19	Z1355-19	Z1356-01	Z1356-01
Sampling Date	Protection of	Protection of	Protection of	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08	1/30/08
Matrix	Public Health	Ecological	Groundwater	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND													
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.15 J	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U
1,2-Dichlorobenzene	500	NC	1.1	0.088 J	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0052 U	0.0052 U
2-Butanone	500	100	0.12	0.31 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Acetone	500	2.2	0.05	0.34 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.11 J	0.11 J
Benzene	44	70	0.06	6.3	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U
Carbon Disulfide	NC	NC	NC	0.77 J	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U
Ethyl Benzene	390	NC	1	14 DJ	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U
Isopropylbenzene	NC	NC	NC	2	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0076 J	0.0076 J
m/p-Xylenes	500	0.26	1.6	15	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Methyl Acetate	NC	NC	NC	0.072 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Methylcyclohexane	NC	NC	NC	0.3 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene Chloride	500	12	0.05	0.13 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 J	0.015 J
o-Xylene	500	0.26	1.6	7.4	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0046 U	0.0046 U
Styrene	NC	NC	NC	0.72 J	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U
Tetrachloroethene	150	2	1.3	0.16 U	0.0074 UJ	0.0074 UJ	0.0074 UJ	0.0074 UJ	0.0074 UJ	0.0074 UJ	0.0074 UJ	0.0075 UJ	0.0075 UJ
Toluene	500	36	0.7	5.9	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U
Total VOCs				52.758	ND	ND	ND	ND	ND	ND	ND	0.1326	0.1326
Total BTEX				48.6	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-24	PASB-25
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-23-12-15	PASB-24-5-10	PASB-25-1-6
Lab Sample Number	Protection of	Protection of	Protection of	Z1356-02	Z1384-01	Z1355-03
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	2/1/08	1/30/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0061 U	0.0061 U	0.84 U
1,2-Dichlorobenzene	500	NC	1.1	0.0051 U	0.0051 U	0.58 U
2-Butanone	500	100	0.12	0.03 U	0.03 U	2.8 U
Acetone	500	2.2	0.05	0.1 U	0.1 U	3.1 U
Benzene	44	70	0.06	0.0043 U	0.0043 U	3.1 U
Carbon Disulfide	NC	NC	NC	0.0064 U	0.0065 U	0.29 U
Ethyl Benzene	390	NC	1	0.0048 U	0.0048 U	130 DJ
Isopropylbenzene	NC	NC	NC	0.0049 U	0.0049 U	14
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	130
Methyl Acetate	NC	NC	NC	0.01 U	0.01 U	0.65 U
Methylcyclohexane	NC	NC	NC	0.0049 U	0.005 U	0.68 U
Methylene Chloride	500	12	0.05	0.014 U	0.015 U	0.55 U
o-Xylene	500	0.26	1.6	0.0045 U	0.0045 U	65
Styrene	NC	NC	NC	0.0037 U	0.0037 U	0.28 U
Tetrachloroethene	150	2	1.3	0.0074 U	0.0074 U	1.4 U
Toluene	500	36	0.7	0.0052 U	0.0053 U	14
Total VOCs				ND	ND	356.1
Total BTEX				ND	ND	342.1

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-25
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-9-14	PASB25-18-20	PASB25-31-36	PASB-25
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-04	Z1355-05	Z1355-06	
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	Soil	Duplicate of	
Matrix	Commercial	Resources		mg/Kg	mg/Kg	PASB25-1-6	
Units						mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.081 U	0.006 U	0.87 U	
1,2-Dichlorobenzene	500	NC	1.1	0.056 U	0.005 U	0.6 U	
2-Butanone	500	100	0.12	0.27 UJ	0.029 U	2.9 U	
Acetone	500	2.2	0.05	0.3 UJ	0.099 UJ	3.2 U	
Benzene	44	70	0.06	0.049 U	0.0042 U	2.2 J	
Carbon Disulfide	NC	NC	NC	0.028 U	0.0063 U	0.3 U	
Ethyl Benzene	390	NC	1	0.86 J	0.0047 U	1.10 J	
Isopropylbenzene	NC	NC	NC	0.41 J	0.0048 U	11	
m/p-Xylenes	500	0.26	1.6	0.65 J	0.011 U	99	
Methyl Acetate	NC	NC	NC	0.062 U	0.0099 UJ	0.68 UJ	
Methylcyclohexane	NC	NC	NC	0.065 U	0.0048 U	0.71 U	
Methylene Chloride	500	12	0.05	0.053 U	0.014 U	0.57 U	
o-Xylene	500	0.26	1.6	0.45 J	0.0044 U	49	
Styrene	NC	NC	NC	0.026 U	0.0036 U	0.29 U	
Tetrachloroethene	150	2	1.3	0.13 UJ	0.0072 UJ	1.5 U	
Toluene	500	36	0.7	0.022 U	0.0051 U	11	
Total VOCs				2.37	ND	282.2	
Total BTEX				1.96	ND	271.2	

Notes:

U - Non-detected.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria.
ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-26	PASB-26	PASB-27
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-26-4-6	PASB-26-11-13	PASB27-4-6
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-03	Z1370-04	Z1355-07
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/30/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.17 UJ	0.0059 U	0.13 U
1,2-Dichlorobenzene	500	NC	1.1	0.12 UJ	0.005 U	0.093 U
2-Butanone	500	100	0.12	0.56 UJ	0.029 UJ	0.45 U
Acetone	500	2.2	0.05	0.63 UJ	0.098 UJ	0.5 U
Benzene	44	70	0.06	0.1 UJ	0.0041 U	0.081 U
Carbon Disulfide	NC	NC	NC	0.058 UJ	0.0062 U	0.046 U
Ethyl Benzene	390	NC	1	0.0046 U	0.0046 U	0.89 J
Isopropylbenzene	NC	NC	NC	1.4 J	0.0047 U	0.27 J
m/p-Xylenes	500	0.26	1.6	2.5 J	0.011 U	0.11 U
Methyl Acetate	NC	NC	NC	0.13 UJ	0.0097 UJ	0.1 UJ
Methylcyclohexane	NC	NC	NC	0.14 UJ	0.0048 U	0.11 U
Methylene Chloride	500	12	0.05	0.11 UJ	0.014 U	0.088 U
o-Xylene	500	0.26	1.6	1.9 J	0.0044 U	0.037 U
Styrene	NC	NC	NC	0.055 J	0.0036 U	0.044 U
Tetrachloroethene	150	2	1.3	0.28 UJ	0.0071 U	0.22 UJ
Toluene	500	36	0.7	0.047 UJ	0.0051 U	0.037 U
Total VOCs				9.985	ND	1.16
Total BTEX				8.4	ND	0.89

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-27	PASB-28	PASB-28
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB27-13-15	PASB-28-1-3	PASB-28-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-10	Z1370-09	Z1370-10
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/31/08	1/31/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0062 U	0.18 UJ	0.0061 U
1,2-Dichlorobenzene	500	NC	1.1	0.0052 U	0.13 UJ	0.0051 U
2-Butanone	500	100	0.12	0.031 U	0.61 UJ	0.03 UJ
Acetone	500	2.2	0.05	0.1 UJ	0.67 UJ	0.1 UJ
Benzene	44	70	0.06	0.0044 U	1.5 J	0.0043 U
Carbon Disulfide	NC	NC	NC	0.0066 U	0.063 UJ	0.0064 U
Ethyl Benzene	390	NC	1	0.0049 U	0.39 J	0.0048 U
Isopropylbenzene	NC	NC	NC	0.005 U	0.12 UJ	0.0049 U
m/p-Xylenes	500	0.26	1.6	0.011 U	1.6 J	0.011 U
Methyl Acetate	NC	NC	NC	0.01 UJ	2.2 J	0.01 UJ
Methylcyclohexane	NC	NC	NC	0.0051 U	0.39 J	0.005 U
Methylene Chloride	500	12	0.05	0.015 U	0.12 UJ	0.014 U
o-Xylene	500	0.26	1.6	0.0046 U	0.05 UJ	0.0045 U
Styrene	NC	NC	NC	0.0038 U	0.059 UJ	0.0037 U
Tetrachloroethene	150	2	1.3	0.0076 UJ	0.3 UJ	0.0074 U
Toluene	500	36	0.7	0.0054 U	1.1 J	0.0052 U
Total VOCs				ND	7.18	ND
Total BTEX				ND	4.59	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-29	PASB-29	PASB-30
Sample ID	Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB-29-3-5	PASB-29-13-15	PASB-30-4-6
Lab Sample Number	Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z1370-13	Z1370-14	Z1370-17
Sampling Date	Sampling Date	Protection of	Protection of	Protection of	1/31/08	1/31/08	1/31/08
Matrix	Matrix	Public Health	Ecological	Groundwater	Soil	Soil	Soil
Units	Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	0.0056 UJ	0.0072 U	0.94 UJ
1,2-Dichlorobenzene	500	NC	1.1	1.1	0.0047 UJ	0.0061 U	0.65 UJ
2-Butanone	500	100	0.12	0.12	0.027 UJ	0.035 U	3.1 UJ
Acetone	500	2.2	0.05	0.05	0.11 J	0.12 U	3.5 UJ
Benzene	44	70	0.06	0.06	0.0039 UJ	0.0051 U	0.57 UJ
Carbon Disulfide	NC	NC	NC	NC	0.0059 UJ	0.0076 U	0.32 UJ
Ethyl Benzene	390	NC	1	1	0.015 J	0.0056 U	35 J
Isopropylbenzene	NC	NC	NC	NC	0.011 J	0.0058 U	4.8 J
m/p-Xylenes	500	0.26	1.6	1.6	0.061	0.013 U	52 J
Methyl Acetate	NC	NC	NC	NC	0.0092 UJ	0.012 U	0.73 UJ
Methylcyclohexane	NC	NC	NC	NC	0.0045 UJ	0.0058 U	0.76 UJ
Methylene Chloride	500	12	0.05	0.05	0.013 UJ	0.019 J	0.62 UJ
o-Xylene	500	0.26	1.6	1.6	0.023 J	0.0054 U	25 J
Styrene	NC	NC	NC	NC	0.0034 UJ	0.0044 U	0.31 UJ
Tetrachloroethene	150	2	1.3	1.3	0.0095 J	0.0087 U	1.6 UJ
Toluene	500	36	0.7	0.7	0.0092 J	0.0062 U	23 J
Total VOCs					0.2387	0.019	139.8
Total BTEX					0.1082	ND	135

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-30	PASB-30	PASB-30	PASB-31
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-30-21-26	PASB-30-34-36	PASB-31-2-4	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1370-18	Z1370-21	Z1341-04	
Sampling Date	Commercial	Resources		1/31/08	Duplicate of	1/29/08	
Matrix	Commercial	Resources		mg/Kg	PASB-30-4-6	Soil	
Units					mg/Kg	mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.006 U	0.85 UJ	0.006 U	
1,2-Dichlorobenzene	500	NC	1.1	0.0051 U	0.59 UJ	0.0051 U	
2-Butanone	500	100	0.12	0.03 UJ	2.9 UJ	0.03 UJ	
Acetone	500	2.2	0.05	0.1 UJ	3.2 UJ	0.1 UJ	
Benzene	44	70	0.06	0.0043 U	0.51 UJ	0.0043 U	
Carbon Disulfide	NC	NC	NC	0.0064 U	0.29 UJ	0.0064 U	
Ethyl Benzene	390	NC	1	0.0047 U	23 J	0.014 J	
Isopropylbenzene	NC	NC	NC	0.0048 U	3 J	0.016 J	
m/p-Xylenes	500	0.26	1.6	0.011 U	35 J	0.011 U	
Methyl Acetate	NC	NC	NC	0.01 UJ	0.66 UJ	0.01 UJ	
Methylcyclohexane	NC	NC	NC	0.0049 U	0.69 UJ	0.0049 U	
Methylene Chloride	500	12	0.05	0.014 U	0.56 UJ	0.014 U	
o-Xylene	500	0.26	1.6	0.0045 U	17 J	0.0045 U	
Styrene	NC	NC	NC	0.0037 U	0.28 UJ	0.0037 U	
Tetrachloroethene	150	2	1.3	0.0073 U	1.4 UJ	0.0073 U	
Toluene	500	36	0.7	0.0052 U	22 J	0.0052 U	
Total VOCs				ND	100	0.03	
Total BTEX				ND	97	0.014	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-31	PASB-31	PASB-32
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-10-15	PASB-31-32-34	PASB-32-2-4	
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-05	Z1341-06	Z1341-02	
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	Duplicate of	1/29/08	
Matrix	Commercial	Resources		Soil	PASB-31-2-4	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	
COMPOUND							
1,2-Dibromo-3-Chloropropane	NC	NC	NC	R	R	R	
1,2-Dichlorobenzene	500	NC	1.1	0.0052 U	0.005 U	0.0053 U	
2-Butanone	500	100	0.12	0.03 UJ	0.029 J	0.031 UJ	
Acetone	500	2.2	0.05	0.1 UJ	0.12 U	0.1 UJ	
Benzene	44	70	0.06	0.0043 U	0.0042 U	0.0044 U	
Carbon Disulfide	NC	NC	NC	0.0065 U	0.0062 U	0.0066 U	
Ethyl Benzene	390	NC	1	0.0048 U	0.13	0.0049 U	
Isopropylbenzene	NC	NC	NC	0.0049 U	0.044	0.005 U	
m/p-Xylenes	500	0.26	1.6	0.011 U	0.081	0.011 U	
Methyl Acetate	NC	NC	NC	0.01 U	0.0098 U	0.01 U	
Methylcyclohexane	NC	NC	NC	0.005 U	0.0048 U	0.0051 U	
Methylene Chloride	500	12	0.05	0.015 U	0.014 U	0.015 U	
o-Xylene	500	0.26	1.6	0.0046 U	0.041	0.0047 U	
Styrene	NC	NC	NC	0.0037 U	0.024 J	0.0038 U	
Tetrachloroethene	150	2	1.3	0.0075 U	0.0072 U	0.0076 U	
Toluene	500	36	0.7	0.0053 U	0.0051 U	0.0054 U	
Total VOCs				ND	0.469	ND	
Total BTEX				ND	0.252	ND	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-32	PASB-33	PASB-33
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-32-6-10	PASB-33-1-3	PASB-33-6-10
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-03	Z1341-11	Z1341-12
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/29/08	1/29/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	R	R	R
1,2-Dichlorobenzene	500	NC	1.1	0.005 U	0.0051 U	0.0051 U
2-Butanone	500	100	0.12	0.029 UJ	0.03 UJ	0.03 UJ
Acetone	500	2.2	0.05	0.099 UJ	0.1 UJ	0.1 UJ
Benzene	44	70	0.06	0.0042 U	0.0043 U	0.0042 U
Carbon Disulfide	NC	NC	NC	0.0063 U	0.0064 U	0.0064 U
Ethyl Benzene	390	NC	1	0.0047 U	0.0048 U	0.0047 U
Isopropylbenzene	NC	NC	NC	0.0048 U	0.0049 U	0.0048 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.011 U
Methyl Acetate	NC	NC	NC	0.0099 U	0.01 U	0.01 U
Methylcyclohexane	NC	NC	NC	0.0048 U	0.0049 U	0.0049 U
Methylene Chloride	500	12	0.05	0.014 U	0.014 U	0.014 U
o-Xylene	500	0.26	1.6	0.0044 U	0.0045 U	0.0045 U
Styrene	NC	NC	NC	0.0036 U	0.0037 U	0.0037 U
Tetrachloroethene	150	2	1.3	0.0072 U	0.0074 U	0.0073 U
Toluene	500	36	0.7	0.0051 U	0.0052 U	0.0052 U
Total VOCs				ND	ND	ND
Total BTEX				ND	ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.
- ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-34	PASB-35	PASB-35
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-34-4-6	PASB-35-5-8	PASB-35-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-22	Z1418-08	Z1418-09
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	2/4/08	2/4/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.006 U	0.0059 U	0.0062 U
1,2-Dichlorobenzene	500	NC	1.1	0.0051 U	0.005 U	0.0052 U
2-Butanone	500	100	0.12	0.03 UJ	0.029 U	0.03 U
Acetone	500	2.2	0.05	0.1 UJ	0.14 J	0.1 U
Benzene	44	70	0.06	0.0042 U	0.0042 U	0.0044 U
Carbon Disulfide	NC	NC	NC	0.0064 U	0.0062 U	0.0065 U
Ethyl Benzene	390	NC	1	0.0047 U	0.027 J	0.0048 U
Isopropylbenzene	NC	NC	NC	0.0048 U	0.023 J	0.005 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.011 U
Methyl Acetate	NC	NC	NC	0.0099 UJ	0.0097 U	0.01 U
Methylcyclohexane	NC	NC	NC	0.0049 U	0.0048 U	0.005 U
Methylene Chloride	500	12	0.05	0.014 U	0.014 UJ	0.015 U
o-Xylene	500	0.26	1.6	0.0045 U	0.0044 U	0.0046 U
Styrene	NC	NC	NC	0.0036 U	0.0036 U	0.0038 U
Tetrachloroethene	150	2	1.3	0.0073 U	0.0072 U	0.0075 U
Toluene	500	36	0.7	0.0052 U	0.0051 U	0.0053 U
Total VOCs				ND	0.19	ND
Total BTEX				ND	0.027	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.
- ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-36	PASB-36	PASB-37
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-36-6-8	PASB-36-11-13	PASB-37-5-7
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-01	Z1418-02	Z1418-03
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	2/5/08	2/5/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.094 U	0.0061 U	0.0063 UJ
1,2-Dichlorobenzene	500	NC	1.1	0.065 U	0.0051 U	0.0053 UJ
2-Butanone	500	100	0.12	0.31 UJ	0.03 U	0.031 U
Acetone	500	2.2	0.05	0.35 U	0.1 UJ	0.11 U
Benzene	44	70	0.06	1.6	0.0043 U	0.0045 U
Carbon Disulfide	NC	NC	NC	0.032 U	0.0064 U	0.0067 U
Ethyl Benzene	390	NC	1	1.5	0.0048 U	0.005 UJ
Isopropylbenzene	NC	NC	NC	1.1	0.0049 U	0.0051 UJ
m/p-Xylenes	500	0.26	1.6	1.4 J	0.011 U	0.012 UJ
Methyl Acetate	NC	NC	NC	1.1 J	0.01 U	0.01 U
Methylcyclohexane	NC	NC	NC	0.076 U	0.0049 U	0.0051 U
Methylene Chloride	500	12	0.05	0.062 U	0.014 UJ	0.015 UJ
o-Xylene	500	0.26	1.6	0.42 J	0.0045 U	0.0047 UJ
Styrene	NC	NC	NC	0.63 J	0.0037 U	0.0038 UJ
Tetrachloroethene	150	2	1.3	0.16 U	0.0074 U	0.0077 UJ
Toluene	500	36	0.7	2.3	0.0052 U	0.0054 U
Total VOCs				10.05	ND	ND
Total BTEX				7.22	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-37	PASB-38	PASB-39
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-37-11-13	PASB-38-5-7	PASB39-4-9
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-04	Z1418-05	Z3630-05
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	2/5/08	7/9/08
Matrix	Commercial	Resources		Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0059 U	0.0078 UJ	0.0065 U
1,2-Dichlorobenzene	500	NC	1.1	0.005 U	0.0066 UJ	0.0055 U
2-Butanone	500	100	0.12	0.029 U	0.039 U	0.032 U
Acetone	500	2.2	0.05	0.099 U	0.14 J	0.11 U
Benzene	44	70	0.06	0.0042 U	0.0055 U	0.0046 U
Carbon Disulfide	NC	NC	NC	0.0063 U	0.0083 U	0.0069 U
Ethyl Benzene	390	NC	1	0.0047 U	0.0062 U	0.0051 U
Isopropylbenzene	NC	NC	NC	0.0048 U	0.0063 UJ	0.0052 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.014 U	0.012 U
Methyl Acetate	NC	NC	NC	0.0098 U	0.013 U	0.011 U
Methylcyclohexane	NC	NC	NC	0.0048 U	0.0064 U	0.0053 U
Methylene Chloride	500	12	0.05	0.023 J	0.019 UJ	0.015 U
o-Xylene	500	0.26	1.6	0.0044 U	0.0058 U	0.0048 U
Styrene	NC	NC	NC	0.0036 U	0.0048 U	0.0039 U
Tetrachloroethene	150	2	1.3	0.0072 U	0.0095 U	0.0079 U
Toluene	500	36	0.7	0.0051 U	0.0068 U	0.0056 U
Total VOCs				0.023	0.14	ND
Total BTEX				ND	ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.
- ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-40	PASB-41	PASB-41
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-40-15-17	PASB-41-6-8	PASB-41-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z3645-02	Z3630-01	Z3630-02
Sampling Date	Public Health	Ecological	Groundwater	7/10/08	7/9/08	7/9/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0061 U	0.11 U	0.0058 U
1,2-Dichlorobenzene	500	NC	1.1	0.0051 U	0.075 U	0.0049 U
2-Butanone	500	100	0.12	0.03 U	0.36 U	0.029 U
Acetone	500	2.2	0.05	R	0.4 U	0.097 U
Benzene	44	70	0.06	0.0043 U	0.065 U	0.0041 U
Carbon Disulfide	NC	NC	NC	0.0064 U	0.037 U	0.0062 U
Ethyl Benzene	390	NC	1	0.0048 U	19	0.0046 U
Isopropylbenzene	NC	NC	NC	0.0049 U	4.5	0.0047 U
m/p-Xylenes	500	0.26	1.6	0.011 U	12	0.011 U
Methyl Acetate	NC	NC	NC	0.01 U	0.084 U	0.0097 U
Methylcyclohexane	NC	NC	NC	0.0049 U	0.088 U	0.0048 U
Methylene Chloride	500	12	0.05	0.014 U	0.071 U	0.014 U
o-Xylene	500	0.26	1.6	0.0045 U	5.5	0.0043 U
Styrene	NC	NC	NC	0.0037 U	0.035 U	0.0035 U
Tetrachloroethene	150	2	1.3	0.0074 U	0.18 U	0.0071 U
Toluene	500	36	0.7	0.0052 U	0.44 J	0.005 U
Total VOCs				ND	41.44	ND
Total BTEX				ND	36.94	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB-Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-42	PASB-43	PASB-43
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-42-23-25	PASB-43-13-15	PASB-43-23-25
Lab Sample Number	Protection of	Protection of	Protection of	Z3063-03	Z3063-01	Z3063-02
Sampling Date	Public Health	Ecological	Groundwater	7/8/08	7/8/08	7/8/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.006 U	0.0062 U	0.0061 U
1,2-Dichlorobenzene	500	NC	1.1	0.0051 U	0.0052 U	0.0052 U
2-Butanone	500	100	0.12	0.03 U	0.031 U	0.03 U
Acetone	500	2.2	0.05	R	R	R
Benzene	44	70	0.06	0.0043 U	0.0044 U	0.0043 U
Carbon Disulfide	NC	NC	NC	0.0064 U	0.0066 UJ	0.0065 U
Ethyl Benzene	390	NC	1	0.0047 U	0.0049 U	0.0048 U
Isopropylbenzene	NC	NC	NC	0.0048 U	0.005 U	0.0049 U
m/p-Xylenes	500	0.26	1.6	0.011 U	0.011 U	0.011 U
Methyl Acetate	NC	NC	NC	0.01 UJ	0.01 U	0.01 UJ
Methylcyclohexane	NC	NC	NC	0.0049 U	0.0051 U	0.005 U
Methylene Chloride	500	12	0.05	0.014 U	0.015 U	0.015 U
o-Xylene	500	0.26	1.6	0.0045 U	0.0046 U	0.0046 U
Styrene	NC	NC	NC	0.0037 U	0.0038 U	0.0037 U
Tetrachloroethene	150	2	1.3	0.0073 U	0.0076 U	0.0074 U
Toluene	500	36	0.7	0.0052 U	0.0054 U	0.0053 U
Total VOCs				ND	ND	ND
Total BTEX				ND	ND	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-44	PASB-45	PASB-46
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB44-7-9	PASB45-5-7	PASB46-6-8
Lab Sample Number	Protection of	Protection of	Protection of	Z3630-03	Z3630-04	Z3645-10
Sampling Date	Public Health	Ecological	Groundwater	7/9/08	7/9/08	7/10/08
Matrix	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg
Units						
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	0.0065 U	0.0078 UJ	6.6 U
1,2-Dichlorobenzene	500	NC	1.1	0.0055 U	0.0066 UJ	5.5 U
2-Butanone	500	100	0.12	0.032 U	0.29	32 U
Acetone	500	2.2	0.05	0.11 U	1.2 J	200 J
Benzene	44	70	0.06	0.0046 U	0.024 J	4.6 U
Carbon Disulfide	NC	NC	NC	0.0069 U	0.0083 U	6.9 U
Ethyl Benzene	390	NC	1	0.0051 U	1.2 D	5.1 U
Isopropylbenzene	NC	NC	NC	0.0053 U	0.37 J	5.3 U
m/p-Xylenes	500	0.26	1.6	0.012 U	0.32	12 U
Methyl Acetate	NC	NC	NC	0.011 U	0.013 U	11 U
Methylcyclohexane	NC	NC	NC	0.0053 U	0.0064 U	5.3 U
Methylene Chloride	500	12	0.05	0.016 U	0.019 U	16 U
o-Xylene	500	0.26	1.6	0.0049 U	0.077	4.9 U
Styrene	NC	NC	NC	0.004 U	0.0048 U	4 U
Tetrachloroethene	150	2	1.3	0.0079 U	0.0095 U	8 U
Toluene	500	36	0.7	0.0056 U	0.084	5.7 U
Total VOCs				ND	3.565	200
Total BTEX				ND	1.705	ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-5
Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	NYSDEC	MW-2D	MW-4D
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	PASB-MW2D-6-10	PASB-MW4D-5-10
Lab Sample Number	Protection of	Protection of	Protection of	Protection of	Z1418-07	Z1418-06
Sampling Date	Public Health	Ecological	Groundwater	Groundwater	2/4/08	2/4/08
Matrix	Commercial	Resources			Soil	Soil
Units					mg/Kg	mg/Kg
COMPOUND						
1,2-Dibromo-3-Chloropropane	NC	NC	NC	NC	0.0066 U	0.0063 U
1,2-Dichlorobenzene	500	NC	1.1	1.1	0.0056 U	0.0053 U
2-Butanone	500	100	0.12	0.12	0.033 U	0.031 U
Acetone	500	2.2	0.05	0.05	0.11 U	0.11 U
Benzene	44	70	0.06	0.06	0.0047 UJ	0.0045 U
Carbon Disulfide	NC	NC	NC	NC	0.007 U	0.0067 U
Ethyl Benzene	390	NC	1	1	0.0052 UJ	0.005 U
Isopropylbenzene	NC	NC	NC	NC	0.0053 U	0.0051 U
m/p-Xylenes	500	0.26	1.6	1.6	0.012 U	0.012 U
Methyl Acetate	NC	NC	NC	NC	0.011 U	0.01 U
Methylcyclohexane	NC	NC	NC	NC	0.0054 UJ	0.0051 U
Methylene Chloride	500	12	0.05	0.05	0.016 U	0.015 UJ
o-Xylene	500	0.26	1.6	1.6	0.005 U	0.0047 U
Styrene	NC	NC	NC	NC	0.004 U	0.0038 U
Tetrachloroethene	150	2	1.3	1.3	0.0081 U	0.0077 U
Toluene	500	36	0.7	0.7	0.0057 U	0.0054 U
Total VOCs					ND	0.11
Total BTEX					ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- R - Rejected.
- NC - No criteria.
- ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16	PASB-16	PASB-16	PASB-20	PASB-20
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10	PASB16-5-10	PASB16-35-40	PASB-20-8-10	PASB-20-11-13
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	2/1/08	Duplicate of	Z1384-08	Z1341-17	Z1341-18
Sampling Date	Commercial			Soil	PASB16-5-10	mg/Kg	Soil	1/29/08
Matrix				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.011 U	0.013 U	0.045 J	0.012 U	0.012 U
2-Methylnaphthalene	NC	NC	NC	0.011 U	0.013 U	0.011 U	0.011 U	0.011 U
Acenaphthene	500	20	98	0.0084 U	0.0098 U	0.42	0.0085 U	0.0085 U
Acenaphthylene	500	NC	107	0.0057 U	0.0066 U	0.0058 U	0.0058 U	0.0058 U
Acetophenone	NC	NC	NC	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U
Anthracene	500	NC	1000	0.013 U	0.015 U	0.1 J	0.013 U	0.013 U
Benzaldehyde	NC	NC	NC	0.013 U	0.015 U	0.013 U	0.013 U	0.013 U
Benzo(a)anthracene	5.6	NC	1	0.0093 U	0.011 U	0.0096 U	0.0095 U	0.0095 U
Benzo(a)pyrene	1	2.6	22	0.011 U	0.013 U	0.012 U	0.012 U	0.012 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.028 U	0.033 U	0.029 U	0.028 U	0.028 U
Benzo(g,h,i)perylene	500	NC	1	0.028 U	0.033 U	0.029 U	0.028 U	0.028 U
Benzo(k)fluoranthene	56	NC	1.7	0.018 U	0.021 U	0.018 U	0.018 U	0.018 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.015 U	0.046 J	0.015 U	0.015 U	0.015 U
Carbazole	NC	NC	NC	0.03 U	0.035 U	0.03 U	0.03 U	0.03 U
Chrysene	56	NC	1	0.0072 U	0.0084 U	0.0074 U	0.0073 U	0.0073 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.028 U	0.033 U	0.029 U	0.029 U	0.029 U
Dibenzofuran	NC	NC	NC	0.012 U	0.014 U	0.097 J	0.012 U	0.012 U
Fluoranthene	500	NC	1000	0.0094 U	0.011 U	0.13 J	0.0095 U	0.0095 U
Fluorene	500	30	386	0.01 U	0.012 U	0.27 J	0.011 U	0.011 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.0098 U	0.011 U	0.01 U	0.0099 U	0.0099 U
Isophorone	NC	NC	NC	0.013 U	0.015 U	0.013 U	0.013 U	0.013 U
Naphthalene	500	NC	12	0.0093 U	0.011 U	0.0096 U	0.0095 U	0.0095 U
Phenanthrene	500	NC	1000	0.012 U	0.014 U	0.75	0.055 J	0.055 J
Pyrene	500	NC	1000	0.0084 U	0.0098 U	0.14 J	0.0086 U	0.0086 U
Total SVOCs				ND	0.046	1.952	0.055	0.055
Total PAHs				ND	ND	1.81	0.055	0.055

