NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Classification Report

8/23/2011

Site Code: 336027 **Site Name:** Mayer Landfill
City: Blooming Grove **Town:** Blooming Grove
Region: 3 **County:** Orange
Current Classification: 02 **Proposed Classification:** 04
Estimated Size (acres): 15.15 **Disposal Area:** Landfill
Significant Threat: Previously **Site Type:**
Priority ranking Score: 270 **Project Manager:** David Chiusano

Summary of Approvals

Originator/Supervisor: Gerard Burke	**06/20/2011**
RHWRE: :	**06/20/2011**
BEEI of NYSDOH:	**07/19/2011**
CO Bureau Director: Michael Cruden, Director, Remedial Bureau E:	**06/20/2011**
	07/20/2011
Assistant Division Director: Robert Schick:	

Site Description

Location: The Mayer Landfill site is an inactive landfill approximately 15 acres in size located in rural Orange County on Prospect Road near the intersection of Peddlar Hill Road. The site is bounded by Peddler Hill Road to the north, private property to the south, private property to the east, and Prospect Road and a utility right-of-way to the west. The site has been reclassified frm a Class 2 to Class 4 since remediation is complete and an environmental notice was placed on the parcel.

Site Features: The site is covered by grasses and low brush and surrounded by hardwood forests, with intermittent streams along the western and southern borders.

Current Zoning/Use(s): The site is currently inactive, used for a utility right-of-way and is zoned for residential use. The surrounding area is either undeveloped parcels or homes.

Historical Use(s): The landfill operation began at the site in 1940 as an open-face dump, with periodic burning of refuse. Residential, commercial, industrial, demolition, and agricultural waste were allegedly disposed of at the landfill. Part of the landfill was designated as a public dump in 1956.

The Orange County Department of Health (OCDOH)
cited the landfill for mismanagement and violations many times in the early-1970s. The landfill ceased operations in April 1975 due to failure to comply with state and county regulations.

In 1975, the OCDOH conducted an initial investigation of surface water at the landfill.
Analytical results showed elevated levels of zinc in a wet area to the south of the landfill.

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The NYSDEC first listed the site on the NYS Registry of Inactive Hazardous Waste Disposal Sites in 1985. A Phase I Investigation was completed in 1987, and a Phase II Investigation was completed in June 1991. A State-funded RI/FS began in March 1999 and the Record of Decision (ROD) was completed in January 2005.

The ROD required the excavation of a small amount of contaminated soil identified at the edge of waste on the north side of the landfill, and an environmental easement to protect the existing cover, prevent groundwater use and implement a long-term groundwater monitoring program.

In April 2008 the ROD remedy was changed by way of an Explanation of Significant Differences (ESD) issued by the DEC. The change to the remedy included the excavation and off-site disposal of an additional volume of contaminated soil than was originally estimated in the ROD.

Remedial design investigations were completed in July 2007. Environmental cleanup work at the site began in September 2008 and was completed in June 2009. The following major cleanup activities were completed at the site:

- Approximately 7,500 tons of non-hazardous, solid waste consisting primarily of LNAPL contaminated soils were removed from the site and disposed of at an off-site, state permitted facility;

- Groundwater generated from excavation activities was collected and treated onsite. Samples of the collected water were regularly obtained prior to onsite discharge and analyzed for site specific contaminants of concern to ensure compliance with DEC discharge standards;

- Excavated areas were backfilled, re-graded with off-site, clean soil to promote proper site drainage, and seeded; and

- Installation of five (5) sentinel groundwater monitoring wells for long term monitoring of groundwater quality between the site and the surrounding residential areas.

Since the remedy results in contamination above unrestricted use levels remaining at the site, a Site Management Plan (SMP) has been developed. An Environmental Notice on the entire parcel was filed with the Orange County Clerk's Office in Spring 2011.

Site Geology and Hydrogeology: Native overburden material at the site consists of discontinuous layers of sand, silt, and clay and a highly-compacted lodgment till. The overburden varies in depth from 14 feet to 60 feet. Bedrock beneath the till is black-gray shale with abundant calcite (calcium carbonate) veins with traces of pyrite (iron sulfide). The top few feet of the shale are highly weathered. Maximum depth of waste exceeds 18 feet below ground surface (bgs).

Depth to shallow groundwater varies across the site and seasonally from 6 feet bgs to 20 feet bgs south of the landfill. Shallow groundwater appears to flow radially from the center of the landfill to the north, west, and

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south.

Depth to bedrock groundwater varies from about 6 ft bgs at the north side of the site to 27 feet bgs on the northeast edge of the landfill.

Contaminants of Concern (Including Materials Disposed)	**Quantity Disposed**	
OU 01		
ACETONE	0.00	
XYLENE	0.00	
EPOXIDES AND PHTHALATE ESTERS	0.00	
PHTHALIC ANHYDRIDES, MALEIC ANHYDRIDES AND	0.00	
PHTHALIC ACID	0.00	
PROPYLENE GLYCOL AND ETHYLENE GLYCOL	0.00	
AMINES (VARIOUS)	0.00	
TOTAL (D001 WASTES)	0.00	
ACETONE		gal
LEAD		gal
ZINC		gal

Analytical Data Available for : Groundwater, Surface Water, Soil, Sediment

Applicable Standards Exceeded for: Groundwater, Surface Water

Site Environmental Assessment

Nature and Extent of Contamination: This site no longer presents a significant threat to the environment. The Site was remediated in accordance with the ROD dated January 2005, the April 2008 ESD, and the May 2008 Remedial Action Contract Documents.

Prior to remediation, the primary contamiants of concern were volatile organic compounds (VOCs) and inorganics found to exceed the standards, criteria, and guidance (SCGs) values in soil and groundwater.

Soils: An area of LNAPL-contaminated soil with an estimated volume of 900 cu yds was defined at the edge of waste. The most prominent VOC exceedences on the site were ethylbenzene,acetone, benzene, MEK, chlorobenzene, and xylene. Lead and mercury were the principal metals considered to be anthropogenic when compared with background sample concentrations.

Groundwater: Groundwater contamination was limited to three shallow wells located at the edge of waste. Concentrations of VOCs exceeding SCGs were detected in shallow wells of the southern portion of the landfill. These contaminants included ethylbenzene, chlorobenzene, benzene, and xylene.

Adjacent private water supply wells were sampled during the remedial investigation and during the remedial design. There were no site specific contaminants of concern detected in any of the wells sampled.

Soil Vapor: Site soil vapor was sampled during the RI, supplemental RI, and additional site characterization investigation. In 2007 a soil gas investigation was performed to evaluate the potential for vapor intrusion in residential structures to the southeast of the site. The soil gas monitoring included soil gas sample collection from sampling points located to the south and east of the source area, primarily along Peddler Hill Road. Soil

gas sampling results indicated elevated concentrations of trichloroethene, tetrachloroethene, and carbon tetrachloride for samples collected near the source area. The source area has since been removed as part of the remedial action. Other analytes detected appear to be primarily from petroleum products, and are not considered to be vapor migration concerns.

