CARLIN • SIMPSON & ASSOCIATES

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1 June 2012

Midora/Glenmark Partners, LLC
146 Main Street
Tuckahoe, New York 10707

Attn: Mr. Glen Vetromile

Re: Preliminary Report on Subsurface Soil and Foundation Investigation
The Glenmark
Main Street
Tuckahoe, NY (12-14)

Dear Mr. Vetromile:

We understand that the planned construction will consist of two new buildings. Building 1 will be a multi-story structure with surface parking. Building 2 will be a two to six story structure with a mixed garage/residential capacity of various combinations:

- Two story garage on grade with roof top terrace
- Four story residential on grade
- Two story residential over two story garage on grade
- Four story residential over two story garage on grade

The site improvements include retaining wall structures, new utilities and paves parking lots and driveways.

The following is a summary of the preliminary geotechnical design recommendations for the referenced project. During this study, thirty (30) test borings were performed at the subject site at the locations shown on the attached Boring Location Plan. Borings B-1 through B-8, B-27 and B-28 were performed for Building 1. The remaining borings were performed for Building 2. The boring data is summarized in the following table.

Table 1 – Summary of Boring Data

Boring No.	Approximate Ground Surface Elevation (Feet)	Observed Depth to Groundwater (Elevation)	Approximate Depth to Bottom of Existing Fill (Elevation)	Approximate Depth to Bottom of Organic Silt (Elevation)
B-1	+101.0	7’6” (+93.5)	7’6” (+93.5)	NE
B-2	+104.0	8’6” (+95.5)	5’0” (+99.0)	8’0” (+96.0)[1]
B-3	+101.0	8’6” (+92.5)	2’0” (+99.0)	NE
B-4	+101.0	9’0” (+92.0)	5’0” (+96.0)	NE
B-5	+101.0	8’0” (+93.0)	2’0” (+99.0)	NE
B-6	+101.5	10’0” (+91.5)	5’0” (+96.5)	12’0” (+89.5)[2]
B-7	+101.5	6’0” (+95.5)	9’0” (+92.5)	11’6” (+90.0)[3]
B-8	+101.0	6’6” (+94.5)	1’6” (+99.5)	NE
B-9	+106.0	13’0” (+93.0)	8’0” (+98.0)	11’0” (+95.0)[4]
B-10	+103.0	13’0” (+90.0)	6’0” (+97.0)	12’0” (+91.0)[5]
B-11	+110.0	16’0” (+94.0)	3’0” (+107.0)	NE
B-12	+111.0	16’0” (+95.0)	2’0” (+109.0)	NE
B-13	+113.0	17’0” (+96.0)	NE	NE
B-14	+111.0	17’0” (+94.0)	NE	NE
B-15	+106.5	11’0” (+95.5)	6’6” (+100.0)	NE
B-16	+103.5	9’6” (+94.0)	7’6” (+96.0)	NE
B-17	+104.5	10’0” (+94.5)	5’0” (+99.5)	NE
B-18	+108.0	14’0” (+94.0)	6’0” (+102.0)	NE
B-19	+123.0	NE	14’0” (+109.0)	NE
B-20	+118.0	12’0” (+106.0)	8’0” (+100.0)	NE
B-21	+108.0	15’0” (+93.0)	7’0” (+101.0)	NE
B-22	+124.0	NE	9’0” (+115.0)	NE
B-23	+111.5	NE	11’6” (+100.0)	NE
B-24	+106.5	10’0” (+96.5)	6’0” (+100.5)	NE
B-25	+113.0	16’0” (+97.0)	NE	NE
B-26	+112.0	18’6” (+93.5)	13’6” (+98.5)	16’0” (+96.0)[6]
B-27	+101.0	7’6” (+93.5)	2’0” (+99.0)	NE
B-28	+101.0	7’6” (+93.5)	2’0” (+99.0)	7’6” (+93.5)[7]
B-29	+107.0	11’6” (+95.5)	7’0” (+100.0)	NE
B-30	+113.0	17’0” (+96.0)	5’0” (+108.0)	NE

Notes:

NE – Not encountered in boring.

1. – B-2, Organic Silt layer 5’0” to 8’0”
2. – B-6, Organic Silt layer 10’0” to 12’0”
3. – B-7, Organic Silt layer 9’0” to 11’6”
4. – B-9, Organic Silt layer 10’0” to 11’0”
5. – B-10, Organic Silt layer 10’0” to 12’0”
6. – B-26, Organic Silt layer 13’6” to 16’0”
7. – B-28, Peat layer 6’0” to 7’6”

SUBSURFACE CONDITIONS

To determine the subsurface soil and groundwater conditions within the planned areas of development, we advanced thirty (30) test borings at the locations shown on the enclosed Boring Location Plan. Upon the completion of boring B-4 and B-24, groundwater monitoring wells were installed in the bore holes. Detailed boring logs have been prepared and are included in this report. Our inspector visually identified the soil samples obtained from the test borings. Selected samples were tested in our laboratory for gradation. The results of the testing are included in this report.

Soil

The soil descriptions shown on the boring logs are based on the Burmister Classification System. In the Burmister Classification System, the soil is divided into three components: Sand (S), Silt ($) and Gravel (G). The major component is indicated in all capital letters, the lesser in lower case letters. The following modifiers indicate the quantity of each lesser component:

Modifier	Quantity
trace (t)	0 - 10%
little (l)	10% - 20%
some (s)	20% - 35%
and (a)	35% - 50%

The subsurface soil conditions encountered in the test borings may be summarized as follows:

1. Asphalt and Concrete - The surface layer in 11 of the 30 borings is asphalt pavement, ranging from 1.5 inches to 3 inches in thickness. Beneath the asphalt in borings B-18 and B-24, respectively is concrete pavement one foot and 6 inches in thickness, respectively.

2. FILL –Sand with Silt and Gravel or Gravel with Sand and Silt - Beneath the asphalt and concrete where present and at the surface in the other borings, except borings B-13, B-14 and B-25 is existing fill comprised of very loose to medium dense brown coarse to fine SAND, trace to some Silt, little to and coarse to fine Gravel or gray coarse to fine GRAVEL and, coarse to fine Sand, trace to little Silt. Debris such as ash, asphalt, brick, concrete, coal, and wood was noted within the fill at several of the boring locations. Where encountered in the borings, the existing fill extends to depths ranging from 1’6” to 14’6” below the existing ground surface.

3. Sand or Sand with Silt and Gravel - Underlying the fill at most of the boring locations are various sand layers comprised of loose to medium dense brown coarse to fine Sand, trace to little Silt, trace to little coarse to fine Gravel.

4. Silt with Sand - Below the Stratum 3 Sand in borings B-6 and B-14 and beneath the fill in boring B-10 is soft to stiff brown SILT some to and, coarse to fine Sand, trace fine Gravel. The sandy silt continues to a depth of 10 feet in b B-6 and B-10 and to a depth of 23'6" in boring B-14.

5. Organic Silt or Peat - Soft to medium stiff organic SILT trace to some, coarse to fine Sand was encountered in borings B-2, B-6, B-7, B-9, B-10, and B-26 extending to depths of 8'0" and 16'0" below the ground surface. Soft brown peat was observed in boring B-28, between the depths of 6'0" and 7'6".

6. Sand, Sand with Gravel, or Sand with Silt and Gravel - Beneath the various layers of fill, Stratum 3 Sand, Stratum 4 silty sand, and Stratum 5 organic silt or peat, where present, is loose to medium dense brown or gray coarse to fine SAND, trace to little Silt, trace to little coarse to fine Gravel.

7. Gravel with Sand - Very dense brown or gray coarse to fine GRAVEL and, coarse to fine Sand, trace Silt was encountered in borings B-10 and B-17 beginning at depths of 52'0" and 20'0", respectively. Boring B-10 was terminated in this stratum at a final depth of 56'6".

8. Weathered Schist - In borings B-17, B-19, B-20, B-22 and B-23 the virgin soils transition into completely or highly weathered schist bedrock. The weathered was encountered at depths ranging from 14'0" to 25'0" below the existing ground surface. "Auger refusal" indicating more competent rock was encountered in boring B-19 at a depth of 20'0" (elevation +103).

Groundwater

- Groundwater was encountered in each of the borings, except B-19, B-22 and B-23, at depths ranging from 6'0" to 18'6" below the existing ground surface. These depths correspond to a water level between about elevation +90.0 feet and elevation +106.0 feet. At most locations, the water level was typically observed between elevations +93.0 feet and +97.0 feet.

- To monitor the fluctuation of groundwater on the site, groundwater monitoring wells were installed at borings B-4 and B-24. On 30 May 2012, the groundwater level at was observed in borings B-4 and B-24 at about elevation + 94.8 feet and +95.8 feet.

- The groundwater conditions are summarized in Table 1.

- Groundwater will be encountered during construction where deep excavations are required to remove the existing fill and organic silt and peat materials. Water seepage may also be encountered within the fill, above restrictive soil layers or above the weathered rock stratum.

- Sump pits and pumps should be used to control the flow of water and to remove the water from the excavations. Where the required excavation will extend more than 2 feet below the groundwater level, a well point or deep well dewatering system may be required to temporarily lower the groundwater level during construction.

Existing Fill, Organic Silt and Peat

- The existing fill and organic materials encountered at this site are not suitable for supporting the new building foundations and floor slabs.

- The existing fill, organic silt and peat observations are summarized in the Table 1 above.

- Loose to medium dense existing fill was encountered in 27 of the 30 borings extending to depths ranging from 1'6" to 14'6" below the existing ground surface. Debris such as ash, asphalt, brick, concrete, coal, and wood was noted within the fill at several of the boring locations.

- Soft to medium stiff organic SILT trace to some, coarse to fine Sand was encountered in borings B-2, B-6, B-7, B-9, B-10, and B-26 extending to depths of 8'0" and 16'0" below the ground surface. Soft brown peat was observed in boring B-28, between the depths of 6'0" and 7'6".

- Supplemental test pits will be required during construction to establish the horizontal and vertical limits of the unsuitable existing fill and organic materials.

Weathered Schist Bedrock

- Weathered schist bedrock was encountered in borings B-17, B-19, B-20, B-22 and B-23. The weathered was encountered at depths ranging from 14'0" to 25'0" below the existing ground surface. "Auger refusal" indicating more competent rock was encountered in boring B-19 at a depth of 20'0" (elevation +103).

- Penetration into the weathered bedrock with excavation equipment will depend of the degree of weathering and fracturing in the rock. Based on our observations, harder rock will likely be encountered in deep cuts in the southeastern portion of the site and the use of hydraulic hammers will be required to excavate the harder, intact bedrock.

Removal of Existing Structures and Utilities from the New Addition Area

- The construction of the new building will require the demolition of the existing building. The structures and associated debris must be completely removed from the new building area. This shall include the complete removal of all foundations, walls, concrete slabs, utilities, pavement, and associated miscellaneous debris within the limits of the demolition and the new building.

- Where the removal of structures, utilities and associated materials extends below the planned addition subgrade elevation, the resulting excavations shall be backfilled with new compacted fill.

Complete Removal of Existing Fill and Organic Materials and Replacement with New Compacted Fill

- In order to prepare the new building areas for construction, the existing fill organic silt and peat layers, where present shall be completely removed from the new building area down to the underlying virgin sandy soil and replaced with new compacted fill. The removal of the existing fill from the new foundation areas shall be performed under the full time inspection of Carlin-Simpson & Associates.

- The excavation shall be backfilled with new compacted fill. New compacted fill shall consist of either the suitable on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20 percent by weight passing a No. 200 sieve. The fill shall be placed in layers not exceeding one foot in loose thickness and each layer compacted to at least 95 percent of its Maximum Modified Dry Density (ASTM D1557). Each layer shall be compacted, tested, and approved prior to placing subsequent layers.

- Based on the boring data, we expect that some of the excavated fill material will be suitable for re-use as new compacted fill, provided that the material is not contaminated with petroleum or other substances, remains relatively dry enough for proper compaction and that any debris or organic materials has been removed prior to its placement.

Preparing Wet or Soft Subgrades

- The excavation to remove the existing fill and organic materials may extend down to or below the groundwater level. In the event that the exposed subgrade within the excavation is wet, stabilizing the subgrade surface will be required in order to backfill the excavation.

