

APPENDIX A

SOIL BORING AND MONITORING WELL LOGS AND LOW FLOW SAMPLING DATA

[illegible]

Project:						HRP ASSOCIATES, INC.			Test Boring/Monitor Well ID: P-2						
Location: 251 Walsh Avenue, New Windsor, NY						DRILLING LOG									
HRP# DEC1018.P3									Sheet No. 1 of 1						
						Rig Type: 6610DT									
Date: 9/15/2021						Hammer (weight [lb] / fall [inches])			Driller: Soil Testing						
HRP Rep. Kristen Amedeo and Ali LeMay										Casing	Sampler	Core Barrel			
Ground Elevation:						PROPORTIONS			Type						
Total Boring Depth: 25'						trace: 0 to 10%	some: 20 to 35%	O.D. (inch)							
Depth to Bedrock:						little: 10 to 20%	and: 35 to 50%	I.D. (inch)							
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)				PID (ppm)		Soil Sample Details				
									Depth (ft)	Reading	Interval (ft)	Sample Time			
5		5'	GP	0.0	Black GRAVEL and fine SAND, trace brick				0 - 2	0.0	0 - 2	9:55			
	GP		0.5	Brown GRAVEL and medium to coarse SAND, trace clay											
	CH		1.0	Reddish brown CLAY, some gravel, trace medium to coarse sand											
			CH	2.5	Reddish brown CLAY, some gravel, some medium to coarse sand				3 - 5	0.0					
			SC	3.5	Brown CLAY and fine SAND, some gravel										
	10		3.5'	GP	5.0	Grey stone, some brown medium sand				5 - 7	0.0				
		SW		5.5	Brown medium to coarse SAND, some gravel										
		SP		6.0	Brown coarse SAND and medium to coarse GRAVEL										
		SW		7.0	Brown medium to coarse SAND, little gravel										
									8 - 10	0.0					
15		5'	SW	10.0	Brown fine to coarse SAND, little gravel				10 - 12	0.0					
			SM	11.5	Brown fine SAND and SILT				13 - 15	0.0					
			GC	12.0	Brown CLAY and GRAVEL										
		ML	14.0	Grey SILT and CLAY, little gravel				15 - 17	0.0						
20		5'	ML	15.0	Grey SILT and CLAY, some coarse sand, little gravel				18 - 20	0.0					
			SW	16.0	Grey brown medium to coarse SAND, some silt, trace gravel				20 - 22	0.0					
			SM	16.5	Brown fine SAND and SILT, little gravel										
25		2'	SW	20.0	Grey medium to coarse SAND, some silt, some gravel				22 - 24	0.0					
	End of Boring 25'														
Monitoring Well Details															
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size						
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler							
CH (Fat Clay) SC (Clayey Sand)					from	to	Material	Cohesionless Density		Cohesive Consistence					
CL (Lean Clay) SM (Silty Sand)								# Blows/ft	Desc.	# Blows/ft	Desc.				
GC (Clayey Gravel) SP (Poorly-Graded Sand)								0-4	very loose	0-2	very soft				
GM (Silty Gravel) SW (Well-Graded Sand)								5-9	loose	3-4	soft				
GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity)								10-29	medium dense	5-8	medium stiff				
GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity)								30-49	dense	9-15	stiff				
MH (Elastic Silt) PT (Highly Organic Soil/Peat)								50+	very dense	16-30	very stiff				
ML (Silt)										31+	hard				

Project:		HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-3							
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG				Sheet No. 1 of 1							
HRP# DEC1018.P3													
		Rig Type: 6610DT											
Date: 9/15/2021		Hammer (weight [lb] / fall [inches])				Driller: Soil Testing							
HRP Rep. Kristen Amedeo and Ali LeMay							Casing	Sampler	Core Barrel				
Ground Elevation:		PROPORTIONS				Type							
Total Boring Depth: 15'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)							
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)							
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details					
						Depth (ft)	Reading	Interval (ft)	Sample Time				
5		3.5'	SP	0.0	Dark brown coarse SAND and GRAVEL, little organics	0 - 2 2 - 3.5	0.0 0.0	0 - 3	9:17				
			SP	1.0	Brown fine to coarse SAND and GRAVEL								
			SC	2.0	Dark brown CLAY and coarse SAND, some gravel								
		2'	GC	5.0	Dark brown CLAY and GRAVEL, little medium to coarse sand	5 - 7	0.0						
			CH	5.5	Brown grey CLAY, little gravel								
			CH	6.0	Brown CLAY, some gravel								
			GW	6.5	Grey stone								
	10		4'	SC	10.0	Brown CLAY and fine SAND, some gravel	8 - 10	0.0					
		SC		12.0	Brown grey CLAY and fine SAND, some gravel	12 - 14					0.0	12 - 14	9:30
		SC		13.0	Grey CLAY and fine SAND, little gravel								
15					End of Boring 15'								
Monitoring Well Details													
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size				
SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler						
CH (Fat Clay) SC (Clayey Sand)				from	to	Material	Cohesionless Density		Cohesive Consistence				
CL (Lean Clay) SM (Silty Sand)							# Blows/ft	Desc.	# Blows/ft	Desc.			
GC (Clayey Gravel) SP (Poorly-Graded Sand)							0-4	very loose	0-2	very soft			
GM (Silty Gravel) SW (Well-Graded Sand)							5-9	loose	3-4	soft			
GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity)							10-29	medium dense	5-8	medium stiff			
GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity)							30-49	dense	9-15	stiff			
MH (Elastic Silt) PT (Highly Organic Soil/Peat)							50+	very dense	16-30	very stiff			
ML (Silt)									31+	hard			

Project:					HRP ASSOCIATES, INC.					Test Boring/Monitor Well ID: P-4											
Location: 251 Walsh Avenue, New Windsor, NY					DRILLING LOG					Sheet No. 1 of 1											
HRP# DEC1018.P3																					
					Rig Type: 6610DT																
Date: 9/15/2021					Hammer (weight [lb] / fall [inches])					Driller: Soil Testing											
HRP Rep. Kristen Amedeo and Ali LeMay										Casing Sampler Core Barrel											
Ground Elevation:					PROPORTIONS					Type											
Total Boring Depth: 15'					trace: 0 to 10%		some: 20 to 35%			O.D. (inch)											
Depth to Bedrock:					little: 10 to 20%		and: 35 to 50%			I.D. (inch)											
Sampler Depth interval (ft)		Sampler Blows per 6"		Recovery (soil-ft / rock-%)		Soil Type		Contact Interval (ft)		Soil/Rock Description (proportions, grain size, etc.)				PID (ppm)		Soil Sample Details					
														Depth (ft)		Reading		Interval (ft)		Sample Time	
5		3'		SP		0.0		Grey brown fine to medium SAND and GRAVEL, little clay				0 - 2		0.0		0 - 3		15:35			
				GW SP		2.0		Grey white stone				2 - 4		0.0							
						2.2		Brown fine to medium SAND and GRAVEL, some clay													
		3'		GC		5.0		Brown to dark brown CLAY and GRAVEL, some fine sand				5 - 6		0.0							
				GW GC		7.0		White stone				6 - 7		0.0							
						7.2		Brown CLAY and GRAVEL, some fine sand				7 - 9		0.0							
		10		3.5'		GW		10.0		Brown GRAVEL, some fine sand, trace clay				10 - 12		0.0					
						SW		12.0		Brown fine to coarse SAND, trace gravel				12 - 14		0.0					
								CH		13.0		Brown CLAY, some fine to medium sand, trace gravel									
				3'		GC		15.0		Brown CLAY and GRAVEL, some fine to medium sand				15 - 17		0.0					
						SW		16.3		Brown fine to coarse SAND, little gravel, trace clay				17 - 18		0.0					
								Refusal at 18'						18 - 20		15:50					
20																					
25																					

Monitoring Well Details									
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb/30" on 2" O.D. sampler				
CH (Fat Clay) CL (Lean Clay) GC (Clayey Gravel) GM (Silty Gravel) GP (Poorly-Graded Gravel) GW (Well-Graded Gravel) MH (Elastic Silt) ML (Silt)		SC (Clayey Sand) SM (Silty Sand) SP (Poorly-Graded Sand) SW (Well-Graded Sand) OH (Organic Clay/Silt of High Plasticity) OL (Organic Clay/Silt of Low Plasticity) PT (Highly Organic Soil/Peat)		from	to	Material	Cohesionless Density		Cohesive Consistence		
								# Blows/ft	Desc.	# Blows/ft	Desc.
								0-4	very loose	0-2	very soft
								5-9	loose	3-4	soft
								10-29	medium dense	5-8	medium stiff
								30-49	dense	9-15	stiff
								50+	very dense	16-30	very stiff
						31+	hard				