The site management plan (SMP) for the site was approved by the NYSDEC in October 2010. In addition, an Environmental Notice was developed and filed with the Orange County Clerk's Office in June 2011(EN was recorded on 6/3/11 in Liber 13183 at page 646)to address residual contaminated soils remaining at depth that may be excavated from the site during future redevelopment, restricts future use of groundwater at the site, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

The SMP includes the following institutional and engineering controls: (a) a plan for long-term groundwater monitoring; (b) maintenance of the existing cover; (c) a plan to manage any development of the landfill that would result in excavation into the existing cover and/or waste; (d) an exclusion against future residential or restricted residential uses; and (e) a prohibition against the use of groundwater at the site as a source of potable or process water without necessary water quality treatment; and an annual submission by the site owner of an Institutional Controls/Engineering Controls (IC/EC) certification for a period to be approved by the DEC, which would certify that the institutional and engineering controls are unchanged and nothing has occurred that would impair the ability of the controls to protect public health or the environment or constitute a violation or failure to comply with any operation and maintenance or the SMP.

Site Health Assessment

Measures are in place to control the potential for coming into contact with subsurface soil and groundwater contamination remaining on-site. Volatile organic compounds in the groundwater or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air via soil vapor intrusion is not a concern. In addition, environmental sampling indicates soil vapor intrusion is not a concern in off-site buildings.

Remedy Description and Cost

Remedy Description for Operable Unit 01

The proposed remedy for the landfill is a cap or cover with removal of surface debris and LNAPL removal.

Total Cost $397,000

OU 00 **Site Management Plan Approval: 12/04/2009** **Status: ACT**

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Basis for Classification Change

Hazardous waste disposal at this site was addressed by implementation of the remedy identified for the site by the January 2005 Record of Decision (ROD) and April 2008 Explanation of Significant Differences (ESD). All construction of the components of the site-wide remedy was completed no later than June 2009. The December 2009 Final Engineering Report (FER) confirms that the remedy has been constructed consistent with the requirements in the ROD. The FER is in edocs. Management of contamination remaining at the site, including any required monitoring, is and has been controlled pursuant to the October 2010 Site Management Plan (SMP). A copy of the SMP is in edocs. Institutional controls were required to ensure the protectiveness of the site. The required control, in the form of an environmental notice is in place. A significant threat to public health and the environment no longer exists at the site. The site is properly remediated and requires site management, therefore, it qualifies for Class 4 status on the Registry of Inactive Hazardous Waste disposal sites.

Mayer Landfill Site
Site No. 336027
Blooming Grove, Orange County

Reclass Package List of Figures:

- Contaminant Concentrations Remaining in Groundwater Following Remediation
- Mayer Landfill Site Location Maps
- Environmental Notice Metes and Bounds Description with Map

Contaminant Concentrations Remaining in Groundwater Following Remediation

Table 15
Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW5		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33317-001		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/27/2007		9/26/2007		9/26/2007		9/26/2007		
1,2-Dichlorobenzene	ug/L		U		U		U		U		U		U		U		U		U	3
1,4-Dichlorobenzene	ug/L		U		U		U		U		U		U		U		U		U	3
Acetone	ug/L		U		U		U		U		U		U		U		U		U	
Benzene	ug/L		U		U		U	**290**	J		U		U		U		U		U	1
Carbon disulfide	ug/L		U		U		U		U		U		U		U		U		U	60
Chlorobenzene	ug/L		U		U		U	3.1	J		U		U		U		U		U	5
Ethylbenzene	ug/L		U		U		U	**100**			U		U		U		U		U	5
Isopropylbenzene	ug/L		U		U		U	**8.1**			U		U		U		U		U	5
M&p-Xylenes	ug/L		U		U		U	**100**			U		U		U		U		U	5
Methylene chloride	ug/L		U		U		U	3.6	J		U	3.3	J	2	J		U		U	5
O-Xylene	ug/L		U		U		U	**42**			U		U		U		U		U	5
Toluene	ug/L		U		U		U	**30**		**1.4**	U		U		U		U		U	5

Parameter List EPA Method 8260	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW14D		3-36-027-MW-13		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33317-007		AC33257-004		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/28/2007		9/27/2007		
1,2-Dichlorobenzene	ug/L	2	J		U		U	3	J		U		U		U		U	3
1,4-Dichlorobenzene	ug/L	**7.2**			U		U	**13**			U		U		U		U	3
Acetone	ug/L		U		U	1200			U		U		U		U	18	J	
Benzene	ug/L	**9.7**			U		U	**8.7**			U		U		U		U	1
Carbon disulfide	ug/L		U		U	**10**	J		U		U		U		U		U	60
Chlorobenzene	ug/L	**56**			U		U	**66**			U		U		U		U	5
Ethylbenzene	ug/L		U		U		U		U		U		U		U		U	5
Isopropylbenzene	ug/L	2.6			U		U	4.2			U		U		U		U	5
M&p-Xylenes	ug/L	**25**			U		U	**6.2**			U		U		U		U	5
Methylene chloride	ug/L		U		U		U		U		U		U		U		U	5
O-Xylene	ug/L	1.7			U		U		U		U		U		U		U	5
Toluene	ug/L		U		U		U		**U**		U		U		U		U	**5**

Notes:

All analytical data results provided by Hampton Clarke-Veritech.

Bold values indicate that the analyte was detected above the NYSDEC AWQS.

EPA = Environmental Protection Agency

NYSDEC = New State Department of Environmental Conservation

J = Estimated Value

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

ug/L = mircograms per liter (ppb)