- We anticipate that the use of sump pits and pumps for dewatering will only be effective where the groundwater level is within one foot of the planned bottom of the excavation. A well point system, deep well or other method of dewatering will likely be required to locally lower the groundwater level below the excavation elevation. The dewatering system selected must be capable of operating 24 hours a day until construction is above the water table.

- The subgrade should be stabilized with geotextile filter fabric and crushed stone to provide a working platform for the installation of new structural fill. The geotextile filter fabric should consist of Mirafi 500X or equivalent. Approximately eighteen inches of ¾-inch clean crushed stone will be needed on top of the filter fabric layer to provide a firm bearing surface for the placement of new structural fill. A second layer of fabric should be placed over the gravel fill prior to backfilling the excavation with soil fill.

New Building Foundations

- The new foundations may be designed as spread footing type foundations bearing on the virgin soil, weathered rock or on new Engineer-approved compacted fill.

- Net allowable design bearing pressure = 4,000 psf.

- Minimum depth for frost protection = 4 feet.

- New foundation may not be constructed on existing fill or over the organic layers.

Building Settlement

- Building 2 will be a two to six story structure with a mixed garage/residential capacity of various combinations. We have been provided with the following preliminary column and wall loads. The anticipated settlement have been calculated to be as follows:

TABLE 2 – Building 2 Anticipated Settlements

Building Area	Preliminary Loading	Anticipated Settlement
Two Story Garage on Grade with Roof Top Terrace		
Retaining Wall Load	6.7 kips/ft	0.01” – 0.20”
Internal Concrete Garage Wall Load	13.3 kips/ft	> 0.5”
Post Load within the Garage	228 kips	0.75” – 1.0”
Four Story Residential on Grade		
Wall Loads	3.5 to 5.2 kips/ft	0.1” – 0.2”
Masonry Stair and Elevator Tower Loads	2.6 kips/ft	0.13” – 0.15”
Two Story Residential over Two Story Garage on Grade		
Post Load within the Garage	301 kips	0.6” – 1.0”
Four Story Residential over Two Story Garage on Grade		
Retaining Wall Load	8.9 kips/ft	0.01”
Post Load within the Garage	38.7 kips/ft	0.1” – 0.75”
Masonry Stair and Elevator Tower Loads	3.7 kips/ft	0.4”

- The higher settlements will occur at the footings with the higher column loads and where loose virgin sands are present beneath the foundation. Settlement is expected to be negligible for footings bearing on weathered rock.

- Due to the sandy nature of the subsurface soils, we anticipate that the foundation settlements will occur rather quickly as the building dead loads are applied during construction and the various live loads are experienced.

- Building load information has not been provided for the proposed building on the western side of Midland Place. When the building loads are made available, Carlin-Simpson & Associates can evaluate the anticipated settlement.

Foundation Subgrade Improvement for Settlement Control

- Foundation subgrade improvement may be required at some foundation locations for settlement control. Preliminarily, we anticipate an over-excavation of 2 to 3 feet will be required. Once the foundation loads are finalized, Carlin-Simpson & Associates will prepare a foundation excavation schedule which will tabulate the depth of over-excavation at each foundation location required for settlement control.

New Floor Slabs

- The new floor slab may be supported on the weathered rock, engineer-approved virgin soil and new compacted fill. Selective removal and replacement of unsuitable existing fill, organic materials or soft soils will be required.

- The floor slab may be designed as a slab on grade using a Modulus of Subgrade Reaction = 200 pci. A minimum of six (6) inches of ¾-inch crushed stone shall be provided beneath the floor slab for drainage and additional slab support. Where rock is encountered at the floor slab bearing subgrade, a minimum of twelve (12) inches of crushed stone should be provided below the slab for drainage.

Seismic

- The new buildings shall be designed to resist stress produced by lateral forces computed in accordance with the New York State Building Code. The project site can be classified as Site Class D – Stiff Soil Profile.

TABLE 3 – Seismic Design Values

Mapped Spectral Response Acceleration for Short Periods, [Fig 1615 (1)]	S_S=0.358g
Mapped Spectral Response Acceleration at 1-Second Period, [Fig 1615 (2)]	S_{S1}=0.070g
Site Coefficient [Table 1615.1.2 (1)]	F_a=1.514
Site Coefficient [Table 1615.1.2 (2)]	F_v=2.40
Max Considered Earthquake Spectral Response for Short Periods [Eq 16-16]	S_{MS}=0.541g
Max Considered Earthquake Spectral Respond at 1-Second Period [Eq 16-17]	S_{M1}=0.169g
Design Spectral Response Acceleration for Short Periods [Eq 16-18]	S_{DS}=0.361g
Design Spectral Response Acceleration for 1-Second Period [Eq 16-19]	S_{D1}=0.113g

Foundation Wall Design Parameters

- The soil adjacent to the foundation walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and the coefficient of earth pressure at rest (k_o) which is applicable to non-yielding foundation walls.

- For design, the following values may be used:

    - In-place density of soil behind wall = 130 pcf
    - Angle of internal friction (phi) = 30 degrees
    - Coefficient of Earth Pressure at Rest, $k_o = 0.50$
    - Equivalent fluid pressure = 65 psf/ft against the walls
    - Coefficient of Passive Pressure, $k_p = 3.00$
    - Soil/concrete friction factor = 0.45

- Drainage must be provided behind the wall. We recommend that a footing drain be placed behind the foundation wall to prevent water from accumulating against the foundation wall. This drain may consist of a minimum 6-inch diameter rigid wall, perforated PVC pipe surrounded by at least 12 inches of 3/4-inch clean crushed stone. The stone shall be wrapped in a geotextile fabric, Mirafi 140N or equivalent. The foundation drainpipe should be extended to the stormwater collection system.

- Backfill placed adjacent to the foundation walls and above the footing drain shall consist of the suitable on-site sand and gravel soils, clean crushed stone or imported sand and gravel containing less than 10 percent by weight passing a No. 200 sieve. The drainage fill shall be placed in layers not exceeding one foot in thickness.

Underpinning Adjacent Buildings

- A test pit (TP-1) was conducted at the northeastern corner of the building at 42 Midland Place. The bottom of the existing foundation was observed at about elevation +99.5 feet.

- Test pits TP-2 and TP-3 were conducted at the northwestern corner of the western property near the northeastern and southwestern corners of the adjacent building, respectively. The bottom of the existing foundation was observed in test pits TP-2 and TP-3 at about elevations +103.5 feet and +101.8 feet.

- Where the new construction extends below the existing foundations for the adjacent buildings underpinning will be required. Traditional concrete underpinning can be used for this project.

Excavation – Slopes and Slope Protection

- Deep excavations will be required at some locations to remove the existing fill, organic materials and to achieve the lower level. Temporary construction excavations should be conducted in accordance with the most recent OSHA guidelines or applicable federal, state or local codes.

- Based on the test boring data and groundwater conditions, we believe that the site soils would be considered a Type 'C' soil as defined by the OSHA regulations. An evaluation of the site soil deposits will be required by a qualified person at the time of the excavation to determine which OSHA soil classification should be used.

- Temporary support (i.e. sheeting and shoring) should be used for any excavation that cannot be sloped or benched in accordance with the applicable regulations or where necessary to protect adjacent utilities and structures.

- In the event that water is encountered within the excavation, an evaluation of the excavation's stability must be performed. Water seepage or saturated soil conditions encountered within the excavation could destabilize the sides of the excavation. Temporary support would be required to stabilize the excavation.

- Drilled steel pipe piles with timber lagging would be an appropriate temporary excavation support system for the site. For the steel pile and timber lagging system, we expect that the pipe piles will be spaced about 6 to 8 feet apart. As the excavation is made, wood lagging is inserted behind the pipe pile to complete the temporary wall. Depending upon the required depth of the excavation, an anchor, raker or other tieback system may be required to restrain the horizontal force on the wall.

- A New York State licensed professional engineer must design all temporary and permanent support systems.

- The soil adjacent to the temporary support system will exert a horizontal pressure against the system. This pressure is based on the soil density, the coefficient of active earth pressure (k_a), and the depth of the excavation. We estimate the in-situ soil has an in place density of about 130 pcf and an angle of internal friction, $\phi = 32^o$. The active earth pressure coefficient, k_a, is therefore 0.307. In addition, the surcharge loads from adjacent buildings, roadways, construction equipment, or stored materials near the excavation must be incorporated into the design of the temporary support system. Applicable hydrostatic loading must also be considered.

Utilities

- New utilities can be supported by the existing site soils. The bottom of all trenches must be cleaned of loose material and shaped to provide firm support for the pipe. Where existing fill is encountered within the utility excavations, the subgrade at bottom of the utility excavation shall be compacted in place with a vibratory drum trench compactor. Carlin-Simpson & Associates must evaluate these areas for the presence of soft or unsuitable material within the existing fill matrix.

- If any soft soils or unsuitable existing fill conditions are encountered during construction, these materials must be removed and replaced with new compacted fill. Carlin-Simpson & Associates will determine this during construction.

- After the utility is installed, the trench must be backfilled with compacted fill. The fill shall be suitable on-site soil or imported sand and gravel. Imported sand and

gravel shall contain less than 20 percent passing a No. 200 sieve. Controlled compacted fill shall be placed in one foot layers and each layer compacted to at least 92 percent of its Maximum Modified Dry Density (ASTM D1557).

Suitability of Site Soils for Use as Compacted Fill

- We expect that some of the excavated fill material will be suitable for re-use as new compacted fill, provided that the material is not contaminated with petroleum or other substances, remains relatively dry enough for proper compaction and that any debris or organic materials has been removed prior to its placement.

- Debris and other unsuitable material must be removed from the fill. We recommend that the existing fill material be screened to remove the debris material from the sandy soil, to make re-usable as compacted fill.

- The organic silt and peat are not suitable for reuse and will need to be removed from the project site.

- Topsoil is not suitable for use as compacted fill.

- Asphalt is not suitable for use as compacted fill in building areas.

- Proper moisture conditioning of the soil will be required. In the event that the on-site material is too wet at the time of placement and cannot be adequately compacted, the soil should be aerated and allowed to dry or the material removed and a drier clean fill material used.

- An environmental evaluation of the site is beyond the scope of this study. An Environmental Engineer must address the suitability of the on-site soils for use on the project site with respect to any environmental concerns. Proper disposal of all contaminated soil must be in accordance with federal and state regulations.

Thank you for allowing us to assist you with this project. Should you have any questions or comments, please contact this office.

Very truly yours,

CARLIN-SIMPSON & ASSOCIATES represented by:

Robert H. Barnes

ROBERT H. BARNES, P.E.
Senior Project Engineer

Robert B. Simpson

ROBERT B. SIMPSON, P.E.

