

MEMORANDUM

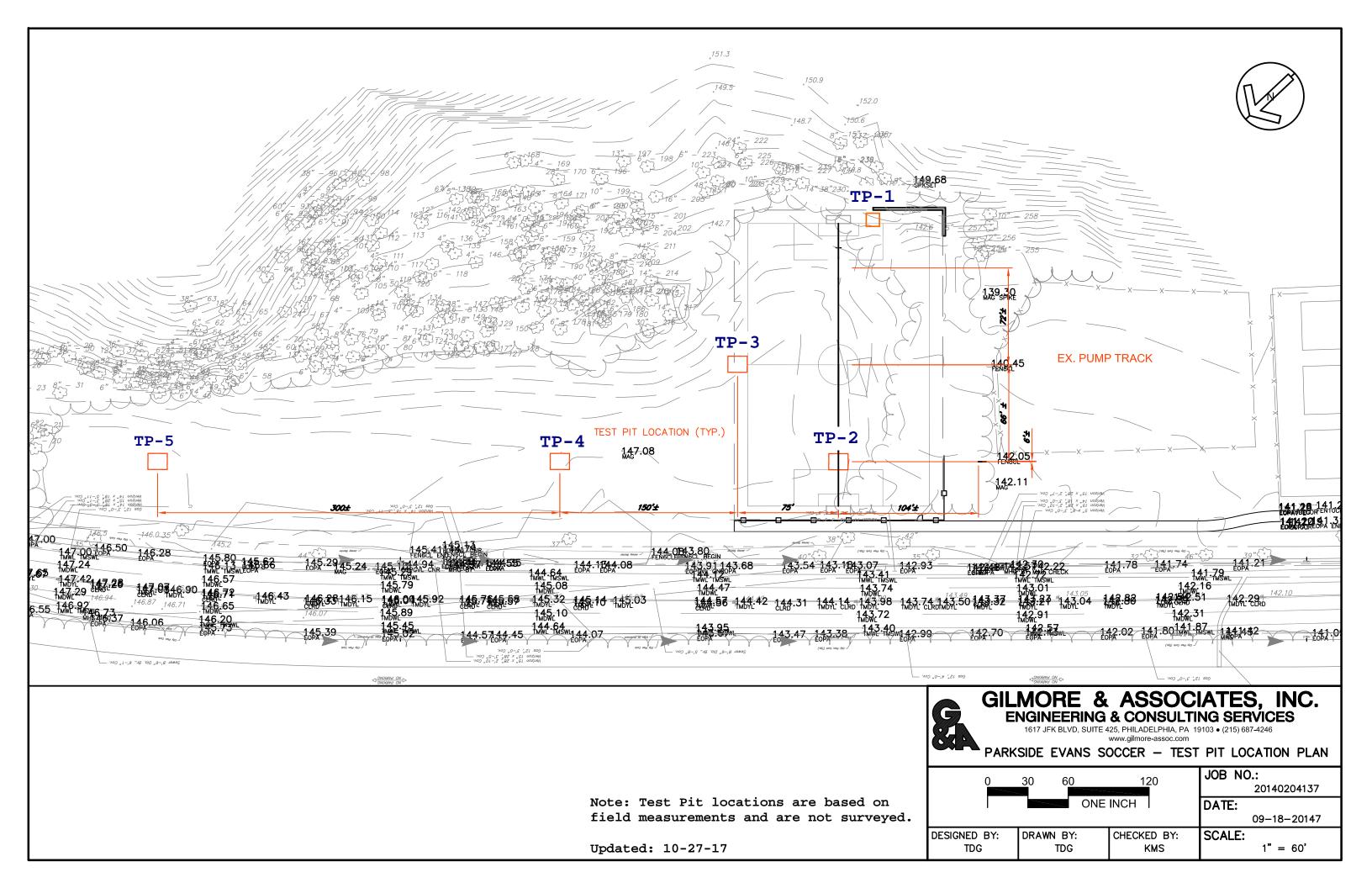
Date:	July 31, 2018
То:	Michael Swercewski
From:	Trevor Woodward, PG
cc:	Kevin Selger, RLA
Reference:	Parkside Soccer Field – Test Pit Evaluation 14-02041-37

This memorandum provides a summary of the test pit study performed at the Parkside Soccer Field site in October, 2017. A Test Pit Location Plan and Test Pit Logs are attached to this memorandum.