Project:		HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-5						
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG				Sheet No. 1 of 1						
HRP# DEC1018.P3												
		Rig Type: 6610DT										
Date: 9/15/2021		Hammer (weight [lb] / fall [inches])				Driller: Soil Testing						
HRP Rep. Kristen Amedeo and Ali LeMay							Casing	Sampler	Core Barrel			
Ground Elevation:		PROPORTIONS				Type						
Total Boring Depth: 18.5'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)						
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)						
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details				
						Depth (ft)	Reading	Interval (ft)	Sample Time			
5		3'	SP	0.0	Brown fine to medium SAND and GRAVEL, little clay	0 - 2	0.0	0 - 3	14:25			
			GW CH	2.0	Grey stone	2 - 4	0.0					
				2.3	Brown CLAY, trace gravel							
		3.5'	SP	5.0	Brown fine to medium SAND and GRAVEL, some clay	5 - 6	0.0					
			GW SP	1.8	Black gravel	6 - 8	0.0					
				1.9	Brown fine to medium SAND and GRAVEL, some clay							
				8.0	Brown CLAY and GRAVEL, some fine to medium sand					8 - 10	0.0	
	10		5'	GW	10.0	Brown GRAVEL, some clay	10 - 12			0.0		
				CH	11.0	Brown CLAY, some gravel, some fine sand	12 - 13			0.0	12 - 14	14:50
				SP	12.0	Brown coarse SAND and GRAVEL, little clay						
		SW		13.0	Brown medium to coarse SAND, little gravel, trace clay	14 - 15	0.0					
15		3.5'	SW	15.0	Brown medium to coarse SAND, little gravel	15 - 17	0.0					
			GC	18.0	Light brown CLAY and GRAVEL, little fine sand	17 - 18.5	0.0					
					Refusal at 18.5'							
20												
25												
Monitoring Well Details												
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size			
SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler					
CH (Fat Clay) SC (Clayey Sand) CL (Lean Clay) SM (Silty Sand) GC (Clayey Gravel) SP (Poorly-Graded Sand) GM (Silty Gravel) SW (Well-Graded Sand) GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity) GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity) MH (Elastic Silt) PT (Highly Organic Soil/Peat) ML (Silt)				from	to	Material	Cohesionless Density		Cohesive Consistence			
							# Blows/ft	Desc.	# Blows/ft	Desc.		
							0-4	very loose	0-2	very soft		
							5-9	loose	3-4	soft		
							10-29	medium dense	5-8	medium stiff		
							30-49	dense	9-15	stiff		
							50+	very dense	16-30	very stiff		
						31+	hard					

Project:						HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-6							
Location: 251 Walsh Avenue, New Windsor, NY						DRILLING LOG											
HRP# DEC1018.P3										Sheet No. 1 of 1							
						Rig Type: 6610DT											
Date: 9/16/2021						Hammer (weight [lb] / fall [inches])				Driller: Soil Testing							
HRP Rep. Carolyn Izzo and Ali LeMay										Casing		Sampler		Core Barrel			
Ground Elevation:						PROPORTIONS				Type							
Total Boring Depth: 17.5'						trace: 0 to 10%		some: 20 to 35%		O.D. (inch)							
Depth to Bedrock:						little: 10 to 20%		and: 35 to 50%		I.D. (inch)							
Sampler Depth interval (ft)		Sampler Blows per 6"		Recovery (soil-ft / rock-%)		Soil Type		Contact Interval (ft)		Soil/Rock Description (proportions, grain size, etc.)				PID (ppm)		Soil Sample Details	
														Depth (ft)		Reading	
5		3'		SW GW SP GW SC GW SC		0.0		Black fine to medium SAND, some gravel				0 - 1		0.0		0 - 3 9:30	
						0.5		Grey stone									
						0.7		Brown and tan coarse SAND and GRAVEL, some fine to medium sand									
						1.0		Pink and tan sandstone									
				1.2		Brown fine to medium SAND and CLAY, some gravel				2 - 3		0.0					
				2.0		Grey stone											
				2.2		Brown fine to medium SAND and CLAY, little gravel											
				2.5'		SP GW SM		5.0		Brown fine to medium SAND and GRAVEL				5 - 7			
		5.5						Grey stone									
		5.7						Grey fine SAND and SILT, little clay				7 - 8		0.0			
		5'				SM SM		10.0		Brown and grey fine SAND and SILT, trace gravel				10 - 12		0.0	
								10.5		Grey and brown fine SAND and SILT							
								12.0		Brown fine SAND and GRAVEL							
								12.5		Grey CLAY, little silt, trace gravel				13 - 15		0.0	
				CH CH													
15.0						Brown and grey SILT and CLAY, trace gravel				15 - 16		0.0					
16.3						Grey SILT and CLAY, little gravel				16 - 17		0.0					
						Refusal at 17.5'											
20		2.5'															
25																	

Monitoring Well Details									
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler									
CH (Fat Clay)				SC (Clayey Sand)			from		to		Material		Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)				SM (Silty Sand)									# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)				SP (Poorly-Graded Sand)									0-4	very loose	0-2	very soft
GM (Silty Gravel)				SW (Well-Graded Sand)									5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)				OH (Organic Clay/Silt of High Plasticity)									10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)				OL (Organic Clay/Silt of Low Plasticity)									30-49	dense	9-15	stiff
MH (Elastic Silt)				PT (Highly Organic Soil/Peat)									50+	very dense	16-30	very stiff
ML (Silt)															31+	hard

Project:		HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-7					
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG				Sheet No. 1 of 1					
HRP# DEC1018.P3											
		Rig Type: 6610DT									
Date: 9/16/2021		Hammer (weight [lb] / fall [inches])				Driller: Soil Testing					
HRP Rep. Carolyn Izzo and Ali LeMay							Casing	Sampler	Core Barrel		
Ground Elevation:		PROPORTIONS				Type					
Total Boring Depth: 25'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)					
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)					
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details			
						Depth (ft)	Reading	Interval (ft)	Sample Time		
5		3.5	SW	0.0	Brown fine SAND, some clay, little organics, trace gravel	0 - 1	0.0	0 - 3	11:45		
	GC		0.5	Brown CLAY and GRAVEL, some fine to medium sand, fill							
	CH		3.0	Brown CLAY, some gravel, some fine to medium sand							
	2.5'	CH	5.0	SAA	5 - 6	0.0					
		GW	5.5	Brown CLAY, little gravel, trace fine to medium sand							
		GW	6.0	Black GRAVEL	6 - 7	0.0					
		GP	6.2	Grey stone							
		10		4'	SP	10.0	Brown fine SAND, some gravel, little clay			10 - 12	0.0
	SC		11.0								
4'	GP		15.0		SAA	15 - 17	0.0				
								GP	17.0	Brown fine SAND and GRAVEL, some medium to coarse sand	
	5'		SC	20.0	Brown fine SAND and CLAY, some gravel	20 - 22	0.0				
								SP	22.5	Brown fine SAND and GRAVEL, little clay	
25							End of Boring 25'				
Monitoring Well Details											
from	to		Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size	
SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler				
CH (Fat Clay)				SC (Clayey Sand)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)				SM (Silty Sand)				# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)				SP (Poorly-Graded Sand)				0-4	very loose	0-2	very soft
GM (Silty Gravel)				SW (Well-Graded Sand)				5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)				OH (Organic Clay/Silt of High Plasticity)				10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)				OL (Organic Clay/Silt of Low Plasticity)				30-49	dense	9-15	stiff
MH (Elastic Silt)				PT (Highly Organic Soil/Peat)				50+	very dense	16-30	very stiff
ML (Silt)										31+	hard

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-8			
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1			
HRP# DEC1018.P3										
			Rig Type: 6610DT							
Date: 9/16/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing			
HRP Rep. Carolyn Izzo and Ali LeMay							Casing Sampler Core Barrel			
Ground Elevation:			PROPORTIONS				Type			
Total Boring Depth: 13.5'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)			
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)			

Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details		
						Depth (ft)	Reading	Interval (ft)	Sample Time	
5		3'	GW	0.0	Dark brown GRAVEL, little fine sand, trace organics	0 - 2	0.0	0 - 3	8:50	
	SP		0.5	Brown fine to medium SAND and GRAVEL, little clay						
	SP		1.5	Brown fine to medium SAND and GRAVEL, some clay	2 - 4	0.0				
	5		3'	SP	5.0	Brown fine to medium SAND and GRAVEL, little clay	5 - 6			0.0
				GP	5.5	White and grey stone, little fine to medium sand				
				CH	6.0	Brown CLAY, little gravel	6 - 8			0.0
				SC	7.0	Brown fine to medium SAND and CLAY, little gravel				
				10		2.6'	GC			10.0
CH	11.0	Grey brown CLAY, some gravel								
GC	11.5	Brown CLAY and GRAVEL, some fine sand	11.5 - 13.5				0.0			
15								Refusal at 13.5'		
20										
25										