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-1

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	20 Apr 12
20 Apr 12	**1400**	**7'6"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	20 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		FILL (Br cf S, t (+) $, l cf G)	
1		S-1	9		**FILL (Brown coarse to fine SAND, trace (+)**	Rec = 16"
			8		**Silt, little coarse to fine Gravel)** 1'6"	moist
2			8			
			8		Br cf S, l (-) $, l (-) cf G	
3		S-2	7			Rec = 12"
			6			moist
4			7			
5						
			5		same	
6		S-3	7			Rec = 19"
			5		**Brown coarse to fine SAND, little (-)**	moist-very moist
7			5		**Silt, little (-) coarse to fine Gravel**	
8						
9						
10						
			3		same	
11		S-4	3			Rec = 20"
			4			wet
12			4			
13						
14						
15						
			3		same	
16		S-5	3			Rec = 19"
			4			wet
17			9			
18						
19						
20						
			4		same	
21		S-6	4			Rec = 22"
			5			wet
22			6			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-1
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
					Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel	
24						
25						
			4		Br cf S, t (+) $, t mf G	
26		S-7	5			Rec = 21"
			5			wet
27			5		27'0"	
					End of Boring @ 27'0"	
28						
29						
30						
31						
32						
33						
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47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-2
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +104.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Toppo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 20 Apr 12
20 Apr 12	1500	8'6"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 20 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			9		FILL (Br cf S, l $, a mf G, w/brick, concrete)	
1		S-1	11			Rec = 12"
			13			moist
2			10			
			6		same **FILL (Brown coarse to fine SAND,**	
3		S-2	8		**little Silt, and medium to fine Gravel,**	Rec = 19"
			7		**with brick and concrete)**	moist
4			5			
5					5'0"	
			3		Br o $, s cf S	
6		S-3	4			Rec = 20"
			3		**Brown organic SILT, some**	very moist
7			4		**coarse to fine Sand**	
8					8'0"	
9						
10						
			3		Br cf S, t $, t cf G	
11		S-4	5			Rec = 18"
			4			wet
12			4			
13					**Brown coarse to fine SAND,**	
14					**trace Silt, trace coarse to fine**	
15					**Gravel**	
			7		same	
16		S-5	6			Rec = 20"
			9			wet
17			8			
18						
19						
20						
			4		same, t (+) cf G	
21		S-6	4			Rec = 2"
			5			wet
22			2			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-2
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown coarse to fine SAND, trace Silt, trace (+) coarse to fine Gravel**	
24						
25						
26		**S-7**	7 6		Br cf S, t $, t (+) cf G	Rec = 24"
27			8 12		27'0"	wet
28					**End of Boring @ 27'0"**	
29						
30						
31						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-3

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	20 Apr 12
20 Apr 12	**1400**	**8'6"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	20 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			6		FILL (Br cf S, l $, s (+) cf G, w/brick, concrete)	
1		**S-1**	7		**FILL (Brown coarse to fine SAND,**	Rec = 15"
			10		**little Silt, some (+) coarse to fine**	moist
2			12		**Gravel, with brick and concrete)** 2'0"	
			10		Br cf S, l $, t mf G	
3		**S-2**	7			Rec = 9"
			7			moist
4			6			
5						
			8		same	
6		**S-3**	6			Rec = 20"
			5		**Brown coarse to fine SAND, little**	moist
7			6		**Silt, trace medium to fine Gravel**	
			3		same	
8		**S-4**	4			Rec = 17"
			5			very moist-wet
9			5			
10						
			5		same, t $	
11		**S-5**	5			Rec = 13"
			5			wet
12			7			
13						
14						
15						
			6		same	
16		**S-6**	5			Rec = 16"
			6			wet
17			6			
18						
19						
20						
			6		same	
21		**S-7**	7			Rec = 17"
			7			wet
22			7			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-3
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel**	
25						
26		**S-8**	7 6		Br cf S, t (+) $, t mf G	Rec = 17" wet
27			7		27'0"	
28					**End of Boring @ 27'0"**	
29						
30						
31						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-4

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	23 A[r 12
23 Apr 12	**1130**	**9'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	23 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			8		FILL (Br cf S, l $, l cf G, w/brick, coal)	
1		**S-1**	5			Rec = 16"
			11			moist
2			17		**FILL (Brown coarse to fine SAND, little Silt, little coarse to fine Gravel, with brick and coal)**	drilled through concrete @ 2'
						moved hole 3 times
3						
4						
5					5'0"	
			3		Br cf S, t (+) $, t cf G	
6		**S-2**	6			Rec = 15"
			14			moist
7			13			
8						
					Brown coarse to fine SAND, trace (+) Silt, trace coarse to fine Gravel	
9						
10						
			4		same	
11		**S-3**	6			Rec = 17"
			6			wet
12			9			
13						
14						
15						
			5		same	
16		**S-4**	8			Rec = 18"
			9			wet
17			9			
18						
19						
20						
			3		same	
21		**S-5**	4			Rec = 19"
			6			wet
22			9			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-4
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
			5		Br cf S, t $, t mf G	
24		S-6	7		**Brown coarse to fine SAND, trace**	Rec = 17"
			9		**Silt, trace medium to fine Gravel**	wet
25			10		25'0"	
					End of Boring @ 25'0"	
26						
27						
28						
29						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-5

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	20 Apr 12
20 Apr 12	**1000**	**8'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	20 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			14		FILL (Br cf S, l $, l (+) cf G, w/pcs. concrete)	
1		**S-1**	10		**FILL (Brown coarse to fine SAND, little**	Rec = 19"
			10		**Silt, little (+) coarse to fine Gravel,**	moist
2			6		**with pieces of concrete)** 2'0"	
3						
4						
5						
			10		Br cf S, l $, t cf G	
6		**S-2**	9			Rec = 20"
			10			moist
7			7			
8						
					Brown coarse to fine SAND, little	
9					**Silt, trace coarse to fine Gravel**	
10						
			4		same	
11		**S-3**	5			Rec = 18"
			5			wet
12			6			
13						
14						
15						
			3		same	
16		**S-4**	4			Rec = 20"
			4			wet
17			5			
18						
19						
20						
			6		same	
21		**S-5**	4			Rec = 24"
			5			wet
22			6			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-5
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
					Brown coarse to fine SAND, little	
24					**Silt, trace coarse to fine Gravel**	
25						
			4		Br cf S, l $, t cf G	
26		**S-6**	3			Rec = 22"
			5			wet
27			7		27'0"	
					End of Boring @ 27'0"	
28						
29						
30						
31						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-6

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.5
GROUNDWATER						**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**		**HSA**	**SS**			**START DATE:**	23 Apr 12
23 Apr 12	**1430**	**10'0"**	**Auger**	**DIA.**		**3 1/4"**	**1 3/8"**			**FINISH DATE:**	23 Apr 12
				WGHT			**140#**			**DRILLER:**	Erick D.
				FALL			**30"**			**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 0'1.5"	
1						
			6		FILL (Br cf S, l $, s (+) cf G, w/brick, concrete)	
2		**S-1**	7			Rec = 12"
			9			moist
3			4		**FILL (Brown coarse to fine SAND,**	0 ppm
			5		same **little Silt, some (+) coarse to fine**	
4		**S-2**	4		**Gravel, with brick and concrete)**	Rec = 12"
			5			moist
5			6		5'0"	0 ppm
			4		Br cf S, l $, l (-) cf G	
6		**S-3**	5			Rec = 15"
			8		**Brown coarse to fine SAND, little**	moist
7			6		**Silt, little (-) coarse to fine Gravel**	0 ppm
			7			
8		**S-4**	6		8'0"	Rec = 14"
			5		Br $ s, cf S, t (-) f G	moist
9			4		**Brown SILT some, coarse to fine**	
					Sand, trace (-) fine Gravel	
10					10'0"	
			5		Dk gr o $, l cf S	
11		**S-5**	4		**Dark gray organic SILT,**	Rec = 16"
			4		**little coarse to fine Sand**	wet
12			5		12'0"	0 ppm
13						
14						
15						
			5		Br cf S, s $, t (-) f G, w/ layers of $	
16		**S-6**	5			Rec = 17"
			7			wet
17			9			0 ppm
					Brown coarse to fine SAND, some	
18					**Silt, trace (-) fine Gravel, with**	
					layers of Silt	
19						
20						
			7		same	
21		**S-7**	9			Rec = 18"
			8			wet
22			9		22'0"	0 ppm

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-6
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
			8		Br cf S, t $, t cf G	
24		S-8	7		**Brown coarse to fine SAND, trace**	Rec = 17"
			7		**Silt, trace coarse to fine Gravel**	wet
25			9		25'0"	0 ppm
					End of Boring @ 25'0"	
26						
27						
28						
29						
30						
31						
32						
33						
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46						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-7

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+101.5
GROUNDWATER						**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**		**HSA**	**SS**			**START DATE:**	23 Apr 12
Perched water @ 6'0"			**Auger**	**DIA.**		**3 1/4"**	**1 3/8"**			**FINISH DATE:**	23 Apr 12
23 Apr 12	**1230**	**10'6"**	**Auger**	**WGHT**			**140 LBS**			**DRILLER:**	Erick D.
				FALL			**30"**			**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		FILL (Br cf S, l $, l (+) cf G, w/brick, asphalt)	
1		**S-1**	7			Rec = 17"
			15			moist
2			13			0 ppm
			11		same	
3		**S-2**	10		**FILL (Brown coarse to fine SAND,**	Rec = 18"
			10		**little Silt, little (+) coarse to fine**	moist
4			12		**Gravel, with brick and asphalt)**	0 ppm
5						
			3		same	
6		**S-3**	3			Rec = 19"
			2			wet
7			7			0 oppm
			7		same	
8		**S-4**	8			Rec = 16"
			7			wet
9			8		9'0"	0 ppm
10						
			3		Dk gr o $, s cf S	
11		**S-5**	3		**Dark gray organic SILT, some**	Rec = 17"
			3		**coarse to fine Sand** 11'6"	wet
12			4		Br cf S, l $	3.5 ppm
13						
					Brown coarse to fine SAND,	
14					**little Silt**	
15						
			3		same, w/layers of $	
16		**S-6**	5			
			7			Rec = 17"
17			7			wet
18						0 ppm
19						
20					20'0"	
			7		Gr cf S, t $, t f G	
21		**S-7**	5		**Gray coarse to fine SAND,**	Rec = 16"
			7		**trace Silt, trace fine Gravel**	wet
22			6			0 ppm

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-7
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
					Brown coarse to fine SAND, trace	
24					**Silt, trace coarse to fine Gravel**	
25						
			7		Br cf S, t $, t cf G	
26		**S-8**	8			Rec = 16"
			8			wet
27			4		27'0"	
					End of Boring @ 27'0"	
28						
29						
30						
31						
32						
33						
34						
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36						
37						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-8

Project:	The Glenmark, Main Street, Tuckahoe, NY	**SHEET NO.:**	1 of 2
Client:	Midora/Glenmark Partners, LLC	**JOB NUMBER:**	12-14
Drilling Contractor:	General Borings, Inc.	**ELEVATION:**	+101.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
19 Apr 12	0900	6'6"	Auger	DIA.	3 1/4"	1 3/8"			START DATE:	19 Apr 12
				WGHT		140#			FINISH DATE:	19 Apr 12
				FALL		30"			DRILLER:	Erick D.
									INSPECTOR:	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		FILL (Br cf S, l (-) $, s cf G)	
1		S-1	8		**FILL (Brown coarse to fine SAND, little (-)**	Rec = 20"
			7		**Silt, some coarse to fine Gravel)** 1'6"	moist
2			4		Br cf S, t $, t cf G	
3						
4						
5						
			6		same, l $	
6		S-2	5			Rec = 19"
			5		**Brown coarse to fine SAND, little**	moist-wet
7			5		**Silt, trace coarse to fine Gravel**	
8						
9						
10						
			6		same, l $	
11		S-3	10			Rec = 20"
			10			wet
12			9			
13						
14						
15						
			6		same	
16		S-4	9			Rec = 20"
			9			wet
17			9			
18						
19						
20						
			7		same	
21		S-5	9			Rec = 21"
			8			wet
22			9			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-8
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, little (-) Silt, trace (-) coarse to fine Gravel**	
25						
26		**S-6**	9 8		Br cf S, l (-) $, t (-) cf G	Rec = 21"
27			8 10		27'0"	wet
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-9

Project:	The Glenmark, Main Street, Tuckahoe, NY	**SHEET NO.:**	1 of 2
Client:	Midora/Glenmark Partners, LLC	**JOB NUMBER:**	12-14
Drilling Contractor:	General Borings, Inc.	**ELEVATION:**	+106.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:**	Topo
17 Apr 12	0950	13'0"	Auger	DIA.	3 1/4"	1 3/8"			**START DATE:**	17 Apr 12
				WGHT		140#			**FINISH DATE:**	17 Apr 12
				FALL		30"			**DRILLER:**	Erick D.
									INSPECTOR:	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
			8		FILL (Br gr cf G a (+), cf S, l (-) $, w/ash, wood, asphalt)	
2		S-1	7			Rec = 12"
			6			moist
3			5		**FILL (Brown gray coarse to fine**	
			3		same **GRAVEL and (+), coarse to fine**	
4		S-2	3		**Sand, little (-) Silt, with ash, wood,**	Rec = 10"
			2		**asphalt)**	moist
5			3			
			3		same	
6		S-3	4			No recovery
			3			
7			3			
			3			
8		S-4	4		8'0"	Rec - 12"
			5		Br cf S, l $	moist
9			4			
					Brown coarse to fine SAND, little Silt	
10					10'0"	
			1		Dk gr o $, t (-) f S	
11		S-5	2		**Dark gray organic SILT,** 11'0"	Rec = 17"
			4		**trace (-) fine Sand**	very moist
12			6		Gr $, a (+) cf S	
					Gray SILT, and (+) coarse to fine Sand	
13					13'0"	
14						
15						
			5		Br cf S, t $, t cf G	
16		S-6	7			Rec = 20"
			6			wet
17			6			
					Brown coarse to fine SAND, trace	
18					**Silt, trace coarse to fine Gravel**	
19						
20						
			9		same	
21		S-7	5			Rec = 19"
			6			wet
22			6			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-9
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown coarse to fine SAND, trace Silt**	
24						
25		S-8	6 9		Br cf S, t $	Rec = 19"
26			7 7		26'0"	wet
					End of Boring @ 26'0"	
27						
28						
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47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-10

