



Known for excellence.  
Built on trust.

GEOTECHNICAL  
ENVIRONMENTAL  
ECOLOGICAL  
WATER  
CONSTRUCTION  
MANAGEMENT

27 Worlds Fair Drive  
Somerset, NJ  
08873  
T: 732-356-3400  
www.gza.com

April 8, 2025  
File No. 26.0093221.00

Mr. Anthony Kurus  
Neglia Engineering Associates  
34 Park Avenue, PO Box 426  
Lyndhurst, New Jersey 07071

**Re: Report Addendum  
Geotechnical Investigation  
Proposed Everett Park Site Improvements  
Verona, Essex County, New Jersey  
Neglia Engineering Associates**

Dear Mr. Kurus:

This letter serves as an addendum to the Geotechnical Investigation Report prepared by GZA GeoEnvironmental, Inc. (GZA) dated December 12, 2024 and transmits the results of updated test pit logs (TP-1 through TP-3) which was re-excavated on March 28, 2025 per Change Order No. 1, dated March 21, 2025 to obtain direct groundwater readings during the current wet season. This work was performed in general accordance with the procedures detailed in our above referenced report. The limitations provided in the same report apply to this addendum/transmittal

Our plot plan and updated test pit logs are attached. Groundwater seepage was observed in the re-excavated test pits at depths of approximately 7.5 to 10.5 feet below the existing ground surface, corresponding to approximately El. +434.5 to 437.5 feet. Chapter 12 of the NJDEP Stormwater BMP manual indicates that direct groundwater readings during the wet season can be considered the estimated seasonal high-water table (SHWT) if mottling is not observed. Therefore, it is our opinion that these encountered groundwater seepage depths/elevations should be considered the estimated SHWT for the proposed porous pavement area and should be taken into consideration when designing the facilities.

Please contact us if you have any questions regarding this information.

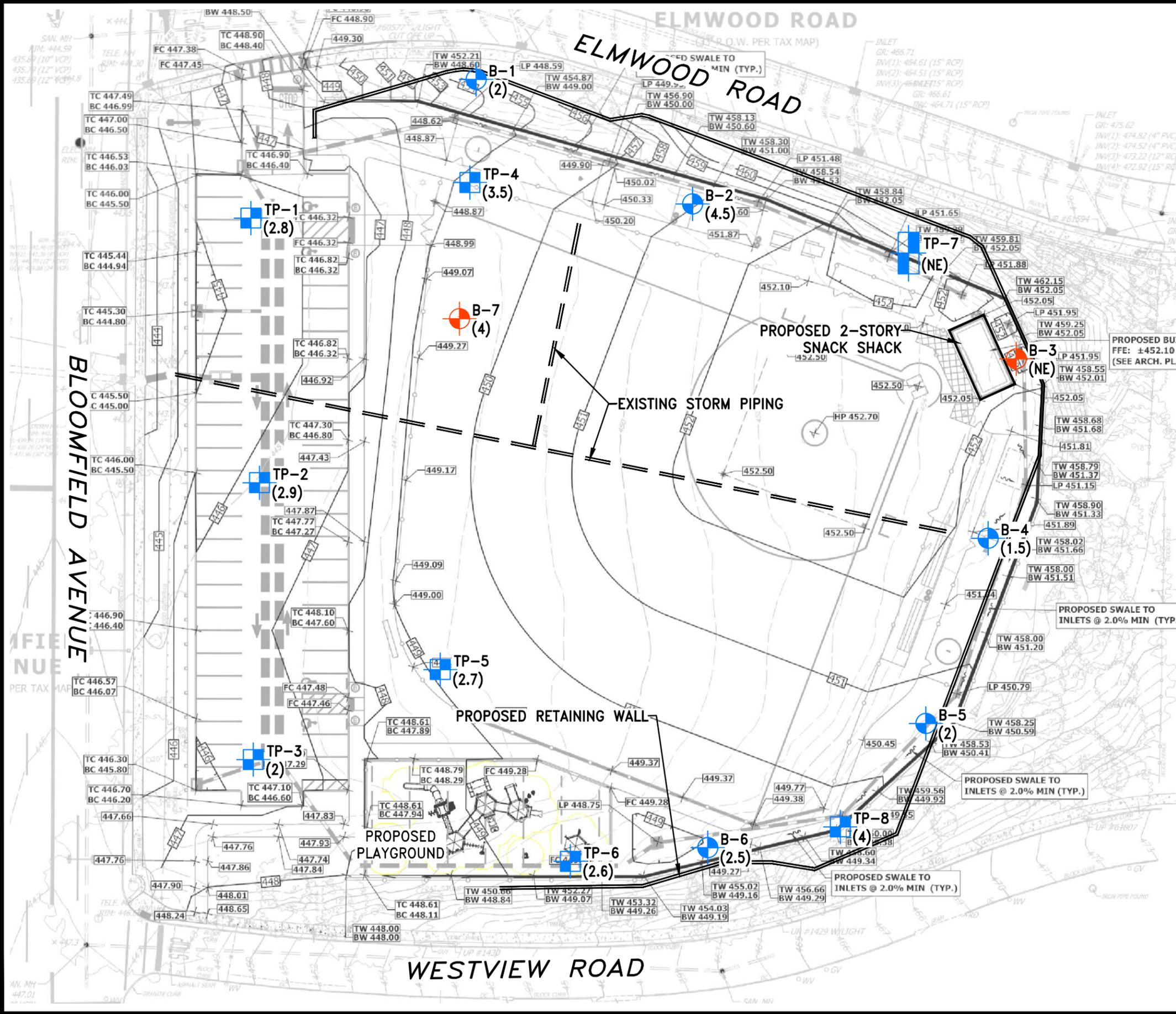
Respectfully submitted,  
GZA GeoEnvironmental, Inc.