DRAFT

Monitoring Well Details									
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	SC (Clayey Sand)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)	SM (Silty Sand)				# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)	SP (Poorly-Graded Sand)				0-4	very loose	0-2	very soft
GM (Silty Gravel)	SW (Well-Graded Sand)				5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)	OH (Organic Clay/Silt of High Plasticity)				10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)	OL (Organic Clay/Silt of Low Plasticity)				30-49	dense	9-15	stiff
MH (Elastic Silt)	PT (Highly Organic Soil/Peat)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

[illegible]

[illegible]

Project:						HRP ASSOCIATES, INC.																							
Location: 251 Walsh Avenue, New Windsor, NY						DRILLING LOG																							
HRP# DEC1018.P3																													
						Rig Type: 6610DT																							
Date: 9/16/2021						Hammer (weight [lb] / fall [inches])																							
HRP Rep. Carolyn Izzo and Ali LeMay						Driller: Soil Testing																							
						Type	Casing	Sampler	Core Barrel																				
Ground Elevation:						PROPORTIONS																							
Total Boring Depth: 19.5'						trace: 0 to 10%	some: 20 to 35%		O.D. (inch)																				
Depth to Bedrock:						little: 10 to 20%	and: 35 to 50%		I.D. (inch)																				
Sampler Depth interval (ft) 					Sampler Blows per 6" 					Recovery (soil-ft / rock-%) 					Soil Type		Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)						PID (ppm)		Soil Sample Details			
																								Depth (ft)	Reading	Interval (ft)	Sample Time		
5					4'					CH		0.0	Asphalt and subbase						0 - 2	0.0	0 - 3	14:00							
										CH		1.0	Brown to dark brown CLAY, little gravel, trace fine to medium sand																
										CH		2.0	Brown CLAY, little gravel																
					10					5'					CH		5.0	Grey brown CLAY, little gravel						3 - 5	0.0	5 - 7	0.0	8 - 10	14:30
															CH		7.0	Grey CLAY, trace gravel											
															CH		9.5	Grey CLAY, some gravel											
					15					2'					GC		10.0	Grey CLAY and GRAVEL						8 - 10	0.0	10 - 12	0.0	13 - 15	0.0
															CH		11.0	Grey CLAY, some gravel											
					20					4'					GW		15.0	Grey GRAVEL, some clay, little fine sand						15 - 17	0.0	18 - 19	0.0		
					25																								
												Refusal at 19.5'																	

Monitoring Well Details										
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size	

SOIL TYPE			ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay) SC (Clayey Sand) CL (Lean Clay) SM (Silty Sand) GC (Clayey Gravel) SP (Poorly-Graded Sand) GM (Silty Gravel) SW (Well-Graded Sand) GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity) GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity) MH (Elastic Silt) PT (Highly Organic Soil/Peat) ML (Silt)			from	to	Material	Cohesionless Density		Cohesive Consistence	
						# Blows/ft	Desc.	# Blows/ft	Desc.
						0-4	very loose	0-2	very soft
						5-9	loose	3-4	soft
						10-29	medium dense	5-8	medium stiff
						30-49	dense	9-15	stiff
						50+	very dense	16-30	very stiff
								31+	hard

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-12			
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1			
HRP# DEC1018.P3										
			Rig Type: 6610DT							
Date: 9/17/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing			
HRP Rep. Kristen Amedeo and Ali LeMay										
Ground Elevation:			PROPORTIONS				Type			
Total Boring Depth: 17.5'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)			
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)			
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details		
						Depth (ft)	Reading	Interval (ft)	Sample Time	
5		3'	SW	0.0	Brown and grey fine to medium SAND, some gravel, little clay	0 - 2	0.0	0 - 3	10:40	
		2.5'	SW GW	5.0	SAA	5 - 7	0.0			
				6.0	Brown fine to medium SAND					
				6.2	Brown GRAVEL, little fine sand					
	10		3'	SW			8 - 10	0.0		
		10.0			SAA	10 - 12	0.0			
15		2.5'	SW	11.5	Brown fine SAND, trace gravel, trace clay	13 - 15	0.0			
				15.0	Brown fine SAND, little gravel, little clay	15 - 16	0.0			
20			SW	17.0	Brown fine SAND, some clay, little gravel	16 - 17.5	0.0			
25										
Monitoring Well Details										
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size	
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler		
CH (Fat Clay)		SC (Clayey Sand)		from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)		SM (Silty Sand)					# Blows/ft	Desc.	# Blows/ft Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)					0-4	very loose	0-2 very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)					5-9	loose	3-4 soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)					10-29	medium dense	5-8 medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)					30-49	dense	9-15 stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)					50+	very dense	16-30 very stiff	
ML (Silt)									31+ hard	

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-13			
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1			
HRP# DEC1018.P3										
			Rig Type: 6610DT							
Date: 9/15/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing			
HRP Rep. Kristen Amedeo and Ali LeMay										
Ground Elevation:			PROPORTIONS				Type			
Total Boring Depth: 25'							O.D. (inch)			
Depth to Bedrock:			little: 10 to 20% and: 35 to 50%				I.D. (inch)			
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details		
						Depth (ft)	Reading	Interval (ft)	Sample Time	
5		3.5'	GW	0.0	Grey black crushed stone	0 - 2	0.0	0 - 3	11:40	
	SW		0.2	Brown fine to medium SAND, some gravel						
	SW		0.5	Brown fine to coarse SAND, some clay, some gravel						
			3.5'	GW	3.1	Grey stone	2 - 4	0.0		
		SW		3.3	Brown fine to coarse SAND, some clay, some gravel					
	10		3.5'	SP	5.0	Brown fine to coarse SAND and GRAVEL, little clay	5 - 7	0.0		
		CH		6.0	Brown CLAY, little fine to coarse sand, trace gravel					
		GW		6.5	Brown medium to coarse GRAVEL, little silt	7 - 9	0.0			
		SW		8.0	Brown and black medium to coarse SAND, some fine gravel					
15		5'	SW	10.0	Dark brown medium to coarse SAND, some gravel, trace silt	10 - 12	0.0			
20		5'	SM	12.0	Brown fine SAND and SILT, some gravel	12 - 14	0.0			
			SM	13.0	Grey SILT and fine to medium SAND, some gravel, some clay					
25		5'	SM	15.0	Brown and grey SILT and fine to medium SAND and GRAVEL	15 - 17	0.0			
			GM	16.0	Grey SILT and GRAVEL, little fine to medium sand, trace clay	18 - 20	0.0			
						18 - 20	12:20			
		5'	GP	20.0	Grey coarse SAND and GRAVEL, little silt	20 - 22	0.0			
		5'	GW	23.0	Grey GRAVEL, some coarse sand, little silt	22 - 24	0.0			
			SM	24.0	Grey fine SAND and SILT, some gravel, little clay					
					End of Boring 25'					
Monitoring Well Details										
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size	
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb/30" on 2" O.D. sampler		
CH (Fat Clay)		SC (Clayey Sand)		from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)		SM (Silty Sand)					# Blows/ft	Desc.	# Blows/ft Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)					0-4	very loose	0-2 very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)					5-9	loose	3-4 soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)					10-29	medium dense	5-8 medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)					30-49	dense	9-15 stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)					50+	very dense	16-30 very stiff	
ML (Silt)									31+ hard	

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-14			
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1			
HRP# DEC1018.P3										
Date: 9/16/2021			Rig Type: 6610DT				Driller: Soil Testing			
HRP Rep. Carolyn Izzo and Ali LeMay			Hammer (weight [lb] / fall [inches])							
Ground Elevation:			PROPORTIONS				Type			
Total Boring Depth: 19'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)			
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)			
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details		
						Depth (ft)	Reading	Interval (ft)	Sample Time	
5		4'	SP	0.0	Brown and tan fine to coarse SAND and GRAVEL	0 - 2	0.0	0 - 3	10:30	
			SW CH	2.0	Brown fine to medium SAND, some gravel, trace clay	2 - 4	0.0			
				2.5	Grey and brown CLAY, some gravel, trace fine sand					
		3'	GC	5.0	Grey and brown CLAY and GRAVEL, little fine to medium sand	5 - 6	0.0			
			GC	6.0	Brown CLAY and GRAVEL, some fine to medium sand	6 - 7	0.0			
			GC	7.0	Grey CLAY and GRAVEL, some silt, little fine to medium sand					
		4'	GC	10.0	Grey CLAY and GRAVEL, little fine to medium sand	10 - 12	0.0			
					12 - 14	0.0				
					13 - 15	11:00				
15		4'	CH	15.0	Grey CLAY, some gravel, little fine to medium sand	15 - 17	0.0			
					17 - 19	0.0				
		GC	18.0	Grey CLAY and GRAVEL, trace fine to medium sand						
20					Refusal at 19'					
25										
Monitoring Well Details										
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size	
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler		
CH (Fat Clay)		SC (Clayey Sand)		from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)		SM (Silty Sand)					# Blows/ft	Desc.	# Blows/ft Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)					0-4	very loose	0-2 very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)					5-9	loose	3-4 soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)					10-29	medium dense	5-8 medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)					30-49	dense	9-15 stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)					50+	very dense	16-30 very stiff	
ML (Silt)									31+	hard