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 3
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+103.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	17 Apr 12
17 Apr 12	**1600**	**13'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	17 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
			8		FILL (Br cf S, l (-) $, s (+) cf G, w/brick , concrete)	
2		S-1	7			Rec = 11"
			17			moist
3			13		**FILL (Brown coarse to fine SAND,**	
			11		same **little (-) Silt, some (+) coarse to fine**	
4		S-2	10		**Gravel, with brick and concrete)**	Rec = 15"
			13			moist
5			7			
			5		same	
6		S-3	3		6'0"	Rec = 19"
			1		Br $ a, cf S, t (-) f G, t roots	moist
7			2			
			2		same	
8		S-4	1		**Brown SILT and, coarse to fine**	Rec = 19"
			2		**Sand, trace (-) fine Gravel, trace**	moist
9			3		**roots**	
10					10'0"	
			2		Dk gr o $, t (+) cf S	
11		S-5	2		**Dark gray organic SILT,**	Rec = 22"
			2		**trace (+) coarse to fine Sand**	moist
12			2		12'0"	
13						
14						
15						
			9		Gr cf S, l $, t mf G	
16		S-6	9			Rec = 21"
			8			wet
17			7		**Gray coarse to fine SAND, little**	
					Silt, trace medium to fine Gravel	
18						
19						
20						
			6		same	
21		S-7	7			Rec = 20"
			5			wet
22			5			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-10
Project: The Glenmark, Main Street, Tuckahoe, NY		SHEET NO.: 2 of 3
Client: Midora/Glenmark Partners, LLC		JOB NUMBER: 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24						
25						
26		S-8	3 5 4 5	■	Br cf S, t $, l cf G	Rec = 18" wet
27						
28					**Brown coarse to fine SAND, trace Silt, little coarse to fine Gravel**	
29						
30						
31		S-9	4 4 5 5	■	same	Rec = 19" wet
32						
33						
34						
35						
36		S-10	5 6 7 9	■	same	Rec = 20" wet
37						
38						
39						
40						
41						
42						
43						
44						
45						
46		S-11	7 8 9 10	■	same	Rec = 18" wet
47						

CARLIN-SIMPSON & ASSOC. Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-10
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 3 of 3
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
48						
49					**Brown coarse to fine SAND, trace Silt, little coarse to fine Gravel**	
50						
51						
52					52'0"	
53					**Gray coarse to fine GRAVEL and (+), coarse to fine Sand, trace Silt**	
54						
55						
		S-12	50/6"		55'6"	Rec = 5"
56					**End of Boring @ 55'6"**	wet
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-11
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +110.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:** Topo
16 Apr 12	1400	16'0"	Auger	DIA.	3 1/4"	1 3/8"			**START DATE:** 16 Apr 12
				WGHT		140#			**FINISH DATE:** 16 Apr 12
				FALL		30"			**DRILLER:** Erick D.
									INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 1.5"	
1						
			7		FILL (Br cf S, l $, t f G)	
2		S-1	4		**FILL (Brown coarse to fine SAND,**	Rec = 17"
			5		**little Silt, trace fine Gravel)** 3'0"	moist
3			5		Br cf S, t $, t (-) f G	
			5			Rec = 18"
4		S-2	6			moist
			5			
5			7			
			11		Br cf S, t $	
6		S-3	13			Rec = 18"
			16			moist
7			17		**Brown coarse to fine SAND, trace**	
			6		same **Silt, trace (-) fine Gravel**	
8		S-4	7			Rec = 17"
			7			moist
9			10			
10						
			8		same	
11		S-5	7			Rec = 18"
			10			moist
12			8			
13						
14						
15						
			5		same	
16		S-6	8			Rec = 20"
			5			wet
17			7			
18						
19						
20						
			8		same, t (-) mf G	
21		S-7	10			Rec = 24"
			10			wet
22			15			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-11
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24						
25						
26		S-8	5 4	■	Br cf S, t $, t (-) f G	Rec = 20"
27			5 5	■		wet
28					**Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel**	
29						
30						
31		S-9	4 4	■	same	Rec = 22"
32			5 5	■		wet
33						
34						
35						
36		S-10	6 9	■	same	Rec = 20"
37			10 12	■	37'0"	wet
38					**End of Boring @ 37'0"**	
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-12
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +111.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:** Topo
18 Apr 12	1430	16'0"	Auger	DIA.	3 1/4"	1 3/8"			**START DATE:** 18 Apr 12
				WGHT		140#			**FINISH DATE:** 18 Apr 12
				FALL		30"			**DRILLER:** Erick D.
									INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			16		FILL (Gr cf G a (-), cf S, t $)	
1		S-1	20		**FILL (Gray coarse to fine GRAVEL and (-), coarse to fine Sand, trace Silt)**	Rec = 10"
			50/1"			moist
2					2'0"	
3						
			5		Br cf S, l $, t (-) f G	
4		S-2	4			Rec = 17"
			4			moist
5			3			
			5		same	
6		S-3	3			Rec = 18"
			3			moist
7			3			
					Brown coarse to fine Sand, trace Silt, trace (-) fine Gravel	
8						
9						
10						
			6		Br cf S, l $, t f G	
11		S-4	6			Rec = 21"
			7			moist
12			8			
13						
14						
15						
			5		Br cf S, t $, t (-) f G	
16		S-5	5			Rec = 20"
			6			very moist-wet
17			7			
18						
19						
20						
			6		same	
21		S-6	7			Rec = 22"
			8			wet
22			7			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-12
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown coarse to fine SAND, trace Silt, trace medium to fine Gravel**	
24						
25						
26		**S-7**	5 7		Br cf S, t $, t mf G	Rec = 21"
27			8 8		27'0"	wet
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-13

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+113.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	20 Apr 12
16 Apr 12	**1030**	**17'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	20 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 1.5"	
1						
			2		Br cf S, l $, l f G	
2		**S-1**	4			Rec = 19"
			3			moist
3			4			
			5		same	
4		**S-2**	6			Rec = 22"
			6			moist
5			8			
			6		same	
6		**S-3**	6		**Brown coarse to fine SAND, little**	Rec = 19"
			5		**Silt, little fine Gravel**	moist
7			5			
			6		same	
8		**S-4**	5			Rec = 21"
			5			moist
9			4			
10						
			5		same	
11		**S-5**	9			Rec = 22"
			3			moist
12			6			
13						
14						
15						
			4		Br cf S, s (-) $, s (-) cf G	
16		**S-6**	5			Rec = 21"
			5			moist-wet
17			6			
18						
19						
20						
			3		same, w/t (+) mf G	
21		**S-7**	3			Rec = 24"
			4			wet
22			4			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-13
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23		S-8	4 4		Br cf S, l $, l f G **Brown coarse to fine SAND, little**	Rec = 17"
24			3 4		**Silt, little fine Gravel** 23'0"	wet
25					**End of Boring @ 23'0"**	
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-14

Project:	The Glenmark, Main Street, Tuckahoe, NY	**SHEET NO.:**	1 of 2
Client:	Midora/Glenmark Partners, LLC	**JOB NUMBER:**	12-14
Drilling Contractor:	General Borings, Inc.	**ELEVATION:**	+111.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
16 Apr 12	1000	17'0"	Auger	DIA.	3 1/4"	1 3/8"			START DATE:	16 Apr 12
				WGHT		140#			FINISH DATE:	16 Apr 12
				FALL		30"			DRILLER:	Erick D.
									INSPECTOR:	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			2		**Asphalt** 0'1.5"	
1		**S-1**	2		Br cf S, t $, t (-) f G	Rec = 17"
			4			moist
2			3			0 ppm
			5		same	
3		**S-2**	4		**Brown coarse to fine SAND, trace**	Rec = 16"
			5		**Silt, trace (-) fine Gravel**	moist
4			5			0 ppm
			5		same	
5		**S-3**	6			Rec = 15"
			7			moist
6			7			0 ppm
			4		same	
7		**S-4**	4			Rec = 16"
			3			moist
8			3			0 ppm
9					9'0"	
10						
			3		Br $ a (-), cf S, t (-) f G	
11		**S-5**	3			Rec = 16"
			3			very moist-wet
12			4			0 ppm
13					**Brown SILT and (-) coarse to fine**	
					SAND, trace (-) fine Gravel	
14						
15						
			3		same	
16		**S-6**	3			Rec = 19"
			3			wet
17			3			
18						
19						
20						
			4		same	
21		**S-7**	3			Rec = 17"
			4			wet
22			4			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-14
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown SILT and (-) coarse to fine SAND, trace (-) fine Gravel** 23'6"	
24						
25						
26		**S-8**	4 4 5 7		Br cf s, l (+) $, t (-) f G **Brown coarse to fine SAND, little (+) Silt, trace (-) fine Gravel** 27'0"	Rec = 22" wet
27						
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-15

Project:	**The Glenmark, Main Street, Tuckahoe, NY**	**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**	**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**	**ELEVATION:**	+106.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
16 Apr 12	1600	11'0"	Auger	DIA.	3 1/4"	1 3/8"			START DATE:	16 Apr 12
				WGHT		140#			FINISH DATE:	16 Apr 12
				FALL		30"			DRILLER:	Erick D.
									INSPECTOR:	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
			2		FILL (Br cf S, l $, s cf G, w/asphalt)	
2		S-1	3			Rec = 5"
			3		**FILL (Brown coarse to fine SAND,**	moist
3			4		**little Silt, some coarse to fine Gravel,**	0 ppm
			5		same **with asphalt)**	
4		S-2	4			Rec = 14"
			4			moist
5			5			0 ppm
			4		same	
6		S-3	3			Rec = 14"
			3		6'6"	moist
7			2		Br cf S, t (+) $	0 ppm
			3			
8		S-4	2			Rec = 17"
			2			moist
9			5			0 ppm
10						
			7		same	
11		S-5	8			Rec = 19"
			8		**Brown coarse to fine SAND,**	moist-wet
12			9		**trace (+) Silt**	
13						
14						
15						
			8		same	
16		S-6	8			Rec = 20"
			7			wet
17			9			
18						
19						
20						
			5		same, l (+) $	
21		S-7	3			Rec = 22"
			5			wet
22			4			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-15
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel**	
25						
26		**S-8**	6 7		Br cf S, t $, t (-) f G	Rec = 16" wet
27			5 7		27'0"	
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
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46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-16
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +103.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:** Topo
17 Apr 12	1500	9'6"	Auger	DIA.	3 1/4"	1 3/8"			**START DATE:** 17 Apr 12
				WGHT		140#			**FINISH DATE:** 17 Apr 12
				FALL		30"			**DRILLER:** Erick D.
									INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Broken Asphalt 0'2"	
1						
			4		FILL (Br cf S, l $, l cf G)	
2		S-1	3			Rec = 10"
			3		**FILL (Lbrown coarse to fine SAND,**	moist
3			3		**little Silt, little coarse to fine Gravel,**	
			4		same **with brick)**	
4		S-2	4			Rec = 12"
			3			moist
5			5			
			4		same, w/brick	
6		S-3	4			Rec = 14"
			3			moist
7			2			
			5		7'6"	
8		S-4	2		Dk gr $, t (-) f S	Rec = 17"
			2		**Dark gray SILT, trace (-) fine Sand** 8'6"	very moist
9			7		Br cf S, t $	
10						
			7		Br cf S, t $, t (-) f G	
11		S-5	7			Rec = 18"
			8			wet
12			8			
13					**Brown coarse to fine SAND, trace**	
					Silt, trace (-) fine Gravel	
14						
15						
			3		same	
16		S-6	5			Rec = 22"
			7			wet
17			8			
18						
19						
20						
			3		same	
21		S-7	3			Rec = 21"
			3			wet
22			5			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-16
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24						
25					Br cf S, t $, t (-) f G	
26		S-8	3 3 5	■		Rec = 22" wet
27			6	■		
28					**Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel**	
29						
30						
31		S-9	5 5 6	■	sane	Rec = 20" wet
32			7	■		running sand
33						
34						
35						
36		S-10	10 9 9	■	same	Rec = 21" wet
37			10	■	37'0"	
38					**End of Boring @ 37'0"**	
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-17
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +104.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:** Topo
18 Apr 12	1400	10'0"	Auger	DIA.	3 1/4"	1 3/8"			**START DATE:** 18 Apr 12
				WGHT		140#			**FINISH DATE:** 18 Apr 12
				FALL		30"			**DRILLER:** Erick D.
									INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 1'5"	
1						
			2		FILL (Br cf S, l $, l cf G, t concrete)	
2		S-1	3			No recovery
			3			
3			2		**FILL (Brown coarse to fine SAND,**	
			4		same **little Silt, little coarse to fine Gravel,**	
4		S-2	9		**trace concrete)**	Rec = 14"
			11			very moist
5			9		5'0"	
			7			
6		S-3	8		Br cf S, t $	
			9			Rec = 16"
7			9			moist
			9			
8		S-4	10		same	Rec = 18"
			10			moist
9			8		**Brown coarse to fine SAND, trace Silt**	
10						
			3			
11		S-5	3		same l, $ w/ layers $	Rec = 18"
			3			wet
12			3			
13						
14						
15						
			3			
16		S-6	2		same	Rec = 20"
			3			wet
17			3			
18						
19						
20					20'0"	
			30			
21		S-7	58		Br cf G a cf S, t $	Rec = 19"
			20		**Brown coarse to fine GRAVEL and,**	wet
22			20		**coarse to fine Sand, trace Silt**	