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16	PASB-16	PASB-16	PASB-20	PASB-20
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10	PASB16-5-10	PASB16-35-40	PASB-20-8-10	PASB-20-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07	Z1384-08	Z1384-08	Z1341-17	Z1341-18
Sampling Date	Public Health	Ecological	Groundwater	2/1/08	Duplicate of	1/29/08	1/29/08	1/29/08
Matrix	Commercial	Resources		Soil	PASB16-5-10	Soil	mg/Kg	mg/Kg
Units				mg/Kg	mg/Kg	mg/Kg		
COMPOUND								
Total Carcinogenic PAHs				ND	ND	ND	ND	ND
Total Non-Carcinogenic PAHs				ND	ND	ND	1.81	0.055

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB21-11-13	PASB21-11-13	PASB22-3-5	PASB22-11-13	
Lab Sample Number	Protection of	Protection of	Protection of	Z1355-14	Z1355-15	Z1355-18	Z1355-19	
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	1/30/08	1/30/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.012 U	0.011 U	250	0.012 U	
2-Methylnaphthalene	NC	NC	NC	0.011 U	0.011 U	1100 D	0.011 U	
Acenaphthene	500	20	98	0.11 J	0.0083 U	240	0.0087 U	
Acenaphthylene	500	NC	107	0.0057 U	0.0056 U	340	0.0059 U	
Acetophenone	NC	NC	NC	0.012 U	0.011 U	1.3 U	0.012 U	
Anthracene	500	NC	1000	0.013 U	0.013 U	1100 D	0.014 U	
Benzaldehyde	NC	NC	NC	0.013 U	0.013 U	1.4 U	0.013 U	
Benzo(a)anthracene	5.6	NC	1	0.0094 U	0.0092 U	660 D	0.0097 U	
Benzo(a)pyrene	1	2.6	22	0.045 J	0.011 U	500 D	0.012 U	
Benzo(b)fluoranthene	5.6	NC	1.7	0.057 J	0.028 U	470 D	0.029 U	
Benzo(g,h,i)perylene	500	NC	1	0.028 U	0.028 U	270	0.029 U	
Benzo(k)fluoranthene	56	NC	1.7	0.018 U	0.018 U	160	0.018 U	
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.044 J	0.047 J	1.6 U	0.05 J	
Carbazole	NC	NC	NC	0.03 U	0.029 U	10 J	0.031 U	
Chrysene	56	NC	1	0.051 J	0.0071 U	660 D	0.0075 U	
Dibenz(a,h)anthracene	0.56	NC	1000	0.029 U	0.028 U	60	0.03 U	
Dibenzofuran	NC	NC	NC	0.012 U	0.012 U	100	0.012 U	
Fluoranthene	500	NC	1000	0.088 J	0.0093 U	1700 D	0.058 J	
Fluorene	500	30	386	0.059 J	0.01 U	890 D	0.011 U	
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.0099 U	0.0097 U	160	0.01 U	
Isophorone	NC	NC	NC	0.013 U	0.013 U	1.4 U	0.013 U	
Naphthalene	500	NC	12	0.04 J	0.0092 U	1600 D	0.054 J	
Phenanthrene	500	NC	1000	0.18 J	0.012 U	4400 D	0.15 J	
Pyrene	500	NC	1000	0.1 J	0.0083 U	2100 D	0.082 J	
Total SVOCs				0.774	0.047	16770	0.394	
Total PAHs				0.73	ND	16410	0.344	

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB21-3-5	PASB21-11-13	PASB22-3-5	PASB22-11-13	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1355-14	Z1355-15	Z1355-18	Z1355-19	
Sampling Date	Commercial			1/30/08	1/30/08	1/30/08	1/30/08	
Matrix				Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Total Carcinogenic PAHs				0.153	ND	2670	ND	
Total Non-Carcinogenic PAHs				0.577	ND	13740	0.344	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-23	PASB-23	PASB-24	PASB-25
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-23-3-5	PASB-23-12-15	PASB-24-5-10	PASB-25-1-6	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1356-01	Z1356-02	Z1384-01	Z1355-03	
Sampling Date	Commercial			1/30/08	1/30/08	2/1/08	1/30/08	
Matrix				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Units								
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.012 U	0.012 U	0.012 U	87	
2-Methylnaphthalene	NC	NC	NC	0.061 J	0.011 U	0.011 U	840 D	
Acenaphthene	500	20	98	0.17 J	0.0085 U	0.0087 U	630 D	
Acenaphthylene	500	NC	107	0.58	0.0057 U	0.0059 U	61	
Acetophenone	NC	NC	NC	0.047 J	0.012 U	0.012 U	1.1 U	
Anthracene	500	NC	1000	0.61	0.013 U	0.014 U	1800 D	
Benzaldehyde	NC	NC	NC	0.013 U	0.013 U	0.013 U	1.3 U	
Benzo(a)anthracene	5.6	NC	1	2	0.0094 U	0.0097 U	170	
Benzo(a)pyrene	1	2.6	22	0.95	0.012 U	0.012 U	120	
Benzo(b)fluoranthene	5.6	NC	1.7	2.1	0.028 U	0.029 U	100	
Benzo(g,h,i)perylene	500	NC	1	1.4	0.028 U	0.029 U	51	
Benzo(k)fluoranthene	56	NC	1.7	0.95	0.018 U	0.018 U	36 J	
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.066 J	0.041 J	0.015 U	1.5 U	
Carbazole	NC	NC	NC	0.03 U	0.03 U	0.031 U	6.6 J	
Chrysene	56	NC	1	2.1	0.0073 U	0.0075 U	180	
Dibenz(a,h)anthracene	0.56	NC	1000	0.34 J	0.029 U	0.03 U	13 J	
Dibenzofuran	NC	NC	NC	0.042 J	0.012 U	0.012 U	36 J	
Fluoranthene	500	NC	1000	3	0.0095 U	0.0097 U	350 D	
Fluorene	500	30	386	0.27 J	0.011 U	0.011 U	330 D	
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.88	0.0099 U	0.01 U	35 J	
Isophorone	NC	NC	NC	0.013 U	0.013 U	0.013 U	1.3 U	
Naphthalene	500	NC	12	0.19 J	0.0094 U	0.0097 U	1200 D	
Phenanthrene	500	NC	1000	1.6	0.012 U	0.013 U	1200 D	
Pyrene	500	NC	1000	4.6 D	0.0085 U	0.0088 U	480 D	
Total SVOCs				21.956	0.041	ND	7725.6	
Total PAHs				21.801	ND	ND	7596	

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-23	PASB-23	PASB-24	PASB-25
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-23-3-5	PASB-23-12-15	PASB-24-5-10	PASB-25-1-6	
Lab Sample Number	Protection of	Protection of	Protection of	Z1356-01	Z1356-02	Z1384-01	Z1355-03	
Sampling Date	Public Health	Ecological	Groundwater	1/30/08	1/30/08	2/1/08	1/30/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Total Carcinogenic PAHs				9.32	ND	ND	654	
Total Non-Carcinogenic PAHs				12.481	ND	ND	6942	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-25	PASB-25	PASB-25	PASB-26
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-31-36	PASB25-9-14	PASB25-18-20	PASB-26-4-6			
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Duplicate of PASB25-1-6	1/30/08	1/30/08	1/31/08			
Sampling Date	Commercial			mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Matrix										
Units										
COMPOUND										
1,1-Biphenyl	NC	NC	NC	72	15	0.012 U				28
2-Methylnaphthalene	NC	NC	NC	680 D	25	0.011 U				140 J
Acenaphthene	500	20	98	510 D	66 D	0.0085 U				120
Acenaphthylene	500	NC	107	63	12	0.085 J				19
Acetophenone	NC	NC	NC	1.2 U	0.11 U	0.012 U				0.57 U
Anthracene	500	NC	1000	1800 D	50 D	0.31 J				110
Benzaldehyde	NC	NC	NC	1.3 U	0.12 U	0.013 U				0.64 U
Benzo(a)anthracene	5.6	NC	1	160	32 D	0.3 J				63 J
Benzo(a)pyrene	1	2.6	22	120	27	0.22 J				43
Benzo(b)fluoranthene	5.6	NC	1.7	100	21	0.16 J				32
Benzo(g,h,i)perylene	500	NC	1	59	12	0.12 J				20
Benzo(k)fluoranthene	56	NC	1.7	40 J	7.5	0.077 J				13 J
bis(2-Ethylhexyl)phthalate	NC	NC	NC	1.5 U	0.14 U	0.049 J				0.73 U
Carbazole	NC	NC	NC	6.6 J	0.28 U	0.03 U				1.5 U
Chrysene	56	NC	1	180	29	0.18 J				58
Dibenz(a,h)anthracene	0.56	NC	1000	16 J	2.5 J	0.029 U				4.2 J
Dibenzofuran	NC	NC	NC	32 J	5.3	0.012 U				9.1 J
Fluoranthene	500	NC	1000	330 D	66 D	0.6				140
Fluorene	500	30	386	300	43 D	0.23 J				110
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	37 J	6.7	0.069 J				15 J
Isophorone	NC	NC	NC	1.3 U	0.12 U	0.013 U				0.63 U
Naphthalene	500	NC	12	1200 D	31 D	0.0095 U				330 D
Phenanthrene	500	NC	1000	920 D	210 D	1.7				420 D
Pyrene	500	NC	1000	480 D	86 D	0.84				170 D
Total SVOCs				7105.6	747	4.94				1844.3
Total PAHs				6995	726.7	4.891				1807.2

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-25	PASB-25	PASB-26
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB25-31-36	PASB25-9-14	PASB25-18-20	PASB-26-4-6		
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1355-06	Z1355-04	Z1355-05	Z1370-03		
Sampling Date	Commercial			Duplicate of PASB25-1-6	1/30/08	1/30/08	1/31/08		
Matrix				mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Units									
COMPOUND									
Total Carcinogenic PAHs				653	125.7	1.006	228.2		
Total Non-Carcinogenic PAHs				6342	601	3.885	1579		