Project:		HRP ASSOCIATES, INC.						Test Boring/Monitor Well ID: P-15				
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG										
HRP# DEC1018.P3								Sheet No. 1 of 1				
		Rig Type: 6610DT										
Date: 9/17/2021		Hammer (weight [lb] / fall [inches])						Driller: Soil Testing				
HRP Rep. Kristen Amedeo and Ali LeMay												
Ground Elevation:		PROPORTIONS						Type	Casing	Sampler	Core Barrel	
Total Boring Depth: 15'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)						
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)						
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)		PID (ppm)		Soil Sample Details			
							Depth (ft)	Reading	Interval (ft)	Sample Time		
5		2.5'	GP	0.0	Brown GRAVEL and fine to medium SAND		0 - 2	0.0	0 - 3	9:45		
	0.3			Dark brown GRAVEL, some fine to medium sand, some clay								
	GW		1.5	Tan and white stone								
			2.0	Grey and brown CLAY and GRAVEL								
	3.5'	CH	5.0	Grey CLAY, some gravel, trace fine to medium sand		5 - 7	0.0	8 - 10	0.0			
		SC	10.0	Grey CLAY and fine SAND, trace gravel						10 - 12	0.0	
	10	5'	CH	12.0	Grey CLAY, little gravel		13 - 15	0.0	13 - 15	9:50		
			End of Boring 15'									
15												
20												
25												
Monitoring Well Details												
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size			
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler				
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence		
CL (Lean Clay)		SM (Silty Sand)						# Blows/ft	Desc.	# Blows/ft	Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)						0-4	very loose	0-2	very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)						5-9	loose	3-4	soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff	
ML (Silt)										31+	hard	

Project:		HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-16				
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG				Sheet No. 1 of 1				
HRP# DEC1018.P3										
		Rig Type: 6610DT								
Date: 9/15/2021		Hammer (weight [lb] / fall [inches])				Driller: Soil Testing				
HRP Rep. Kristen Amedeo and Ali LeMay							Casing	Sampler	Core Barrel	
Ground Elevation:		PROPORTIONS				Type				
Total Boring Depth: 25'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)				
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details		
						Depth (ft)	Reading	Interval (ft)	Sample Time	
5		2.5'	SW	0.0	Brown fine to medium SAND, some gravel, little silt	0 - 2	0.0	0 - 3	13:15	
	SW		0.5	Brown GRAVEL, some clay, little fine to coarse sand						
	CH		1.5	Brown CLAY, little gravel						
	GC		2.0	Brown GRAVEL and CLAY, some fine to medium sand						
	10		SP	5.0	Brown medium to coarse SAND and GRAVEL, some fine sand	5 - 7	0.0	23 - 25	14:15	
		SP		7.0	Brown medium to coarse SAND and GRAVEL, some clay					
		15		SP	10.0	Brown medium to coarse SAND and GRAVEL, little fine sand	10 - 11			0.0
			SW		11.5	Brown fine to medium SAND, some gravel				
			SM	12.0	Brown fine SAND and SILT, trace gravel	13 - 15	0.0			
20			CH	13.0	Brown SILT and CLAY, some gravel			15 - 17	0.0	
	GC			15.0	Grey GRAVEL and CLAY	17 - 19	0.0			
	25		GW	20.0	Grey GRAVEL, some fine to medium sand			20 - 22	0.0	
		GW		22.5	Grey GRAVEL, some fine sand	23 - 25	0.0			
					End of Boring 25'					
Monitoring Well Details										
from		to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay) SC (Clayey Sand) CL (Lean Clay) SM (Silty Sand) GC (Clayey Gravel) SP (Poorly-Graded Sand) GM (Silty Gravel) SW (Well-Graded Sand) GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity) GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity) MH (Elastic Silt) PT (Highly Organic Soil/Peat) ML (Silt)				from	to	Material	Cohesionless Density		Cohesive Consistence	
							# Blows/ft	Desc.	# Blows/ft	Desc.
							0-4	very loose	0-2	very soft
							5-9	loose	3-4	soft
							10-29	medium dense	5-8	medium stiff
							30-49	dense	9-15	stiff
							50+	very dense	16-30	very stiff
						31+	hard			

Project:		HRP ASSOCIATES, INC.						Test Boring/Monitor Well ID: P-17			
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG									
HRP# DEC1018.P3								Sheet No. 1 of 1			
		Rig Type: 6610DT									
Date: 9/16/2021		Hammer (weight [lb] / fall [inches])						Driller: Soil Testing			
HRP Rep. Carolyn Izzo and Ali LeMay									Casing	Sampler	Core Barrel
Ground Elevation:		PROPORTIONS						Type			
Total Boring Depth: 13'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)					
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)					
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details			
						Depth (ft)	Reading	Interval (ft)	Sample Time		
5		3'	GP	0.0	Asphalt	0 - 2	0.0	0 - 3	9:45		
	0.4			Dark brown medium to coarse SAND and GRAVEL, some clay, fill							
	GW SM		2.5	White stone	2 - 3					0.0	
			2.7	Tan and white fine SAND and SILT, some gravel							
	4'	GP	5.0	Brown GRAVEL and fine to medium SAND, little clay	5 - 7	0.0					
			SP	7.0			Brown fine to medium SAND, some coarse sand, some gravel	7 - 9	0.0		
		CH		10.0	Grey CLAY and SILT, little gravel	10 - 11	0.0				
			Refusal at 13'	11 - 13	0.0						
	20										
25											

Monitoring Well Details									
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	SC (Clayey Sand)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)	SM (Silty Sand)				# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)	SP (Poorly-Graded Sand)				0-4	very loose	0-2	very soft
GM (Silty Gravel)	SW (Well-Graded Sand)				5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)	OH (Organic Clay/Silt of High Plasticity)				10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)	OL (Organic Clay/Silt of Low Plasticity)				30-49	dense	9-15	stiff
MH (Elastic Silt)	PT (Highly Organic Soil/Peat)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-18				
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1				
HRP# DEC1018.P3											
			Rig Type: 6610DT								
Date: 9/15/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing				
HRP Rep. Kristen Amedeo and Ali LeMay											
Ground Elevation:			PROPORTIONS				Type				
Total Boring Depth: 20'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)				
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details			
						Depth (ft)	Reading	Interval (ft)	Sample Time		
5		3'	SW GP	0.0	Grey and brown fine SAND, some gravel, trace organics	0 - 1.5	0.0	0 - 3	10:55		
	0.5			Grey and brown fine to coarse SAND and GRAVEL	1.5 - 3	0.0					
		3.5'	GC	5.0	Brown CLAY and GRAVEL, some fine to medium sand	5 - 7	0.0	7 - 9	0.0		
				6.0	Grey CLAY, some gravel, trace fine sand						
				7.0	Grey CLAY, little gravel						
		10	SM	10.0	Grey fine SAND and SILT, some clay	10 - 11	0.0	11 - 13	0.0		
				11.0	Grey medium to coarse GRAVEL, some silt, some fine to medium sand						
	GW										
	15	GC	15.0	Grey CLAY and GRAVEL, some fine to medium sand	15 - 17	0.0	15 - 17	11:20			
		GM	18.0	Grey SILT and GRAVEL, some clay	18 - 20	0.0					
	20				End of Boring 20'						
	25										
Monitoring Well Details											
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size		
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)		SM (Silty Sand)						# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)		SP (Poorly-Graded Sand)						0-4	very loose	0-2	very soft
GM (Silty Gravel)		SW (Well-Graded Sand)						5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff
ML (Silt)										31+	hard