Table 15
Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8260	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		TB		TB 02		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		AC33257-010		AC33317-009		
	Sample Type	Duplicate		MS		MSD		Rinse Blank		Trip Blank		Trip Blank		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		9/26/2007		9/27/2007		
1,1,1-Trichloroethane	ug/L		U	**21**		**20**			U		U		U	5
1,1,2,2-Tetrachloroethane	ug/L		U	**15**		**16**			U		U		U	5
1,1,2-trichloro-1,2,2-trifluoroethane	ug/L		U	**25**		**24**			U		U		U	5
1,1,2-Trichloroethane	ug/L		U	**17**		**15**			U		U		U	1
1,1-Dichloroethane	ug/L		U	**22**		**23**			U		U		U	5
1,1-Dichloroethene	ug/L		U	**20**		**20**			U		U		U	5
1,2,4-Trichlorobenzene	ug/L		U	9.1		8.2			U		U		U	
1,2-Dibromo-3-chloropropane	ug/L		U	13		14			U		U		U	
1,2-Dibromoethane	ug/L		U	16		16			U		U		U	
1,2-Dichlorobenzene	ug/L		U	**14**		**14**			U		U		U	3
1,2-Dichloroethane	ug/L		U	**26**		**25**			U		U		U	0.6
1,2-Dichloropropane	ug/L		U	**21**		**20**			U		U		U	1
1,3-Dichlorobenzene	ug/L		U	**14**		**13**			U		U		U	3
1,4-Dichlorobenzene	ug/L		U	**16**		**15**			U		U		U	3
2-Butanone	ug/L		U	16		17			U		U		U	
2-Hexanone	ug/L		U	12		13			U		U		U	
4-Methyl-2-Pentanone	ug/L		U	17		15			U		U		U	
Acetone	ug/L		U	59		64			U		U		U	
Benzene	ug/L		U	**320**		**320**			U		U		U	1
Bromodichloromethane	ug/L		U	20		20			U		U		U	
Bromoform	ug/L		U	13		13			U		U		U	
Bromomethane	ug/L		U	**22**		**23**			U		U		U	5
Carbon disulfide	ug/L		U	**34**		**33**			U		U		U	60
Carbon tetrachloride	ug/L		U	**19**		**19**			U		U		U	5
Chlorobenzene	ug/L		U	**19**		**18**			U		U		U	5
Chloroethane	ug/L		U	**29**		**29**			U		U		U	5
Chloroform	ug/L		U	22		21			U		U		U	
Chloromethane	ug/L		U	**27**		**25**			U		U		U	5
Cis-1,2-Dichloroethene	ug/L		U	**21**		**20**			U		U		U	5
Cis-1,3-Dichloropropene	ug/L		U	15		14			U		U		U	
Cyclohexane	ug/L		U	24		25			U		U		U	
Dibromochloromethane	ug/L		U	**15**		**14**			U		U		U	5
Dichlorodifluoromethane	ug/L		U	**17**		**17**			U		U		U	5
Ethylbenzene	ug/L		U	**110**		**110**			U		U		U	5
Isopropylbenzene	ug/L		U	**20**		**20**			U		U		U	5
M&p-Xylenes	ug/L		U	**130**		**130**			U		U		U	5
Methyl Acetate	ug/L		U	24		24			U		U		U	
Methylcyclohexane	ug/L		U	17		19			U		U		U	
Methylene chloride	ug/L		U	**22**		**23**			U		U	2.5	J	5
Methyl-t-butyl ether	ug/L		U	**22**		**23**			U		U		U	10
O-Xylene	ug/L		U	**53**		**52**			U		U		U	5
Styrene	ug/L		U	**16**		**16**			U		U		U	5
Tetrachloroethene	ug/L		U	**15**		**15**			U		U		U	5
Toluene	ug/L		U	**47**		**46**			U		U		U	5
Trans-1,2-dichloroethene	ug/L		U	**21**		**22**			U		U		U	5
Trans-1,3-dichloropropene	ug/L		U	15		14			U		U		U	
Trichloroethene	ug/L		U	**17**		**17**			U		U		U	5
Trichlorofluoromethane	ug/L		U	**28**		**24**			U		U		U	5
Vinyl chloride	ug/L		U	**25**		**26**			U		U		U	2

Notes:
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NYSDEC = New State Department of Environmental Conservation
J = Estimated Value
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 16
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
1,1'-Biphenyl	ug/L		U		U		U	**73**	J		U		U		U		U	
2-Methylnaphthalene	ug/L		U		U		U	**370**			U		U		U		U	
Acenaphthene	ug/L		U		U		U	**230**			U		U		U		U	20
Acenaphthylene	ug/L		U		U		U	**19**	J		U		U		U		U	
Anthracene	ug/L		U		U		U	**190**			U		U		U		U	
Benzo[a]Anthracene	ug/L		U		U		U	**210**			U		U		U		U	
Benzo[a]Pyrene	ug/L		U		U		U	**170**			U		U		U		U	ND
Benzo[b]Fluoranthene	ug/L		U		U		U	**200**			U		U		U		U	
Benzo[g,h,i]Perylene	ug/L		U		U		U	**85**	J		U		U		U		U	
Benzo[k]Fluoranthene	ug/L		U		U		U	**81**	J		U		U		U		U	
bis(2-Ethylhexyl)phthalate	ug/L		U		U		U			**33**	U		U		U		U	5
Carbazole	ug/L		U		U		U	**32**	J		U		U		U		U	
Chrysene	ug/L		U		U		U	**170**			U		U		U		U	
Dibenzo[a,h]Anthracene	ug/L		U		U		U	**18**	J		U		U		U		U	
Dibenzofuran	ug/L		U		U		U	**140**			U		U		U		U	
DI-n-octylphthalate	ug/L		U		U		U			**5.2**	J		U		U		U	
Fluoranthene	ug/L		U		U		U	**690**			U		U		U		U	
Fluorene	ug/L		U		U		U	**250**			U		U		U		U	
Indeno[1,2,3-cd]Pyrene	ug/L		U		U		U	**69**	J		U		U		U		U	
Naphthalene	ug/L		U		U		U	**1100**			U		U		U		U	
Phenanthrene	ug/L		U		U		U	**1100**			U		U		U		U	
Pyrene	ug/L		U		U		U	**700**			U		U		U		U	

Parameter List EPA Method 8270	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW-13		3-36-027-MW14D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33257-004		AC33317-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/27/2007		9/28/2007		
2,4-Dimethylphenol	ug/L		U		U	**17**	J		U		U		U		U		U	1
bis(2-Ethylhexyl)phthalate	ug/L	**11**	J		U		U		U		U		U		U		U	5
Butylbenzylphthalate	ug/L		U		U		U		U		U		U		U		U	
Caprolactam	ug/L		U		U		U	**3.1**	J		U		U		U	**2**	J	
Naphthalene	ug/L	**17**			U		U	**6.7**	J		U		U		U		U	
Phenol	ug/L		U		U	**190**			U		U		U		U		U	1

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)

Table 16
Summary of Detected Semi-Volatile Organic Compounds (SVOCs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 8270	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
1,1'-Biphenyl	ug/L			260	J	290	J			
2-Methylnaphthalene	ug/L			1200		1300				
Acenaphthene	ug/L			1000		1000				20
Acenaphthylene	ug/L			130	J	130	J			
Anthracene	ug/L			1100		1200				
Benzo[a]Anthracene	ug/L			1300		1400				
Benzo[a]Pyrene	ug/L			1100		1100				ND
Benzo[b]Fluoranthene	ug/L			1300		1400				
Benzo[g,h,i]Perylene	ug/L			590		640				
Benzo[k]Fluoranthene	ug/L			510	J	450	J			
Chrysene	ug/L			990		1000				
Dibenzo[a,h]Anthracene	ug/L			150	J	140	J			
Dibenzofuran	ug/L			620		630				
Fluoranthene	ug/L			4000		4100				
Fluorene	ug/L			1200		1300				
Indeno[1,2,3-cd]Pyrene	ug/L			470	J	550				
Naphthalene	ug/L			1300		1400				
Phenanthrene	ug/L			5800		6000				
Pyrene	ug/L			4300		4500				

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 17
Summary of Detected Metals In Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW5		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33317-001		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/27/2007		9/26/2007		9/26/2007		9/26/2007		
Aluminum	ug/L		U		U		U		U	430		180000		420			U	180		
Arsenic	ug/L		U		U		U		U		U	**85**			U		U		U	25
Barium	ug/L		U		U	**50**		**85**			U	**1100**			U		U		U	1000
Beryllium	ug/L		U		U		U		U		U	**12**			U		U		U	11*
Cadmium	ug/L		U		U		U		U		U	3.8			U		U		U	5
Calcium	ug/L	21000	J	38000		52000		79000		25000		160000		79000		72000	J	76000	J	
Chromium	ug/L		U		U		U		U		U	**300**			U		U		U	50
Cobalt	ug/L		U		U		U		U		U	180			U		U		U	
Copper	ug/L		U		U		U		U		U	**850**			U		U		U	200
Iron	ug/L		U		U	**610**		**43000**			U	**340000**		650		420			U	300
Lead	ug/L		U		U		U		U		U	**320**			U		U		U	25
Magnesium	ug/L	**3400**	U	**10000**		15000		13000		15000		75000		6500		13000		12000		
Manganese	ug/L		U	**61**		**810**		**1200**		89		**21000**			U	**1400**	J	**4300**	J	300
Nickel	ug/L		U		U		U		U		U	**440**			U		U		U	100
Potassium	ug/L		U		U		U	11000		5000		14000			U		U		U	
Sodium	ug/L		U	**13000**		**15000**		**30000**		12000		10000			U	9600		12000		20000
Vanadium	ug/L		U		U		U		U		U	230			U		U		U	
Zinc	ug/L		U	**70**			U		U		U	1300			U		U		U	