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-26	PASB-27	PASB-27	PASB-27
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-26-11-13	PASB-27-4-6	PASB-27-13-15	PASB-28
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-04	Z1355-07	Z1355-10	PASB-28-1-3
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/30/08	1/30/08	Z1370-09
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,1-Biphenyl	NC	NC	NC	0.11 U	0.2 J	0.012 U	0.6 U
2-Methylnaphthalene	NC	NC	NC	0.98 J	1.9	0.011 U	0.57 U
Acenaphthene	500	20	98	0.99 J	2.2	0.0087 U	3.4 J
Acenaphthylene	500	NC	107	0.056 U	0.066 J	0.0059 U	9.5 J
Acetophenone	NC	NC	NC	0.11 U	0.018 U	0.012 U	0.6 U
Anthracene	500	NC	1000	0.74 J	0.85	0.045 J	4.2 J
Benzaldehyde	NC	NC	NC	0.13 U	0.02 U	0.013 U	0.67 U
Benzo(a)anthracene	5.6	NC	1	0.49 J	0.15 J	0.0097 U	37 J
Benzo(a)pyrene	1	2.6	22	0.11 U	0.1 J	0.012 U	43
Benzo(b)fluoranthene	5.6	NC	1.7	0.27 U	0.11 J	0.029 U	41
Benzo(g,h,i)perylene	500	NC	1	0.28 U	0.062 J	0.029 U	32
Benzo(k)fluoranthene	56	NC	1.7	0.17 U	0.028 U	0.018 U	13 J
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.15 U	0.023 U	0.015 U	0.77 U
Carbazole	NC	NC	NC	0.29 U	0.085 J	0.031 U	1.5 U
Chrysene	56	NC	1	0.4 J	0.15 J	0.0075 U	38
Dibenz(a,h)anthracene	0.56	NC	1000	0.28 U	0.045 U	0.03 U	6.3 J
Dibenzofuran	NC	NC	NC	0.12 U	0.21 J	0.012 U	0.62 U
Fluoranthene	500	NC	1000	1.1 J	0.45 J	0.0098 U	41
Fluorene	500	30	386	0.87 J	0.81	0.011 U	0.54 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.096 U	0.015 U	0.01 U	24
Isophorone	NC	NC	NC	0.12 U	0.02 U	0.013 U	0.66 U
Naphthalene	500	NC	12	1.7 J	21 D	0.079 J	4.9 J
Phenanthrene	500	NC	1000	3.3 J	1.9	0.083 J	4.8 J
Pyrene	500	NC	1000	1.4 J	0.61 J	0.0088 U	88
Total SVOCs				11.97	30.853	0.207	390.1
Total PAHs				11.97	30.358	0.207	390.1

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-26	PASB-27	PASB-27	PASB-28
Sample ID							
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-26-11-13	PASB27-4-6	PASB27-13-15	PASB-28-1-3
Sampling Date	Protection of	Protection of	Protection of	Z1370-04	Z1355-07	Z1355-10	Z1370-09
Matrix	Public Health	Ecological	Groundwater	1/31/08	1/30/08	1/30/08	1/31/08
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Total Carcinogenic PAHs				0.89	0.51	ND	202.3
Total Non-Carcinogenic PAHs				11.08	29.848	0.207	187.8

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-28	PASB-29	PASB-29	PASB-29	PASB-30
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-28-11-13	PASB-29-3-5	PASB-29-13-15	PASB-30-4-6	
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-10	Z1370-13	Z1370-14	Z1370-17	
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/31/08	1/31/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
1,1-Biphenyl	NC	NC	NC	0.12 U	0.11 U	0.14 U		34
2-Methylnaphthalene	NC	NC	NC	0.11 UJ	0.75 J	0.13 UJ		310 D
Acenaphthene	500	20	98	0.086 U	0.77 J	0.099 U		140
Acenaphthylene	500	NC	107	0.058 U	0.053 U	0.067 U		21 J
Acetophenone	NC	NC	NC	0.12 U	0.11 U	0.14 U		0.63 U
Anthracene	500	NC	1000	0.13 U	0.65 J	0.15 U		110
Benzaldehyde	NC	NC	NC	0.13 U	0.12 U	0.15 U		0.71 U
Benzo(a)anthracene	5.6	NC	1	0.096 UJ	0.73 J	0.11 UJ		46 J
Benzo(a)pyrene	1	2.6	22	0.12 U	0.38 J	0.14 U		34
Benzo(b)fluoranthene	5.6	NC	1.7	0.29 U	0.26 U	0.33 U		26
Benzo(g,h,i)perylene	500	NC	1	0.29 U	0.26 U	0.33 U		17 J
Benzo(k)fluoranthene	56	NC	1.7	0.18 U	0.16 U	0.21 U		10 J
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.15 U	0.14 U	0.18 U		0.81 U
Carbazole	NC	NC	NC	0.3 U	0.27 U	0.35 U		2.4 J
Chrysene	56	NC	1	0.074 U	0.88 J	0.085 U		51
Dibenz(a,h)anthracene	0.56	NC	1000	0.29 U	0.26 U	0.34 U		3.7 J
Dibenzofuran	NC	NC	NC	0.12 U	0.11 U	0.14 U		10 J
Fluoranthene	500	NC	1000	0.096 U	0.71 J	0.11 U		91
Fluorene	500	30	386	0.11 U	0.097 U	0.12 U		82
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.1 U	0.091 U	0.12 U		13 J
Isophorone	NC	NC	NC	0.13 U	0.12 U	0.15 U		0.69 U
Naphthalene	500	NC	12	0.096 U	2.2 J	0.11 U		980 D
Phenanthrene	500	NC	1000	0.12 U	1.6 J	0.14 U		290 D
Pyrene	500	NC	1000	0.087 U	2.7 J	0.1 U		130
Total SVOCs				ND	11.37	ND		2401.1
Total PAHs				ND	11.37	ND		2354.7

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-28	PASB-29	PASB-29	PASB-29	PASB-29	PASB-30
Sample ID									
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-28-11-13	PASB-29-3-5	PASB-29-13-15	PASB-30-4-6		
Sampling Date	Protection of	Protection of	Protection of	Z1370-10	Z1370-13	Z1370-14	Z1370-17		
Matrix	Public Health	Ecological	Groundwater	1/31/08	1/31/08	1/31/08	1/31/08		
Units	Commercial	Resources		Soil	Soil	Soil	Soil		
				mg/Kg	mg/Kg	mg/Kg	mg/Kg		
COMPOUND									
Total Carcinogenic PAHs				ND	1.99	ND	183.7		
Total Non-Carcinogenic PAHs				ND	9.38	ND	2171		

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-30	PASB-30-34-36	PASB-30	PASB-30-21-26	PASB-31	PASB-31
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	Z1370-21	Duplicate of	Z1370-18	1/29/08	Duplicate of	PASB-31-32-34
Lab Sample Number	Protection of	Protection of	Protection of	PASB-30-4-6	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Z1341-06
Sampling Date	Public Health	Ecological	Groundwater						
Matrix	Commercial	Resources							
Units									
COMPOUND									
1,1-Biphenyl	NC	NC	NC	53		0.12 U	0.45 J		0.29 J
2-Methylnaphthalene	NC	NC	NC	490 DJ		0.11 UJ	2.5		1.4
Acenaphthene	500	20	98	240 D		0.084 U	9.1 D		4.4 D
Acenaphthylene	500	NC	107	37		0.057 U	1.1		0.45
Acetophenone	NC	NC	NC	0.56 U		0.12 U	0.024 U		0.012 U
Anthracene	500	NC	1000	170 D		0.13 U	8 D		3.3 D
Benzaldehyde	NC	NC	NC	0.63 U		0.13 U	0.027 U		0.013 U
Benzo(a)anthracene	5.6	NC	1	85 J		0.094 UJ	6.1		2.5
Benzo(a)pyrene	1	2.6	22	60		0.11 U	5.4		2
Benzo(b)fluoranthene	5.6	NC	1.7	48		0.28 U	4.7		1.7
Benzo(g,h,i)perylene	500	NC	1	29		0.28 U	2.5		0.95
Benzo(k)fluoranthene	56	NC	1.7	15 J		0.18 U	1.3		0.58
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.72 U		0.15 U	0.13 U		0.061 U
Carbazole	NC	NC	NC	3 J		0.3 U	0.062 U		0.03 U
Chrysene	56	NC	1	87		0.072 U	5.1		2.1
Dibenz(a,h)anthracene	0.56	NC	1000	5.8 J		0.29 U	0.57 J		0.22 J
Dibenzofuran	NC	NC	NC	16 J		0.12 U	0.62 J		0.38 J
Fluoranthene	500	NC	1000	170 D		0.094 U	11 D		4.2 D
Fluorene	500	30	386	130		0.1 U	6.2		2.9 D
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	23		0.099 U	1.6		0.61
Isophorone	NC	NC	NC	0.62 U		0.13 U	0.026 U		0.013 U
Naphthalene	500	NC	12	1500 D		0.094 U	4.5		2.8
Phenanthrene	500	NC	1000	470 D		0.12 U	23 D		11 D
Pyrene	500	NC	1000	220 D		0.085 U	19 D		6.9 D
Total SVOCs				3851.8		ND	112.74		48.68
Total PAHs				3779.8		ND	111.67		48.01

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-30	PASB-30	PASB-30	PASB-31	PASB-31
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-30-34-36	PASB-30-21-26	PASB-31-2-4	PASB-31-32-34	
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-21	Z1370-18	Z1341-04	Z1341-06	
Sampling Date	Public Health	Ecological	Groundwater	Duplicate of	1/31/08	1/29/08	Duplicate of	
Matrix	Commercial	Resources		PASB-30-4-6	Soil	Soil	PASB-31-2-4	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Total Carcinogenic PAHs				323.8	ND	24.77	9.71	
Total Non-Carcinogenic PAHs				3456	ND	86.9	38.3	

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- NC - No criteria.
- ND - Not detected.
- Shading indicates exceedance of at least one of the three criteria.
- NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.
- PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC		NYSDEC		NYSDEC		PASB-31		PASB-32		PASB-32		PASB-33	
Sample ID	Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-10-15	PASB-32-2-4	PASB-32-6-10	PASB-33-1-3				
Lab Sample Number	Lab Sample Number	Protection of	Protection of	Protection of	Protection of	Protection of	Protection of	Z1341-05	Z1341-02	Z1341-03	Z1341-11				
Sampling Date	Sampling Date	Public Health	Ecological	Groundwater	Groundwater	Groundwater	Groundwater	1/29/08	1/29/08	1/29/08	1/29/08				
Matrix	Matrix	Commercial	Resources					mg/Kg	mg/Kg	mg/Kg	mg/Kg				
Units	Units														
COMPOUND															
1,1-Biphenyl		NC	NC	NC	NC	NC	NC	0.14 J	0.012 U	0.012 U	0.058 U				
2-Methylnaphthalene		NC	NC	NC	NC	NC	NC	0.75	0.011 U	0.011 U	0.48 J				
Acenaphthene		500	20	98	98	98	98	0.12 J	0.0086 U	0.0085 U	0.24 J				
Acenaphthylene		500	NC	107	107	107	107	0.14 J	0.0058 U	0.0058 U	2.6				
Acetophenone		NC	NC	NC	NC	NC	NC	0.012 U	0.012 U	0.012 U	0.059 U				
Anthracene		500	NC	1000	1000	1000	1000	0.33 J	0.013 U	0.013 U	39 D				
Benzaldehyde		NC	NC	NC	NC	NC	NC	0.013 U	0.013 U	0.013 U	0.066 U				
Benzo(a)anthracene		5.6	NC	1	1	1	1	0.27 J	0.0096 U	0.0095 U	8.2				
Benzo(a)pyrene		1	2.6	22	22	22	22	0.23 J	0.012 U	0.012 U	8				
Benzo(b)fluoranthene		5.6	NC	1.7	1.7	1.7	1.7	0.18 J	0.029 U	0.028 U	9.1				
Benzo(g,h,i)perylene		500	NC	1	1	1	1	0.14 J	0.029 U	0.028 U	6.5				
Benzo(k)fluoranthene		56	NC	1.7	1.7	1.7	1.7	0.08 J	0.018 U	0.018 U	3.5				
bis(2-Ethylhexyl)phthalate		NC	NC	NC	NC	NC	NC	0.058 U	0.048 U	0.04 U	0.075 U				
Carbazole		NC	NC	NC	NC	NC	NC	0.03 U	0.03 U	0.03 U	0.15 U				
Chrysene		56	NC	1	1	1	1	0.21 J	0.0074 U	0.0073 U	17 D				
Dibenz(a,h)anthracene		0.56	NC	1000	1000	1000	1000	0.029 U	0.029 U	0.029 U	1.2 J				
Dibenzofuran		NC	NC	NC	NC	NC	NC	0.045 J	0.012 U	0.012 U	0.061 U				
Fluoranthene		500	NC	1000	1000	1000	1000	0.68	0.0096 U	0.0095 U	14				
Fluorene		500	30	386	386	386	386	0.37 J	0.011 U	0.011 U	1.4 J				
Indeno(1,2,3-cd)pyrene		5.6	NC	8.2	8.2	8.2	8.2	0.085 J	0.01 U	0.0099 U	4.2				
Isophorone		NC	NC	NC	NC	NC	NC	0.013 U	0.11 J	0.013 U	0.064 U				
Naphthalene		500	NC	12	12	12	12	0.95	0.0096 U	0.0095 U	0.82 J				
Phenanthrene		500	NC	1000	1000	1000	1000	1.5	0.012 U	0.012 U	11				
Pyrene		500	NC	1000	1000	1000	1000	0.76	0.0087 U	0.0086 U	18 D				
Total SVOCs								6.98	0.11	ND	145.24				
Total PAHs								6.824	ND	ND	145.24				

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-32	PASB-32	PASB-32	PASB-33
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-31-10-15	PASB-32-2-4	PASB-32-6-10	PASB-33-1-3	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1341-05	Z1341-02	Z1341-03	Z1341-11	
Sampling Date	Commercial			1/29/08	1/29/08	1/29/08	1/29/08	
Matrix				Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Total Carcinogenic PAHs				1.055	ND	ND	51.2	
Total Non-Carcinogenic PAHs				5.769	ND	ND	94.04	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-33	PASB-34	PASB-35	PASB-35
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-33-6-10	PASB-34-4-6	PASB-35-5-8	PASB-35-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-12	Z1370-22	Z1418-08	Z1418-09
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/31/08	2/4/08	2/4/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,1-Biphenyl	NC	NC	NC	0.012 U	0.11 U	0.011 U	0.012 U
2-Methylnaphthalene	NC	NC	NC	0.011 U	0.11 U	0.3 J	0.011 U
Acenaphthene	500	20	98	0.0085 U	0.081 U	0.59	0.0088 U
Acenaphthylene	500	NC	107	0.0057 U	0.055 U	0.0057 U	0.006 U
Acetophenone	NC	NC	NC	0.012 U	0.11 U	0.012 U	0.012 U
Anthracene	500	NC	1000	0.059 J	0.13 U	0.042 J	0.014 U
Benzaldehyde	NC	NC	NC	0.013 U	0.13 U	0.013 U	0.014 U
Benzo(a)anthracene	5.6	NC	1	0.0095 U	0.091 U	0.0093 U	0.0098 U
Benzo(a)pyrene	1	2.6	22	0.012 U	0.11 U	0.011 U	0.012 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.028 U	0.27 U	0.028 U	0.029 U
Benzo(g,h,i)perylene	500	NC	1	0.028 U	0.27 U	0.028 U	0.029 U
Benzo(k)fluoranthene	56	NC	1.7	0.018 U	0.17 U	0.018 U	0.019 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.049 U	0.14 U	0.015 U	0.016 U
Carbazole	NC	NC	NC	0.03 U	0.29 U	0.03 U	0.031 U
Chrysene	56	NC	1	0.0073 U	0.07 U	0.0072 U	0.0076 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.029 U	0.28 U	0.029 U	0.03 U
Dibenzofuran	NC	NC	NC	0.012 U	0.12 U	0.044 J	0.013 U
Fluoranthene	500	NC	1000	0.0095 U	0.091 U	0.051 J	0.0099 U
Fluorene	500	30	386	0.011 U	0.1 U	0.17 J	0.011 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.0099 U	0.095 U	0.0098 U	0.01 U
Isophorone	NC	NC	NC	0.013 U	0.12 U	0.013 U	0.013 U
Naphthalene	500	NC	12	0.0095 U	0.89 J	1.7	0.0098 U
Phenanthrene	500	NC	1000	0.012 U	0.42 J	0.39	0.1 J
Pyrene	500	NC	1000	0.0086 U	0.082 U	0.055 J	0.055 J
Total SVOCs				0.059	1.31	3.342	0.155
Total PAHs				0.059	1.31	3.298	0.155

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-33	PASB-34	PASB-35	PASB-35
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-33-6-10	PASB-34-4-6	PASB-35-5-8	PASB-35-11-13
Lab Sample Number	Protection of	Protection of	Protection of	Z1341-12	Z1370-22	Z1418-08	Z1418-09
Sampling Date	Public Health	Ecological	Groundwater	1/29/08	1/31/08	2/4/08	2/4/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Total Carcinogenic PAHs				ND	ND	ND	ND
Total Non-Carcinogenic PAHs				0.059	1.31	3.298	0.155

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-36	PASB-36	PASB-36	PASB-37	PASB-37
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-36-6-8	PASB-36-11-13	PASB-37-5-7	PASB-37-11-13	
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-01	Z1418-02	Z1418-03	Z1418-04	
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	2/5/08	2/5/08	2/5/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
1,1-Biphenyl	NC	NC	NC	2.9 J	0.012 U	0.12 U	0.011 U	
2-Methylnaphthalene	NC	NC	NC	4.6 J	0.011 U	1.1 J	0.011 U	
Acenaphthene	500	20	98	110 D	0.13 J	7.2	0.0083 U	
Acenaphthylene	500	NC	107	41	0.048 J	4.7	0.0056 U	
Acetophenone	NC	NC	NC	0.26 U	0.012 U	0.12 U	0.011 U	
Anthracene	500	NC	1000	220 D	0.2 J	14	0.046 J	
Benzaldehyde	NC	NC	NC	0.29 U	0.013 U	0.14 U	0.013 U	
Benzo(a)anthracene	5.6	NC	1	240 D	0.24 J	22	0.08 J	
Benzo(a)pyrene	1	2.6	22	190 D	0.18 J	17	0.049 J	
Benzo(b)fluoranthene	5.6	NC	1.7	140 D	0.093 J	15	0.046 J	
Benzo(g,h,i)perylene	500	NC	1	91 D	0.094 J	9	0.028 U	
Benzo(k)fluoranthene	56	NC	1.7	53	0.13 J	5.2	0.018 U	
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.33 U	0.015 U	0.16 U	0.015 U	
Carbazole	NC	NC	NC	0.66 U	0.03 U	0.32 U	0.029 U	
Chrysene	56	NC	1	220 D	0.2 J	20	0.067 J	
Dibenz(a,h)anthracene	0.56	NC	1000	20	0.029 U	2.3 J	0.028 U	
Dibenzofuran	NC	NC	NC	13	0.012 U	1.2 J	0.012 U	
Fluoranthene	500	NC	1000	540 D	0.59	43 D	0.15 J	
Fluorene	500	30	386	130 D	0.14 J	11	0.01 U	
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	79 D	0.0099 U	7.5	0.0097 U	
Isophorone	NC	NC	NC	0.28 U	0.013 U	0.14 U	0.013 U	
Naphthalene	500	NC	12	37	0.052 J	3.9 J	0.039 J	
Phenanthrene	500	NC	1000	910 D	0.97	57 D	0.2 J	
Pyrene	500	NC	1000	670 D	0.75	56 D	0.21 J	
Total SVOCs				3711.5	3.817	297.1	0.887	
Total PAHs				3695.6	3.817	295.9	0.887	

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-36	PASB-36	PASB-36	PASB-37	PASB-37
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-36-6-8	PASB-36-11-13	PASB-37-5-7	PASB-37-11-13	
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-01	Z1418-02	Z1418-03	Z1418-04	
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	2/5/08	2/5/08	2/5/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND								
Total Carcinogenic PAHs				942	0.843	89	0.242	
Total Non-Carcinogenic PAHs				2753.6	2.974	206.9	0.645	