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-19				
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1				
HRP# DEC1018.P3											
			Rig Type: 6610DT								
Date: 9/14/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing				
HRP Rep. Kristen Amedeo							Casing Sampler Core Barrel				
Ground Elevation:			PROPORTIONS				Type				
Total Boring Depth: 25'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)				
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details			
						Depth (ft)	Reading	Interval (ft)	Sample Time		
5		3.5'	SP	0.0	Dark brown fine to coarse SAND and GRAVEL, some silt, little organics	0 - 0.5	0.0	0 - 3	9:45		
	0.75			Brown to tan fine to medium SAND and CLAY, some silt, some fine to medium gravel	1 - 1.5	0.0					
				2 - 2.5	0.0						
				3 - 3.5	0.0						
		3.5'	SP	5.0	Brown fine to coarse SAND and GRAVEL, some clay, little silt	5 - 5.5	0.0				
					5.5 - 6	0.0					
				6 - 6.5	0.0						
			SC	7.5	Tan fine to coarse SAND and CLAY, some fine to coarse gravel, little silt	7.5 - 8	0.0				
	10		2'	SC	10.0	Grey fine to coarse SAND and CLAY, some fine to coarse gravel, little silt	10 - 10.5			0.0	
					11.5 - 12	0.0					
					12.5 - 13	0.0					
					14 - 14.5	0.0					
15		5'		15.0	SAA	15 - 15.5	0.0				
					16.5 - 17	0.0					
					18 - 18.5	0.0					
					19 - 19.5	0.0					
20					20.0	SAA	20 - 20.5	0.0			
						21.5 - 22	0.0				
						22.5 - 23	0.0				
						24 - 24.5	0.0				
25		5'	SC	22.5	Grey fine to coarse SAND and CLAY, some silt						
					End of Boring 25'						
Monitoring Well Details											
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size		
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb/30" on 2" O.D. sampler			
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)		SM (Silty Sand)						# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)		SP (Poorly-Graded Sand)						0-4	very loose	0-2	very soft
GM (Silty Gravel)		SW (Well-Graded Sand)						5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff
ML (Silt)										31+	hard

[illegible]

Project:						HRP ASSOCIATES, INC.																								
Location: 251 Walsh Avenue, New Windsor, NY						DRILLING LOG																								
HRP# DEC1018.P3																														
						Rig Type: 6610DT																								
Date: 9/16/2021						Hammer (weight [lb] / fall [inches])							Driller: Soil Testing																	
HRP Rep. Carolyn Izzo and Ali LeMay																														
Ground Elevation:						PROPORTIONS							Type	Casing	Sampler	Core Barrel														
Total Boring Depth: 15'						trace: 0 to 10% some: 20 to 35%							O.D. (inch)																	
Depth to Bedrock:						little: 10 to 20% and: 35 to 50%							I.D. (inch)																	
Sampler Depth interval (ft)						Sampler Blows per 6"						Recovery (soil-ft / rock-%)						Soil Type		Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)						PID (ppm) Depth (ft) Reading		Soil Sample Details Interval (ft) Sample Time	
5 10 15 20 25						2.5'						GC		0.0	Asphalt						0 - 2		0.0		0 - 3		13:10			
												GC		0.2	Brown CLAY and GRAVEL, some fine to medium sand						3 - 5		0.0							
						3.5'						GP		8.0	Brown and grey GRAVEL and fine to medium SAND, some clay						8 - 10		0.0		8 - 10		13:20			
												GP		10.0	SAA						10 - 12		0.0							
												GP		12.5	Brown GRAVEL and fine to medium SAND, little clay						13 - 15		0.0							
															End of Boring 15'															
Monitoring Well Details																														
from		to		Borehole Diam. (in.)		Casing Diam. (in.)		Casing Material		Riser Diam. (in.)		Riser Material		Screen Diam. (in.)				Screen Material		Screen Slot Size										
SOIL TYPE										ANNULAR FILL MATERIALS						Penetration Resistance-140 lb./30" on 2" O.D. sampler														
CH (Fat Clay)										SC (Clayey Sand)						from		to		Material		Cohesionless Density		Cohesive Consistence						
CL (Lean Clay)										SM (Silty Sand)												# Blows/ft	Desc.	# Blows/ft	Desc.					
GC (Clayey Gravel)										SP (Poorly-Graded Sand)												0-4	very loose	0-2	very soft					
GM (Silty Gravel)										SW (Well-Graded Sand)												5-9	loose	3-4	soft					
GP (Poorly-Graded Gravel)										OH (Organic Clay/Silt of High Plasticity)												10-29	medium dense	5-8	medium stiff					
GW (Well-Graded Gravel)										OL (Organic Clay/Silt of Low Plasticity)												30-49	dense	9-15	stiff					
MH (Elastic Silt)										PT (Highly Organic Soil/Peat)												50+	very dense	16-30	very stiff					
ML (Silt)																								31+	hard					

[illegible]

Project:						HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-23												
Location: 251 Walsh Avenue, New Windsor, NY						DRILLING LOG																
HRP# DEC1018.P3										Sheet No. 1 of 1												
						Rig Type: Slam bar																
Date: 9/17/2021						Hammer (weight [lb] / fall [inches])				Driller: Soil Testing												
HRP Rep. Kristen Amedeo and Ali LeMay											Casing	Sampler	Core Barrel									
Ground Elevation:						PROPORTIONS				Type												
Total Boring Depth: 2'						trace: 0 to 10%		some: 20 to 35%		O.D. (inch)												
Depth to Bedrock:						little: 10 to 20%		and: 35 to 50%		I.D. (inch)												
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)					PID (ppm)		Soil Sample Details										
										Depth (ft)	Reading	Interval (ft)	Sample Time									
2 5 10 15 20 25		0.5'	SW	0.0	Brown fine to medium SAND, some gravel, some clay, trace coarse sand					0 - 2	0.0	0 - 0.5	12:00									
	End of Boring 2'																					
	Monitoring Well Details																					
	from	to			Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material					Screen Diam. (in.)	Screen Material	Screen Slot Size						
	SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler													
CH (Fat Clay) SC (Clayey Sand) CL (Lean Clay) SM (Silty Sand) GC (Clayey Gravel) SP (Poorly-Graded Sand) GM (Silty Gravel) SW (Well-Graded Sand) GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity) GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity) MH (Elastic Silt) PT (Highly Organic Soil/Peat) ML (Silt)					from	to	Material	Cohesionless Density		Cohesive Consistence												
								# Blows/ft	Desc.	# Blows/ft	Desc.											
								0-4	very loose	0-2	very soft											
								5-9	loose	3-4	soft											
								10-29	medium dense	5-8	medium stiff											
								30-49	dense	9-15	stiff											
								50+	very dense	16-30	very stiff											
										31+	hard											

Project:				HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: P-24				
Location: 251 Walsh Avenue, New Windsor, NY				DRILLING LOG				Sheet No. 1 of 1				
HRP# DEC1018.P3												
				Rig Type: Slam bar								
Date: 9/17/2021				Hammer (weight [lb] / fall [inches])				Driller: Soil Testing				
HRP Rep. Kristen Amedeo and Ali LeMay								Casing Sampler Core Barrel				
Ground Elevation:				PROPORTIONS				Type				
Total Boring Depth: 2.5'				trace: 0 to 10%		some: 20 to 35%		O.D. (inch)				
Depth to Bedrock:				little: 10 to 20%		and: 35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)			PID (ppm)		Soil Sample Details		
								Depth (ft)	Reading	Interval (ft)	Sample Time	
5 10 15 20 25		0.5'	SP	0.0	Brown fine to medium SAND and GRAVEL, little clay, trace coarse sand			0 - 2.5	0.0	2 - 2.5	12:15	
					End of Boring 2.5'							
	Monitoring Well Details											
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size			
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb/30" on 2" O.D. sampler				
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence		
CL (Lean Clay)		SM (Silty Sand)						# Blows/ft	Desc.	# Blows/ft	Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)						0-4	very loose	0-2	very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)						5-9	loose	3-4	soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff	
ML (Silt)										31+	hard	