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-17
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine GRAVEL and, coarse to fine Sand, trace Silt, weathered schist**	
25						
26		**S-8**	15 18 22 45		Br cf G a, cf S, t $, weathered schist	Rec = 18" wet Hard drilling 20'0"-26'6"
27					27'6"	Auger refusal @ 27'6"
28					**End of Boring @ 27'6"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-18
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +108.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
17 Apr 12	1500	14'0"	Auger	DIA.	3 1/4"	1 3/8"			START DATE: 17 Apr 12
				WGHT		140#			FINISH DATE: 17 Apr 12
				FALL		30"			DRILLER: Erick D.
									INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt/Concrete	2" Asphalt
1					1'2"	12" Concrete
2						
			3	■	FILL (Br cf S, s (+) $, t (-) cf G)	
3		S-1	3	■		Rec = 15"
			6	■		moist
4			7	■	**FILL (Brown coarse to fine SAND, some (+) Silt, (-) course to fine Gravel)**	
5						
			8	■	same	
6		S-2	9	■	6'0"	Rec = 18"
			11	■	Br cf S, t $	moist
7			11	■		
			8	■	same	
8		S-3	6	■		Rec = 18"
			7	■		moist
9			8	■		
10					**Brown coarse to fine SAND, trace Silt**	
			3	■	same	
11		S-4	4	■		Rec = 22"
			4	■		moist
12			4	■		
13						
14						
15						
			3	■	same	
16		S-5	3	■		Rec = 18"
			4	■		wet
17			6	■		
18						
19						
20						
			4	■	same, l (-) $	
21		S-6	5	■		Rec = 20"
			6	■		wet
22			8	■		

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-18
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown coarse to fine SAND, little Silt, trace (-) fine Gravel**	
24						
25						
			7		Br cf S, l $, t (-) f G	
26		S-7	7			Rec = 20"
			9			wet
27			9		27'0"	
					End of Boring @ 27'0"	
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-19
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +123.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 24 Apr 12
24 Apr 12	No water encountered			DIA.	3 1/4"	1 3/8"			FINISH DATE: 24 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1		S-1	7 6 3 5		FILL (Br cf S, s (+) $, s cf G w/cobbles, boulders, bricks, concrete and asphalt)	Rec = 18" very moist
2						
3						
4					**FILL (Brown coarse to fine SAND, some (+) Silt, some coarse to fine Gravel with cobbles, boulders, bricks, concrete and asphalt)**	
5						
6		S-2	3 4		same	Rec = 14" very moist
7			4 5			
8		S-3	5 7		same	
9			5 5			Rec = 16" very moist
10						
11		S-4	5 5		FILL (Br cf S, a (-) $, s (-) mf G)	Rec = 19"
12			7 7			moist
13						
14					14'0"	
15						
16		S-5	10 16		Weathered Schist	Rec = 14" moist
17			22 27		**Weathered Schist**	
18						
19						
20						
21		S-6	35 60		same	Rec = 8"
22						moist

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-19
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Weathered Schist**	
25						
26		**S-7**	25 60/4"		Weathered Schist	Rec = 6" moist
27						
28					28'0"	Auger refusal @ 28'0"
29					**End of Boring @ 28'0"**	
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-20
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +118.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 24 Apr 12
24 Apr 12	1230	12'0"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 24 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
2					**FILL (Brown coarse to fine SAND, little (+) Silt, little (-) coarse to fine Gravel)**	
3						
4						
5						
			8	■	FILL (Br cf S, l (+) $, l (-) cf G)	
6		**S-1**	4	■		Rec = 5"
			3	■		moist
7			4	■		
8					8'0"	
9						
10						
			14	■	Br cf S, l $, l cf G	
11		**S-2**	12	■		Rec = 17"
			13	■	**Brown coarse to fine SAND, little Silt, little coarse to fine Gravel**	moist-wet
12			27	■		
13						
14					14' 0"	
15						
			25	■	Br weathered Schist (Br cf S, s $, l mf G)	
16		**S-3**	28	■		Rec = 14"
			35	■		moist
17			44	■	**Brown weathered Schist (Brown coarse to fine SAND, some Silt, little medium to fine Gravel)**	
18						
19						
20						
			50	■	same	
21		**S-4**				Rec = 2"
						moist
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-20
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Weathered Schist**	
25						
26		S-5	50/3"	■	Weathered Schist 25'3"	Rec = 3" moist
27					**End of Boring @ 25'3"**	
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-21
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +108.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 17 Apr 12
17 Apr 12	1400	15'0"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 17 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
			2		FILL (Br cf S, l (+) $, t f G)	
2		S-1	1			Rec = 14"
			1			moist
3			1			
			2		**FILL (Brown coarse to fine SAND,**	
4		S-2	2		**little (+) Silt, trace fine Gravel)**	Rec = 20"
			1			moist
5			1			
			3			
6		S-3	2			Rec = 17"
			2			moist
7			2		7'0"	
			6		Br cf S, t (+) $, t (-) f G	
8		S-4	6			Rec = 16"
			8			Moist
9			9			
10						
			6			
11		S-5	7		**Brown coarse to fine SAND, trace (-)**	Rec = 24"
			7		**fine Gravel**	moist
12			8			
13						
14						
15						
			3		same	
16		S-6	2			Rec = 22"
			2			wet
17			3			
18						
19						
20						
			2		same	
21		S-7	2			Rec = 21"
			3			wet
22			2			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-21
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace Silt, trace (-) medium to fine Gravel**	
25						
26		**S-8**	3 2		Br cf S, t $, t (-) mf G	Rec = 23" wet
27			3 3		27'0"	
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-22
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +124.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 24 Apr 12
24 Apr 12	No water encountered			DIA.	3 1/4"	1 3/8"			FINISH DATE: 24 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1		S-1	2 1 3	■	FILL (Br cf S, s $, s cf G)	Rec = 17" very moist
2			5	■		
3						
4					**FILL (Brown coarse to fine SAND, some Silt, some coarse to fine Gravel)**	
5						
6		S-2	7 6 5	■	same	Rec = 15" very moist
7			4	■		
8		S-3	5 4 4	■	same	Rec = 16 very moist
9			4	■	9' 0"	
10						
11		S-4	8 12 19	■	Br cf S, a (-) $, l (-) mf G	Rec = 18" moist
12			16	■	**Brown coarse to fine SAND, and (-) Silt, little (-) medium to fine Gravel (completely weathered to highly weathered schist)**	
13						
14						
15					same, highly weathered schist	
16		S-5	14 16 30	■		Rec = 3" moist
17			37	■		
18						
19					18'6"	
20					**Weathered Schist**	
21		S-6	60/2"	■	Weathered Schist	Rec = 3" moist
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-22
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Weathered Schist**	
24						
25						
		S-7	60/4"		Weathered Schist 25'4"	Rec = 4"
26					**End of Boring @ 25'4"**	moist
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-23
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +111.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 24 Apr 12
24 Apr 12	No water encountered			DIA.	3 1/4"	1 3/8"			FINISH DATE: 24 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1		S-1	2 5 7 11		FILL (Br cf S, s (-) $, s (+) cf G w/ concrete, bricks, boulders) **FILL (Brown coarse to fine SAND, some (-) Silt, some (+) coarse to fine Gravel with concrete, bricks and boulders)**	Rec = 8" very moist
2						
3						
4						
5						
6		S-2	50/2"		same, concrete, boulders	Rec = 2" Very moist
7						
8						
9						
10						
11		S-3	4 4 6		11'6"	Rec = 10" moist
12			12		Br cf S, l (-) $, t cf G **Brown coarse to fine SAND, little (-) Silt, trace coarse to fine Gravel**	
13						
14						
15					15'0"	
16		S-4	4 9		Br cf S, l $ l cf G	Rec = 16" moist
17			28 45			
18					**Brown coarse to fine SAND, little Silt, little coarse to fine Gravel**	
19						
20					20'0"	
21		S-5	38 60/5"		Weathered Schist **Weathered Schist**	Rec = 6" moist
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-23
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Weathered Schist**	
25					25'3"	
		S-6	60/3"	■		
26					**End of Boring @ 25'3"**	Rec = 2" moist
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
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45						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-24

Project:	**The Glenmark, Main Street, Tuckahoe, NY**									**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**									**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**									**ELEVATION:**	+106.5
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**				**START DATE:**	18 Apr 12
18 Apr 12	**1220**	**10'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**				**FINISH DATE:**	18 Apr 12
				WGHT		**140#**				**DRILLER:**	Erick D.
				FALL		**30"**				**INSPECTOR:**	EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1					**Asphalt/ Concrete** 0'9"	3" Asphalt 6" Concrete
2						
3		**S-1**	5 5 3	■	FILL (Br cf S, a (-) $, t (+) mf G)	Rec = 14" moist
4			4	■	**FILL (Brown coarse to fine SAND, and (-) Silt, trace (+) medium to fine Gravel)**	
5						
6		**S-2**	3 2	■	same 6'0"	Rec = 19"
7			4 5	■	Br cf S, t $	moist
8		**S-3**	5 8	■	same **Brown coarse to fine SAND, trace Silt**	Rec = 18"
9			8 7	■		moist
10						
11		**S-4**	8 7	■	same t (+) $	Rec = 17"
12			8 7	■		wet
13						
14						
15						
16		**S-5**	4 6	■	same	Rec = 19'
17			8 9	■		wet
18						
19						
20					same	
21		**S-6**	3 3	■		Rec = 16" wet
22			5 4	■		