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-38	PASB-39	PASB-40	PASB-41
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-38-5-7	PASB39-4-9	PASB40-15-17	PASB41-6-8
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-05	Z3630-05	Z3645-02	Z3630-01
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	7/9/08	7/10/08	7/9/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,1-Biphenyl	NC	NC	NC	0.015 U	0.013 U	0.012 U	13
2-Methylnaphthalene	NC	NC	NC	0.014 U	0.012 U	0.011 U	64 D
Acenaphthene	500	20	98	0.011 U	0.0092 U	0.0085 U	7.1 D
Acenaphthylene	500	NC	107	0.0074 U	0.0062 U	0.0058 U	68 D
Acetophenone	NC	NC	NC	0.015 U	0.013 U	0.012 U	0.14 U
Anthracene	500	NC	1000	0.017 U	0.014 U	0.013 U	110 D
Benzaldehyde	NC	NC	NC	0.017 U	0.014 U	0.013 U	0.16 U
Benzo(a)anthracene	5.6	NC	1	0.012 U	0.01 U	0.0095 U	29
Benzo(a)pyrene	1	2.6	22	0.015 U	0.012 U	0.012 U	23
Benzo(b)fluoranthene	5.6	NC	1.7	0.037 U	0.031 U	0.028 U	21
Benzo(g,h,i)perylene	500	NC	1	0.037 U	0.031 U	0.028 U	5.8
Benzo(k)fluoranthene	56	NC	1.7	0.023 U	0.019 U	0.018 U	7.3
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.019 U	0.016 U	0.015 U	0.18 U
Carbazole	NC	NC	NC	0.039 U	0.032 U	0.03 U	0.66 J
Chrysene	56	NC	1	0.0095 U	0.0079 U	0.0073 U	39 D
Dibenz(a,h)anthracene	0.56	NC	1000	0.037 U	0.031 U	0.029 U	0.61 J
Dibenzofuran	NC	NC	NC	0.016 U	0.013 U	0.012 U	4.6 J
Fluoranthene	500	NC	1000	0.071 J	0.01 U	0.0095 U	56 D
Fluorene	500	30	386	0.014 U	0.011 U	0.011 U	35
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.013 U	0.011 U	0.0099 U	4.4 J
Isophorone	NC	NC	NC	0.017 U	0.014 U	0.013 U	0.15 U
Naphthalene	500	NC	12	0.012 U	0.01 U	0.0095 U	120 D
Phenanthrene	500	NC	1000	0.099 J	0.013 U	0.012 U	140 D
Pyrene	500	NC	1000	0.1 J	0.0092 U	0.0086 U	79 D
Total SVOCs				0.27	ND	ND	827.47
Total PAHs				0.27	ND	ND	809.21

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-38	PASB-39	PASB-40	PASB-41
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-38-5-7	PASB39-4-9	PASB40-15-17	PASB41-6-8
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-05	Z3630-05	Z3645-02	Z3630-01
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	7/9/08	7/10/08	7/9/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Total Carcinogenic PAHs				ND	ND	ND	124.31
Total Non-Carcinogenic PAHs				0.27	ND	ND	684.9

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- NC - No criteria.
- ND - Not detected.
- Shading indicates exceedance of at least one of the three criteria.
- NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.
- PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-41	PASB-42	PASB-43	PASB-43
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB41-11-13	PASB-42-23-25	PASB-43-13-15	PASB-43-23-25
Lab Sample Number	Protection of	Protection of	Protection of	Z3630-02	Z3063-03	Z3063-01	Z3063-02
Sampling Date	Public Health	Ecological	Groundwater	7/9/08	7/8/08	7/8/08	7/8/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
1,1-Biphenyl	NC	NC	NC	0.012 U	0.012 U	0.012 U	0.012 U
2-Methylnaphthalene	NC	NC	NC	0.011 U	0.011 U	0.011 U	0.011 U
Acenaphthene	500	20	98	0.0085 U	0.0086 U	0.0087 U	0.0088 U
Acenaphthylene	500	NC	107	0.0058 U	0.0058 U	0.0059 U	0.006 U
Acetophenone	NC	NC	NC	0.012 U	0.012 U	0.012 U	0.012 U
Anthracene	500	NC	1000	0.013 U	0.013 U	0.014 U	0.014 U
Benzaldehyde	NC	NC	NC	0.013 U	0.013 U	0.013 U	0.014 U
Benzo(a)anthracene	5.6	NC	1	0.0095 U	0.0096 U	0.0097 U	0.0098 U
Benzo(a)pyrene	1	2.6	22	0.012 U	0.012 U	0.012 U	0.012 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.028 U	0.029 U	0.029 U	0.029 U
Benzo(g,h,i)perylene	500	NC	1	0.028 U	0.029 U	0.029 U	0.029 U
Benzo(k)fluoranthene	56	NC	1.7	0.018 U	0.018 U	0.018 U	0.019 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.015 U	0.015 U	0.15 J	0.016 U
Carbazole	NC	NC	NC	0.03 U	0.03 U	0.031 U	0.031 U
Chrysene	56	NC	1	0.0073 U	0.0074 U	0.0075 U	0.0076 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.029 U	0.029 U	0.03 U	0.03 U
Dibenzofuran	NC	NC	NC	0.012 U	0.012 U	0.012 U	0.013 U
Fluoranthene	500	NC	1000	0.0095 U	0.0096 U	0.0097 U	0.0099 U
Fluorene	500	30	386	0.011 U	0.011 U	0.011 U	0.011 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.0099 U	0.01 U	0.01 U	0.01 U
Isophorone	NC	NC	NC	0.013 U	0.013 U	0.013 U	0.013 U
Naphthalene	500	NC	12	0.0095 U	0.0096 U	0.0097 U	0.0098 U
Phenanthrene	500	NC	1000	0.012 U	0.012 U	0.013 U	0.013 U
Pyrene	500	NC	1000	0.0086 U	0.0087 U	0.0088 U	0.0089 U
Total SVOCs				ND	ND	0.15	ND
Total PAHs				ND	ND	ND	ND

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-41	PASB-42	PASB-43	PASB-43
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB41-11-13	PASB-42-23-25	PASB-43-13-15	PASB-43-23-25
Lab Sample Number	Protection of	Protection of	Protection of	Z3630-02	Z3063-03	Z3063-01	Z3063-02
Sampling Date	Public Health	Ecological	Groundwater	7/9/08	7/8/08	7/8/08	7/8/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Total Carcinogenic PAHs				ND	ND	ND	ND
Total Non-Carcinogenic PAHs				ND	ND	ND	ND

Notes:

- U - Non-detected.
- J - Estimated.
- D - Diluted.
- NC - No criteria.
- ND - Not detected.
- Shading indicates exceedance of at least one of the three criteria.
- NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.
- PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-44	PASB-45	PASB-46	MW-2D
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB44-7-9	PASB45-5-7	PASB46-6-8	PASB-MW2D-6-10
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	7/9/08	7/9/08	7/10/08	2/4/08
Matrix	Commercial			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Units							
COMPOUND							
1,1-Biphenyl	NC	NC	NC	0.013 U	3.9 J	0.013 U	0.013 U
2-Methylnaphthalene	NC	NC	NC	0.012 U	3 J	0.012 U	0.012 U
Acenaphthene	500	20	98	0.0091 U	23	0.0093 U	0.0094 U
Acenaphthylene	500	NC	107	0.0062 U	16	0.0063 U	0.0063 U
Acetophenone	NC	NC	NC	0.013 U	0.3 U	0.013 U	0.013 U
Anthracene	500	NC	1000	0.014 U	61	0.014 U	0.015 U
Benzaldehyde	NC	NC	NC	0.014 U	2.9 J	0.014 U	0.015 U
Benzo(a)anthracene	5.6	NC	1	0.01 U	87 D	0.01 U	0.01 U
Benzo(a)pyrene	1	2.6	22	0.012 U	81	0.013 U	0.013 U
Benzo(b)fluoranthene	5.6	NC	1.7	0.03 U	80	0.031 U	0.031 U
Benzo(g,h,i)perylene	500	NC	1	0.031 U	19	0.031 U	0.031 U
Benzo(k)fluoranthene	56	NC	1.7	0.019 U	24	0.02 U	0.02 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	0.016 U	0.39 U	0.016 U	0.017 U
Carbazole	NC	NC	NC	0.032 U	0.78 U	0.033 U	0.033 U
Chrysene	56	NC	1	0.0079 U	87 D	0.008 U	0.0081 U
Dibenz(a,h)anthracene	0.56	NC	1000	0.031 U	1.7 J	0.031 U	0.032 U
Dibenzofuran	NC	NC	NC	0.013 U	3.2 J	0.013 U	0.013 U
Fluoranthene	500	NC	1000	0.01 U	120 D	0.01 U	0.011 U
Fluorene	500	30	386	0.011 U	25	0.012 U	0.012 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	0.011 U	13	0.011 U	0.011 U
Isophorone	NC	NC	NC	0.014 U	0.33 U	0.014 U	0.014 U
Naphthalene	500	NC	12	0.01 U	3.4 J	0.01 U	0.069 J
Phenanthrene	500	NC	1000	0.013 U	130 D	0.013 U	0.049 J
Pyrene	500	NC	1000	0.0092 U	180 D	0.0093 U	0.0095 U
Total SVOCs				ND	964.1	ND	0.118
Total PAHs				ND	954.1	ND	0.118

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-44	PASB-45	PASB-46	MW-2D
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB44-7-9	PASB45-5-7	PASB46-6-8	PASB-MW2D-6-10
Lab Sample Number	Protection of	Protection of	Protection of	Z3630-03	Z3630-04	Z3645-10	Z1418-07
Sampling Date	Public Health	Ecological	Groundwater	7/9/08	7/9/08	7/10/08	2/4/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND							
Total Carcinogenic PAHs				ND	373.7	ND	ND
Total Non-Carcinogenic PAHs				ND	580.4	ND	0.118

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	NYSDEC	MW-4D
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-MW4D-5-10	
Lab Sample Number	Protection of Public Health	Protection of Ecological Resources	Soil Criteria	Soil Criteria	Z1418-06
Sampling Date	Commercial		Protection of Groundwater	2/4/08	
Matrix					Soil
Units					mg/Kg
COMPOUND					
1,1-Biphenyl	NC	NC	NC	NC	0.012 U
2-Methylnaphthalene	NC	NC	NC	NC	0.012 U
Acenaphthene	500	20	98	98	0.0089 U
Acenaphthylene	500	NC	107	107	0.006 U
Acetophenone	NC	NC	NC	NC	0.012 U
Anthracene	500	NC	1000	1000	0.014 U
Benzaldehyde	NC	NC	NC	NC	0.014 U
Benzo(a)anthracene	5.6	NC	1	1	0.0099 U
Benzo(a)pyrene	1	2.6	22	22	0.012 U
Benzo(b)fluoranthene	5.6	NC	1.7	1.7	0.03 U
Benzo(g,h,i)perylene	500	NC	1	1	0.03 U
Benzo(k)fluoranthene	56	NC	1.7	1.7	0.019 U
bis(2-Ethylhexyl)phthalate	NC	NC	NC	NC	0.016 U
Carbazole	NC	NC	NC	NC	0.032 U
Chrysene	56	NC	1	1	0.0077 U
Dibenz(a,h)anthracene	0.56	NC	1000	1000	0.03 U
Dibenzofuran	NC	NC	NC	NC	0.013 U
Fluoranthene	500	NC	1000	1000	0.01 U
Fluorene	500	30	386	386	0.011 U
Indeno(1,2,3-cd)pyrene	5.6	NC	8.2	8.2	0.01 U
Isophorone	NC	NC	NC	NC	0.014 U
Naphthalene	500	NC	12	12	0.01 U
Phenanthrene	500	NC	1000	1000	0.013 U
Pyrene	500	NC	1000	1000	0.009 U
Total SVOCs					ND
Total PAHs					ND

Table 4-6
Semi-Volatile Organic Compounds Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC	NYSDEC	NYSDEC	MW-4D
Sample ID	Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-MW4D-5-10
Sampling Date	Matrix	Protection of Public Health	Protection of Ecological Resources	Protection of Groundwater	Z1418-06
Units		Commercial			2/4/08
					Soil
					mg/Kg
COMPOUND					
Total Carcinogenic PAHs					ND
Total Non-Carcinogenic PAHs					ND

Notes:

U - Non-detected.

J - Estimated.

D - Diluted.

NC - No criteria.

ND - Not detected.

Shading indicates exceedance of at least one of the three criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-16	PASB-16	PASB-16	PASB-20	PASB-20	PASB-20
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10	PASB16-5-10	PASB16-35-40	PASB-20-8-10	PASB-20-11-13	
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07	Z1384-08	Z1384-08	Z1341-17	Z1341-18	
Sampling Date	Public Health	Ecological	Groundwater	2/1/08	Duplicate of	Duplicate of	1/29/08	1/29/08	
Matrix	Commercial	Resources		Soil	PASB16-5-10	PASB16-5-10	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
CONSTITUENT									
Cyanide	27	NC	40	0.59 U	0.68 U	0.60 U	0.59 U	0.59 U	

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

U - Non-detected.

1.1 - Estimated

NO OFFICIAL

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-23	PASB-23	PASB-23-12-15	PASB-24	PASB-25
Sample ID	Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	PASB-23-3-5	PASB-23-12-15	PASB-24-5-10	PASB-25-1-6	
Lab Sample Number	Sampling Date	Protection of	Protection of	Protection of	Z1356-01	Z1356-02	Z1384-01	Z1355-03	
Matrix	Units	Public Health	Ecological	Groundwater	1/30/08	1/30/08	2/1/08	1/30/08	
		Commercial	Resources		Soil	Soil	Soil	Soil	
					mg/Kg	mg/Kg	mg/Kg	mg/Kg	
CONSTITUENT									
Cyanide		27	NC	40	1.12	0.014 U	0.61 U	0.582 U	

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7

Notes:
U - Non-detected.
J - Estimated.
NC - No Criteria.
NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted
Use Soil Cleanup Objectives, 2008.
PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

U - Non-detected.

NC - No Criteria.

NYSDC Remedial Program Soil Cleanup Objectives, Table 3/5-6.8(b): Restricted Use Soil Cleanup Objectives - 2008

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-26	PASB-27	PASB-27	PASB-27	PASB-28
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-26-11-13	PASB27-4-6	PASB27-13-15	PASB-28-1-3	
Lab Sample Number	Protection of	Protection of	Protection of	Z1370-04	Z1355-07	Z1355-10	Z1370-09	
Sampling Date	Public Health	Ecological	Groundwater	1/31/08	1/30/08	1/30/08	1/31/08	
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil	
Units				mg/Kg	mg/Kg	mg/Kg	mg/Kg	
CONSTITUENT								
Cyanide	27	NC	40	0.58 U	0.923 U	0.612 U	0.62 U	

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location																	
Sample ID	NYSDEC	NYSDEC	NYSDEC	NYSDEC													
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria													
Sampling Date	Protection of	Protection of	Protection of	Protection of													
Matrix	Public Health	Ecological	Groundwater	Groundwater													
Units	Commercial	Resources															
CONSTITUENT																	
Cyanide	27	NC	40														

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site**

Sample Location		NYSDEC		NYSDEC		NYSDEC		PASB-30	PASB-30	PASB-31	PASB-31
Sample ID	Sample Number	Soil Criteria	Protection of	Soil Criteria	Protection of	Soil Criteria	Protection of	PASB-30-21-26	PASB-30-34-36	PASB-31-2-4	PASB-31-10-15
Lab Sample Number	Sampling Date	Public Health	Commercial	Ecological	Groundwater	Soil	mg/Kg	1/31/08	Duplicate of	1/29/08	1/29/08
Matrix	Units			Resources		mg/Kg			PASB-30-4-6	mg/Kg	mg/Kg
CONSTITUENT											
Cyanide		27	NC		40	0.6	U	0.59	U	0.61	U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-31	PASB-32	PASB-32	PASB-32	PASB-33
Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB-31-32-34	PASB-32-2-4	PASB-32-6-10	PASB-33-1-3	
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z1341-06	Z1341-02	Z1341-03	Z1341-11	
Sampling Date	Protection of	Protection of	Protection of	Duplicate of	1/29/08	1/29/08	1/29/08	
Matrix	Public Health	Ecological	Groundwater	PASB-31-2-4	Soil	Soil	Soil	
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg	
CONSTITUENT								
Cyanide	27	NC	40	0.59 U	0.754	0.59 U	0.59 U	0.59 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site**

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-33	PASB-34	PASB-35	PASB-35
Sample ID	NYSDEC	NYSDEC	NYSDEC	PASB-33-6-10	PASB-34-4-6	PASB-35-5-8	PASB-35-11-13
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Z1341-12	Z1370-22	Z1418-08	Z1418-09
Sampling Date	Protection of	Protection of	Protection of	1/29/08	1/31/08	2/4/08	2/4/08
Matrix	Public Health	Ecological	Groundwater	Soil	Soil	Soil	Soil
Units	Commercial	Resources		mg/Kg	mg/Kg	mg/Kg	mg/Kg
CONSTITUENT							
Cyanide	27	NC	40	0.59 U	0.59 U	0.59 U	0.61 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site**

Sample Location						PASB-36	PASB-36	PASB-37	PASB-37
Sample ID	NYSDEC	NYSDEC	NYSDEC			PASB-36-6-8	PASB-36-11-13	PASB-37-5-7	PASB-37-11-13
Lab Sample Number	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria		Z1418-01	Z1418-02	Z1418-03	Z1418-04
Sampling Date	Protection of	Protection of	Protection of	Protection of		2/5/08	2/5/08	2/5/08	2/5/08
Matrix	Public Health	Ecological	Groundwater			Soil	Soil	Soil	Soil
Units	Commercial	Resources				mg/Kg	mg/Kg	mg/Kg	mg/Kg
CONSTITUENT									
Cyanide	27	NC	40			0.65 U	0.59 U	0.62 U	0.58 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site**

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASB-38	PASB-39	PASB-40	PASB-41
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB-38-5-7	PASB39-4-9	PASB40-15-17	PASB41-6-8
Lab Sample Number	Protection of	Protection of	Protection of	Z1418-05	Z3630-05	Z3645-02	Z3630-01
Sampling Date	Public Health	Ecological	Groundwater	2/5/08	7/9/08	7/10/08	7/9/08
Matrix	Commercial	Resources		Soil	Soil	Soil	Soil
Units				mg/Kg	mg/kg	mg/kg	mg/kg
CONSTITUENT							
Cyanide	27	NC	40	0.76 U	0.639 U	0.598 U	5.74

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7

Notes:

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted

Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

**Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site**

Sample Location		NYSDEC	NYSDEC	NYSDEC	PASB-44	PASB-45	PASB-46
Sample ID	Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB44-7-9	PASB45-5-7	PASB46-6-8
Lab Sample Number	Lab Sample Number	Protection of	Protection of	Protection of	Z3630-03	Z3630-04	Z3645-10
Sampling Date	Sampling Date	Public Health	Ecological	Groundwater	7/9/08	7/9/08	7/10/08
Matrix	Matrix	Commercial	Resources		Soil	Soil	Soil
Units	Units				mg/kg	mg/kg	mg/kg
CONSTITUENT							
Cyanide	27	NC	40		0.639 U	0.767 U	0.651 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-7
Cyanide Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	NYSDEC	MW-2D	MW-4D
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	Soil Criteria	PASB-MW2D-6-10	PASB-MW4D-5-10
Lab Sample Number	Protection of	Protection of	Protection of	Protection of	Z1418-07	Z1418-06
Sampling Date	Public Health	Ecological	Groundwater	Groundwater	2/4/08	2/4/08
Matrix	Commercial	Resources			Soil	Soil
Units					mg/Kg	mg/Kg
CONSTITUENT						
Cyanide	27	NC	40		0.65 U	0.62 U

Notes:

U - Non-detected.

J - Estimated.