Project:					HRP ASSOCIATES, INC.			Test Boring/Monitor Well ID: P-25							
Location: 251 Walsh Avenue, New Windsor, NY					DRILLING LOG										
HRP# DEC1018.P3								Sheet No. 1 of 1							
					Rig Type: Slam bar										
Date: 9/17/2021					Hammer (weight [lb] / fall [inches])			Driller: Soil Testing							
HRP Rep. Kristen Amedeo and Ali LeMay								Casing		Sampler	Core Barrel				
Ground Elevation:					PROPORTIONS			Type							
Total Boring Depth: 2.5'					trace:	0 to 10%		some:	20 to 35%		O.D. (inch)				
Depth to Bedrock:					little:	10 to 20%		and:	35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)					PID (ppm)		Soil Sample Details			
										Depth (ft)	Reading	Interval (ft)	Sample Time		
5 10 15 20 25		0.5'	SW	0.0	Brown fine to medium SAND					0 - 2	0.0	0 - 0.5	8:10		
										2 - 2.5	0.0	2 - 2.5	8:30		
					End of Boring 2.5'										
	Monitoring Well Details														
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size						
SOIL TYPE					ANNULAR FILL MATERIALS					Penetration Resistance-140 lb./30" on 2" O.D. sampler					
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence					
CL (Lean Clay)		SM (Silty Sand)						# Blows/ft	Desc.	# Blows/ft	Desc.				
GC (Clayey Gravel)		SP (Poorly-Graded Sand)						0-4	very loose	0-2	very soft				
GM (Silty Gravel)		SW (Well-Graded Sand)						5-9	loose	3-4	soft				
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff				
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff				
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff				
ML (Silt)										31+	hard				

Project:		HRP ASSOCIATES, INC.						Test Boring/Monitor Well ID: P-26			
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG									
HRP# DEC1018.P3								Sheet No. 1 of 1			
		Rig Type: Slam bar									
Date: 9/17/2021		Hammer (weight [lb] / fall [inches])						Driller: Soil Testing			
HRP Rep. Kristen Amedeo and Ali LeMay									Casing	Sampler	Core Barrel
Ground Elevation:		PROPORTIONS						Type			
Total Boring Depth: 2.5'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)					
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)					
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details			
						Depth (ft)	Reading	Interval (ft)	Sample Time		
		0.5	SW	0.0	Brown fine to medium SAND, some gravel	0 - 2	0.0	0 - 0.5	11:30		
		0.5	SW	1.5	Brown fine to medium SAND, some gravel, some clay	2 - 2.5	0.0	2 - 2.5	11:45		
					End of Boring 2.5'						
Monitoring Well Details											
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size		
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay) SC (Clayey Sand)					from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay) SM (Silty Sand)								# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel) SP (Poorly-Graded Sand)								0-4	very loose	0-2	very soft
GM (Silty Gravel) SW (Well-Graded Sand)								5-9	loose	3-4	soft
GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity)								10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity)								30-49	dense	9-15	stiff
MH (Elastic Silt) PT (Highly Organic Soil/Peat)								50+	very dense	16-30	very stiff
ML (Silt)										31+	hard

Project:					HRP ASSOCIATES, INC.		Test Boring/Monitor Well ID: HRP-MW-100OB					
Location: 251 Walsh Avenue, New Windsor, NY					DRILLING LOG							
HRP# DEC1018.P3							Sheet No. 1 of 1					
					Rig Type: Truck Mounted							
Date: 9/20/2021					Hammer (weight [lb] / fall [inches])		Driller: Soil Testing					
HRP Rep. Ali LeMay								Casing	Sampler	Core Barrel		
Ground Elevation:					PROPORTIONS		Type					
Total Boring Depth: 19'					trace: 0 to 10%	some: 20 to 35%	O.D. (inch)					
Depth to Bedrock:					little: 10 to 20%	and: 35 to 50%	I.D. (inch)					
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)			PID (ppm)		Soil Sample Details		
								Depth (ft)	Reading	Interval (ft)	Sample Time	
5 10 15 20 25			SP	0.0	Brown fine to medium SAND and GRAVEL, some clay							
			GC	5.0	Brown and grey CLAY and GRAVEL, some fine to medium sand							
				SC	10.0	Grey CLAY and medium to fine SAND, some gravel						
					15.0	SAA						
						End of Boring 19'						
Monitoring Well Details												
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size			
0.0	9.0	7"	6"	Steel	2"	PVC	-	-	-			
9.0	19.0	7"	6"	Steel	-	-	2"	PVC	0.01"			
SOIL TYPE					ANNULAR FILL MATERIALS			Penetration Resistance-140 lb/30" on 2" O.D. sampler				
CH (Fat Clay)		SC (Clayey Sand)			from	to	Material	Cohesionless Density		Cohesive Consistence		
CL (Lean Clay)		SM (Silty Sand)			19.0	7.0	Sand	# Blows/ft	Desc.	# Blows/ft	Desc.	
GC (Clayey Gravel)		SP (Poorly-Graded Sand)			7.0	5.0	Bentonite	0-4	very loose	0-2	very soft	
GM (Silty Gravel)		SW (Well-Graded Sand)			5.0	0.0	Sand	5-9	loose	3-4	soft	
GP (Poorly-Graded Gravel)		OH (Organic Clay/Silt of High Plasticity)						10-29	medium dense	5-8	medium stiff	
GW (Well-Graded Gravel)		OL (Organic Clay/Silt of Low Plasticity)						30-49	dense	9-15	stiff	
MH (Elastic Silt)		PT (Highly Organic Soil/Peat)						50+	very dense	16-30	very stiff	
ML (Silt)										31+	hard	

Project:					HRP ASSOCIATES, INC.		Test Boring/Monitor Well ID: HRP-MW-101OB												
Location: 251 Walsh Avenue, New Windsor, NY					DRILLING LOG		Sheet No. 1 of 1												
HRP# DEC1018.P3																			
					Rig Type: Truck Mounted														
Date: 9/20/2021					Hammer (weight [lb] / fall [inches])		Driller: Soil Testing												
HRP Rep. Ali LeMay							Casing Sampler Core Barrel												
Ground Elevation:					PROPORTIONS		Type												
Total Boring Depth: 17.5'					trace: 0 to 10%		some: 20 to 35%		O.D. (inch)										
Depth to Bedrock:					little: 10 to 20%		and: 35 to 50%		I.D. (inch)										
Sampler Depth interval (ft) Sampler Blows per 6" Recovery (soil-ft / rock-%) Soil Type Contact Interval (ft)					Soil/Rock Description (proportions, grain size, etc.)			PID (ppm)		Soil Sample Details									
								Depth (ft) Reading		Interval (ft) Sample Time									
5 10 15 20 25					GP0.0Brown fine to medium SAND and GRAVEL, some clay														
					5.0SAA														
					SC10.0Brown fine to medium SAND and CLAY, some gravel														
					SC15.0Brown and grey fine to medium SAND and CLAY														
					End of Boring 17.5'														
Monitoring Well Details																			
from		to		Borehole Diam. (in.)		Casing Diam. (in.)		Casing Material		Riser Diam. (in.)		Riser Material		Screen Diam. (in.)		Screen Material		Screen Slot Size	
0.0		7.5		7"		6"		Steel		2"		PVC		-		-		-	
7.5		17.5		7"		6"		Steel		-		-		2"		PVC		0.01"	
SOIL TYPE										ANNULAR FILL MATERIALS				Penetration Resistance-140 lb./30" on 2" O.D. sampler					
CH (Fat Clay)				SC (Clayey Sand)						from		to		Material		Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)				SM (Silty Sand)						17.5		5.5		Sand		# Blows/ft		Desc.	
GC (Clayey Gravel)				SP (Poorly-Graded Sand)						5.5		3.5		Bentonite		0-4		very loose	
GM (Silty Gravel)				SW (Well-Graded Sand)						3.5		0.0		Sand		5-9		loose	
GP (Poorly-Graded Gravel)				OH (Organic Clay/Silt of High Plasticity)												10-29		medium dense	
GW (Well-Graded Gravel)				OL (Organic Clay/Silt of Low Plasticity)												30-49		dense	
MH (Elastic Silt)				PT (Highly Organic Soil/Peat)												50+		very dense	
ML (Silt)																		31+	
																		hard	