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-24
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace (+) Silt, trace medium to fine Gravel**	
25						
26		**S-7**	5 6		Br cf S, t (+) $, t mf G	Rec = 19"
27			8 10		27'0"	wet
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-25
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +113.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 16 Apr 12
16 Apr 12	1450	16'0"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 16 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 0'1.5"	
1						
			4		Br cf S, t $	
2		S-1	4			Rec = 17"
			3			moist
3			4			
			4		same	
4		S-2	3			Rec = 12"
			4			moist
5			3			
			5		same	
6		S-3	5		**Brown coarse to fine SAND, trace Silt**	Rec = 12"
			3			moist
7			3			
			4		same	
8		S-4	3			Rec = 14"
			3			moist
9			5			
10						
			3		same	
11		S-5	3			Rec = 18"
			3			moist
12			5			
13						
14						
15						
			3		same	
16		S-6	3			Rec = 22"
			3			moist wet
17			3			
18						
19						
20						
			3			
21		S-7	4		21'0"	Rec = 23"
			22		**Brown coarse to fine Sand, trace Silt,**	wet
22			20		**some coarse to fine Gravel**	

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-25
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
			22		**Brown coarse to fine SAND, trace**	
24		**S-8**	21		**Silt, some coarse to fine Gravel**	Rec = 23"
			16			wet
25			19		25'0"	
					End of Boring @ 25'0"	
26						
27						
28						
29						
30						
31						
32						
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34						
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CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-26
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +112.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	**DATUM:** Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:** 18 Apr 12
18 Apr 12	**1050**	**18'6"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:** 18 Apr 12
				WGHT		**140#**			**DRILLER:** Erick D.
				FALL		**30"**			**INSPECTOR:** EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 0'2"	
1						
			8		Fill (Dk br cf S, l $. s cf G)	
2		**S-1**	7			Rec = 19"
			6			moist
3			11			0 ppm
			13		same	
4		**S-2**	17			Rec = 16
			19			moist
5			16			0 ppm
			16		same, concrete pieces	
6		**S-3**	15			Rec = 7
			13		**Fill (Dark brown coarse to fine SAND,**	moist
7			10		**little Silt, some coarse to fine Gravel,**	0 ppm
					with concrete pieces and brick)	
8						obstruction 7'0"-9'0"
						hard drilling
9						
			7		same, w/ brick	
10		**S-4**	5			Rec = 12"
			4			moist
11			4			0 ppm
			8			
12		**S-5**	10			No recovery
			11			0 ppm
13			10			
					13'6"	
14						
					Dark gray SILT some, coarse to	
15					**fine Sand, trace organics**	
			3		Dk gr $ s, cf S, t/organics	
16		**S-6**	4		16'0"	Rec = 22"
			5		Br cf S, l $, t f G	moist/very moist
17			7			0 ppm
18					**Brown coarse to fine SAND,**	
					little Silt, trace fine Gravel	
19						
20					same	
			5			Rec = 17"
21		**S-7**	4			wet
			4			
22			4			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-26
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace Silt, trace (-) fine Gravel**	
25						
26		**S-8**	6 5		Br cf S, t $, t (-) f G	Rec = 19' wet
27			4 5		27'0""	
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-27
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 3
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +101.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 23 Apr 12
23 Apr 12	1200	7'6"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 23 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			10		FILL (Gr br cf S, l $, l cf G w/bricks)	Rec = 19"
1		S-1	9		**FILL (Gray brown coarse to fine SAND, little Silt, little coarse to fine Gravel with bricks)** 2'0"	moist
			6			
2			8			
			6		Br cf S, l $, t (-) cf G	Rec = 16"
3		S-2	7			moist
			6		**Brown coarse to fine SAND, little Silt, trace (-) coarse to fine Gravel**	
4			5			
5						
			5		same, l cf G	Rec = 18"
6		S-3	4			moist
			5			
7			6			
			7			Rec = 20"
8		S-4	7			moist/wet
			6			
9			10			
10						
			5		same, t $, t cf G	Rec = 18"
11		S-5	5			wet
			4			
12			4			
13						
14						
15						
			10		same	Rec = 20"
16		S-6	8			wet
			9			
17			9			
18						
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-27
Project: The Glenmark, Main Street, Tuckahoe, NY		SHEET NO.: 2 of 3
Client: Midora/Glenmark Partners, LLC		JOB NUMBER: 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24						
25						
			7		Br cf S, t $, t (-) f G	Rec = 18"
26		S-7	9			wet
			8			
27			8			
28						
29					**Brown coarse to fine SAND, trace (-) Silt, trace (-) fine Gravel**	
30						
31						
32						
33						
34						
35						
			8		same	
36		S-8	7			Rec = 19"
			9			wet
37			10			
38						
39						
40						
41						
42						
43						Hard drilling @ 43'0"
44						
45						
46						
47						

CARLIN-SIMPSON & ASSOC. Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-27
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 3 of 3
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Brown coarse to fine SAND, trace (-)	
48					**Silt, trace (-) fine Gravel** 48'0"	Auger refusal @ 48'0"
					End of Boring @ 48'0"	
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-28
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +101.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM: Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE: 20 Apr 12
20 Apr 12	1200	7'6"	Auger	DIA.	3 1/4"	1 3/8"			FINISH DATE: 20 Apr 12
				WGHT		140#			DRILLER: Erick D.
				FALL		30"			INSPECTOR: EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			12		FILL (Br cf S, l $, s cf G, w/brick & concrete)	Rec = 14"
1		S-1	8		**Fill (Brown coarse to fine SAND, little**	moist
			9		**Silt, some coarse to fine Gravel with**	
2			8		**brick and concrete** 2'0"	
3						
4					**Brown coarse to fine SAND, little**	
					Silt, little coarse to fine Gravel	
5						
			3		Br cf S, l $, l cf G	Rec =17"
6		S-2	2		6'0"	moist- very moist
			2		Brown Peat	
7			2		**Brown Peat**	
					7'6"	
8						
			3		Br cf S, s $, t mf S	Rec = 16"
9		S-3	2			wet
			2			
10			2			
			4		same	
11		S-4	5			Rec = 17"
			4			wet
12			4		**Brown coarse to fine SAND, some**	
					Silt, trace medium to fine Gravel	
13						
14						
15			6		same	Rec = 18"
		S-5	7			wet
16			8			
			9			
17						
18						
19						
20						
			3		same	Rec = 21"
21		S-6	4			wet
			5			
22			7			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-28
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24					**Brown coarse to fine SAND, trace Silt**	
25						
26		**S-7**	5 5		Br cf S, t $	Rec = 17" wet
27			4 6		27'0"	
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-29
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 1 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14
Drilling Contractor: General Borings, Inc.		**ELEVATION:** +107.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	**DATUM:** Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:** 24 Apr 12
24 Apr 12	**1550**	**11'6"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:** 24 Apr 12
				WGHT		**140#**			**DRILLER:** Erick D.
				FALL		**30"**			**INSPECTOR:** EJS

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
					Asphalt 0'1.5"	
1						
			8		FILL (Br cf S, l (-) $, t cf G)	Rec = 14"
2		**S-1**	11			moist
			4			
3			5			
			5		same	Rec = 12"
4		**S-2**	4			moist
			6		**FILL (Brown coarse to fine SAND,**	
5			4		**little (-) Silt, trace coarse to fine Gravel)**	
			4			Rec = 12"
6		**S-3**	4			moist
			5			
7			6		7'0"	
			7		Br cf S, t $,	Rec = 14"
8		**S-4**	5			moist
			5			
9			5			
10						
			7			Rec = 15"
11		**S-5**	7		Br cf S, t (+) $, t (-) cf G	very moist-wet
			8			
12			9			
13						
14						
					Brown coarse to fine SAND, trace (+)	
15					**Silt, trace (-) coarse to fine Gravel**	
			3		same	Rec = 17"
16		**S-6**	4			wet
			4			
17			3			
18						
19						
20						
			4		same	Rec = 18"
21		**S-7**	3			wet
			3			
22			3			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-29
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23					**Brown coarse to fine SAND, trace Silt, trace coarse to fine Gravel**	
24						
25						
26		**S-8**	5 4		Br cf S, t $, t cf G	Rec = 15" wet
27			3 3		27'0"	
28					**End of Boring @ 27'0"**	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-30

Project:	**The Glenmark, Main Street, Tuckahoe, NY**								**SHEET NO.:**	1 of 2
Client:	**Midora/Glenmark Partners, LLC**								**JOB NUMBER:**	12-14
Drilling Contractor:	**General Borings, Inc.**								**ELEVATION:**	+113.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	19 Apr 12
19 Apr 12	**1130**	**17'0"**	**Auger**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	19 Apr 12
				WGHT		**140#**			**DRILLER:**	Erick D.
				FALL		**30"**			**INSPECTOR:**	EJS

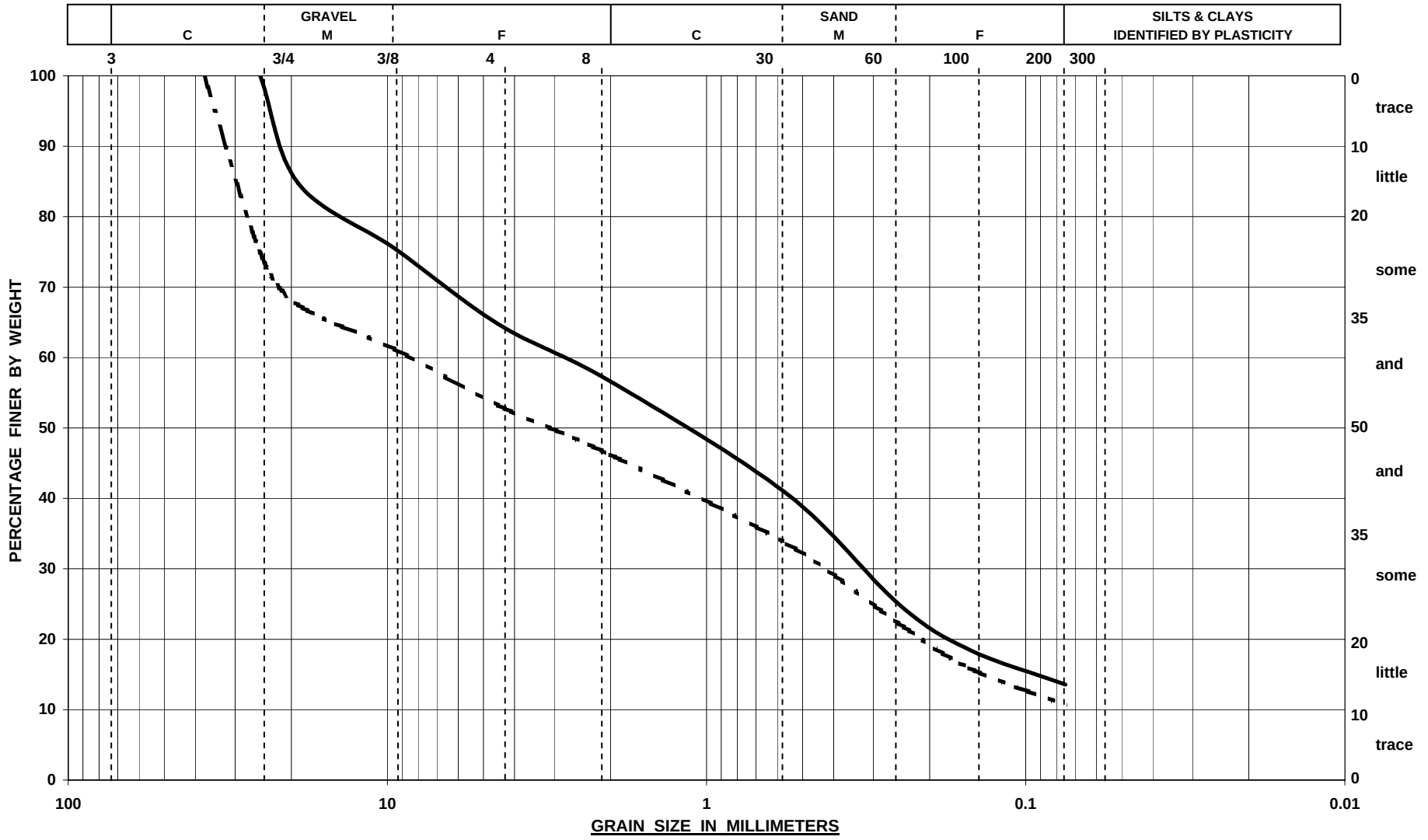
Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1						
			10		Br cf S, l $, l cf G	Rec = 19"
2		S-1	6			moist
			5		**Brown coarse to fine SAND, little Silt,**	
3			5		**little coarse to fine Gravel**	
			3			Rec = 15"
4		S-2	2		same, t $	moist
			1			
5			2		5'0"	
			6		Br cf S, t $	Rec = 18"
6		S-3	5			moist
			5			
7			7			
			8		same, t (-) f G	Rec = 16"
8		S-4	6			moist
			8			
9			5			
10						
			3		same	Rec = 16"
11		S-5	4			moist
			4			
12			8		**Brown coarse to fine Sand, trace Silt**	
13						
14						
15						
			4		same	Rec = 24"
16		S-6	5			moist/wet
			5			
17			6			
18						
19						
20						
			4		same	Rec = 20"
21		S-7	5			wet
			4			
22			9			