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW12		3-36-027-MW-13		3-36-027-MW14D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-005		AC33257-004		AC33317-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/27/2007		9/27/2007		9/28/2007		
Aluminum	ug/L		U		U		U		U	490		600		7200		450		
Barium	ug/L	200		250		190		230			U	55		53		100		1000
Calcium	ug/L	99000	J	91000	J	13000		93000		4600	J	170000		66000		27000		
Iron	ug/L	**44000**		**6900**			U	**52000**		**660**		**18000**		**13000**		**870**		300
Lead	ug/L	15			U		U	4.7			U		U		U		U	25
Magnesium	ug/L	27000		11000			U	22000				37000		9300		4500		
Manganese	ug/L	**340**	J	**340**	J		U	**450**				**4000**		**320**		120		300
Mercury	ug/L		U		U		U		U		U		U		U		U	0.7
Nickel	ug/L		U		U	**220**			U		U		U		U		U	100
Potassium	ug/L	44000		6400		27000		33000			U		U		U		U	
Sodium	ug/L	**64000**		**24000**		**150000**		**71000**				5200				**62000**		20000

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)

Table 17
Summary of Detected Metals In Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 6010/7470	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aluminum	ug/L		U	4500		4700			U	
Antimony	ug/L		U	**430**		**460**			U	3
Arsenic	ug/L		U	**440**		**460**			U	25
Barium	ug/L		U	540		590			U	1000
Beryllium	ug/L		U	**440**		**450**			U	11*
Cadmium	ug/L		U	**440**		**460**			U	5
Calcium	ug/L	79000	J	130000		140000			U	
Chromium	ug/L		U	**440**		**460**			U	50
Cobalt	ug/L		U	440		460			U	
Copper	ug/L		U	**470**		**490**			U	200
Iron	ug/L		U	**50000**		**75000**			U	300
Lead	ug/L		U	**440**		**460**			U	25
Magnesium	ug/L	12000		58000		62000			U	
Manganese	ug/L	**4500**	J	**1800**		**1600**			U	300
Mercury	ug/L		U	**9.7**		**11**			U	0.7
Nickel	ug/L		U	**450**		**470**			U	100
Potassium	ug/L		U	58000		63000			U	
Selenium	ug/L		U	**450**		**480**			U	10
Silver	ug/L		U	**92**		**97**			U	50
Sodium	ug/L	11000		**79000**		**88000**			U	20000
Thallium	ug/L		U	430		440			U	
Vanadium	ug/L		U	440		460			U	
Zinc	ug/L		U	450		480			U	

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 18
Summary of Detected Polychlorinated Biphenyls (PCBs) in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 608	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
Aroclor-1016	ug/L		U		U		U		U		U		U		UJ		U	5
Aroclor-1260	ug/L		U		U		U		U		U		U		UJ		U	5

Parameter List EPA Method 608	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		3-36-027-MW14D		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		AC33317-007		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/28/2007		
Aroclor-1016	ug/L		U		U		U		U		U		U		U	5
Aroclor-1260	ug/L		U		U		U		U		U		U		U	5

Parameter List EPA Method 608	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aroclor-1016	ug/L		U	**12**		**12**			U	5
Aroclor-1260	ug/L		U	**11**		**12**			U	5

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

Table 19
Summary of Detected Pesticides in Groundwater Samples Collected September 2007
Mayer Landfill (NYSDEC Site No. 3-36-027)
Blooming Grove, New York

Parameter List EPA Method 608	Sample ID	3-36-027-MW-1		3-36-027-MW2		3-36-027-MW3		3-36-027-MW-04		3-36-027-MW4D		3-36-027-MW-6		3-36-027-MW-7		3-36-027-MW-7D		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-009		AC33317-002		AC33317-004		AC33257-001		AC33317-006		AC33257-005		AC33257-006		AC33257-007		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/26/2007		9/28/2007		9/26/2007		9/26/2007		9/26/2007		
p,p'-DDT	ug/L	**0.027**														**0.023**		0.2

Parameter List EPA Method 608	Sample ID	3-36-027-MW-8		3-36-027-MW-9		3-36-027-MW-9D		3-36-027-MW10		3-36-027-MW-11		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-012		AC33257-013		AC33257-014		AC33317-003		AC33257-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/27/2007		9/27/2007		9/27/2007		9/27/2007		9/26/2007		
p,p'-DDT	ug/L	0.026			U		U		U	0.02		0.2

Parameter List EPA Method 608	Sample ID	3-36-027-DUP01		3-36-027-MW-04MS		3-36-027-MW-04MSD		RINSE BLANK		NYSDEC Ambient Water Quality Standard (ppb)
	Lab ID	AC33257-011		AC33257-002		AC33257-003		AC33317-008		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	9/26/2007		9/26/2007		9/26/2007		9/28/2007		
Aldrin	ug/L		U	**0.93**		**0.85**			U	ND
Alpha-BHC	ug/L		U	0.89		0.8			U	
beta-BHC	ug/L		U	1		0.85			U	
Chlordane	ug/L									0.05
delta-BHC	ug/L		U	0.93		0.8			U	
Dieldrin	ug/L		U	**1.1**		**0.99**			U	0.004
Endosulfan I	ug/L		U	1.1		1			U	
Endosulfan II	ug/L		U	1.4		1.1			U	
Endosulfan Sulfate	ug/L		U	1.2		1.1			U	
Endrin	ug/L		U	**1.1**		**1**			U	ND
Endrin Aldehyde	ug/L		U	1.1		0.85			U	5
Endrin Ketone	ug/L		U	1.1		1			U	5
Gamma-BHC	ug/L		U	1		0.89			U	
Heptachlor	ug/L		U	**1**		**0.99**			U	0.04
Heptachlor Epoxide	ug/L		U	**1.1**		**1**			U	0.03
Methoxychlor	ug/L		U	1.2		1.1			U	35
p,p'-DDD	ug/L		U	**1.2**		**1.2**			U	0.3
p,p'-DDE	ug/L		U	**1.2**		**1.2**			U	0.2
p,p'-DDT	ug/L	0.028		**1.1**		0.97			U	0.2

Notes:
All analytical data results provided by Hampton Clarke-Veritech.
Bold values indicate that the analyte was detected above the NYSDEC AWQS.
EPA = Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
ug/L = mircograms per liter (ppb)
3-36-027-DUP01 collected at 3-36-027-MW-07D

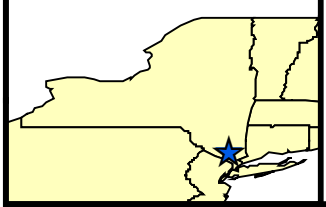
Mayer Landfill Site Location Maps

EA Engineering, Science, and Technology, Inc.