Project:			HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: HRP-MW-102OB				
Location: 251 Walsh Avenue, New Windsor, NY			DRILLING LOG				Sheet No. 1 of 1				
HRP# DEC1018.P3											
			Rig Type: Truck Mounted								
Date: 9/20/2021			Hammer (weight [lb] / fall [inches])				Driller: Soil Testing				
HRP Rep. Ali LeMay							Casing Sampler Core Barrel				
Ground Elevation:			PROPORTIONS				Type				
Total Boring Depth: 20.5'			trace: 0 to 10%		some: 20 to 35%		O.D. (inch)				
Depth to Bedrock:			little: 10 to 20%		and: 35 to 50%		I.D. (inch)				
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)			PID (ppm)		Soil Sample Details	
								Depth (ft)	Reading	Interval (ft)	Sample Time
5			GP	0.0	Brown fine to medium SAND and GRAVEL, some clay						
10			GC	5.0	Brown CLAY and GRAVEL, some fine to medium sand						
15			SC	10.0	SAA						
20				15.0	Brown CLAY and fine to medium SAND, little gravel						
25				20.0	SAA						
Monitoring Well Details											
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size		
0.0	10.5	7"	6"	Steel	2"	PVC	-	-	-		
10.5	20.5	7"	6"	Steel	-	-	2"	PVC	0.01"		
SOIL TYPE				ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler				
CH (Fat Clay) SC (Clayey Sand) CL (Lean Clay) SM (Silty Sand) GC (Clayey Gravel) SP (Poorly-Graded Sand) GM (Silty Gravel) SW (Well-Graded Sand) GP (Poorly-Graded Gravel) OH (Organic Clay/Silt of High Plasticity) GW (Well-Graded Gravel) OL (Organic Clay/Silt of Low Plasticity) MH (Elastic Silt) PT (Highly Organic Soil/Peat) ML (Silt)				from	to	Material	Cohesionless Density		Cohesive Consistence		
				20.5	8.5	Sand	# Blows/ft	Desc.	# Blows/ft	Desc.	
				8.5	6.5	Bentonite	0-4	very loose	0-2	very soft	
				6.5	0.0	Sand	5-9	loose	3-4	soft	
							10-29	medium dense	5-8	medium stiff	
							30-49	dense	9-15	stiff	
							50+	very dense	16-30	very stiff	
					31+	hard					

Project:		HRP ASSOCIATES, INC.				Test Boring/Monitor Well ID: HRP-MW-103OB			
Location: 251 Walsh Avenue, New Windsor, NY		DRILLING LOG				Sheet No. 1 of 1			
HRP# DEC1018.P3									
		Rig Type: Truck Mounted							
Date: 9/20/2021		Hammer (weight [lb] / fall [inches])				Driller: Soil Testing			
HRP Rep. Ali LeMay									
Ground Elevation:		PROPORTIONS				Type			
Total Boring Depth: 22'		trace: 0 to 10%		some: 20 to 35%		O.D. (inch)			
Depth to Bedrock:		little: 10 to 20%		and: 35 to 50%		I.D. (inch)			
Sampler Depth interval (ft)	Sampler Blows per 6"	Recovery (soil-ft / rock-%)	Soil Type	Contact Interval (ft)	Soil/Rock Description (proportions, grain size, etc.)	PID (ppm)		Soil Sample Details	
						Depth (ft)	Reading	Interval (ft)	Sample Time
5			GP	0.0	Brown fine to medium SAND and GRAVEL				
			GC	5.0	Brown and grey GRAVEL and CLAY, some fine to medium sand				
			SC	10.0	Grey fine SAND and CLAY, little gravel				
			15.0	SAA					
			20.0	SAA					
				End of Boring 22'					
25									

Monitoring Well Details									
from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size
0.0	12.0	7"	6"	Steel	2"	PVC	-	-	-
12.0	22.0	7"	6"	Steel	-	-	2"	PVC	0.01"

SOIL TYPE		ANNULAR FILL MATERIALS			Penetration Resistance-140 lb./30" on 2" O.D. sampler			
CH (Fat Clay)	SC (Clayey Sand)	from	to	Material	Cohesionless Density		Cohesive Consistence	
CL (Lean Clay)	SM (Silty Sand)	22.0	10.0	Sand	# Blows/ft	Desc.	# Blows/ft	Desc.
GC (Clayey Gravel)	SP (Poorly-Graded Sand)	10.0	8.0	Bentonite	0-4	very loose	0-2	very soft
GM (Silty Gravel)	SW (Well-Graded Sand)	8.0	0.0	Sand	5-9	loose	3-4	soft
GP (Poorly-Graded Gravel)	OH (Organic Clay/Silt of High Plasticity)				10-29	medium dense	5-8	medium stiff
GW (Well-Graded Gravel)	OL (Organic Clay/Silt of Low Plasticity)				30-49	dense	9-15	stiff
MH (Elastic Silt)	PT (Highly Organic Soil/Peat)				50+	very dense	16-30	very stiff
ML (Silt)							31+	hard

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850		CLIENT: <u>HRP Associates</u>				SHEET <u>1</u> OF <u>1</u> HOLE NO. <u>MW-100</u>				
		PROJECT NO. <u>E23-1903-21</u>				BORING LOCATIONS Per Plan				
		PROJECT NAME								
FOREMAN - DRILLER		LOCATION <u>251 Walsh Ave.</u> <u>New Windsor NY</u>								
INSPECTOR		TYPE		CASING	SAMPLER	CORE BAR	OFFSET			
		SIZE I.D.		<u>HSA</u>	<u>SS</u>	<u>AR</u>	DATE START <u>10/18/21</u>			
GROUND WATER OBSERVATIONS		HAMMER WT.		<u>6 5/8"</u>	<u>1 3/8"</u>	<u>DTH</u>	DATE FINISH <u>10/20/21</u>			
AT <u>65</u> FT AFTER <u>0</u> HOURS		HAMMER FALL		<u>140#</u>	<u>30"</u>	<u>BIT</u>	SURFACE ELEV.			
AT <u> </u> FT AFTER <u> </u> HOURS				<u>6"/4"</u>			GROUND WATER ELEV.			
DEPTH	CASING BLOWS PER FOOT	SAMPLE				BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6- 12 12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.					
10										Overburden soils
20										
30										
										36'
	6"	1	AR	14'	n/a	50'				Advanced 6" DTH ahead of HSA Cobbles, boulders
40										
										50'
	6"	2	AR	5'	n/a	55'				Bedrock
										(set & grouted in place, 4" steel casing to 55')
										Bedrock
60										
	4"	3	AR	15'	n/a	70'				
70										
										EOB 70'
80										

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. HOLE NO. MW-100

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: HRP Associates			SHEET <u>1</u> OF <u>1</u>	
	PROJECT NO. E23-1903-21			HOLE NO. MW-101	
	PROJECT NAME			BORING LOCATIONS Per Plan	
FOREMAN - DRILLER	LOCATION 251 Walsh Ave. New Windsor NY				
INSPECTOR	TYPE	CASING	SAMPLER	CORE BAR	OFFSET
		HSA	SS	AR	
GROUND WATER OBSERVATIONS	SIZE I.D.	6 5/8"	1 3/8"	DTH	DATE START 10/13/21
AT 55_FT AFTER__HOURS	HAMMER WT.		140#	BIT	DATE FINISH 10/18/21
AT__FT AFTER__HOURS	HAMMER FALL		30"	6"/4"	SURFACE ELEV.
					GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12- 18		CORE TIME PER FT (MIN)	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT						
10												Overburden soils
20											20'	Auger refusal
	6"	1	AR	20'	n/a	40'						Advanced 6" DTH ahead of HSA
30												Cobbles, boulders
40											40'	
	6"	2	AR	5'	n/a	45'					45'	Bedrock
												(set & grouted in place, 4" steel casing)
	4"	3	AR	15'	n/a	60'						Bedrock
50												
60											60'	
												EOB 60'
70												
80												

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT.	USED _____CASING	THEN _____CASING TO _____FT.	HOLE NO. MW-101
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE			

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: HRP Associates			SHEET <u>1</u> OF <u>1</u>	
	PROJECT NO. E23-1903-21			HOLE NO. MW-102	
	PROJECT NAME			BORING LOCATIONS Per Plan	
FOREMAN - DRILLER	LOCATION 251 Walsh Ave. New Windsor NY				
INSPECTOR	TYPE	CASING	SAMPLER	CORE BAR	OFFSET
		HSA	SS	AR	
GROUND WATER OBSERVATIONS	SIZE I.D.	6 5/8"	1 3/8"	DTH	DATE START 10/21/21
AT <u>60</u> FT AFTER <u>0</u> HOURS	HAMMER WT.	140#		BIT	DATE FINISH 10/22/21
AT <u> </u> FT AFTER <u> </u> HOURS	HAMMER FALL	30"		6"/4"	SURFACE ELEV.
					GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
15											Overburden soils
25											Auger refusal
35	6"	1	AR	16'	n/a	51'				35'	Advanced 6" DTH ahead of HSA to 51'
											Cobbles, boulders
45											Bedrock (4" steel casing grouted in place to 56')
55	6"	2	AR	5'	n/a	56'				51'	
											Bedrock
65											EOB 72'
75											
85											

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO <u> </u> FT. USED <u> </u> CASING THEN <u> </u> CASING TO <u> </u> FT.	HOLE NO. MW-102
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE	