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-30
Project: The Glenmark, Main Street, Tuckahoe, NY		**SHEET NO.:** 2 of 2
Client: Midora/Glenmark Partners, LLC		**JOB NUMBER:** 12-14

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24						
25						
26		S-8	4 3	■	Br cf S, t $, t f G	Rec = 24" wet
27			3 3	■		
28						
29						
30						Rec = 20"
31		S-9	3 4	■	same	wet
32			3 7	■	**Brown coarse to fine SAND, trace Silt, trace fine Gravel**	
33						
34						
35						
36		S-10	5 5	■	same	Rec = 17" wet
37			7 15	■		
38						
39						
40						
41		S-11	5 7	■	same, t cf G	Rec = 20" wet
42			17 28	■		
43					43'0"	Auger refusal @ 43'0"
44					**End of Boring @ 43'0"**	
45						
46						
47						

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

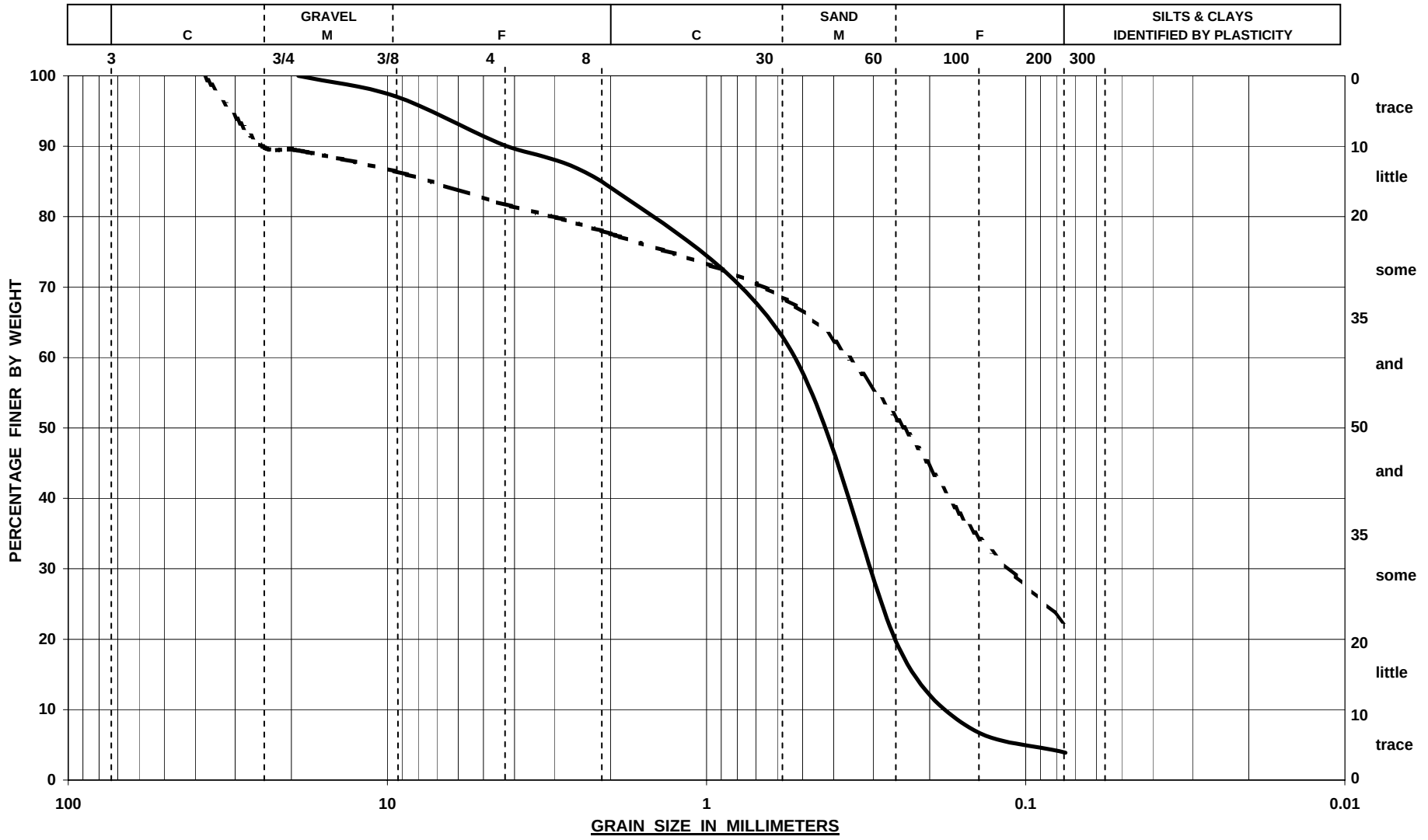


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-2	S-1	0' 0" - 2' 0"	FILL (Brown coarse to fine Sand, little Silt, and medium to fine Gravel)	6.6%
— -	B-9	S-1	1' 0" - 3' 0"	FILL (Brown gray coarse to fine GRAVEL and (+), coarse to fine Sand, little (-) Silt)	8.3%

PROJECT The Glenmark, Tuckahoe, New York **BY** JM **DATE** 25-Apr-12 **JOB NO** 12-14

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

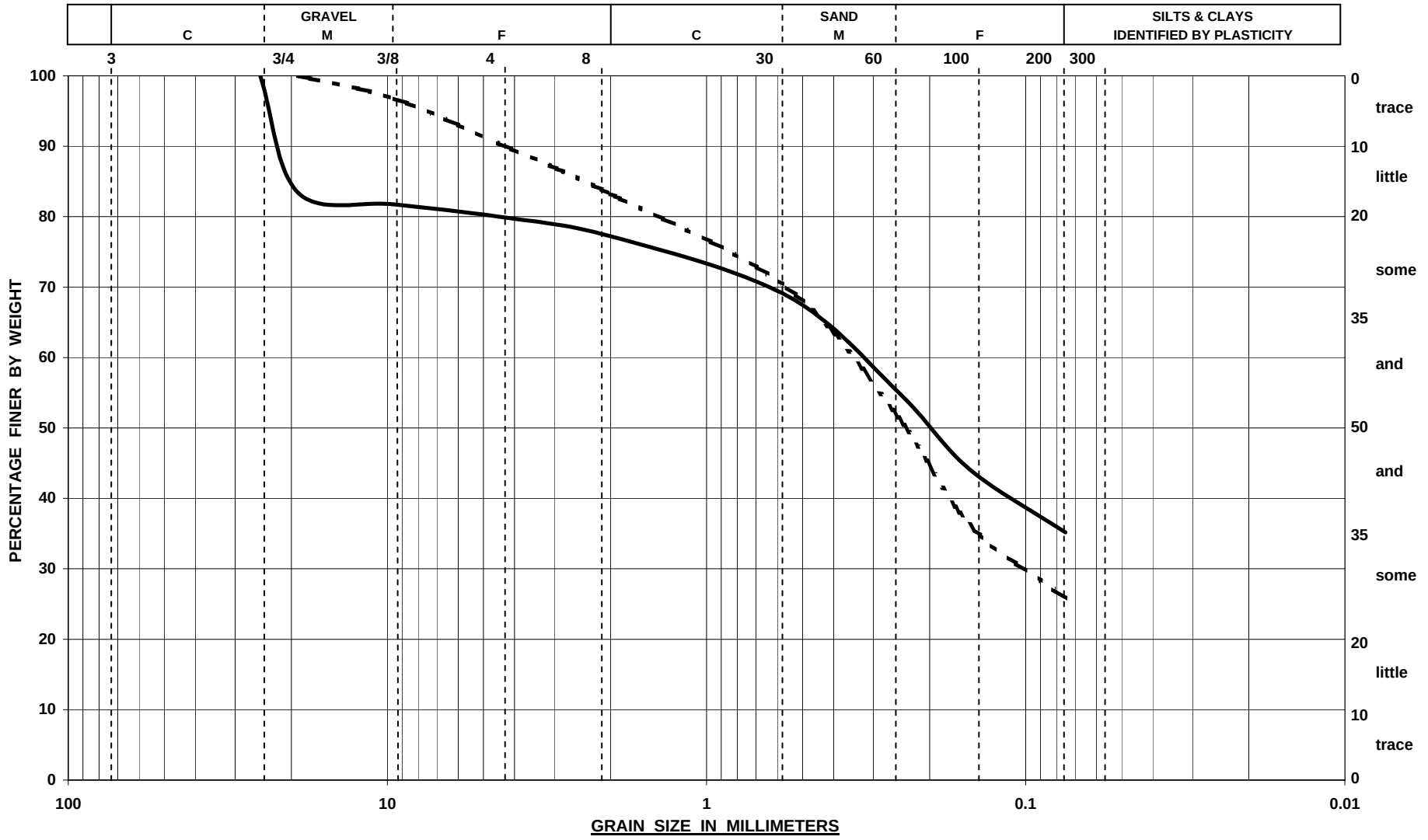


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-13	S-6	15' 0" - 17' 0"	Brown coarse to fine SAND, trace Silt, little medium to fine Gravel	12.0%
— -	B-16	S-2	3' 0" - 5' 0"	FILL (Brown coarse to fine SAND, some (-) Silt, some (-) coarse to fine Gravel)	13.2%

PROJECT The Glenmark, Tuckahoe, New York **BY** JM **DATE** 25-Apr-12 **JOB NO** 12-14