MAYER LANDFILL SITE (3-36-027)
SITE MANAGMENT PLAN
BLOOMING GROVE, NEW YORK

FIGURE 1
SITE LOCATION

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
CJC	MJS	MJS	SAF	AS SHOWN	SEPTEMBER 2010	14474.03	GIS/PROJECTS/ FIGURE1.MXD



Legend

- Boundary
- Excavation Area
- Monitoring Wells
- BR-3 Location of new bedrock well

0 250 500 1,000 Feet

Source: New York State GIS Clearinghouse

EA Engineering, Science, and Technology, Inc.

MAYER LANDFILL SITE (3-36-027)
SITE MANAGEMENT PLAN
BLOOMING GROVE, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
CJC	MES	MJS	SAF	AS SHOWN	SEPTEMBER 2010	14474.03	GIS/PROJECTS/ FIGURE2.MXD

Environmental Notice Metes and Bounds Description with Map

APPENDIX "A" METES AND BOUNDS DESCRIPTION

Mayer Landfill
Prospect Road
Orange County, NY
Tax Map: 44 – 1 – 63.92

APPENDIX "A"

METES AND BOUNDS DESCRIPTION

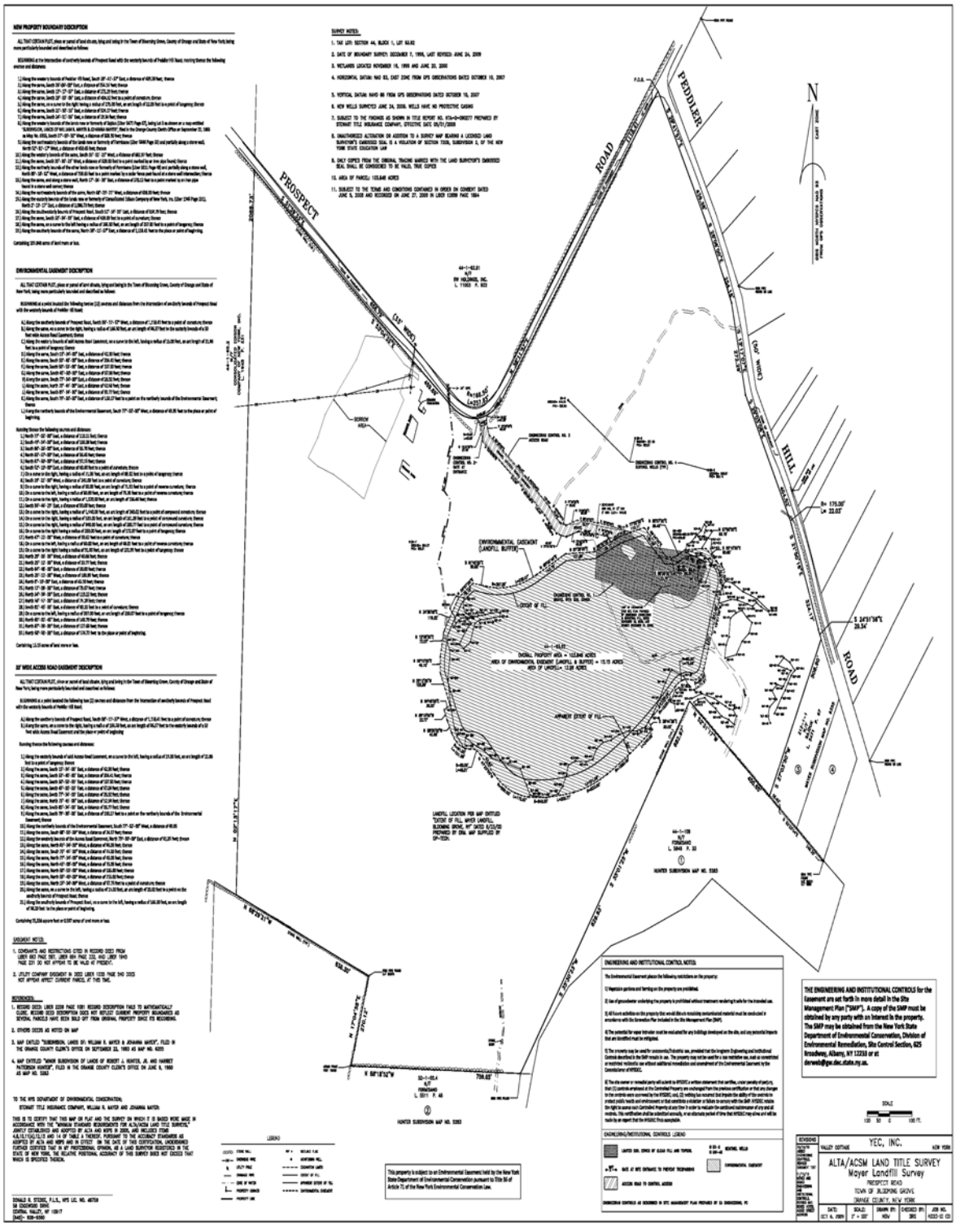
ALL THAT CERTAIN PLOT, piece or parcel of land situate, lying and being in the Town of Blooming Grove, County of Orange and State of New York; being more particularly bounded and described as follows:

BEGINNING AT THE INTERSECTION OF SOUTHERLY BOUNDS OF Prospect Road with the westerly bounds of Peddler Hill road; running thence the following courses and distances:

1) Along the westerly bounds of Peddler Hill Road, South 29°- 41'- 57" East, a distance of 439.38 feet; thence
2) Along the same, South 26°- 06'- 00" East, a distance of 254.16 feet; thence
3) Along the same, South 13°- 17'- 07" East, a distance of 272.29 feet; thence
4) Along the same, South 29°- 03'- 06" East, a distance of 404.52 feet to a point of curvature; thence
5) Along the same, on a curve to the right having a radius of 175.00 feet, an arc length of 22.03 feet to a point of tangency; thence
6) Along the same, South 21°- 50'- 16" East, a distance of 324.17 feet; thence
7) Along the same, South 24°- 51'- 56" East, a distance of 29.34 feet; thence
8) Along the westerly bounds of the lands now or formerly of Sajduk (Liber 5471 Page 67), being Lot 3 as shown on a map entitled "SUBDIVISION , LANDS OF WILLIAM R. MAYER & JOHANNA MAYER," filed in the Orange County Clerk's Office on September 22, 1983 as Map No. 6355, South 27°- 03'- 50" West, a distance of 508.90 feet; thence
9) Along the northeasterly bounds of the lands now or formerly of Formisano (Liber 5846 page 33) and partially along a stone wall, North 52°- 31'- 17" West, a distance of 450.65 feet; thence
10) Along the westerly bounds of the same, South 35°- 01'- 25" West, a distance of 682.97 feet; thence
11) Along the same, South 35°- 30'- 23" West, a distance of 629.93 feet to a point marked by an iron pipe found; thence
12) Along the northerly bounds of the other lands now or formerly of Formisano (Liber 5511 Page 48) and partially along a stone wall, North 88°- 18'- 52" West, a distance of 759.65 feet to a point marked by a cedar fence post found at a stone wall intersection; thence
13) Along the same, and along a stone wall, North 17°- 04'- 38" East, a distance of 270.12 feet to a point marked by an iron pipe found in a stone wall corner; thence
14) Along the northeasterly bounds of the same, North 68°- 29'- 21" West, a distance of 638.30 feet; thence
15) Along the easterly bounds of the lands now or formerly of Consolidated Edison Company of New York, Inc. (Liber 1945 Page 231), North 2°- 13'- 17" East, a distance of 2,086.73 feet; thence
16) Along the southwesterly bounds of Prospect Road, South 51°- 59'- 33" East, a distance of 658.79 feet; thence
17) Along the same, South 53°- 04'- 33" East, a distance of 459.69 feet to a point of curvature; thence
18) Along the same, on a curve to the left having a radius of 166.50 feet, an arc length of 257.83 feet to a point of tangency; thence
19) Along the southerly bounds of the same, North 38°- 11'- 57" East, a distance of 1,118.41 feet to the place or point of beginning.