The test pit investigation was performed, primarily, to evaluate soil conditions and develop engineering parameters for the design of the proposed retaining wall that will support field construction. In addition, test pits were excavated to characterize the subsurface profile across the proposed improvement area. Based on site visits and a review of online historical aerial information, it was apparent that fill had previously been placed over a significant portion of the site.

Outside of the proposed wall location where the subsurface investigation encountered competent residual soils, four other test pits were excavated across the existing open area as shown on the attached plan. These test pits generally encountered a surface layer of fill with organics to approximately 5 or 6 feet followed by a historical fill layer comprised of ash that extended down to residual soils at approximately 10 or 11 feet. The fill and ash layers contained variable organics and miscellaneous debris materials. Construction of proposed field surfaces and other facilities within the fill area will need to consider the impact of these materials to structural support and performance.

If requested, we can review the proposed field section and other proposed improvements, and provide recommendations for controlling or managing settlement associated with the existing fill profile.



Gilmore & Associates, Inc. Engineering & Consulting Services 65 E. Butler Avenue, Suite 100 New Britain, PA 18901-5106			G&A Rep:C. FreerDate:10/2/17Weather:70's, Sunny			Test Pit Number: 1 (Page 1 of 1)			
	Pro	oject Information	Groundwater Readings				Excavation Information		
Project Name:Evans Soccer Field and TrailProject Number:14-0204137Location:Parkside Ave NorthMunicipality:PhiladelphiaCounty, State:Philadelphia, Pennsylvania		Time Depth Ground Su	DRY rface Elevation:	146'	Contractor: Ramos Operator: Mike Brennan Make: Case Case Capacity: Model: 580 Super L Reach: 12.00				
DEPTH (ft)	ELEV . 146	DESCRI	PTION		GROUI WATE NOTE	RE	EXCAV. EFFORT	REMARKS / SAMPLES	
0-	- 146	RESIDUA	LSOIL		DRY	,	E		
-	- 145	Light orange-brown fine to medium S	SAND, trace sill	t.	DRY		E		
-	- 144				DRY			Proposed Retaining Wall Location	
3-	- 143				DRY	,	E		
4	- 142			5.0'	DRY		E		
5	- 141				DRY	,	E		
6-	- 140	Light gray saprolitic fine to coarse SAND, some saprolitic gravel. 7.0'			DRY	,	E		
7-	- 139	Light orange-brown fine to coarse sa			DRY	,	E		
8-	- 138				DRY	,	E		
9-	- 137			10.0'	DRY		М		
10		Test Pit Terminated at 10.0' in Resid (Completly Weathered Schist)							
11-									
12-									
13-									
14									
15-									
16									
17									
18									
19— - 20—	- 12/								
CLASS The ma noun. 1 and oth	The secon	d major constituent are Adjective	e: 12-35%	(perce Trace: Little:	Constitue nt by we ∶1-12% 12-23% ∶23-34%	ight)		Excavation Effort E-Easy M-Moderate D-Difficult	