Cory S. Karinja, P.E.  
Senior Project Manager

Kimberly A. Tully, P.E.  
Consultant Reviewer

Andrew Rizk, P.E.  
Associate Principal

Attachments: Plot Plan and Updated Test Pit Logs (TP-1 through TP-3)



**KEY:**

-  **B-1** NUMBER AND APPROXIMATE LOCATION OF BORINGS PERFORMED FOR THIS STUDY
-  **TP-1** NUMBER AND APPROXIMATE LOCATION OF TEST PITS PERFORMED FOR THIS STUDY
-  **B-3** NUMBER AND APPROXIMATE LOCATION OF BORINGS WITH ENVIRONMENTAL SOIL SAMPLING PERFORMED FOR THIS STUDY
- (2.8)** APPROXIMATE DEPTH IN FEET TO BOTTOM OF FILL BELOW THE EXISTING GROUND SURFACE

**NOTES:**

1. This drawing is part of GZA GeoEnvironmental, Inc. Report No. 26.0093221.00 and should be read together with the report for complete evaluation.
2. General layout was obtained from two drawings prepared by Neglia Eng., the first entitled "Grading Plan" dated November 2024, scale 1"= 30'.

<b>PLOT PLAN</b>				
<b>PROPOSED EVERETT PARK SITE IMPROVEMENTS VERONA, NEW JERSEY NEGLIA ENGINEERING ASSOCIATES</b>				
		<b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists <small>Known for excellence. Built on trust. www.gza.com</small>		
<b>JOB NO.</b> 26.0093221.00		<b>FILE NO.</b> -		
<b>DR. BY</b> VJD	<b>CHK. BY</b> CSK	<b>DATE</b> 11/25/24	<b>SCALE</b> 1"= 40'	<b>PLATE</b> 2

**TEST PIT LOG**



**GZA GeoEnvironmental, Inc.**  
Engineers and Scientists

**Neglia Engineering Associates**  
Proposed Everett Park Site Improvements  
Township of Verona, NJ

**EXPLORATION NO.:** TP-1  
**SHEET:** 1 of 1  
**PROJECT NO:** 26.0093221.00  
**REVIEWED BY:** Cory Karinja

**Logged By:** Cody Lynes/Kathy Nieves  
**Contractor:** Clear Ground/Advanced  
**Operator:** John/Scott

**Test Pit Location:** See Plan

**Final Test Pit Depth (ft.):** 10

**Ground Surface Elev. (ft.):** +445

**Date Start - Finish:** 11/15/2024 - 3/28/2025

**Type of Excavator:** Mini Excavator/Rubber-Tire Backhoe

**Groundwater Depth (ft.)**

**Excavator Model:** Kubota KX 057-5/Case 580 Super N

Date	Time	Water Depth	Stab. Time
11/15/24		NE	
3/28/25		7.5	*

Depth (ft)	Sample No.	Sample Depth (ft.)	Stratum Depth (in.)	Sample Description and Identification	Depth (ft)	Water Content (%)	Remark
1	S1, T1	1.5	0-9	Topsoil/Fill - Brown (10YR, 5/3) sandy loam, 10% gravel, weak medium crumb, slightly moist, firm, clear smooth boundary, many fine roots	1	19.8	
2			9-33	Fill - Brown (10YR, 4/3) sandy loam, 20% gravel, 10% cobbles, weak medium crumb, moist, firm, abrupt smooth boundary, common fine to medium roots	2		
3	S2, T2	3	33-78	Yellowish brown (10YR, 5/4) loam, 10% gravel, moderate medium crumb, moist, firm, gradual smooth boundary	3		
4					4		
5	S3, T3	7	78-120	Yellowish red (5YR, 5/6) sandy loam, 15% gravel, 10% cobbles, weak medium granular, moist, friable	5		
6					6		
7					7		
8					8		
9					9		
10				- refusal on cobbles	10		
11				End of exploration at 10 feet. Groundwater seepage not encountered on 11/15/24 Slight groundwater seepage encountered @ 7.5' on 3/28/25			
12				*The recorded groundwater level is the observed seepage in the excavation sidewall. Stabilized groundwater readings were not obtained.			
13							
14							
15							