Containing 103.848 acres of land more or less.

APPENDIX "B" SURVEY MAP



NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

July 19, 2011

Mr. Michael Cruden
Remedial Bureau E
Division of Environmental Remediation
NYS Dept. of Environmental Conservation
625 Broadway – 11th Floor
Albany, NY 12233-7014

Re: Classification Package
Mayer Landfill
Site # 336027
Blooming Grove (T), Orange County

Dear Mr. Cruden:

Staff have reviewed the Classification Package for the Mayer Landfill site located in Blooming Grove, Orange County. Based on that review, I understand the site is an inactive landfill that received residential, industrial, commercial, agricultural, and demolition waste. The remedy for the site included the excavation and off-site disposal of approximately 7,500 tons of nonhazardous solid waste consisting primarily of LNAPL-contaminated soils. Excavations were backfilled with clean soil. Five sentinel groundwater monitoring wells were installed for long-term monitoring between the site and the surrounding residential areas.

In addition, a Site Management Plan (SMP) has been implemented and enforced via an environmental notice for long-term management and monitoring of residual contamination remaining on-site. The SMP requires: (a) a plan for long-term groundwater monitoring; (b) maintenance of the existing cover; (c) a plan to manage any development of the landfill that would result in excavation into the existing cover and/or waste; (d) an exclusion against future residential or restricted residential uses; and (e) a prohibition against the use of groundwater at the site as a source of potable or process water without necessary water quality treatment.

Based on this information, I concur with the proposal to reclassify the Mayer Landfill site from a Class 2 to a Class 4. If you have any questions concerning these issues, please contact me at (518) 402-7880.

Sincerely,

Steven M. Bates, Acting Director
Bureau of Environmental Exposure Investigation

ec: A. Salame-Alfie, Ph.D.
K. Anders, Ph.D./C. Bethoney/FILE
K. Kulow - ODO
B. Devine - MARO
M. Schleifer - OCHD
G. Burke/D. Chiusano - NYSDEC Central
K. Lewandowski - NYSDEC Central
E. Moore - NYDEC Region3

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway, Albany, NY 12233-7020
Phone: (518) 402-9553 • Fax: (518) 402-9547
Website: www.dec.ny.gov

Joe Martens
Commissioner

July 22, 2011

Mr. William R. Mayer
41 West 71st Street
New York, NY 10023

Ms. Johanna Mayer
54 Valencia Street
Halfmoon Bay, CA 94019

Dear Mr. Mayer and Ms. Mayer:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), the New York State Department of Environmental Conservation (Department) must maintain a Registry of all inactive disposal sites suspected or known to contain hazardous waste. The ECL also mandates that this Department notify the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites as to changes in site classification.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of change in the classification of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 336027
Site Name: Mayer Landfill
Site Address: Prospect & Peddler Hill Roads, Blooming Grove, 10914, Orange County

Classification change from Class 2 to Class 4

The reason for the change is as follows:

The December 2009 Final Engineering Report confirmed that the remedy implemented was completed in conformity with the January 2005 Record of Decision. The remedial construction activity has been successful in removing the threat to public health and the environment. The reduced contamination at the site will be controlled and monitored consistent with the October 2010 Site Management Plan. The institutional control of an environmental notice is also in place.

INTERNATIONAL YEAR OF FORESTS · 2011

Enclosed is a copy of the Department's Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry. An explanation of the site classifications is available at http://www.dec.ny.gov/chemical/8663.html. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition.

Such petition may be addressed to:

Honorable Joseph J. Martens
Commissioner
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-1010

For additional information, please contact Mr. David Chiusano, the project manager at 518-402-9814 or djchiusa@gw.dec.state.ny.us .

Sincerely,

Kelly A. Lewandowski, P.E.
Chief
Site Control Section

KAL/WB/ss
Enclosures

ec: D. Desnoyers
D. Weigel
A. English
K. Lewandowski

bec: w/Enc.
S. Bates, NYSDOH
M. Ryan, Director, Remedial Bureau C
J. Parker, Regional Attorney, Region 3
A. Ciesluk, Regional Permit Administrator, Region 3
E. Moore, RHWRE, Region 3
M. Schleifer, Orange Co. DOH
D. Church, Orange Co. Water Authority
D. Chiusano, Project Manager
W. Bayer, Site Control Section

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Inactive Hazardous Waste Disposal Report

Site Code	336027				
Site Name	Mayer Landfill	**Address**	Prospect and Peddler Hill Roads		
Classification	04	**City**	Blooming Grove	**Zip**	10914
Region	3	**County**	Orange	**Town**	Blooming Grove
Latitude	41 degrees, 22 minutes, 15.23 seconds			**Estimated Size**	15.1500
Longitude	-74 degrees, 12 minutes, 5.38 seconds				
Site Type		**Disposal Area**	Landfill		

Site Description

Location: The Mayer Landfill site is an inactive landfill approximately 15 acres in size located in rural Orange County on Prospect Road near the intersection of Peddlar Hill Road. The site is bounded by Peddler Hill Road to the north, private property to the south, private property to the east, and Prospect Road and a utility right-of-way to the west.

Site Features: The site is covered by grasses and low brush and surrounded by hardwood forests, with intermittent streams along the western and southern borders.

Current Zoning/Use(s): The site is currently inactive, used for a utility right-of-way and is zoned for residential use. The surrounding area is either undeveloped parcels or homes.

Historical Use(s): The landfill operation began at the site in 1940 as an open-face dump, with periodic burning of refuse. Residential, commercial, industrial, demolition, and agricultural waste were allegedly disposed of at the landfill. Part of the landfill was designated as a public dump in 1956.

The Orange County Department of Health (OCDOH)
cited the landfill for mismanagement and violations many times in the early-1970s. The landfill ceased operations in April 1975 due to failure to comply with state and county regulations.

In 1975, the OCDOH conducted an initial investigation of surface water at the landfill.
Analytical results showed elevated levels of zinc in a wet area to the south of the landfill.

The NYSDEC first listed the site on the NYS Registry of Inactive Hazardous Waste Disposal
Sites in 1985. A Phase I Investigation was completed in 1987, and a Phase II Investigation was completed in June 1991. A State-funded RI/FS began in March 1999 and the Record of Decision (ROD) was completed in January 2005.

The ROD required the excavation of a small amount of contaminated soil identified at the edge of waste on the north side of the landfill, and an environmental easement to protect the existing cover, prevent groundwater use and implement a long-term groundwater monitoring program.