	Gilmore & Associates, Inc. Engineering & Consulting Services		G&A Rep: C. Freer Date: 10/2/17		Test Pit Number: 2					
	65 E. Butler Avenue, Suite 100 New Britain, PA 18901-5106		Weather:	70's, Su		,	(Page 1 of 1)			
	Project Information			Groundwater Readings			gs	Excavation Information		
		t Name:	Evans Soccer Field and Trail	Time				Contractor:	Ramos	
	Projec Locati		: 14-0204137 Parkside Ave North	Depth	DRY			Operator:	Mike Brennan	
	Munic	ipality:	Philadelphia	Ground Sur	rface Elevatior	n: 1	44'	Make: Case	. ,	
	Count	y, State:	Philadelphia, Pennsylvania					Model: 580	Super L Reach: 12.00'	
	DEPTH (ft)	ELEV.	DESCRIF	TION			GROUNI WATER NOTES	EFFORT	REMARKS / SAMPLES	
	-0	- 144	FILL Light orange to brown fine to coarse s		D. trace clav.		DRY	М		
	-	- 143	Strong brown fine to coarse sandy GF	·	1	1.5' 2.0'	DRY	D	Gravel consists of large pieces of	
	2-	- 142	Reddish brown clayey SILT and GRA			<u>-</u> 7	DRY	D	granite, crushed concrete, brick.	
bor	3-	- 141			3	3.5'			Large concrete boulder at 2.75'.	
\TP-2.I	- 4	1 - 140	Black organic rich clayey SILT.		4	4.0'	DRY	D		
t Logs'	-	- 139	Reddish brown silty fine to coarse SA gravel.	ND, some clay	y, some 4	4.5'/	DRY	E		
est Pi	-	-	White to gray ASH.			- '[DRY	E	Glass bottles present at 5.0'	
ECHVT	6-	- 138	White to gray Aon.			F	DRY	E	Ash consists of coal, slag, glass.	
\GEOT	7-	- 137				F	DRY	E		
ig Data	8-	- 136				ŀ	DRY	E		
Engineering Data/GEOTECH/Test Pit Logs/TP-2.bor	9-	- 135				-	DRY	E		
	10-	- 134				-				
nd Trail	- 11–	- 133			11	1.5'	DRY	М		
Field a	- 12-	- 132	RESIDUAI				DRY	D		
Soccer	- 13—	- 131	CLAY.			/				
vans S	-	- 130	Test Pit terminated at 12.0' in Residua (Completly Weathered Schist).	ai 2011						
side - E	-	-								
o-Park	15- -	- 129								
7- DPF	16- -	- 128								
020413	17-	- 127								
4\2014(18—	126								
S\201	19-	- 125								
OJECT	- 20 —									
10-27-2017 M:\PROJECTS\2014\20140204137- DPP-Parkside - Evans Soccer Field and Trai\07	The m noun. and ot	The secon	d major constituent are Adjective	12-35%	(pe Tra Littl	ercent ace: 1 ile: 12	onstituer t by weig -12% 2-23% 23-34%		Excavation Effort E-Easy M-Moderate D-Difficult	

Gilmore & Associates, Inc. Engineering & Consulting Services 65 E. Butler Avenue, Suite 100 New Britain, PA 18901-5106			G&A Rep:C. FreerDate:10/2/17Weather:70's, Sunny			/	Test Pit Number: 3 (Page 1 of 1)		
	Pro	pject Information	Grou	Groundwater Readings			Exca	vation Information	
Project Name:Evans Soccer Field and TrailProject Number:14-0204137Location:Parkside Ave NorthMunicipality:PhiladelphiaCounty, State:Philadelphia, Pennsylvania		Time Depth DRY Ground Surface Elevation: 14		Contractor: Operator: Make: Case Model: 580 S		Mike Brennan e Case Capacity:			
DEPTH (ft)	ELEV . 146	DESCRIF	PTION			GROUN WATER NOTES	EFFORT	REMARKS / SAMPLES	
-	- 146	FILL Light reddish brown fine to medium S		AVEL, some		DRY	M-D		
-	- 145	silť, trace clay.				DRY	D		
-	- 144	Light gray to white bands of saprolitic	 fine to coarse		.5'	DRY	VD	Granite boulders present at 2.0'	
_	- 143 - 142	interbedded with dark brown to gray s and GRAVEL.	ilty fine to coa	Irse SAND		DRY	D	Disak plastic fance at 2 75'	
-	- 142			5.	.0'	DRY	М	Black plastic fence at 3.75'	
-	- 140	Reddish brown clayey SILT and GRA	VEL.	6	.0'	DRY	М	Organics consist of tree debris	
-	- 139	Black organic rich layer (tree debris)				DRY	м	Brick present at 6.0'	
-	- 138		<u> </u>		.5'	DRY	м		
-	- 137	White to gray ASH				DRY	E		
- 10-	- 136			10.	.0'	DRY	M-D		
- 11—	- 135	RESIDUAI Dark brown silty fine to medium sapro		11.	0'	DRY	М		
- 12—	- 134	Test Pit terminated at 11.0' in Residua (Completly Weathered Schist).	al Soil		.•				
- 13—	- 133								
- 14 —	- 132								
- 15—	- 131								
16-	- 130								
- 17—	- 129								
18-	- 128								
19-	- 127								
20-								_	
The ma noun. ⁻ and oth	The secon	d major constituent are Adjective:	12-35%	(per Trac Little	cen ce: 1 e: 12	onstitue t by weig I-12% 2-23% 23-34%		<u>Excavation Effort</u> E-Easy M-Moderate D-Difficult	