**REMARKS**

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Plate No.: 4A**

**TEST PIT LOG**



**GZA GeoEnvironmental, Inc.**  
Engineers and Scientists

**Neglia Engineering Associates**  
Proposed Everett Park Site Improvements  
Township of Verona, NJ

**EXPLORATION NO.:** TP-2  
**SHEET:** 1 of 1  
**PROJECT NO:** 26.0093221.00  
**REVIEWED BY:** Cory Karinja

**Logged By:** Cody Lynes  
**Contractor:** Clear Ground/Advanced  
**Operator:** John/Scott

**Test Pit Location:** See Plan  
**Ground Surface Elev. (ft.):** +445

**Final Test Pit Depth (ft.):** 11  
**Date Start - Finish:** 11/15/2024 - 3/28/2025

**Type of Excavator:** Mini Excavator/Rubber-Tire Backhoe

**Groundwater Depth (ft.)**

**Excavator Model:** Kubota KX 057-5/Case 580 Super N

Date	Time	Water Depth	Stab.Time
11/15/24		10.5	*
3/28/25		10.5	*

Depth (ft)	Sample No.	Sample Depth (ft.)	Stratum Depth (in.)	Sample Description and Identification	Depth (ft)	Water Content (%)	Remark
1	S1, T1	1.5	0-12	Topsoil/Fill - Brown (10YR, 4/3) sandy loam, 15% gravel, weak medium crumb, moist, firm, clear smooth boundary, many fine roots	1	12.2	
2			12-35	Fill - Very dark grayish brown (10YR, 3/2) gravelly sandy loam, 25% gravel, weak medium granular, moist, firm, abrupt smooth boundary	2		
3	S2, T2	3	35-66	Yellowish brown (10YR, 5/4) sandy clay loam, weak fine subangular blocky, moist, friable, gradual smooth boundary	3		
4					4		
5	S3, T3	6	66-132	Dark reddish brown (5YR, 3/4) fine sandy loam, 20% gravel, weak fine crumb, moist, firm	5		
6					6		
7					7		
8					8		
9					9		
10					10		
11					11		
12				End of exploration at 11 feet. Slight groundwater seepage encountered @ 10.5' on 11/15/24 Moderate groundwater seepage encountered @ 10.5' on 3/28/25			
13				*The recorded groundwater level is the observed seepage in the excavation sidewall. Stabilized groundwater readings were not obtained.			
14							
15							

**REMARKS**

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Plate No.: 4B**

**TEST PIT LOG**



**GZA GeoEnvironmental, Inc.**  
Engineers and Scientists

**Neglia Engineering Associates**  
Proposed Everett Park Site Improvements  
Township of Verona, NJ

**EXPLORATION NO.:** TP-3  
**SHEET:** 1 of 1  
**PROJECT NO:** 26.0093221.00  
**REVIEWED BY:** Cory Karinja

**Logged By:** Cody Lynes  
**Contractor:** Clear Ground/Advanced  
**Operator:** John/Scott

**Test Pit Location:** See Plan  
**Ground Surface Elev. (ft.):** +446

**Final Test Pit Depth (ft.):** 11  
**Date Start - Finish:** 11/15/2024 - 3/28/2025

**Type of Excavator:** Mini Excavator/Rubber-Tire Backhoe

**Groundwater Depth (ft.)**

**Excavator Model:** Kubota KX 057-5/Case 580 Super N

Date	Time	Water Depth	Stab.Time
11/15/24		NE	
3/28/25		8.7	*

Depth (ft)	Sample No.	Sample Depth (ft.)	Stratum Depth (in.)	Sample Description and Identification	Depth (ft)	Water Content (%)	Remark
1	S1, T1	2	0-7	Topsoil/Fill - Brown (10YR, 5/3) sandy loam, 5% gravel, weak medium crumb, slightly moist, friable, clear smooth boundary, many fine roots	1	13.3	
2			7-24	Fill - Very dark grayish brown (10YR, 3/2) extremely gravelly loamy sand, 65% gravel, weak medium granular, moist, loose, abrupt smooth boundary, common fine to medium to coarse roots	2		
3			24-52	Yellowish brown (10YR, 5/4) fine sandy loam, moderate medium crumb, moist, firm, clear smooth boundary	3		
4				4			
5	S2, T2	5		Dark reddish brown (5YR, 3/4) fine sandy loam, 5% gravel, weak fine crumb, moist, friable	5		
6						6	
7						7	
8			52-132		8		
9					9		
10					10		
11					11		
12				End of exploration at 11 feet. Groundwater seepage not encountered on 11/15/24 Slight groundwater seepage encountered @ 8.7' on 3/28/25			
13				*The recorded groundwater level is the observed seepage in the excavation sidewall. Stabilized groundwater readings were not obtained.			
14							
15							

**REMARKS**

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

**Plate No.: 4C**