In April 2008 the ROD remedy was changed by way of an Explanation of Significant Differences (ESD) issued by the DEC. The change to the remedy included the excavation and off-site disposal of an additional volume of contaminated soil than was originally estimated in the ROD.

Remedial design investigations were completed in July 2007. Environmental cleanup work at the site began in September 2008 and was completed in June 2009. The following major cleanup activities were completed at the site:

- Approximately 7,500 tons of non-hazardous, solid waste consisting primarily of LNAPL contaminated soils were removed from the site and disposed of at an off-site, state permitted facility;

- Groundwater generated from excavation activities was collected and treated onsite. Samples of the collected water were regularly obtained prior to onsite discharge and analyzed for site specific contaminants of concern to ensure compliance with DEC discharge standards;

- Excavated areas were backfilled, re-graded with off-site, clean soil to promote proper site drainage, and seeded; and

- Installation of five (5) sentinel groundwater monitoring wells for long term monitoring of groundwater quality between the site and the surrounding residential areas.

Since the remedy results in contamination above unrestricted use levels remaining at the site, a Site Management Plan (SMP) has been developed. An Environmental Notice on the entire parcel was filed with the Orange County Clerk's Office in Spring 2011.

Site Geology and Hydrogeology: Native overburden material at the site consists of discontinuous layers of sand, silt, and clay and a highly-compacted lodgment till. The overburden varies in depth from 14 feet to 60 feet. Bedrock beneath the till is black-gray shale with abundant calcite (calcium carbonate) veins with traces of pyrite (iron sulfide). The top few feet of the shale are highly weathered. Maximum depth of waste exceeds 18 feet below ground surface (bgs).

Depth to shallow groundwater varies across the site and seasonally from 6 feet bgs to 20 feet bgs south of the landfill. Shallow groundwater appears to flow radially from the center of the landfill to the north, west, and south.

Depth to bedrock groundwater varies from about 6 ft bgs at the north side of the site to 27 feet bgs on the northeast edge of the landfill.

Contaminants of Concern (Including Materials Disposed)	Quantity	
OU 01		
ACETONE	0.00	
XYLENE	0.00	
EPOXIDES AND PHTHALATE ESTERS	0.00	
PHTHALIC ANHYDRIDES, MALEIC ANHYDRIDES AND	0.00	
PHTHALIC ACID	0.00	
PROPYLENE GLYCOL AND ETHYLENE GLYCOL	0.00	
AMINES (VARIOUS)	0.00	
TOTAL (D001 WASTES)	0.00	
ACETONE		gal
LEAD		gal
ZINC		gal

Analytical Data Available for : Groundwater, Surface Water, Soil, Sediment

Applicable Standards Exceeded for: Groundwater, Surface Water

Site Environmental Assessment

Nature and Extent of Contamination: This site no longer presents a significant threat to the environment. The Site was remediated in accordance with the ROD dated January 2005, the April 2008 ESD, and the May 2008 Remedial Action Contract Documents.

Prior to remediation, the primary contamiants of concern were volatile organic compounds (VOCs) and inorganics found to exceed the standards, criteria, and guidance (SCGs) values in soil and groundwater.

Soils: An area of LNAPL-contaminated soil with an estimated volume of 900 cu yds was defined at the edge of waste. The most prominent VOC exceedences on the site were ethylbenzene,acetone, benzene, MEK, chlorobenzene, and xylene. Lead and mercury were the principal metals considered to be anthropogenic when compared with background sample concentrations.

Groundwater: Groundwater contamination was limited to three shallow wells located at the edge of waste. Concentrations of VOCs exceeding SCGs were detected in shallow wells of the southern portion of the landfill. These contaminants included ethylbenzene, chlorobenzene, benzene, and xylene.

Adjacent private water supply wells were sampled during the remedial investigation and during the remedial design. There were no site specific contaminants of concern detected in any of the wells sampled.

Soil Vapor: Site soil vapor was sampled during the RI, supplemental RI, and additional site characterization investigation. In 2007 a soil gas investigation was performed to evaluate the potential for vapor intrusion in residential structures to the southeast of the site. The soil gas monitoring included soil gas sample collection from sampling points located to the south and east of the source area, primarily along Peddler Hill Road. Soil gas sampling results indicated elevated concentrations of trichloroethene, tetrachloroethene, and carbon tetrachloride for samples collected near the source area. The source area has since been removed as part of the remedial action. Other analytes detected appear to be primarily from petroleum products, and are not considered to be vapor migration concerns.

The site management plan (SMP) for the site was approved by the NYSDEC in October 2010. In addition, an Environmental Notice was developed and filed with the Orange County Clerk's Office in June 2011(EN was recorded on 6/3/11 in Liber 13183 at page 646)to address residual contaminated soils remaining at depth that may be excavated from the site during future redevelopment, restricts future use of groundwater at the site, requires maintenance of the engineering controls, prohibits current and future property owners from activities that would affect the remedy performance, and is transferable with a property transaction.

The SMP includes the following institutional and engineering controls: (a) a plan for long-term groundwater monitoring; (b) maintenance of the existing cover; (c) a plan to manage any development of the landfill that would result in excavation into the existing cover and/or waste; (d) an exclusion against future residential or restricted residential uses; and (e) a prohibition against the use of groundwater at the site as a source of potable or process water without necessary water quality treatment; and an annual submission by the site owner of an Institutional Controls/Engineering Controls (IC/EC) certification for a period to be approved by the DEC, which would certify that the institutional and engineering controls are unchanged and nothing has occurred that would impair the ability of the controls to protect public health or the environment or constitute a violation or failure to comply with any operation and maintenance or the SMP.

Site Health Assessment

Measures are in place to control the potential for coming into contact with subsurface soil and groundwater contamination remaining on-site. Volatile organic compounds in the groundwater or soil may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Because there is no on-site building, inhalation of site contaminants in indoor air via soil vapor intrusion is not a concern. In addition, environmental sampling indicates soil vapor intrusion is not a concern in off-site buildings.

New York State Department of Environmental Conservation

PUBLIC NOTICE | **State Superfund Program**

Receive Site Information by Email. See "For More Information" to Learn How.

Site Name: Mayer Landfill **August 23, 2011**
Site No. 336027 **Tax Map No.** 44-1-63.9
Site Location: Prospect & Peddler Hill Roads, Blooming Grove, 10914, Rockland County

Inactive Hazardous Waste Disposal Site Classification Notice

The Inactive Hazardous Waste Disposal Site Program (the State Superfund Program) is the State's program for identifying, investigating, and cleaning up sites where the disposal of hazardous waste may present a threat to public health and/or the environment. The New York State Department of Environmental Conservation (Department) maintains a list of these sites in the Registry of Inactive Hazardous Waste Disposal Sites (the "Registry"). The site identified above, and located on a map on the reverse side of this page, was recently reclassed to a Class 4 site that no longer presents a significant threat to public health and/or the environment for the following reason(s):

> The December 2009 Final Engineering Report confirmed that the remedy implemented was completed in conformity with the January 2005 Record of Decision. The remedial construction activity has been successful in removing the threat to public health and the environment. The reduced contamination at the site will be controlled and monitored consistent with the October 2010 Site Management Plan. The institutional control of an environmental notice is also in place.