Gilmore & Associates, Inc. Engineering & Consulting Services 65 E. Butler Avenue, Suite 100 New Britain, PA 18901-5106		G&A Rep Date: Weather:	ate: 10/2/17		Test Pit Number: 4 (Page 1 of 1)		
	Pro	oject Information	Groundwater Readings			Exca	vation Information
	t Name:	Evans Soccer Field and Trail	Time			Contractor:	
Locatio	on:	: 14-0204137 Parkside Ave North	Depth	DRY		Operator: Make: Case	Mike Brennan
Munici Count	pality: /, State:	Philadelphia Philadelphia, Pennsylvania	Ground Su	rface Elevation:	144'	Model: 580	' '
DEPTH (ft)	ELEV. 146	DESCRIF	PTION		GROUN WATE NOTE:	R EFFORT	REMARKS / SAMPLES
-	- 146	FILL Light brown GRAVEL and silty fine to		D.	DRY	M-D	
-	- 145				DRY	D	Brick present in gravel
2-	- 144			3.0'	DRY	VD	
3-	- 143	Black organic rich SILT.		<u>4.0'</u>		м	Organics consist of woodchips Chunk of asphalt present at 3.0'
4-	- 142	Reddish brown to gray clayey SILT.	hightly redox)	4.0_	DRY	м	
5-	- 141			5 001	DRY	м	
6-	- 140		<u> </u>	5.33'	DRY	M-E	Ash consists of brick, trash, glass bottles, slag, coal.
7—	- 139	White to gray ASH.			DRY	E	
8-	- 138				DRY	 	
9—	- 137					M	Glass bottles present at 9.5'
10-	- 136						Detels and a 441
11-	- 135	RESIDUAI		11.0'	DRY	M	Brick present to 11'
12-	- 134	Reddish brown to grayish brown claye Redox Present.		fine sand. 11.5		•	
13-	- 133	Test Pit terminated at 11.5' in Residua (Completly Weathered Schist).	al Soil				
- 14	- 132						
- 15—	- 131						
16-	- 130						
17-	- 129						
- 18-	- 128						
- 19-	- 127						
- 20 -							
CLASS The ma noun.	The secon	tuent is the principal (percent to d major constituent Trace: 1- constituents are Adjective	: 12-35%	(perce Trace: Little:	Constitue nt by wei 1-12% 12-23% 23-34%	ght)	Excavation Effort E-Easy M-Moderate D-Difficult

	E 6	nore & Associates, Inc. Engineering & Consulting Services 5 E. Butler Avenue, Suite 100 Jew Britain, PA 18901-5106	G&A Rep:C. FreerDate:10/2/17Weather:70's, Sunny			Test Pit Number: 5 (Page 1 of 1)			
	Pro	oject Information	Groun	Groundwater Readings			Excavation Information		
-		Parkside Ave North Philadelphia	Time Depth Ground Surf	DRY	144'	Contractor: Operator: Make: Case	Mike Brennan e Case Capacity:		
County	/, State:	Philadelphia, Pennsylvania				Model: 580	Super L Reach: 12.00'		
DEPTH (ft)	ELEV . 146	DESCRIF	PTION		GROUN WATE NOTE	R EFFORT	REMARKS / SAMPLES		
-	- 146 - 145	FILI		SILT and	DRY	E			
-	- 144	GRAVEL, trace clay.			DRY	E	Granite boulders present at 2.0'		
$\begin{array}{c} & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$	- 143			4.01	DRY DRY	Е М			
-	- 142	Black organics (straw and hay) SILT, Reddish brown fine sandy SILT, trace			DRY	М	Black mesh fence at 3.75'		
-	- 141 - 140	White to gray ASH.		5.33'_	DRY	М	-		
7-	- 139				DRY DRY	E	Ash consists of brick, trash, glass bottles, slag, coal.		
8	- 138				DRY	E	-		
9 - 10	- 137 - 136				DRY	E			
11-		RESIDUA		11.0'	DRY	M			
- 12		Reddish orange to brown SILT, little of Test Pit terminated at 11.5' in Residu (Completly Weathered Schist).	clay trace fine sa	and. 11.5'/	,		1		
13— - 14—	- 133 - 132	(· · · · · · · · · · · · · · · · · · ·							
- 15—									
- 16	- 130								
17 — - 18 —									
18									
20 -									
The manoun.	The secon	tuent is the principal (percent l d major constituent Trace: 1- constituents are Adjective	: 12-35%	(percer Trace: Little: 1		ght)	Excavation Effort E-Easy M-Moderate D-Difficult		