NC - No Criteria.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

Table 4-8
TOC Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	Sample ID	Lab Sample Number	Sampling Date	Matrix	Total Organic Carbon (mg/Kg)	
PASB-16	PASB16-5-10	Z1384-07	2/1/08	Soil	2700	
PASB-16	PASB16-35-40	Z1384-08	Duplicate of PASB16-5-10		2800	
PASB-20	PASB-20-8-10	Z1341-17	1/29/08	Soil	1700	
PASB-20	PASB-20-11-13	Z1341-18	1/29/08	Soil	410	
PASB-21	PASB21-3-5	Z1355-14	1/30/08	Soil	7000	
PASB-21	PASB21-11-13	Z1355-15	1/30/08	Soil	290	U
PASB-22	PASB22-3-5	Z1355-18	1/30/08	Soil	55000	
PASB-22	PASB22-11-13	Z1355-19	1/30/08	Soil	770	
PASB-23	PASB-23-3-5	Z1356-01	1/30/08	Soil	6700	J
PASB-23	PASB-23-12-15	Z1356-02	1/30/08	Soil	350	J
PASB-24	PASB24-5-10	Z1384-01	2/1/08	Soil	2600	
PASB-25	PASB25-1-6	Z1355-03	1/30/08	Soil	15000	
PASB-25	PASB25-31-36	Z1355-06	Duplicate of PASB25-1-6		22000	
PASB-25	PASB25-9-14	Z1355-04	1/30/08	Soil	1300	
PASB-25	PASB25-18-20	Z1355-05	1/30/08	Soil	440	
PASB-26	PASB-26-4-6	Z1370-03	1/31/08	Soil	6000	
PASB-26	PASB-26-11-13	Z1370-04	1/31/08	Soil	250	U
PASB-27	PASB27-4-6	Z1355-07	1/30/08	Soil	13000	
PASB-27	PASB27-13-15	Z1355-10	1/30/08	Soil	370	
PASB-28	PASB-28-1-3	Z1370-09	1/31/08	Soil	35000	
PASB-28	PASB-28-11-13	Z1370-10	1/31/08	Soil	650	
PASB-29	PASB-29-3-5	Z1370-13	1/31/08	Soil	4400	
PASB-29	PASB-29-13-15	Z1370-14	1/31/08	Soil	320	
PASB-30	PASB-30-4-6	Z1370-17	1/31/08	Soil	8000	
PASB-30	PASB-30-34-36	Z1370-21	Duplicate of PASB-30-4-6		7500	
PASB-30	PASB-30-21-26	Z1370-18	1/31/08	Soil	250	U
PASB-31	PASB-31-2-4	Z1341-04	1/29/08	Soil	2200	
PASB-31	PASB-31-32-34	Z1341-06	Duplicate of PASB-31-2-4		700	
PASB-31	PASB-31-10-15	Z1341-05	1/29/08	Soil	250	U
PASB-32	PASB-32-2-4	Z1341-02	1/29/08	Soil	1400	
PASB-32	PASB-32-6-10	Z1341-03	1/29/08	Soil	250	U
PASB-33	PASB-33-1-3	Z1341-11	1/29/08	Soil	14000	
PASB-33	PASB-33-6-10	Z1341-12	1/29/08	Soil	250	U
PASB-34	PASB-34-4-6	Z1370-22	1/31/08	Soil	2900	
PASB-35	PASB-35-5-8	Z1418-08	2/4/08	Soil	2341	
PASB-35	PASB-35-11-13	Z1418-09	2/4/08	Soil	250	U
PASB-36	PASB-36-6-8	Z1418-01	2/5/08	Soil	38012	
PASB-36	PASB-36-11-13	Z1418-02	2/5/08	Soil	560	
PASB-37	PASB-37-5-7	Z1418-03	2/5/08	Soil	46100	
PASB-37	PASB-37-11-13	Z1418-04	2/5/08	Soil	511	
PASB-38	PASB-38-5-7	Z1418-05	2/5/08	Soil	9619	
PASB-39	PASB39-4-9	Z3630-05	7/9/08	Soil	319.28	U
PASB-40	PASB40-15-17	Z3645-02	7/10/08	Soil	250	U
PASB-41	PASB41-6-8	Z3630-01	7/9/08	Soil	44000	
PASB-41	PASB41-11-13	Z3630-02	7/9/08	Soil	720	
PASB-42	PASB-42-23-25	Z3063-03	7/8/08	Soil	301.2	U

Table 4-8
TOC Detected in Subsurface Soil
Patchogue Former MGP Site

Sample Location	Sample ID	Lab Sample Number	Sampling Date	Matrix	Total Organic Carbon (mg/Kg)
PASB-43	PASB-43-13-15	Z3063-01	7/8/08	Soil	304.88 U
PASB-43	PASB-43-23-25	Z3063-02	7/8/08	Soil	310.17 U
PASB-44	PASB44-7-9	Z3630-03	7/9/08	Soil	1700
PASB-45	PASB45-5-7	Z3630-04	7/9/08	Soil	46000
PASB-46	PASB46-6-8	Z3645-10	7/10/08	Soil	8590
MW-2D	PASB-MW2D-6-10	Z1418-07	2/4/08	Soil	250 U
MW-4D	PASB-MW4D-5-10	Z1418-06	2/4/08	Soil	3436

Notes:

U - Non-detected.

J - Estimated.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID,
6 to 10=Depth Sampled.

Table 4-9
PCB Results for Subsurface Soil
Patchogue Former MGP Site

Sample Location	NYSDEC	NYSDEC	NYSDEC	PASSB-16
Sample ID	Soil Criteria	Soil Criteria	Soil Criteria	PASB16-5-10
Lab Sample Number	Protection of	Protection of	Protection of	Z1384-07
Sampling Date	Public Health	Ecological	Groundwater	2/1/08
Matrix	Commercial	Resources		SOIL
Units				mg/Kg
COMPOUND				
Aroclor-1016	1	1	3.2	0.003 U
Aroclor-1221	1	1	3.2	0.0046 U
Aroclor-1232	1	1	3.2	0.0069 U
Aroclor-1242	1	1	3.2	0.0061 U
Aroclor-1248	1	1	3.2	0.003 U
Aroclor-1254	1	1	3.2	0.0019 U
Aroclor-1260	1	1	3.2	0.0049 U

Note:

U - Non-detected.

NYSDEC Remedial Program Soil Cleanup Objectives, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, 2008.

PASB-19-6-10: PASB=Patchogue Soil Boring, 19=Boring ID, 6 to 10=Depth Sampled.

TABLE 6-1
CONCEPTUAL SITE MODEL FOR POTENTIAL HUMAN HEALTH EXPOSURE PATHWAYS
Patchogue Former MGP Site

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Complete Exposure Route	Rationale for Complete Exposure Pathway
Current / Potential Future	Soil	Surface Soil (0 - 2 inches)	Onsite - Former Patchogue Manufacturing Gas Plant Site	Trespasser	Adolescent (12-18 yrs)	Incidental Ingestion	The site is enclosed by an unlocked perimeter fence and private properties border the site. As such, there is potential for trespassers to access the site. This receptor is assumed to be an adolescent who is onsite for limited durations and frequencies for purposes of walking through the site. Complete pathways are associated with both indirect and direct contact to the surface soil. Two concrete slabs located in the northern portion of the site may provide a potential barrier to direct and indirect contact with the underlying soil and soil gases and may prevent that soil from being resuspended by wind. It is likely for volatiles in the ambient air to further disperse and dilute and, therefore, the inhalation of volatiles in ambient air is considered to be insignificant. It is likely that any volatiles onsite released into the ambient air would disperse and dilute significantly and, therefore, the inhalation of volatiles is considered to be insignificant.
						Dermal Absorption	
						Inhalation of Particulates (Ambient Air)	
	Sediment	Sediment	Offsite - Patchogue Creek / Overflow Pond	Recreator	Adolescent (12-18 yrs) / Adult (18+ yrs)	Incidental Ingestion	Recreational usage of the Patchogue Creek or overflow pond areas (both located offsite) is considered likely. The recreator is assumed to have direct contact to COPCs within the offsite surface water and sediment. It is assumed that exposure frequency and duration for the recreator would be minimal due to limited access and seasonal climatic conditions necessary for fishing. No VOCs were identified as COPCs for either surface water or sediment and therefore, inhalation of volatiles is not a considered complete pathway. Potential inhalation exposure to metals in the sediments as particulates would be possible if the sediment dried out.
						Dermal Absorption	
						Inhalation of Particulates (Ambient Air)	
	Surface Water	Surface Water	Offsite - Patchogue Creek / Overflow Pond	Recreator	Adolescent (12-18 yrs) / Adult (18+ yrs)	Incidental Ingestion	
						Dermal Absorption	
						Inhalation of Particulates (Ambient Air)	

TABLE 6-1
CONCEPTUAL SITE MODEL FOR POTENTIAL HUMAN HEALTH EXPOSURE PATHWAYS
Patchogue Former MGP Site

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Complete Exposure Route	Rationale for Complete Exposure Pathway
Potential Future	Soil	Indoor Air	Onsite - Former Patchogue Manufacturing Gas Plant Site	Commercial Worker	Adult (18+ yrs)	Inhalation of Volatiles (Indoors)	A commercial worker onsite may be exposed to surface soil assuming both indoor and outdoor duties. Both direct contact and indirect contact are considered complete pathways. Volatiles released from soil or groundwater may intrude into a future commercial building allowing the inhalation of vapors in the indoor air. It is likely that volatiles released into the ambient air would quickly disperse and dilute and, therefore, the inhalation of volatiles in ambient air is considered to be insignificant.
		Surface Soil (0 - 2 inches)	Onsite - Former Patchogue Manufacturing Gas Plant Site	Commercial Worker	Adult (18+ yrs)	Incidental Ingestion	
						Dermal Absorption	
						Inhalation of Volatiles or Particulates (Ambient Air)	
		All Soil (1 - 40 ft bgs)	Onsite - Former Patchogue Manufacturing Gas Plant Site	Construction Worker	Adult (18+ yrs)	Incidental Ingestion	A construction worker would have intermittent outdoor exposure to soil during digging and excavation. Direct exposure may be prevented to some degree by personal protective clothing. Complete exposure pathways are associated with direct and indirect contact to the soil. Two concrete slabs located in the Northern portion of the site may provide a potential barrier to direct and indirect contact with the underlying soil and soil gases and may prevent that soil from being resuspended by wind. It is likely for volatiles released into the ambient air would quickly disperse and dilute and, therefore, the inhalation of volatiles in ambient air is considered to be insignificant.
						Dermal Absorption	
						Inhalation of Particulates or Volatiles (Ambient Air)	
				Utility Worker	Adult (18+ yrs)	Incidental Ingestion	A utility worker would have intermittent outdoor exposure to soil during digging and excavation. Direct exposure may be prevented to some degree by personal protective clothing. Complete exposure pathways are associated with direct and indirect contact to the soil. Two concrete slabs located in the Northern portion of the site may provide a potential barrier to direct and indirect contact with the underlying soil and soil gases and may prevent that soil from being resuspended by wind. It is likely for volatiles released into the ambient air would quickly disperse and dilute and, therefore, the inhalation of volatiles in ambient air is considered to be insignificant.
						Dermal Absorption	
						Inhalation of Particulates or Volatiles (Ambient Air)	
	Groundwater	Indoor Air	Onsite - Former Patchogue Manufacturing Gas Plant Site	Commercial Worker	Adult (18+ yrs)	Inhalation of Volatiles (Indoors)	A commercial worker onsite may be exposed to surface soil assuming both indoor and outdoor duties. Both direct contact and indirect contact are considered complete pathways. Volatiles released from soil or groundwater may intrude into a future commercial building allowing the inhalation of vapors in the indoor air. It is likely that volatiles released into the ambient air would quickly disperse and dilute and, therefore, the inhalation of volatiles in ambient air is considered to be insignificant.
		Groundwater	Onsite - Former Patchogue Manufacturing Gas Plant Site	Construction Worker	Adult (18+ yrs)	Dermal Absorption	Due to the sampled depth to groundwater at the site (1 – 10 ft bgs), construction activities are likely to intrude down into the saturated zone. Construction workers with contact to the soil in the saturated zone may get wet and continue to work. In addition, excavation activities may expose pooled groundwater that may release volatiles into the ambient air. While some potential for dermal absorption and volatiles inhalation may exist, it is not likely that incidental ingestion of groundwater would occur during these activities. Direct exposure to groundwater may be prevented to some degree by personal protective clothing.
						Inhalation of Volatiles (Ambient Air)	
				Utility Worker	Adult (18+ yrs)	Dermal Absorption	Due to the sampled depth to groundwater at the site (1 – 10 ft bgs), utility activities are likely to intrude down into the saturated zone. Utility workers with contact to the soil in the saturated zone may get wet and continue to work. In addition, excavation activities may expose pooled groundwater that may release volatiles into the ambient air. While some potential for dermal absorption and volatiles inhalation may exist, it is not likely that incidental ingestion of groundwater would occur during these activities. Direct exposure to groundwater may be prevented to some degree by personal protective clothing.
						Inhalation of Volatiles (Ambient Air)	

Table 6-10
FWRIA Sediment Screening
Detected RCRA Metals and Cyanide
Patchogue Former MGP Site

		Location ID	SD-01	SD-02	SD-03	SD-04	SD-04
			PASD-01	PASD-02	PASD-03	PASD-04	PASD-04D
			A1684716	A1684715	A1684710	A1684711	A1684711
	Lowest Effect	Severe Effect	07/18/01	07/18/01	07/18/01	07/18/01	07/18/01
	Level	Level					
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	6	33	6.8	5.7	3.9	2.1	2.2
Barium	NC	NC	18.6	60.2	13.5	13	7.1
Cadmium	0.6	9	0.64	0.86	0.7	1	1.1
Chromium	26	110	4.8	9.9	7.6	4.2	4.4
Lead	31	110	30.6	87.2	49.8	56.7	34.4
Mercury	0.15	1.3	0.13	0.17	0.12	0.21	0.19
Selenium	NC	NC	3.8	5.1	4.2	6.3	6.6
Silver	1	2.2	1.3	1.7	1.4	2.1	2.2
Total Cyanide							
Cyanide	NC	NC	0.5	0.5	0.5	0.5	0.5

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

NC - No criteria available

Bolded concentrations exceed NYSDC (1999) LEL values

Table 6-2
Water Quality Measurements
Patchogue Former MGP Site

Field Parameter	Patchogue River Upstream Above Main Street¹	Patchogue River Below Main Street¹	Patchogue River at MW 4S/D on Site
pH (su)	7.06	7.42	6.96
Temperature (C)	26	24.9	25.3
Dissolved Oxygen (mg/L)	9.54	11.15	7.83
Percent Saturation (%)	120	140	95
Specific Conductivity (mS/cm)	0.283	0.271	0.288
Turbidity (NTU)	8.3	9	1.1
Total Dissolved Solids (g/L)	0.18	--	0.19
Salinity (%)	0	0	0
Oxidation Reduction Potential (mV)	-5	-13	74

Notes:

¹Evidence of iron floc stained sediments present, upstream from Site.

-- Not measured

Table 6-3
Wildlife Species Observed
Patchogue Former MGP Site

Common Names ¹	Scientific Names
Bird Species	
Black-capped Chickadee	<i>Poecile atricapillus</i>
Blue Jay	<i>Cyanocitta cristata</i>
Brown-headed Cowbird	<i>Molothrus ater</i>
Common Grackle	<i>Quiscalus quiscula</i>
Downy Woodpecker	<i>Picoides pubescens</i>
European Starling	<i>Sturnus vulgaris</i>
Gray Catbird	<i>Dumetella carolinensis</i>
House Sparrow	<i>Passer domesticus</i>
House Wren	<i>Troglodytes aedon</i>
Mallard	<i>Anas platyrhynchos</i>
Northern Cardinal	<i>Cardinalis cardinalis</i>
Northern Flicker	<i>Colaptes auratus</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Rock Dove	<i>Columba livia</i>
Tree Swallow	<i>Tachycineta bicolor</i>
Mammal Species	
Domestic Cat	<i>Felix domesticus</i>
Gray Squirrel	<i>Sciurus carolinensis</i>
Raccoon	<i>Procyon lotor</i>
Rat Species	<i>Rattus sp.</i>

Notes:

1 Observations made during July 15, 2008 site visit

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
	NYSDEC	PASB21-0-0.2		PASB21-0-0.5	PASB22-0-0.2	PASB22-0-0.5
	Soil Criteria	Z1355-12		Z1355-13	Z1355-16	Z1355-17
	Protection of	01/30/08		01/30/08	01/30/08	01/30/08
	Eco. Resources	SOIL		SOIL	SOIL	SOIL
	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg
COMPOUND						
Trichlorofluoromethane	NC	0.008 U		0.0076 U	0.0076 U	0.0072 U
Acetone	2.2	0.11 UJ		0.11 UJ	0.11 UJ	0.1 UJ
Carbon Disulfide	NC	0.0073 U		0.0069 U	0.0069 U	0.0065 U
Methyl Acetate	NC	0.011 UJ		0.011 UJ	0.011 UJ	0.01 UJ
Methylene Chloride	12	0.021 J		0.02 J	0.016 U	0.015 U
2-Butanone	100	0.034 U		0.032 U	0.032 UJ	0.03 UJ
Methylcyclohexane	NC	0.0056 U		0.0053 U	0.0053 U	0.005 U
Benzene	70	0.0048 U		0.0046 U	0.0046 U	0.0043 U
Toluene	36	0.0059 U		0.0056 U	0.0056 U	0.0053 U
Tetrachloroethene	2	0.0083 UJ		0.0079 UJ	0.0079 U	0.0075 U
Ethyl Benzene	NC	0.0054 U		0.0051 U	0.0051 U	0.0048 U
m/p-Xylenes	0.26	0.012 U		0.012 U	0.012 U	0.011 U
o-Xylene	0.26	0.0051 U		0.0048 U	0.0049 U	0.0046 U
Styrene	NC	0.0042 U		0.0039 U	0.004 U	0.0037 U
Bromoform	NC	0.0054 UJ		0.0051 UJ	0.0052 U	0.0049 U
Isopropylbenzene	NC	0.0055 U		0.0052 U	0.0053 U	0.005 U
1,2-Dichlorobenzene	NC	0.0058 U		0.0055 U	0.0055 U	0.0052 U
1,2-Dibromo-3-Chloropropane	NC	0.0068 U		0.0065 U	0.0065 U	0.0062 U
Total BTEX		ND		ND	ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSDEC value for protection of ecological resources.

NYSDEC - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-23	PASB-23	PASB-23	PASB-24	PASB-24
	NYSDEC	PASB23-0-0.2	PASB23-0-0.5	PASB24-0-0.2	PASB24-0-0.5	
	Soil Criteria	Z1355-20	Z1355-21	Z1384-04	Z1384-06	
	Protection of	01/30/08	01/30/08	02/01/08	02/01/08	
	Eco. Resources	SOIL	SOIL	SOIL	SOIL	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
COMPOUND						
Trichlorofluoromethane	NC	0.018 UJ	0.0078 U	0.0073 U	0.0079 U	0.0079 U
Acetone	2.2	0.26 UJ	0.11 UJ	0.1 UJ	0.11 UJ	0.11 UJ
Carbon Disulfide	NC	0.016 UJ	0.0071 U	0.0067 U	0.0071 U	0.0071 U
Methyl Acetate	NC	0.026 UJ	0.011 UJ	0.01 UJ	0.011 UJ	0.011 UJ
Methylene Chloride	12	0.097 J	0.016 U	0.015 U	0.016 U	0.016 U
2-Butanone	100	0.076 UJ	0.033 UJ	0.031 UJ	0.033 UJ	0.033 UJ
Methylcyclohexane	NC	0.013 UJ	0.0055 U	0.0051 U	0.0055 U	0.0055 U
Benzene	70	0.011 UJ	0.0047 U	0.0044 U	0.0048 U	0.0048 U
Toluene	36	0.013 UJ	0.0058 U	0.0054 U	0.0058 U	0.0058 U
Tetrachloroethene	2	0.019 UJ	0.0082 U	0.0077 U	0.0082 U	0.0082 U
Ethyl Benzene	NC	0.012 UJ	0.0053 U	0.0049 U	0.0053 U	0.0053 U
m/p-Xylenes	0.26	0.028 UJ	0.012 U	0.011 U	0.012 U	0.012 U
o-Xylene	0.26	0.012 UJ	0.005 U	0.0047 U	0.005 U	0.005 U
Styrene	NC	0.0094 UJ	0.0041 U	0.0038 U	0.0041 U	0.0041 U
Bromoform	NC	0.012 UJ	0.0053 U	0.005 U	0.0053 U	0.0053 U
Isopropylbenzene	NC	0.012 UJ	0.0054 U	0.0051 U	0.0054 U	0.0054 U
1,2-Dichlorobenzene	NC	0.013 UJ	0.0057 U	0.0053 U	0.0057 U	0.0057 U
1,2-Dibromo-3-Chloropropane	NC	0.015 UJ	0.0067 U	0.0063 U	0.0067 U	0.0067 U
Total BTEX		ND	ND	ND	ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSDCE value for protection of ecological
 NYSDCE - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-25	PASB-25	PASB-25	PASB-26	PASB-26
	NYSDEC	PASB25-0-0.2	PASB25-0-0.5		PASB-26-0-0.2	PASB-26-0-0.5
	Soil Criteria	Z1355-01	Z1355-02		Z1370-01	Z1370-02
	Protection of	01/30/08	01/30/08		01/31/08	01/31/08
	Eco. Resources	SOIL	SOIL		SOIL	SOIL
	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg
COMPOUND						
Trichlorofluoromethane	NC	0.0069 U	0.0068 U		0.0073 U	0.0072 U
Acetone	2.2	0.099 UJ	0.097 UJ		0.1 UJ	0.1 U
Carbon Disulfide	NC	0.0063 U	0.0061 U		0.0066 U	0.0065 U
Methyl Acetate	NC	0.0099 UJ	0.0096 UJ		0.01 UJ	0.01 UJ
Methylene Chloride	12	0.014 U	0.014 U		0.015 U	0.015 U
2-Butanone	100	0.029 U	0.029 U		0.031 UJ	0.03 UJ
Methylcyclohexane	NC	0.0048 U	0.0047 U		0.0051 U	0.005 U
Benzene	70	0.0042 U	0.0041 U		0.0044 U	0.0043 U
Toluene	36	0.0051 U	0.005 U		0.0054 U	0.0053 U
Tetrachloroethene	2	0.0072 UJ	0.007 UJ		0.0076 U	0.0075 U
Ethyl Benzene	NC	0.0047 U	0.0045 U		0.0049 U	0.0048 U
m/p-Xylenes	0.26	0.011 U	0.011 U		0.011 U	0.011 U
o-Xylene	0.26	0.0044 U	0.0043 U		0.0047 U	0.0046 U
Styrene	NC	0.0036 U	0.0035 U		0.0038 U	0.0037 U
Bromoform	NC	0.0047 UJ	0.0046 UJ		0.005 U	0.0049 U
Isopropylbenzene	NC	0.0048 U	0.0047 U		0.005 U	0.005 U
1,2-Dichlorobenzene	NC	0.005 U	0.0049 U		0.0053 U	0.0052 U
1,2-Dibromo-3-Chloropropane	NC	0.006 U	0.0058 U		0.0062 U	0.0062 U
Total BTEX		ND	ND		ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSDC value for protection of ecological