If you own property adjacent to this site and are renting or leasing your property to someone else, please share this information with them. If you no longer wish to be on the contact list for this site or otherwise need to correct our records, please contact the Department's Project Manager listed below.

FOR MORE INFORMATION

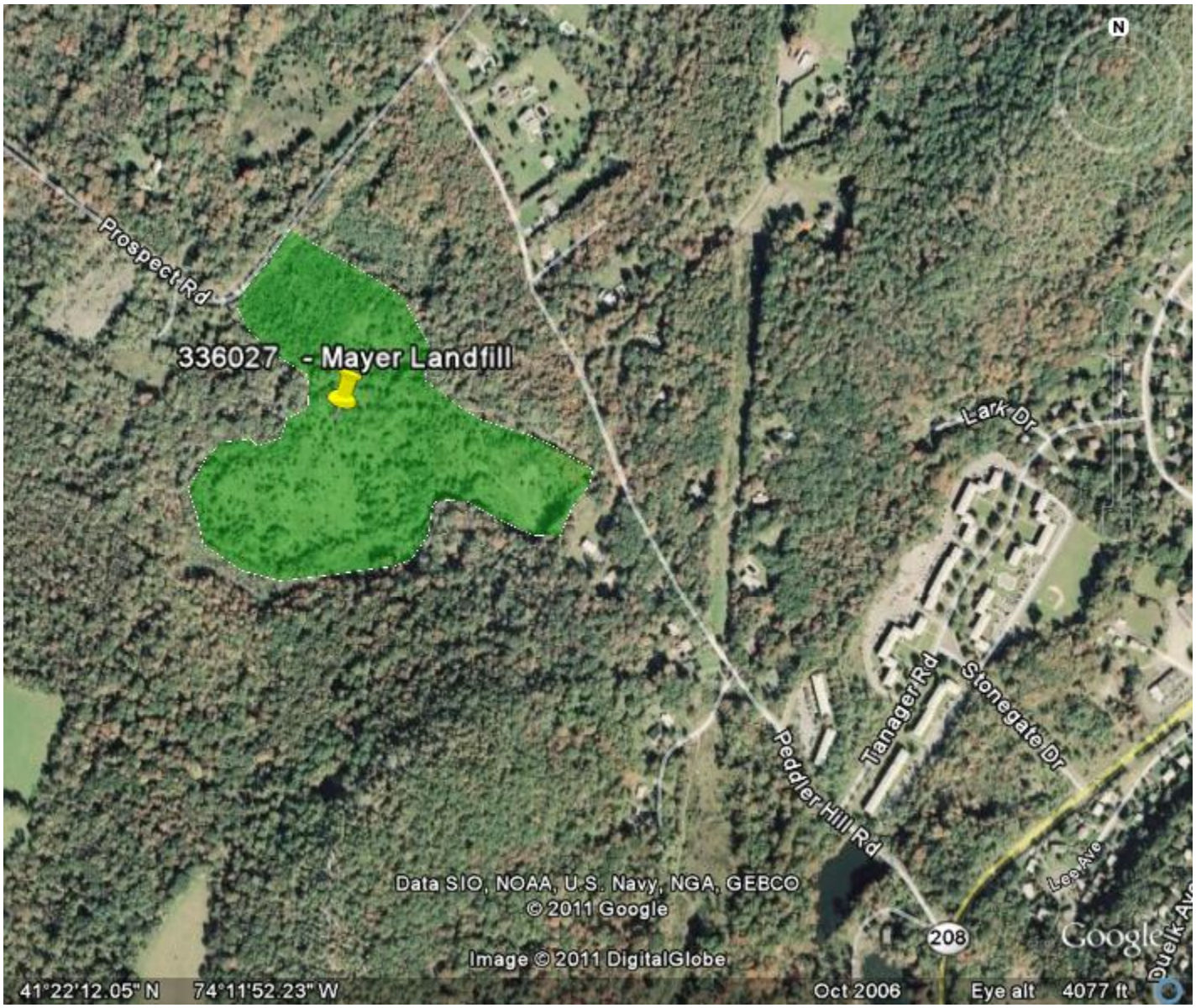
Additional information about this site can be found using the Department's "Environmental Site Remediation Database Search" engine which is located on the internet at:
www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

Comments and questions are always welcome and should be directed as follows:

Project Related Questions
Mr. David Chiusano, Project Manager
NYS Department of Env. Conservation
Div. of Env. Remediation, Remedial Bureau E
625 Broadway, 12th Fl., Albany, NY 12233-7017
518-402-9795, djchiusa@gw.dec.state.ny.us

The Department is sending you this notice in accordance with Environmental Conservation Law Article 27, Title 13 and its companion regulation (6 NYCRR 375-2.7(b)(6)(ii)) which requires the Department to notify all parties on the contact list for this site of this recent action.

Approximate Site Location
Mayer Landfill
336027
Prospect & Peddler Hill Roads, Blooming Grove, 10914, Rockland County



Receive Site Updates by Email

Have site information such as this public notice sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: www.dec.ny.gov/chemical/61092.html . It's *quick*, it's *free*, and it will help keep you *better informed*.

As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

You may continue also to receive paper copies of site information for a time after you sign up with a county listserv, until the transition to electronic distribution is complete.

Note: Please disregard if you received this notice by way of a county email listserv.

Electronic copies:

D. Desnoyers, Director, Division of Environmental Remediation
A. English, Director, Bureau of Technical Support
K. Lewandowski, Chief, Site Control Section
M. Ryan, Director, Remedial Bureau C
M. Cruden, Director, Remedial Bureau E
E. Moore, RHWRE, Region 3
A. Ciesluk, Regional Permit Administrator, Region 3
M. Knipfing, Regional CPS, Region 3
S. Bates, NYSDOH
L. Ennist, DER, Bureau of Program Management
D. Chiusano, Project Manager
W. Bayer, Site Control Section

Mayer Landfill
336027
52 Labels
Wayne Bayer

Current Occupant
255 Prospect Rd.
Monroe, NY 10950

Current Occupant
257 Prospect Rd.
Monroe, NY 10950

Current Occupant
259 Prospect Rd.
Monroe, NY 10950

Current Occupant
267 Prospect Rd.
Monroe, NY 10950

Current Occupant
269 Prospect Rd.
Monroe, NY 10950

Current Occupant
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Monroe, NY 10950

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Monroe, NY 10950

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Monroe, NY 10950

Current Occupant
72 Peddler Hill Rd.
Monroe, NY 10950

Current Occupant
269 Prospect Rd.
Monroe, NY 10950

Current Occupant
66 Peddler Hill Rd.
Monroe, NY 10950

Current Occupant
288 Prospect Rd.
Monroe, NY 10950

Johanna Mayer
54 Valencia St.
Half Moon Cay, CA 94019

Current Occupant
261 Prospect Rd.
Monroe, NY 10950

Current Occupant
273 Prospect Rd.
Monroe, NY 10950

Donna L. Benson
County Clerk
Orange County Government Center
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Goshen, NY 10918

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Town Supervisor
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6 Horton Road
Blooming Grove, NY 10914

Barbara Decker
Town Clerk
Town of Blooming Grove
6 Horton Rd.
Blooming Grove, NY 10914

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William Going
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