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

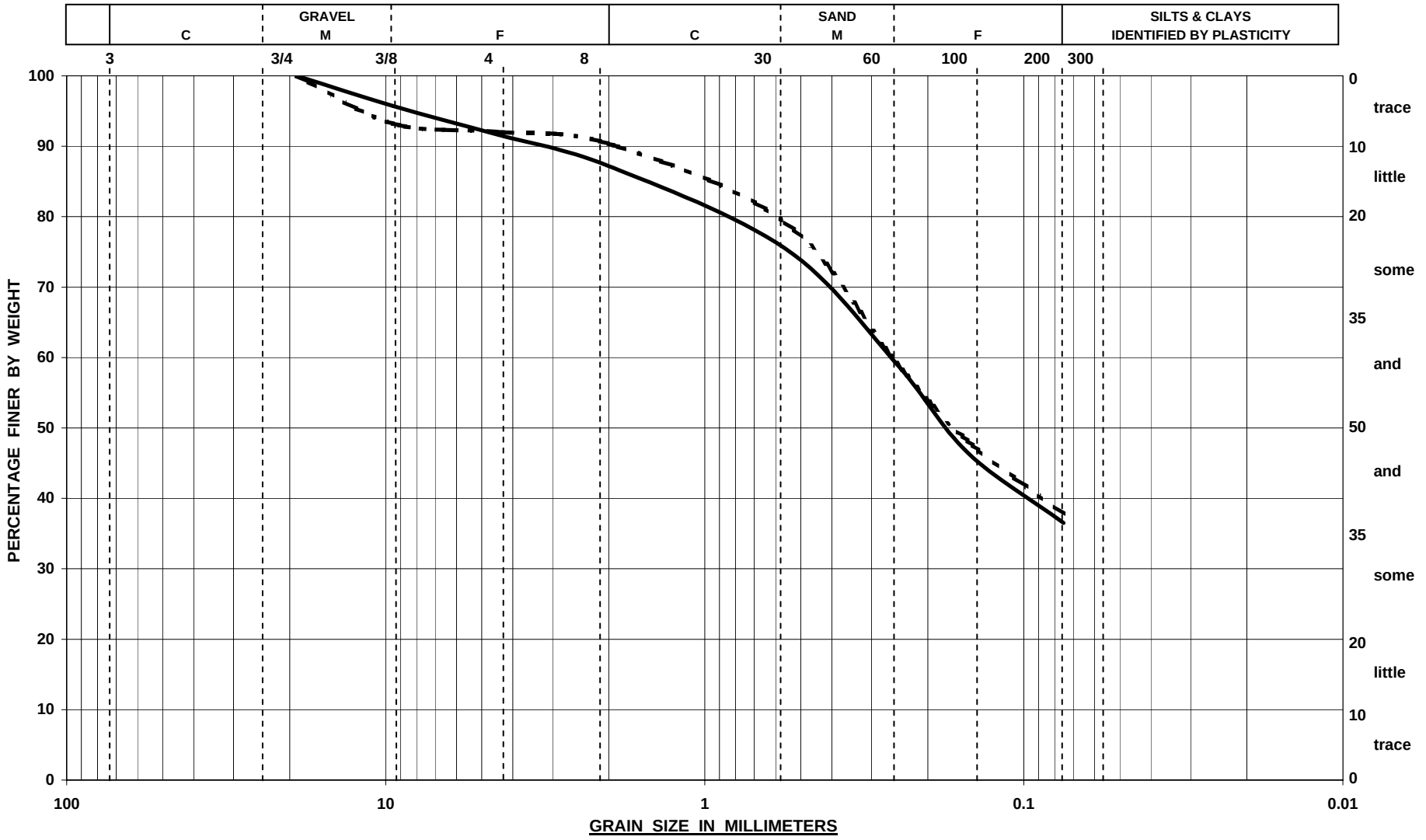


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-19	S-4	10' 0" - 12' 0"	FILL (Brown coarse to fine Sand, and (-) Silt, some (-) medium to fine Gravel)	17.4%
— -	B-20	S-3	15' 0" - 17' 0"	Brown coarse to fine SAND, some Silt, little medium to fine Gravel	9.5%

PROJECT The Glenmark, Tuckahoe, New York **BY** JM **DATE** 25-Apr-12 **JOB NO** 12-14

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

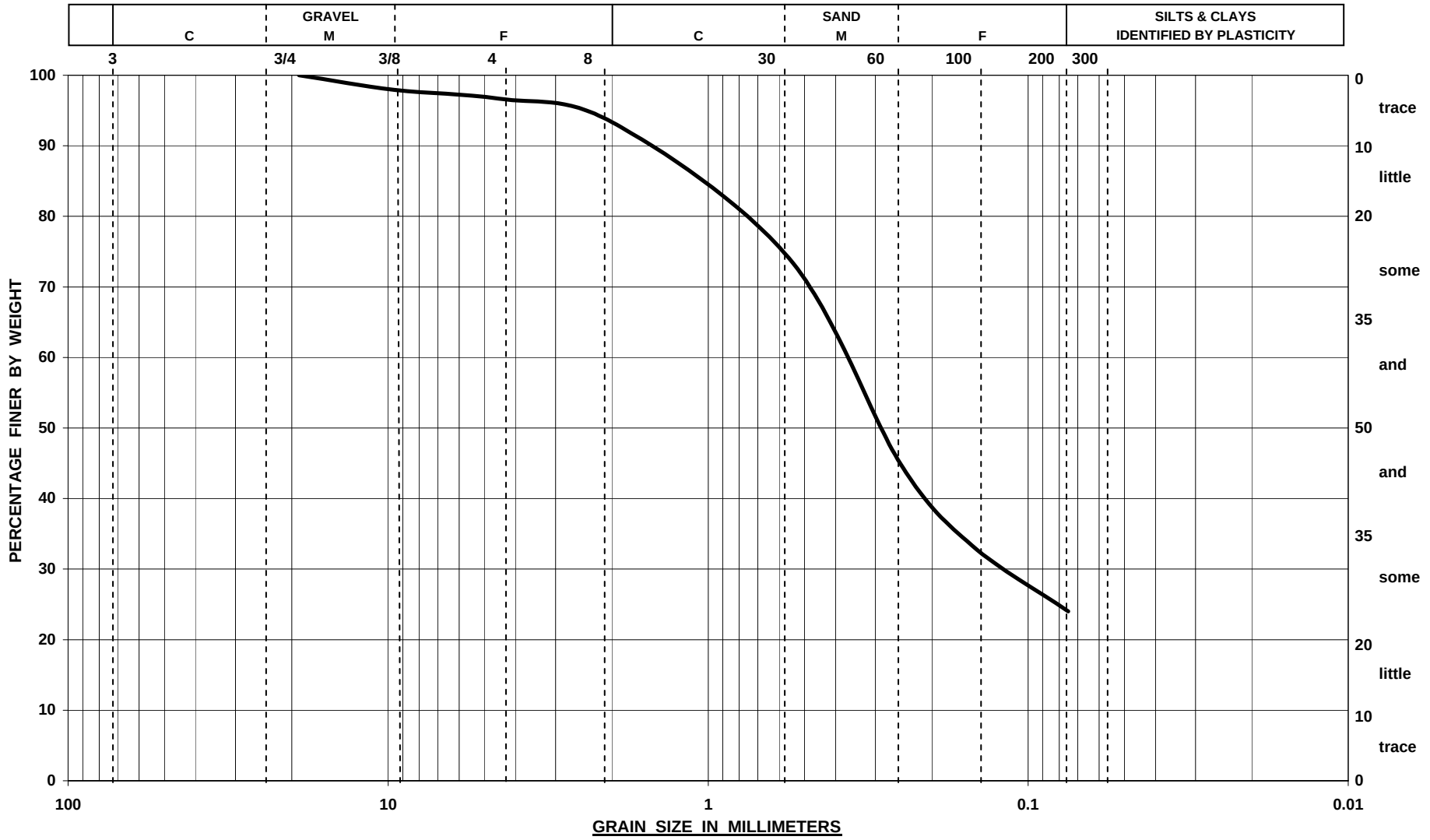


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-22	S-4	10' 0" - 12' 0"	Brown coarse to fine SAND, and (-) Silt, little (-) medium to fine Gravel	15.4%
— -	B-24	S-1	2' 0" - 4' 0"	FILL (Brown coarse to fine SAND, and (-) Silt, trace (+) medium to fine Gravel)	18.6%

PROJECT The Glenmark, Tuckahoe, New York **BY** JM **DATE** 25-Apr-12 **JOB NO** 12-14

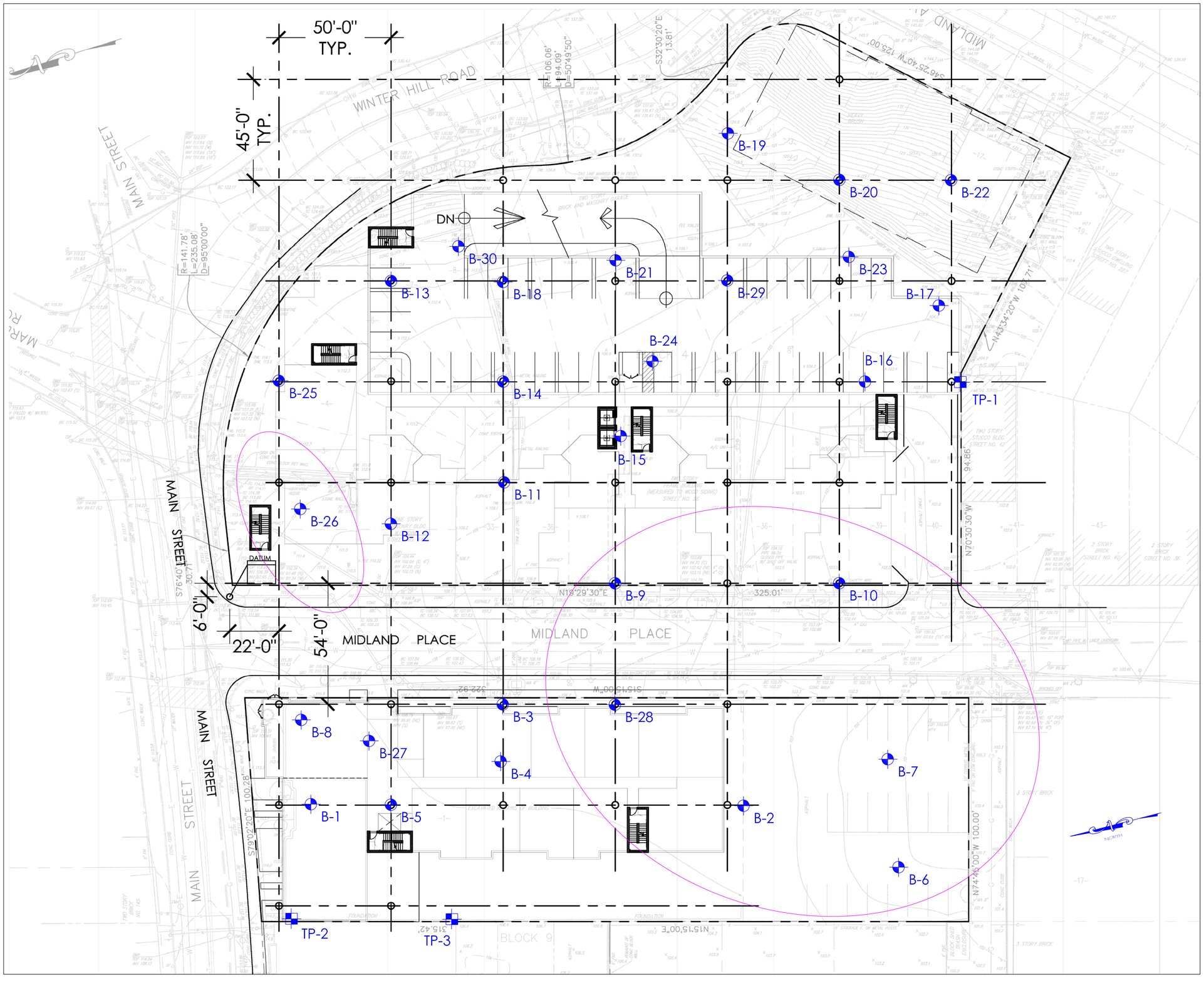
CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS



SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-28	S-3	8' 0" - 10' 0"	Brown coarse to fine SAND, some (-) Silt, trace medium to fine Gravel	19.4%

PROJECT The Glenmark, Tuckahoe, New York **BY** JM **DATE** 26-Apr-12 **JOB NO** 12-14



GENERAL NOTES:

1. GENERAL LAYOUT WAS OBTAINED FROM AN DRAWING PREPARED BY MINNO & WASKO, ENTITLED "SOIL BORING LOCATIONS", DATED 1-25-12.
2. BORING LOCATIONS WERE LAID OUT IN THE FIELD BY CARLIN-SIMPSON & ASSOCIATES (CSA).
3. BORINGS WERE PERFORMED BY GENERAL BORINGS INC. IN APRIL 2012 UNDER THE FULL TIME INSPECTION OF CSA.
4. TEST PITS WERE PERFORMED ON 19 APRIL 2012 UNDER THE FULL TIME INSPECTION OF CSA.
5. LOCATIONS ARE APPROXIMATE.

LEGEND:

- BORING LOCATION
- TEST PIT LOCATION
- APPROXIMATE LIMITS OF ORGANIC SILT AND/OR PEAT

ROBERT B. SIMPSON, P.E.
PROFESSIONAL ENGINEER

LICENSE NO. | SIGNATURE | DATE

BORING LOCATION PLAN

PROPOSED GLENMARK PROPERTY LLC
MIDLAND PLACE
TUCKAHOE, NEW YORK

DRAWN: RHB	SCALE: 1" = 20'
CHECKED: RBS	DATE: 29 MAY 2012
PROJECT NO.: 12-14	DWG NO.: FIG -1
APPROVED	

CARLIN-SIMPSON AND ASSOCIATES
61 Main Street
Sayreville, NJ 08872
Consulting Geotechnical and Environmental Engineers