NYSDC - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-27	PASB-27	PASB-27	PASB-28	PASB-28
	NYSDEC	PASB-27-0-0.2		PASB-27-0-0.5	PASB-28-0-0.2	PASB-28-0-0.5
	Soil Criteria	Z1370-05		Z1370-06	Z1370-07	Z1370-08
	Protection of	01/31/08		01/31/08	01/31/08	01/31/08
	Eco. Resources	SOIL		SOIL	SOIL	SOIL
	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg
COMPOUND						
Trichlorofluoromethane	NC	0.0073 U		0.0069 U	0.089 J	0.058 J
Acetone	2.2	0.1 UJ		0.099 UJ	0.18 UJ	0.2 UJ
Carbon Disulfide	NC	0.0067 U		0.0063 U	0.011 UJ	0.013 UJ
Methyl Acetate	NC	0.01 U		0.0099 UJ	0.018 UJ	0.02 UJ
Methylene Chloride	12	0.015 U		0.014 U	0.026 UJ	0.029 UJ
2-Butanone	100	0.031 UJ		0.029 UJ	0.053 UJ	0.059 UJ
Methylcyclohexane	NC	0.0051 U		0.0048 U	0.0088 UJ	0.0098 UJ
Benzene	70	0.0044 U		0.0042 U	0.0076 UJ	0.0085 UJ
Toluene	36	0.0054 U		0.0051 U	0.0093 UJ	0.01 UJ
Tetrachloroethene	2	0.0077 U		0.0072 U	0.013 UJ	0.015 UJ
Ethyl Benzene	NC	0.0049 U		0.0047 U	0.0084 UJ	0.0095 UJ
m/p-Xylenes	0.26	0.011 U		0.011 U	0.02 UJ	0.022 UJ
o-Xylene	0.26	0.0047 U		0.0044 U	0.008 UJ	0.009 UJ
Styrene	NC	0.0038 U		0.0036 U	0.0065 UJ	0.0073 UJ
Bromoform	NC	0.005 U		0.0047 U	0.0085 UJ	0.0096 UJ
Isopropylbenzene	NC	0.0051 U		0.0048 U	0.0087 UJ	0.0097 UJ
1,2-Dichlorobenzene	NC	0.0053 U		0.005 U	0.0091 UJ	0.01 UJ
1,2-Dibromo-3-Chloropropane	NC	0.0063 U		0.006 U	0.011 UJ	0.012 UJ
Total BTEX		ND		ND	ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSEDEC value for protection of ecological
NYSEDEC - New York State Department of Environmental Conservation

Table 6-4

Notes and Data Qualifiers

NYSDEC - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
	NYSDEC	PASB-31-0-0.2	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5	
	Soil Criteria	Z1341-09	Z1341-10	Z1341-07	Z1341-08	
	Protection of	01/29/2008	01/29/2008	01/29/2008	01/29/2008	
	Eco. Resources	Soil	Soil	Soil	Soil	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
COMPOUND						
Trichlorofluoromethane	NC	0.015 UJ	0.011 U	0.022 UJ	0.012 U	
Acetone	2.2	0.21 UJ	0.15 UJ	0.32 UJ	0.17 UJ	
Carbon Disulfide	NC	0.014 UJ	0.0098 U	0.02 UJ	0.01 U	
Methyl Acetate	NC	0.021 UJ	0.015 U	0.031 UJ	0.016 U	
Methylene Chloride	12	0.03 UJ	0.022 U	0.045 UJ	0.024 U	
2-Butanone	100	0.063 UJ	0.046 UJ	0.093 UJ	0.049 UJ	
Methylcyclohexane	NC	0.01 UJ	0.0075 U	0.015 UJ	0.0081 U	
Benzene	70	0.009 UJ	0.0065 U	0.013 UJ	0.007 U	
Toluene	36	0.011 UJ	0.008 U	0.016 UJ	0.0085 U	
Tetrachloroethene	2	0.016 UJ	0.011 U	0.023 UJ	0.012 U	
Ethyl Benzene	NC	0.01 UJ	0.0073 U	0.015 UJ	0.0078 U	
m/p-Xylenes	0.26	0.023 UJ	0.017 U	0.034 UJ	0.018 U	
o-Xylene	0.26	0.0095 UJ	0.0069 U	0.014 UJ	0.0074 U	
Styrene	NC	0.0078 UJ	0.0056 U	0.011 UJ	0.006 U	
Bromoform	NC	0.01 UJ	0.0074 U	0.015 UJ	0.0079 U	
Isopropylbenzene	NC	0.01 UJ	0.0074 U	0.015 UJ	0.008 U	
1,2-Dichlorobenzene	NC	0.011 UJ	0.0078 U	0.016 UJ	0.0084 U	
1,2-Dibromo-3-Chloropropane	NC	0 R	0 R	0 R	0 R	
Total BTEX		ND	ND	ND	ND	

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSDEC value for protection of ecological

NYSDEC - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-33	PASB-33	PASB-33	PASB-42	PASB-42
	NYSDEC	PASB-33-0-0.2		PASB-33-0-0.5	PASB-42-0-0.5	
	Soil Criteria	Z1341-13		Z1341-14	Z3645-04	
	Protection of	01/29/2008		01/29/2008	07/10/2008	
	Eco. Resources	Soil		Soil	SOIL	
	mg/kg	mg/kg		mg/kg	mg/kg	
COMPOUND						
Trichlorofluoromethane	NC	0.012 UJ		0.0093 U	0.0061 U	0.0063 U
Acetone	2.2	0.17 UJ		0.13 UJ		R
Carbon Disulfide	NC	0.011 UJ		0.0084 U	0.0056 U	0.0057 U
Methyl Acetate	NC	0.017 UJ		0.013 U	0.0087 U	0.0089 U
Methylene Chloride	12	0.024 UJ		0.019 U	0.013 U	0.013 U
2-Butanone	100	0.05 UJ		0.039 UJ	0.026 U	0.026 U
Methylcyclohexane	NC	0.0083 UJ		0.0065 U	0.0043 U	0.0044 U
Benzene	70	0.0072 UJ		0.0056 U	0.0037 U	0.0038 U
Toluene	36	0.0088 UJ		0.0069 U	0.0045 U	0.0046 U
Tetrachloroethene	2	0.029 J		0.0097 U	0.0064 U	0.0065 U
Ethyl Benzene	NC	0.008 UJ		0.0062 U	0.0041 U	0.0042 U
m/p-Xylenes	0.26	0.019 UJ		0.015 U	0.0096 U	0.0098 U
o-Xylene	0.26	0.0076 UJ		0.0059 U	0.0039 U	0.004 U
Styrene	NC	0.0062 UJ		0.0048 U	0.0032 U	0.0033 U
Bromoform	NC	0.0081 UJ		0.0063 U	0.0042 U	0.0043 U
Isopropylbenzene	NC	0.0082 UJ		0.0064 U	0.0042 U	0.0043 U
1,2-Dichlorobenzene	NC	0.0086 UJ		0.0067 U	0.0044 U	0.0045 U
1,2-Dibromo-3-Chloropropane	NC	0 R		0 R	0.0053 U	0.0054 U
Total BTEX		ND		ND	ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria available.

ND - No BTEX detected

Shaded concentrations exceed NYSEDEC value for protection of ecological
NYSEDEC - New York State Department of Environmental Conservation

Table 6-4
FWRIA Surface Soil Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	Location ID	PASB-43	PASB-43	PASB-43	PASB-46	PASB-46
	NYSDEC	PASB43-0-0.2		PASB43-0-0.5	PASB46-0-0.2	PASB46-0-0.5
	Soil Criteria	Z3645-08		Z3645-09	Z3645-11	Z3645-12
	Protection of	07/10/2008		07/10/2008	07/10/2008	07/10/2008
	Eco. Resources	SOIL		SOIL	SOIL	SOIL
	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg
COMPOUND						
Trichlorofluoromethane	NC	0.0077	U	0.039	0.0075	U
Acetone	2.2		R			R
Carbon Disulfide	NC	0.007	U	0.0059	0.0068	U
Methyl Acetate	NC	0.011	U	0.0092	0.011	U
Methylene Chloride	12	0.016	U	0.013	0.015	U
2-Butanone	100	0.033	U	0.027	0.032	U
Methylcyclohexane	NC	0.0054	U	0.0045	0.0053	U
Benzene	70	0.0047	U	0.0039	0.0046	U
Toluene	36	0.0057	U	0.0048	0.0056	U
Tetrachloroethene	2	0.0081	U	0.0068	0.0078	U
Ethyl Benzene	NC	0.0052	U	0.0044	0.0051	U
m/p-Xylenes	0.26	0.012	U	0.01	0.012	U
o-Xylene	0.26	0.0049	U	0.0041	0.0048	U
Styrene	NC	0.004	U	0.0034	0.0039	U
Bromoform	NC	0.0053	U	0.0044	0.0051	U
Isopropylbenzene	NC	0.0053	U	0.0045	0.0052	U
1,2-Dichlorobenzene	NC	0.0056	U	0.0047	0.0054	U
1,2-Dibromo-3-Chloropropane	NC	0.0066	U	0.0056	0.0065	U
Total BTEX		ND		ND	ND	ND

Notes and Data Qualifiers

U - Non-detected at detection limit value given.
J - Estimated.
D - Diluted.
R - Rejected.
NC - No criteria available.
ND - No BTEX detected
Shaded concentrations exceed NYSDEC value for protection of ecological
NYSDEC - New York State Department of Environmental Conservation

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-21		PASB-21		PASB-21		PASB-22		PASB-22
	Soil Criteria	USEPA	PASB21-0-0.2		PASB21-0-0.2		PASB21-0-0.5		PASB22-0-0.2		PASB22-0-0.5
	Protection of	Eco-SSL	Z1355-12		Z1355-12		Z1355-13		Z1355-16		Z1355-17
	Ecol. Resources	PAHs	01/30/08		01/30/08		01/30/08		01/30/08		01/30/08
	mg/kg	mg/kg	SOIL		SOIL		SOIL		SOIL		SOIL
			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg
COMPOUND											
Benzaldehyde	NC	NC	0.076	U	0.14	U	0.14	U	0.14	U	0.067
Phenol	30	NC	0.063	U	0.12	U	0.12	U	0.12	U	0.056
bis(2-Chloroethyl)ether	NC	NC	0.03	U	0.055	U	0.055	U	0.055	U	0.026
Caprolactam	NC	NC	0.27	U	0.51	U	0.51	U	0.51	U	0.24
Acetophenone	NC	NC	0.067	U	0.13	U	0.13	U	0.13	U	0.06
Isophorone	NC	NC	0.074	U	0.14	U	0.14	U	0.14	U	0.066
Naphthalene	NC	29	0.23	J	0.1	U	0.1	U	0.1	U	0.049
2-Methylnaphthalene	NC	29	0.064	U	0.12	U	0.12	U	0.12	U	0.057
1,1-Biphenyl	NC	NC	0.067	U	0.13	U	0.13	U	0.13	U	0.06
Acenaphthylene	NC	29	0.033	U	0.062	U	0.062	U	0.062	U	0.029
Acenaphthene	20	29	0.049	U	0.092	U	0.092	U	0.092	U	0.044
Dibenzofuran	NC	NC	0.07	U	0.13	U	0.13	U	0.13	U	0.062
Fluorene	30	29	0.061	U	0.11	U	0.11	U	0.11	U	0.054
Phenanthrene	NC	29	0.8	J	0.13	U	0.13	U	0.13	U	0.063
Anthracene	NC	29	0.7	J	0.14	U	0.14	U	0.14	U	0.068
Carbazole	NC	NC	0.17	U	0.32	U	0.32	U	0.32	U	0.15
Fluoranthene	NC	29	0.82	J	0.1	U	0.1	U	0.61	J	0.29
Pyrene	NC	1.1	1.1	J	0.092	U	0.092	U	0.66	J	0.36
Butylbenzylphthalate	NC	NC	0.42	J	0.27	U	0.27	U	0.27	U	0.13
3,3-Dichlorobenzidine	NC	NC	0.17	U	0.32	U	0.32	U	0.32	U	0.15
Benzo(a)anthracene	NC	1.1	0.44	J	0.1	U	0.1	U	0.1	U	0.048
Chrysene	NC	1.1	0.41	J	0.079	U	0.079	U	0.079	U	0.037
bis(2-Ethylhexyl)phthalate	NC	NC	0.4	J	0.57	J	0.57	J	0.95	J	0.51
Benzo(b)fluoranthene	NC	1.1	0.53	J	0.3	U	0.3	U	0.31	U	0.22
Benzo(k)fluoranthene	NC	1.1	0.1	U	0.19	U	0.19	U	0.19	U	0.092

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

			PASB-21	PASB-21	PASB-21	PASB-22	PASB-22
	NYSDEC		PASB21-0-0.2	PASB21-0-0.5	PASB22-0-0.2	PASB22-0-0.5	
	Soil Criteria	USEPA	Z1355-12	Z1355-13	Z1355-16	Z1355-17	
	Protection of	Eco-SSL	01/30/08	01/30/08	01/30/08	01/30/08	
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Benzo(a)pyrene	2.6	1.1	0.42 J	0.12 U	0.12 U	0.059 U	
Indeno(1,2,3-cd)pyrene	NC	1.1	0.057 U	0.11 U	0.11 U	0.051 U	
Dibenz(a,h)anthracene	NC	1.1	0.17 U	0.31 U	0.31 U	0.15 U	
Benzo(g,h,i)perylene	NC	1.1	0.29 J	0.31 U	0.31 U	0.15 U	
Total PAHs	NC	NC	5.74	0	1.27	0.87	
Cyanide							
Total Cyanide	NC	NC	0.683 U	0.645 U	0.644 U	0.612 U	

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecological resources or USEPA Eco SSL.

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-23		PASB-23		PASB-23		PASB-24		PASB-24
	Soil Criteria	USEPA	PASB23-0-0.2		PASB23-0-0.2		PASB23-0-0.5		PASB24-0-0.2		PASB24-0-0.5
	Protection of	Eco-SSL	Z1355-20		Z1355-20		Z1355-21		Z1384-04		Z1384-06
	Ecol. Resources	PAHs	SOIL		SOIL		SOIL		SOIL		SOIL
	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg
COMPOUND											
Benzaldehyde	NC	NC	0.033 U		0.015 U		0.014 U		0.015 U		0.015 U
Phenol	30	NC	0.028 U		0.012 U		0.011 U		0.012 U		0.012 U
bis(2-Chloroethyl)ether	NC	NC	0.013 U		0.0057 U		0.0053 U		0.0058 U		0.0058 U
Caprolactam	NC	NC	0.12 U		0.052 U		0.049 U		0.053 U		0.053 U
Acetophenone	NC	NC	0.24 J		0.091 J		0.012 U		0.013 U		0.013 U
Isophorone	NC	NC	0.032 UJ		0.014 U		0.013 U		0.014 U		0.014 U
Naphthalene	NC	29	0.24 J		0.17 J		0.0099 U		0.011 U		0.011 U
2-Methylnaphthalene	NC	29	0.13 J		0.19 J		0.012 U		0.012 U		0.012 U
1,1-Biphenyl	NC	NC	0.029 UJ		0.058 J		0.012 U		0.013 U		0.013 U
Acenaphthylene	NC	29	0.21 J		0.098 J		0.006 U		0.0064 U		0.0064 U
Acenaphthene	20	29	0.1 J		0.75		0.0088 U		0.0095 U		0.0095 U
Dibenzofuran	NC	NC	0.031 UJ		0.24 J		0.013 U		0.014 U		0.014 U
Fluorene	30	29	0.18 J		0.63		0.011 U		0.012 U		0.012 U
Phenanthrene	NC	29	1.3 J		5.3 D		0.17 J		0.11 J		0.11 J
Anthracene	NC	29	0.38 J		1.4		0.045 J		0.015 U		0.015 U
Carbazole	NC	NC	0.076 UJ		0.34 J		0.031 U		0.034 U		0.034 U
Fluoranthene	NC	29	1.5 J		3.6 D		0.22 J		0.18 J		0.18 J
Pyrene	NC	1.1	2.3 J		4.9 D		0.28 J		0.21 J		0.21 J
Butylbenzylphthalate	NC	NC	0.79 J		0.22 J		0.026 U		0.028 U		0.028 U
3,3-Dichlorobenzidine	NC	NC	0.075 UJ		0.033 U		0.031 U		0.033 U		0.033 U
Benzo(a)anthracene	NC	1.1	0.94 J		2.3		0.12 J		0.1 J		0.1 J
Chrysene	NC	1.1	0.95 J		2.2		0.15 J		0.12 J		0.12 J
bis(2-Ethylhexyl)phthalate	NC	NC	0.85 J		0.37 J		0.36 J		0.21 J		0.21 J
Benzo(b)fluoranthene	NC	1.1	1.1 J		2.6		0.16 J		0.13 J		0.13 J
Benzo(k)fluoranthene	NC	1.1	0.38 J		0.67		0.056 J		0.051 J		0.051 J

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-23		PASB-23		PASB-23		PASB-24		PASB-24
	Soil Criteria	USEPA	PASB23-0-0.2		PASB23-0-0.2		PASB23-0-0.5		PASB24-0-0.2		PASB24-0-0.5
	Protection of	Eco-SSL	Z1355-20		Z1355-20		Z1355-21		Z1384-04		Z1384-06
	Ecol. Resources	PAHs	01/30/08		01/30/08		01/30/08		02/01/08		02/01/08
	mg/kg	mg/kg	SOIL		SOIL		SOIL		SOIL		SOIL
			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg
Benzo(a)pyrene	2.6	1.1	0.74	J	0.74	J	2.2		0.093	J	0.092
Indeno(1,2,3-cd)pyrene	NC	1.1	0.45	J	0.45	J	0.89		0.01	U	0.011
Dibenz(a,h)anthracene	NC	1.1	0.17	J	0.17	J	0.37	J	0.03	U	0.032
Benzo(g,h,i)perylene	NC	1.1	0.68	J	0.68	J	1.3		0.053	J	0.051
Total PAHs	NC	NC	11.75		11.75		29.568		1.347		1.044
Cyanide											
Total Cyanide	NC	NC	1.52	U	1.52	U	2.97		0.62	U	0.67

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC	PASB-25	PASB-25	PASB-25	PASB-26	PASB-26
	Soil Criteria	USEPA	Z1355-01	Z1355-02	Z1370-01	Z1370-02
	Protection of	Eco-SSL	01/30/08	01/30/08	01/31/08	01/31/08
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND						
Benzaldehyde	NC		0.013 U	0.013 U	0.14 U	0.13 U
Phenol	30	NC	0.011 U	0.01 U	0.11 U	0.11 U
bis(2-Chloroethyl)ether	NC	NC	0.0051 U	0.0049 U	0.053 U	0.052 U
Caprolactam	NC	NC	0.047 U	0.045 U	0.49 U	0.48 U
Acetophenone	NC	NC	0.012 U	0.011 U	0.12 U	0.12 U
Isophorone	NC	NC	0.013 U	0.012 U	0.13 U	0.13 U
Naphthalene	NC	29	0.26 J	0.0091 U	0.099 U	0.95 J
2-Methylnaphthalene	NC	29	0.13 J	0.011 U	0.12 U	0.11 U
1,1-Biphenyl	NC	NC	0.012 U	0.011 U	0.12 U	0.12 U
Acenaphthylene	NC	29	0.0058 U	0.0055 U	0.06 U	0.058 U
Acenaphthene	20	29	0.089 J	0.0081 U	0.088 U	0.086 U
Dibenzofuran	NC	NC	0.012 U	0.012 U	0.13 U	0.12 U
Fluorene	30	29	0.051 J	0.01 U	0.11 U	0.11 U
Phenanthrene	NC	29	0.18 J	0.012 U	0.13 U	0.91 J
Anthracene	NC	29	0.33 J	0.013 U	0.14 U	0.13 U
Carbazole	NC	NC	0.03 U	0.029 U	0.31 U	0.3 U
Fluoranthene	NC	29	0.12 J	0.0091 U	0.099 U	0.44 J
Pyrene	NC	1.1	0.18 J	0.039 J	0.089 U	0.55 J
Butylbenzylphthalate	NC	NC	0.12 J	0.05 J	0.26 U	0.25 U
3,3-Dichlorobenzidine	NC	NC	0.03 U	0.028 U	0.31 U	0.3 U
Benzo(a)anthracene	NC	1.1	0.077 J	0.009 U	0.099 U	0.096 U
Chrysene	NC	1.1	0.088 J	0.007 U	0.076 U	0.074 U
bis(2-Ethylhexyl)phthalate	NC	NC	0.41	0.8	1.1 J	0.84 J
Benzo(b)fluoranthene	NC	1.1	0.11 J	0.027 U	0.29 U	0.29 U
Benzo(k)fluoranthene	NC	1.1	0.041 J	0.017 U	0.19 U	0.18 U

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-25		PASB-25		PASB-26		PASB-26
	Soil Criteria	USEPA	PASB25-0-0.2		PASB25-0-0.2		PASB-26-0-0.2		PASB-26-0-0.5
	Protection of	Eco-SSL	Z1355-01		Z1355-02		Z1370-01		Z1370-02
	Ecol. Resources	PAHs	01/30/08		01/30/08		01/31/08		01/31/08
	mg/kg	mg/kg	SOIL		SOIL		SOIL		SOIL
			mg/kg		mg/kg		mg/kg		mg/kg
Benzo(a)pyrene	2.6	1.1	0.078	J	0.011	U	0.12	U	0.12
Indeno(1,2,3-cd)pyrene	NC	1.1	0.055	J	0.0095	U	0.1	U	0.1
Dibenz(a,h)anthracene	NC	1.1	0.029	U	0.028	U	0.3	U	0.29
Benzo(g,h,i)perylene	NC	1.1	0.085	J	0.027	U	0.3	U	0.29
Total PAHs	NC	NC	1.874		0.039		0		2.85
Cyanide									
Total Cyanide	/	NC	0.597	U	0.57	U	0.63	U	0.61

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-27	PASB-27	PASB-27	PASB-28	PASB-28
	Soil Criteria	USEPA	PASB-27-0-0.2	PASB-27-0-0.5	PASB-28-0-0.2	PASB-28-0-0.5	
	Protection of	Eco-SSL	Z1370-05	Z1370-06	Z1370-07	Z1370-08	
	Ecol. Resources	PAHs	01/31/08	01/31/08	01/31/08	01/31/08	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	SOIL
COMPOUND							
Benzaldehyde	NC	NC	0.13 U	0.13 U	1.2 U	1.3 U	
Phenol	30	NC	0.11 U	0.11 U	0.99 U	1.1 U	
bis(2-Chloroethyl)ether	NC	NC	0.052 U	0.051 U	0.46 U	0.51 U	
Caprolactam	NC	NC	0.48 U	0.46 U	4.3 U	4.7 U	
Acetophenone	NC	NC	0.12 U	0.12 U	4.5 J	1.2 UJ	
Isophorone	NC	NC	0.13 U	0.13 U	1.2 UJ	1.3 UJ	
Naphthalene	NC	29	5.2	1.6 J	0.86 UJ	0.95 UJ	
2-Methylnaphthalene	NC	29	1.4 J	0.11 UJ	1 UJ	1.1 UJ	
1,1-Biphenyl	NC	NC	0.12 U	0.11 U	1 UJ	1.2 UJ	
Acenaphthylene	NC	29	0.059 U	0.057 U	5 J	0.57 UJ	
Acenaphthene	20	29	0.087 U	0.084 U	0.77 UJ	0.85 UJ	
Dibenzofuran	NC	NC	0.12 U	0.12 U	1.1 UJ	1.2 UJ	
Fluorene	30	29	0.11 U	0.1 U	0.95 UJ	1.1 UJ	
Phenanthrene	NC	29	0.97 J	0.12 U	4.1 J	1.2 UJ	
Anthracene	NC	29	0.14 U	0.13 U	1.2 UJ	1.3 UJ	
Carbazole	NC	NC	0.31 U	0.3 U	2.7 UJ	3 UJ	
Fluoranthene	NC	29	0.5 J	0.094 U	18 J	8.6 J	
Pyrene	NC	1.1	0.65 J	0.084 U	39 J	16 J	
Butylbenzylphthalate	NC	NC	0.25 U	0.25 U	2.2 UJ	2.5 UJ	
3,3-Dichlorobenzidine	NC	NC	0.3 U	0.29 U	2.7 UJ	3 UJ	
Benzo(a)anthracene	NC	1.1	0.097 UJ	0.093 UJ	16 J	7.4 J	
Chrysene	NC	1.1	0.075 U	0.072 U	18 J	8.4 J	
bis(2-Ethylhexyl)phthalate	NC	NC	0.15 U	0.15 U	4.8 J	5.7 J	
Benzo(b)fluoranthene	NC	1.1	0.29 U	0.28 U	17 J	8.4 J	
Benzo(k)fluoranthene	NC	1.1	0.18 U	0.18 U	7 J	1.8 UJ	

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

		PASB-27	PASB-27	PASB-27	PASB-27	PASB-28	PASB-28	PASB-28
	NYSDEC		PASB-27-0-0.2	PASB-27-0-0.5	PASB-28-0-0.2	PASB-28-0-0.5	PASB-28-0-0.5	
	Soil Criteria	USEPA	Z1370-05	Z1370-06	Z1370-07	Z1370-08	Z1370-08	
	Protection of	Eco-SSL	01/31/08	01/31/08	01/31/08	01/31/08	01/31/08	
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL	SOIL	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Benzo(a)pyrene	2.6	1.1	0.12 U	0.11 U	19 J	7.9 J		
Indeno(1,2,3-cd)pyrene	NC	1.1	0.1 U	0.098 U	11 J	5.1 J		
Dibenz(a,h)anthracene	NC	1.1	0.29 U	0.28 U	2.6 UJ	2.9 UJ		
Benzo(g,h,i)perylene	NC	1.1	0.29 U	0.28 U	14 J	6.8 J		
Total PAHs	NC	NC	8.72	1.6	168.1	68.6		
Cyanide								
Total Cyanide	NC	NC	0.61 U	1.20	1.10 UJ	1.21 UJ		

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-29		PASB-29		PASB-29		PASB-30		PASB-30
	Soil Criteria	USEPA	PASB-29-0-0.2		PASB-29-0-0.5		PASB-30-0-0.2		PASB-30-0-0.5		
	Protection of	Eco-SSL	Z1370-11		Z1370-12		Z1370-15		Z1370-16		
	Ecol. Resources	PAHs	01/31/08		01/31/08		01/31/08		01/31/08		
	mg/kg	mg/kg	SOIL		SOIL		SOIL		SOIL		
			mg/kg		mg/kg		mg/kg		mg/kg		
COMPOUND											
Benzaldehyde	NC	NC	0.13	U	0.14	U	0.13	U	0.12	U	
Phenol	30	NC	0.1	U	0.12	U	0.11	U	0.1	U	
bis(2-Chloroethyl)ether	NC	NC	0.049	U	0.056	U	0.051	U	0.048	U	
Caprolactam	NC	NC	0.45	U	0.51	U	0.46	U	0.44	U	
Acetophenone	NC	NC	0.11	U	0.13	U	0.12	U	0.11	U	
Isophorone	NC	NC	0.12	U	0.14	U	0.13	U	0.12	U	
Naphthalene	NC	29	0.091	U	1.2	J	0.8	J	0.93	J	
2-Methylnaphthalene	NC	29	0.11	U	0.78	J	0.51	J	1.2	J	
1,1-Biphenyl	NC	NC	0.11	U	0.13	U	0.11	U	0.11	U	
Acenaphthylene	NC	29	0.055	U	0.063	U	1	J	1.1	J	
Acenaphthene	20	29	0.082	U	0.093	U	0.64	J	0.78	J	
Dibenzofuran	NC	NC	0.12	U	0.13	U	0.12	U	0.11	U	
Fluorene	30	29	0.1	U	0.12	U	0.78	J	1.4	J	
Phenanthrene	NC	29	0.12	U	1.3	J	2.9	J	5.6		
Anthracene	NC	29	0.13	U	0.14	U	0.94	J	1.7	J	
Carbazole	NC	NC	0.29	U	0.33	U	0.3	U	0.28	U	
Fluoranthene	NC	29	0.61	J	1.9	J	1.9	J	3.6	J	
Pyrene	NC	1.1	0.76	J	2.2	J	2.9	J	5.6		
Butylbenzylphthalate	NC	NC	0.24	U	0.27	U	0.24	U	0.23	U	
3,3-Dichlorobenzidine	NC	NC	0.28	U	0.32	U	0.29	U	0.28	U	
Benzo(a)anthracene	NC	1.1	0.4	J	0.94	J	1	J	1.9	J	
Chrysene	NC	1.1	0.51	J	1.6	J	1.3	J	2.2	J	
bis(2-Ethylhexyl)phthalate	NC	NC	1.4	J	1.6	J	0.15	U	0.8	J	
Benzo(b)fluoranthene	NC	1.1	0.49	J	1.5	J	0.9	J	1.4	J	
Benzo(k)fluoranthene	NC	1.1	0.17	U	0.59	J	0.18	U	0.54	J	

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-29		PASB-29		PASB-29		PASB-30		PASB-30
	Soil Criteria	USEPA	PASB-29-0-0.2		PASB-29-0-0.2		PASB-29-0-0.5		PASB-30-0-0.2		PASB-30-0-0.5
	Protection of	Eco-SSL	Z1370-11		Z1370-11		Z1370-12		Z1370-15		Z1370-16
	Ecol. Resources	PAHs	01/31/08		01/31/08		01/31/08		01/31/08		01/31/08
	mg/kg	mg/kg	SOIL		SOIL		SOIL		SOIL		SOIL
			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg
Benzo(a)pyrene	2.6	1.1	0.11	U	0.82	J	0.91	J	0.91	J	1.5
Indeno(1,2,3-cd)pyrene	NC	1.1	0.095	U	0.73	J	0.44	J	0.44	J	0.71
Dibenzo(a,h)anthracene	NC	1.1	0.28	U	0.31	U	0.28	U	0.28	U	0.27
Benzo(g,h,i)perylene	NC	1.1	0.27	U	0.96	J	0.61	J	0.61	J	0.94
Total PAHs	NC	NC	2.77		14.52		17.53		17.53		31.1
Cyanide											
Total Cyanide	NC	NC	0.58	U	0.66	U	0.6	U	0.6	U	0.58

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-31	PASB-31	PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
	Soil Criteria	USEPA	Z1341-09	Z1341-10	Z1341-08	Z1341-07	Z1341-06	Z1341-05	Z1341-04
	Protection of	Eco-SSL	01/29/2008	01/29/2008	01/29/2008	01/29/2008	01/29/2008	01/29/2008	01/29/2008
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND									
Benzaldehyde	NC	NC	0.55 U	0.41 U	0.041 U	0.021 U	0.021 U	0.021 U	0.021 U
Phenol	30	NC	0.46 U	0.34 U	0.034 U	0.018 U	0.018 U	0.018 U	0.018 U
bis(2-Chloroethyl)ether	NC	NC	0.22 U	0.16 U	0.016 U	0.0083 U	0.0083 U	0.0083 U	0.0083 U
Caprolactam	NC	NC	2 U	1.5 U	0.15 U	0.076 U	0.076 U	0.076 U	0.076 U
Acetophenone	NC	NC	0.49 UJ	0.36 U	0.036 UJ	0.019 U	0.019 U	0.019 U	0.019 U
Isophorone	NC	NC	0.54 UJ	0.4 U	0.04 UJ	0.021 U	0.021 U	0.021 U	0.021 U
Naphthalene	NC	29	0.4 UJ	0.29 U	0.03 UJ	0.015 U	0.015 U	0.015 U	0.015 U
2-Methylnaphthalene	NC	29	0.47 UJ	0.34 U	0.035 UJ	0.018 U	0.018 U	0.018 U	0.018 U
1,1-Biphenyl	NC	NC	0.49 UJ	0.36 U	0.036 UJ	0.019 U	0.019 U	0.019 U	0.019 U
Acenaphthylene	NC	29	0.24 UJ	0.18 U	0.018 UJ	0.015 J	0.015 J	0.015 J	0.015 J
Acenaphthene	20	29	0.36 UJ	0.26 U	0.026 UJ	0.014 U	0.014 U	0.014 U	0.014 U
Dibenzofuran	NC	NC	0.51 UJ	0.38 U	0.038 UJ	0.02 U	0.02 U	0.02 U	0.02 U
Fluorene	30	29	0.44 UJ	0.33 U	0.033 UJ	0.017 U	0.017 U	0.017 U	0.017 U
Phenanthrene	NC	29	0.51 UJ	0.38 U	0.038 UJ	0.094 J	0.094 J	0.094 J	0.094 J
Anthracene	NC	29	0.56 UJ	0.41 U	0.041 UJ	0.071 J	0.071 J	0.071 J	0.071 J
Carbazole	NC	NC	1.3 UJ	0.93 U	0.094 UJ	0.048 U	0.048 U	0.048 U	0.048 U
Fluoranthene	NC	29	2.4 J	1.3 J	0.3 J	0.41 J	0.41 J	0.41 J	0.41 J
Pyrene	NC	1.1	3.3 J	1.9 J	0.52 J	0.71	0.71	0.71	0.71
Butylbenzylphthalate	NC	NC	1 UJ	0.77 U	0.077 UJ	0.04 U	0.04 U	0.04 U	0.04 U
3,3-Dichlorobenzidine	NC	NC	1.2 UJ	0.92 U	0.092 UJ	0.048 U	0.048 U	0.048 U	0.048 U
Benzo(a)anthracene	NC	1.1	0.4 UJ	0.29 U	0.28 J	0.45 J	0.45 J	0.45 J	0.45 J
Chrysene	NC	1.1	1.9 J	0.23 U	0.37 J	0.52 J	0.52 J	0.52 J	0.52 J
bis(2-Ethylhexyl)phthalate	NC	NC	0.63 UJ	0.47 U	0.047 UJ	0.077 U	0.077 U	0.077 U	0.077 U
Benzo(b)fluoranthene	NC	1.1	2.4 J	1.7 J	0.51 J	0.74	0.74	0.74	0.74
Benzo(k)fluoranthene	NC	1.1	0.76 UJ	0.56 U	0.22 J	0.22 J	0.22 J	0.22 J	0.22 J

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-31	PASB-31	PASB-31	PASB-32	PASB-32
	Soil Criteria	USEPA	PASB-31-0-0.2	PASB-31-0-0.5	PASB-32-0-0.2	PASB-32-0-0.5	
	Protection of	Eco-SSL	Z1341-09	Z1341-10	Z1341-07	Z1341-08	
	Ecol. Resources	PAHs	01/29/2008	01/29/2008	01/29/2008	01/29/2008	
	mg/kg	mg/kg	SOIL	SOIL	SOIL	SOIL	
			mg/kg	mg/kg	mg/kg	mg/kg	
Benzo(a)pyrene	2.6	1.1	0.49 UJ	0.36 U	0.31 J	0.41 J	
Indeno(1,2,3-cd)pyrene	NC	1.1	0.42 UJ	0.31 U	0.27 J	0.35 J	
Dibenz(a,h)anthracene	NC	1.1	1.2 UJ	0.9 U	0.09 UJ	0.097 J	
Benzo(g,h,i)perylene	NC	1.1	1.7 J	0.88 U	0.47 J	0.57 J	
Total PAHs	NC	NC	11.7	4.9	3.25	4.792	
Cyanide							
Total Cyanide	NC	NC	1.26 UJ	0.92 U	2.44 J	1.42	

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC	PASB-33	PASB-33	PASB-33	PASB-33	PASB-33	PASB-42	PASB-42
	Soil Criteria	USEPA	Z1341-13	Z1341-14	Z1341-14	Z3645-04		
	Protection of	Eco-SSL	01/29/2008	01/29/2008	01/29/2008	07/10/2008		
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
COMPOUND								
Benzaldehyde	NC	NC	0.45 U	0.086 U	0.023 U	0.011 U		
Phenol	30	NC	0.37 U	0.072 U	0.019 U	0.0095 U		
bis(2-Chloroethyl)ether	NC	NC	0.18 U	0.034 U	0.0089 U	0.0045 U		
Caprolactam	NC	NC	1.6 U	0.31 U	0.082 U	0.041 U		
Acetophenone	NC	NC	0.4 U	0.077 U	0.02 U	0.01 U		
Isophorone	NC	NC	0.44 U	0.084 U	0.022 U	0.011 U		
Naphthalene	NC	29	0.33 U	0.48 J	0.016 U	0.0082 U		
2-Methylnaphthalene	NC	29	0.38 U	0.073 U	0.019 U	0.0096 U		
1,1-Biphenyl	NC	NC	0.4 U	0.076 U	0.02 U	0.01 U		
Acenaphthylene	NC	29	4.7 J	2 J	0.15 J	0.099 J		
Acenaphthene	20	29	0.29 U	0.056 U	0.015 U	0.0074 U		
Dibenzofuran	NC	NC	0.42 U	0.08 U	0.021 U	0.011 U		
Fluorene	30	29	3.7 J	0.34 J	0.018 U	0.0092 U		
Phenanthrene	NC	29	21	2.7	0.33 J	0.098 J		
Anthracene	NC	29	9.1 J	4.5	0.11 J	0.053 J		
Carbazole	NC	NC	1 U	0.2 U	0.052 U	0.026 U		
Fluoranthene	NC	29	24	8.3	0.8	0.38		
Pyrene	NC	1.1	0.33 U	0.13	0.91	0.56		
Butylbenzylphthalate	NC	NC	0.85 U	0.16 U	10 D	0.16 J		
3,3-Dichlorobenzidine	NC	NC	1 U	0.19 U	0.051 U	0.026 U		
Benzo(a)anthracene	NC	1.1	1.1 U	5.5	0.53 J	0.36		
Chrysene	NC	1.1	9.2 U	5.2	0.7	0.43		
bis(2-Ethylhexyl)phthalate	NC	NC	1.5 U	0.35 U	2.5	0.38		
Benzo(b)fluoranthene	NC	1.1	10 U	4.9	0.82	0.54		
Benzo(k)fluoranthene	NC	1.1	3.1 U	1.8 U	0.23 J	0.18 J		

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-33	PASB-33	PASB-33	PASB-33	PASB-33	PASB-42	PASB-42
	Soil Criteria	USEPA	Z1341-13	Z1341-14	Z1341-14	Z1341-14	Z1341-14	PASB42-0-0.2	PASB42-0-0.5
	Protection of	Eco-SSL	01/29/2008	01/29/2008	01/29/2008	01/29/2008	01/29/2008	Z3645-04	Z3645-07
	Ecol. Resources	PAHs	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(a)pyrene	2.6	1.1	9.5 J	4.9				0.47 J	0.34
Indeno(1,2,3-cd)pyrene	NC	1.1	3.5 J	2.1				0.4 J	0.3 J
Dibenz(a,h)anthracene	NC	1.1	0.99 UJ	0.61				0.11 J	0.068 J
Benzo(g,h,i)perylene	NC	1.1	6.2 J	3.4				0.49 J	0.36
Total PAHs	NC	NC	148	59.73				6.05	3.768
Cyanide									
Total Cyanide	NC	NC	1.09 J	0.89				0.513 U	0.514 U

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC	PASB-43	PASB-43	PASB-43	PASB-46	PASB-46
	Soil Criteria	USEPA	PASB43-0-0.2	PASB43-0-0.5	PASB46-0-0.2	PASB46-0-0.5
	Protection of	Eco-SSL	Z3645-08	Z3645-09	Z3645-11	Z3645-12
	Ecol. Resources	PAHs	07/10/2008	07/10/2008	07/10/2008	07/10/2008
	mg/kg	mg/kg	SOIL	SOIL	SOIL	SOIL
			mg/kg	mg/kg	mg/kg	mg/kg
COMPOUND						
Benzaldehyde	NC					
Phenol	30	NC	0.072 U	0.025 U	0.014 UJ	1.6 DJ
bis(2-Chloroethyl)ether	NC	NC	0.059 U	0.021 U	0.012 U	0.26 J
Caprolactam	NC	NC	0.028 U	0.0096 U	0.066 J	0.0053 U
Acetophenone	NC	NC	0.26 U	0.088 U	0.05 U	0.15 J
Isophorone	NC	NC	0.064 U	0.022 U	0.012 U	0.012 U
Napthalene	NC	NC	0.07 U	0.024 U	0.014 U	0.013 U
2-Methylnaphthalene	NC	29	0.052 U	0.018 U	0.01 U	0.0097 U
1,1-Biphenyl	NC	29	0.06 U	0.021 U	0.012 U	0.011 U
Acenaphthylene	NC	NC	0.063 U	0.022 U	0.012 U	0.012 U
Acenaphthene	20	29	0.031 U	0.011 U	0.047 J	0.065 J
Dibenzofuran	NC	NC	0.046 U	0.016 U	0.009 U	0.0087 U
Fluorene	30	NC	0.066 U	0.023 U	0.013 U	0.012 U
Phenanthrene	NC	29	0.058 U	0.02 U	0.011 U	0.011 U
Anthracene	NC	29	0.25 J	0.023 U	0.2 J	0.23 J
Carbazole	NC	29	0.072 U	0.025 U	0.053 J	0.071 J
Fluoranthene	NC	NC	0.16 U	0.056 U	0.032 U	0.031 U
Pyrene	NC	29	0.53 J	0.12 J	0.47	0.43
Butylbenzylphthalate	NC	1.1	0.62 J	0.15 J	0.58	0.5
3,3-Dichlorobenzidine	NC	NC	1.3 J	0.21 J	0.026 U	0.025 U
Benzo(a)anthracene	NC	NC	0.16 U	0.056 U	0.031 U	0.03 U
Chrysene	NC	1.1	0.33 J	0.096 J	0.31 J	0.29 J
bis(2-Ethylhexyl)phthalate	NC	1.1	0.41 J	0.11 J	0.33 J	0.34 J
Benzo(b)fluoranthene	NC	NC	0.64 J	0.25 J	0.14 J	0.078 J
Benzo(k)fluoranthene	NC	1.1	0.42 J	0.14 J	0.4 J	0.38 J
	NC	1.1	0.098 U	0.034 U	0.13 J	0.12 J

Table 6-5
FWRIA Surface Soil Screening
Detected Semi-Volatile Organic Compounds and Cyanide
Patchogue Former MGP Site

	NYSDEC		PASB-43		PASB-43		PASB-43		PASB-46		PASB-46
	Soil Criteria	USEPA	PASB43-0-0.2		PASB43-0-0.2		PASB43-0-0.5		PASB46-0-0.2		PASB46-0-0.5
	Protection of	Eco-SSL	Z3645-08		Z3645-08		Z3645-09		Z3645-11		Z3645-12
	Ecol. Resources	PAHs	SOIL		SOIL		SOIL		SOIL		SOIL
	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg
Benzo(a)pyrene	2.6	1.1	0.32	J	0.098	J	0.098	J	0.31	J	0.3
Indeno(1,2,3-cd)pyrene	NC	1.1	0.22	J	0.076	J	0.076	J	0.16	J	0.21
Dibenz(a,h)anthracene	NC	1.1	0.16	U	0.054	U	0.054	U	0.048	J	0.054
Benzo(g,h,i)perylene	NC	1.1	0.26	J	0.094	J	0.094	J	0.23	J	0.25
Total PAHs	NC	NC	3.36		0.884		0.884		3.268		3.24
Cyanide											
Total Cyanide	NC	NC	0.652	U	0.562	U	0.562	U	0.632	U	0.612

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

R - Rejected.

NC - No criteria.

ND - No PAHs detected

Shaded concentrations exceed NYSDEC value for protection of ecol

Table 6-6
FWRIA Surface Water Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	NYSDEC	NYSDEC	Location ID	SD-01	SD-02
	Water Quality	Water Quality	Tier II	PASW1	PASW2
	Standards	Standards	Secondary	Z3688-05	Z3666-05
	Class C	Class C	Chronic Value ¹	07/14/2008	07/11/2008
	ug/l	ug/l	ug/l	WATER	WATER
Volatile Organic Compounds				ug/l	ug/l
Toluene	NC	NC	130	0.34 U	2.4 J

Notes and Data Qualifiers:

ug/L - Micrograms Per Liter

U - Non-detected at detection limit value given.

¹ Tier II Secondary water quality value cited in Suter and Tsao (1996)

Table 6-6
FWRIA Surface Water Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	NYSDEC	NYSDEC	Location ID	SD-03	SD-04
	Water Quality	Water Quality		PASW3	PASW4
	Standards	Standards	Tier II	Z3666-04	Z3666-03
	Class C	Class C	Secondary	07/11/2008	07/11/2008
	ug/l	ug/l	Chronic Value ¹	WATER	WATER
			ug/l	ug/l	ug/l
Volatile Organic Compounds					
Toluene	NC	NC	130	0.34 U	0.34 U

Notes and Data Qualifiers:

ug/L - Micrograms Per Liter

U - Non-detected at detection limit value given.

¹ Tier II Secondary water quality value cited in Suter and Tsao (1996)

Table 6-6
FWRIA Surface Water Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	NYSDEC	NYSDEC	Location ID	SD-05	SD-05
	Water Quality	Water Quality		PASW5	PASW6
	Standards	Standards	Tier II	Z3666-02	Z3666-01
	Class C	Class C	Secondary	07/11/2008	Duplicate of
	ug/l	ug/l	Chronic Value ¹	WATER	PASW5
			ug/l	ug/l	ug/l
Volatile Organic Compounds					
Toluene	NC	NC	130	0.34 U	0.34 U

Notes and Data Qualifiers:

ug/L - Micrograms Per Liter

U - Non-detected at detection limit value given.

¹ Tier II Secondary water quality value cited in Suter and Tsao (1996)

Table 6-6
FWRIA Surface Water Screening
Detected Volatile Organic Compounds
Patchogue Former MGP Site

	NYSDEC		Location ID	
	Water Quality	Water Quality		TB071108
	Standards	Standards	Tier II	Z3666-06
	Class C	Class C	Secondary	07/11/2008
	ug/l	ug/l	Chronic Value ¹	WATER
			ug/l	ug/l
Volatile Organic Compounds				
Toluene	NC	NC	130	0.34 U

Notes and Data Qualifiers:

ug/L - Micrograms Per Liter

U - Non-detected at detection limit value given.

¹ Tier II Secondary water quality value cited in Suter and Tsao (1996)

Table 6-7
FWIA Surface Water Screening - Detected Metals
Patchogue Former MGP Site

		Location ID	SD-01	SD-02	SD-03	SD-04	SD-04
	NYSDEC	NYSDEC	PASW-01	PASW-02	PASW-03	PASW-04	PASW-04D
	Acute	Chronic	A1685505	A1685504	A1685501	A1685502	A1685503
	AWQC	AWQC	07/18/2001	07/18/2001	07/18/2001	07/18/2001	07/18/2001
	Class C	Class C	WATER	WATER	WATER	WATER	WATER
Metals	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Arsenic - Total	340	150	7	7	7	11	7
Barium - Total	NC	NC	24	24	24	190	100
Cadmium - Total	1.76	1.21	1	1	1	13	4.8
Chromium - Total	323	42	2	2	2	16	6.3
Lead - Total	45.3	1.77	10	10	10	350	150
Mercury - Total	1.4	0.77	0.2	0.2	0.2	1.4	0.67
Selenium - Total	NC	4.6	10	10	10	15	10
Silver - Total	NC	0.1	3	3	3	3	3
Cyanide							
Cyanide - Total	22	5.2	5	5	5	5	5

Notes and Data Qualifiers:

AWQC - Ambient water quality criteria

NC - No Criteria

ug/L - Micrograms Per Liter

U - Non-detected at detection limit value given.

Bold values - Chronic Exceedance

Bold + Shaded Values - Acute Exceedance

Hardness based criteria based upon a hardness value of 50 mg/L reported at USGS Water Quality Gaging Station #01306000 at Patchogue River

Table 6-8
FWRIA Sediment Screening - BTEX
Patchogue Former MGP Site

						Upstream Background																			
					Location ID	SED-1		SED-2		SED-3		SED-4		SED-11		SED--01		SED--01		SED--01		SED--01		SED--01	
	NYSDEC	NYSDEC				PASED1		PASED2		PASED3		PASED4		PASED11		PASD-01		PASD-01		PASD-01		PASD-01		PASD-01	
	Benthic	Benthic	USEPA	NYSDEC	NYSDEC	Z1465-02		Z1465-01		Z1436-05		Z1436-03		Z1436-04		A1684716		A1684715		A1684710		A1684711		A1684712	
	Aquatic Life	Aquatic Life	Chronic Toxicity	Wildlife	Human Health	02/07/08		02/07/08		02/06/08		02/06/08		Duplicate of		07/18/01		07/18/01		07/18/01		07/18/01		07/18/01	
	Acute Toxicity	Chronic Toxicity	Value	Bioaccumulation	Bioaccumulation	SOIL		SOIL		SOIL		SOIL		PASED4											
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
COMPOUND																									
Benzene	NC	NC	NC	NC	0.006	0.0044	U	0.0043	U	0.0048	U	0.0043	U	0.0044	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Toluene	2.35	0.49	NC	NC	NC	0.0054	U	0.0052	U	0.0059	U	0.0053	U	0.0054	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Ethyl Benzene	2.12	0.24	NC	NC	NC	0.0049	U	0.0047	U	0.0054	U	0.0048	U	0.0049	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Total Xylenes	8.33	0.92	NC	NC	NC	0.0157	U	0.0155	U	0.0171	U	0.0155	U	0.0157	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U
Total BTEX	NC	NC	NC	NC	NC	0		0		0		0		0		0		0		0		0		0	

Notes and Data Qualifiers
U - Non-detected at detection limit value given.
J - Estimated.
NC - No criteria available
*- NYSDEC sediment quality criteria available for comparison
Sediment quality criteria based on 1% TOC in absence of site specific value
Bolded concentrations exceed NYSDEC chronic or USEPA chronic toxicity values
Bolded and shaded concentrations exceed NYSDEC acute and NYSDEC chronic or USEPA chronic values

Table 6-8
FWRIA Sediment Screening - BTEX
Patchogue Former MGP Site

					Location ID	SED-5		SED-6		SED-7		SED-8		SED-9	SED-10
	NYSDEC	NYSDEC				PASED5		PASED6		PASED7		PASED8		PASED9	PASED10
	Benthic	Benthic	USEPA	NYSDEC	NYSDEC	Z1465-03		Z1465-04		Z1436-02		Z1436-01		Z1465-05	Z1436-06
	Aquatic Life	Aquatic Life	Chronic Toxicity	Wildlife	Human Health	02/07/08		02/07/08		02/06/08		02/06/08		02/07/08	02/06/08
	Acute Toxicity	Chronic Toxicity	Value	Bioaccumulation	Bioaccumulation	SOIL		SOIL		SOIL		SOIL		SOIL	SOIL
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg
COMPOUND															
Benzene	NC	NC	NC	NC	0.006	0.0048 U		0.0045 U		0.0049 U		0.0058 U		0.0051 U	0.015 UJ
Toluene	2.35	0.49	NC	NC	NC	0.0058 U		0.0054 U		0.006 U		0.0071 U		0.0062 U	0.018 UJ
Ethyl Benzene	2.12	0.24	NC	NC	NC	0.0053 U		0.005 U		0.0054 U		0.0065 U		0.0056 U	0.017 UJ
Total Xylenes	8.33	0.92	NC	NC	NC	0.017 U		0.0167 U		0.0182 U		0.0212 U		0.0184 U	0.054 UJ
Total BTEX	NC	NC	NC	NC	NC	0		0		0		0		0	0

Notes and Data Qualifiers
U - Non-detected at detection limit value given.
J - Estimated.
NC - No criteria available
"- " NYSDEC sediment quality criteria available for comparison
Sediment quality criteria based on 1% TOC in absence of site specific value
Bolded concentrations exceed NYSDEC chronic or USEPA chronic toxicity values
Bolded and shaded concentrations exceed NYSDEC acute and NYSDEC chronic or USEPA chronic values

Table 6-9
FWRIA Sediment Screening
Detected PAHs and Cyanide
Patchogue Former MGP Site

						Upstream Background							
					Location ID	SED-1		SED-2		SED-3		SED-4	
	NYSDEC	NYSDEC	USEPA ¹			PASED1		PASED2		PASED3		PASED4	
	Benthic	Benthic	Final	NYSDEC	NYSDEC	Z1465-02		Z1465-01		Z1436-05		Z1436-03	
	Aquatic Life	Aquatic Life	Chronic Toxicity	Wildlife	Human Health	02/07/08		02/07/08		02/06/08		02/06/08	
	Acute Toxicity	Chronic Toxicity	Value	Bioaccumulation	Bioaccumulation	SOIL		SOIL		SOIL		SOIL	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/Kg		mg/Kg		mg/Kg		mg/Kg	
COMPOUND													
Naphthalene	2.58	0.3	-	NC	NC	0.058 U		0.058 U		0.055 U		0.0097 U	
Acenaphthylene	NC	NC	4.52	NC	NC	0.035 U		0.035 U		0.56 J		0.0059 U	
Acenaphthene	NC	1.4	-	NC	NC	0.052 U		0.052 U		0.049 U		0.0087 U	
Fluorene	0.73	0.08	-	NC	NC	0.065 U		0.065 U		0.3 J		0.011 U	
Phenanthrene	NC	1.2	-	NC	NC	0.075 U		0.075 U		8.2		0.41	
Anthracene	9.86	1.07	-	NC	NC	0.081 U		0.081 U		1.6 J		0.078 J	
Fluoranthene	NC	10.2	-	NC	NC	0.37 J		0.058 U		15 D		0.65	
Pyrene	87.75	9.61	-	NC	NC	0.38 J		0.052 U		17		0.69	
Benzo(a)anthracene	0.94	0.12	-	NC	0.013	0.058 U		0.058 U		6.8		0.26 J	
Chrysene	NC	NC	8.44	NC	0.013	0.045 U		0.045 U		6.7		0.33 J	
Benzo(b)fluoranthene	NC	NC	9.79	NC	0.013	0.17 U		0.17 U		9.9 J		0.38 J	
Benzo(k)fluoranthene	NC	NC	9.81	NC	0.013	0.11 U		0.11 U		2.4 J		0.13 J	
Benzo(a)pyrene	NC	NC	9.67	NC	0.013	0.071 U		0.071 U		5.5 J		0.23 J	
Indeno(1,2,3-cd)pyrene	NC	NC	11.15	NC	0.013	0.061 U		0.061 U		1.4 J		0.088 J	
Dibenz(a,h)anthracene	NC	NC	11.23	NC	NC	0.18 U		0.18 U		0.63 J		0.03 U	
Benzo(g,h,i)perylene	NC	NC	10.95	NC	NC	0.17 U		0.17 U		1.9 J		0.097 J	
Total PAHs	NC	NC	NC	NC	NC	0.75		0		77.89		3.343	
Cyanide													
Total Cyanide	NC	NC	NC	NC	NC	0.061 U		0.00061 U		0.00069 U		0.00061 U	

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

NC - No criteria available

"-" NYSDEC sediment quality criteria available for comparison

¹ USEPA (2003)

Sediment quality criteria based on 1% TOC in absence of site specific value

Bolded concentrations exceed NYSDEC (1999) chronic or USEPA (2003) chronic toxicity values

Bolded and shaded concentrations exceed NYSDEC (1999) acute and NYSDEC (1999) chronic or USEPA chronic values

Italicized concentrations exceed human health bioaccumulation values.

Table 6-9
FWRIA Sediment Screening
Detected PAHs and Cyanide
Patchogue Former MGP Site

					SED--04		SED--04D		SED-5		SED-6		SED-7		SED-8		SED-9		SED-10
	NYSDEC	NYSDEC	USEPA ¹		PASD-04		PASD-04D		PASED5		PASED6		PASED7		PASED8		PASED9		PASED10
	Benthic	Benthic	Final	NYSDEC	A1684711		A1684711		Z1465-03		Z1465-04		Z1436-02		Z1436-01		Z1465-05		Z1436-06
	Aquatic Life	Aquatic Life	Chronic Toxicity	Wildlife	07/18/01		07/18/01		02/07/08		02/07/08		02/06/08		02/06/08		02/07/08		02/06/08
	Acute Toxicity	Chronic Toxicity	Value	Bioaccumulation					SOIL		SOIL		SOIL		SOIL		SOIL		SOIL
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg
COMPOUND																			
Naphthalene	2.58	0.3	-	NC	0.33 U		0.33		1.6 J		0.059 U		0.089 J		0.065 U		0.067 U		0.033 UJ
Acenaphthylene	NC	NC	4.52	NC	0.33 U		0.33		0.31 J		0.036 U		1.4		1.1 J		0.04 U		0.02 UJ
Acenaphthene	NC	1.4	-	NC	0.33 U		0.33		2.5 J		0.053 U		0.19 J		0.058 U		0.06 U		0.03 UJ
Fluorene	0.73	0.08	-	NC	0.33 U		0.33		3.2		0.066 U		0.16 J		0.073 U		0.074 U		0.037 UJ
Phenanthrene	NC	1.2	-	NC	0.33 U		0.33		19		0.81 J		3.7 D		0.62 J		0.64 J		0.043 UJ
Anthracene	9.86	1.07	-	NC	0.33 U		0.33		5.2		0.083 U		1.2		0.58 J		0.3 J		0.046 UJ
Fluoranthene	NC	10.2	-	NC	0.33 U		0.33		26 D		1.3 J		3.8 D		5.3		2.3 J		0.033 UJ
Pyrene	87.75	9.61	-	NC	0.33 U		0.33		25 D		1.2 J		4.8 D		9.4		2.4 J		0.03 UJ
Benzo(a)anthracene	0.94	0.12	-	NC	0.33 U		0.33		17		0.56 J		0.78		4.5		1.1 J		0.033 UJ
Chrysene	NC	NC	8.44	NC	0.33 U		0.33		12		0.56 J		0.68		4		1.1 J		0.026 UJ
Benzo(b)fluoranthene	NC	NC	9.79	NC	0.33 U		0.33		9.6		0.64 J		0.55 J		3.4		1.3 J		0.099 UJ
Benzo(k)fluoranthene	NC	NC	9.81	NC	0.33 U		0.33		3.4		0.11 U		0.18 J		1.1 J		0.3 J		0.063 UJ
Benzo(a)pyrene	NC	NC	9.67	NC	0.33 U		0.052 J		8.1		0.48 J		0.43 J		3.7		1.2 J		0.041 UJ
Indeno(1,2,3-cd)pyrene	NC	NC	11.15	NC	0.33 U		0.038 J		5.7		0.38 J		0.092 J		2.3 J		0.68 J		0.035 UJ
Dibenz(a,h)anthracene	NC	NC	11.23	NC	0.33 U		0.33		1.2 J		0.18 U		0.033 UJ		0.2 U		0.2 U		0.1 UJ
Benzo(g,h,i)perylene	NC	NC	10.95	NC	0.33 U		0.33		5.9		3.3 J		0.14 J		2.8 J		0.72 J		0.099 UJ
Total PAHs	NC	NC	NC	NC	5.28 U		4.71		139.71		9.23		18.191		38.8		12.04		0
Cyanide																			
Total Cyanide	NC	NC	NC	NC	0.5 U		0.5 U		0.00067 U		0.00062 U		0.00068 U		0.00082 U		0.0007 U		0.00212 UJ

Notes and Data Qualifiers

U - Non-detected at detection limit value given.

J - Estimated.

D - Diluted.

NC - No criteria available

"-" NYSDEC sediment quality criteria available for comparison

¹ USEPA (2003)

Sediment quality criteria based on 1% TOC in absence of site specific value

Bolded concentrations exceed NYSDEC (1999) chronic or USEPA (2003) chronic toxicity values

Bolded and shaded concentrations exceed NYSDEC (1999) acute and NYSDEC (1999) chronic or USEPA chronic values

Italicized concentrations exceed human health bioaccumulation values.