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850						CLIENT: HRP Associates						SHEET 1 OF 1 HOLE NO. MW-103					
						PROJECT NO. E23-1903-21											
						PROJECT NAME						BORING LOCATIONS Per Plan					
FOREMAN - DRILLER						LOCATION 251 Walsh Ave. New Windsor NY											
INSPECTOR						TYPE CASING SAMPLER CORE BAR						OFFSET					
						SIZE I.D.						DATE START 10/14/21					
GROUND WATER OBSERVATIONS						HAMMER WT.						DATE FINISH 10/18/21					
AT 62 FT AFTER 0 HOURS						HAMMER FALL						SURFACE ELEV.					
AT FT AFTER HOURS						CORE BAR						GROUND WATER ELEV.					
SAMPLE						BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)						FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.					
DEPTH @ BOT						CORE TIME PER FT (MIN)						DENSITY OR CONSIST MOIST ELEV					
NO Type PEN REC.						STRATA CHANGE DEPTH											
CASING BLOWS PER FOOT																	
10																	
20																	
30												Auger refusal					
6" 1 AR 18' n/a 48'												Advanced 6" AR ahead of HSA					
40												Cobbles, boulders					
50												Bedrock					
6" 2 AR 5' n/a 53'												(set & grouted in place, 4" steel casing to 53')					
60												Bedrock					
4" 3 AR 12' n/a 65'																	
70												EOB 65'					
80																	
NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.																	
GROUND SURFACE TO FT. USED CASING THEN CASING TO FT. HOLE NO. MW-103																	
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST C = COARSE																	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS M = MEDIUM																	
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER E = FINE																	
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%																	

HRP Associates, Inc.

197 Scott Swamp Rd.

Farmington, CT 06032

(860) 674-9570

Monitor Well Data Sheet

Page 1 of 1

Well ID: MW-1

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28 - 10/29/21
Job Number:	DEC1018.P3	Field Team Leader:	
Weather:	Sunny 56°F	Team Personnel:	CJL, KG

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10/28/21	12:56	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 5.88	corrected 13.42

Measurement Point: 2" pvc NW DTB - after sampling = 1350

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Fair	No	Yes	Good	No
Concrete Collar	Ponded Water	Comments: 1 broken bolt, 1 bolt hole stripped		
Fair	No			

Well Purging Data

Date	Equipment Set-up		Time Purging		Sample Collection		Sampler Initials	Instrument Calibration Date
	Start	Finish	Start	Finish	Start	Finish		
10/28/21	12:56	12:59	12:59	1:43	1:43	1:48	KG	10/27/21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 - Serial # 04C2J6698
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HAP4

Initial Water Depth (ft): 5.88			Time: 12:56					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
1:02	5.90	140	6.93	18.27	2436	166.1	0.78	15.35
1:07	5.90		7.00	18.41	2341	161.2	0.61	16.48
1:12	5.90		6.81	18.47	699	136.6	4.19	18.92
1:17	5.91		6.70	18.52	562	133.2	5.02	16.98
1:22	5.91		6.64	18.57	544	134.4	5.07	17.25
1:27	5.91		6.61	18.58	516	135.6	5.05	18.42
1:32	5.91		6.58	18.54	497	136.6	5.05	19.28
1:37	5.91		6.56	18.59	506	138.7	5.00	19.44
1:42	5.91		6.55	18.57	493	139.5	4.99	19.92
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
peristaltic	clear	—	6160	9.65

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

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Monitor Well Data Sheet

Page 1 of 1

Well ID: MW-7

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28-29/21
Job Number:	DEC1018.P3	Field Team Leader:	—
Weather:	Sunny, 57°F	Team Personnel:	KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)		Depth to Bottom (ft)	
10-28-21	1:49	CJL	Solinst-101 corr. factor 0	uncorrected	—	uncorrected	—
				corrected	7.62	corrected	19.27

Measurement Point: 2" pvc, HW DTB - after sampling = 19.85

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Fair *	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments: * HW top broken off HW collar, only sits on top.		
Fair	No			

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-28-21	1:47	1:58	1:58	2:32	2:32	2:41	CJL	10-27-21

Instrument Mfg & Model

pH	YSI 600XL-M / (YSI 556) Serial # 19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-7

Initial Water Depth (ft):			7.62	Time: 1:57					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)	
2:01	7.89	100	7.80	17.51	979	110.9	4.20	10.8	
2:06	7.90		7.68	17.50	976	117.6	4.14	4.21	
2:11	7.91		7.57	17.50	974	121.7	4.16	2.87	
2:16	7.92		7.53	17.50	969	123.6	4.24	2.23	
2:21	7.92		7.36	17.58	960	107.1	4.45	1.91	
2:26	7.92	Y	7.32	17.55	955	102.9	4.63	0.96	
2:31	7.92		7.31	17.59	953	100.5	4.68	0.77	

Req. Limits for Last 3 Readings	+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5
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Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
GeoTech - geopump II - Parish Hic	clear	—	3400	14.27

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.

197 Scott Swamp Rd.

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Monitor Well Data Sheet

Well ID: MW-100 OB

Page 1 of 1

Site Background Information

Site Location:

251 Walsh Rd, New Windsor, NY

Job Number:

DEC1018.P3

Weather:

Sunny 52°F

Sampling Dates:

10/28 - 10/29/21

Field Team Leader:

Team Personnel:

CSC/KG

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10/28/21	10:58	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 7.43	corrected 19.05

Measurement Point: 2" pvc HW

DTB - after sampling = 19.02

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	Yes	Yes	Good	No

Concrete Collar	Ponded Water	Comments:
Good	No	

Well Purging Data

Date	Equipment Set-up		Time Purging		Sample Collection		Sampler Initials	Instrument Calibration Date
	Start	Finish	Start	Finish	Start	Finish		
10/28/21	10:58	11:04	11:04	11:34	11:34	11:40	KG	10/27/21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 - Serial # 04C2866AB
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-4

Initial Water Depth (ft):		7.43	Time:		10:58			
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
11:08	7.48	140	6.82	16.32	1340	161.5	2.68	9.31
11:13	7.48		6.84	16.39	1347	158.1	2.55	5.07
11:18	7.49		6.84	16.39	1353	156.3	2.43	3.25
11:23	7.50		6.83	16.42	1352	155.0	2.33	2.90
11:28	7.51		6.82	16.40	1356	154.4	2.35	2.35
11:33	7.51		6.81	16.46	1356	153.2	2.23	2.71

Req. Limits for Last 3 Readings	+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5
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Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
peristaltic	clear	—	4760	14.05

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

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Farmington, CT 06032

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Monitor Well Data Sheet

Well ID: MW-100 BR

Page 1 of 1

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28-29/21
Job Number:	DEC1018.P3	Field Team Leader:	—
Weather:	P. Cloudy, 41°F	Team Personnel:	KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10-28-21	2:07	KG	Solinst-101 corr. factor 0	uncorrected corrected 4.14	uncorrected corrected 72.58

Measurement Point: 2" pvc, HW

DTB - after sampling = 71.80

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments: (5' well screen)		
Good	No	Unable to maintain the 0.30' drawdown criteria.		

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-29-21	7:45	7:57	7:57	8:42	8:42	8:50	CJL	10-07-21

Instrument Mfg & Model

pH	YSI 600XL-M / (YSI 556) - Serial # 19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-4

Initial Water Depth (ft):			3.99	Time: 7:56				
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
8:01	4.65	110	7.84	15.77	1076	-132.9	1.18	10.3
8:06	5.18		7.74	15.71	1079	-107.6	0.80	8.88
8:11	5.65		7.70	15.50	1072	-79.0	0.88	9.08
8:16	5.97		7.67	15.46	1068	-69.0	0.62	7.10
8:21	6.28		7.66	15.41	1064	-63.0	0.74	5.36
8:26	6.51		7.65	15.38	1061	-60.0	0.81	4.52
8:31	6.75		7.63	15.31	1059	-62.3	0.48	4.11
8:36	6.91		7.62	15.28	1057	-64.7	0.47	4.76
8:41	7.07		7.62	15.24	1054	-67.2	0.45	3.99
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Geotech-geopump II - Peristaltic	clear	—	4950	70.08

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.

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Farmington, CT 06032

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Monitor Well Data Sheet

Well ID: MW-101 OB

Page 1 of 1

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28-29/21
Job Number:	DEC1018.P3	Field Team Leader:	-
Weather:	M. Sunny, 43°F	Team Personnel:	KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10-28-21	7:39	CJL	Solinst-101 corr. factor 0	uncorrected - corrected 4.75	uncorrected - corrected 15.73

Measurement Point: 2" pvc, HW

DTB - after sampling = 16.15

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments:		
Good	No			

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-28-21	7:27	7:53	7:53	8:31	8:31	8:36	CJL	10-27-21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 Serial # 19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-7

Initial Water Depth (ft):			4.75	Time:		7:52		
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
7:55	4.81	200	7.18	15.69	1322	31.0	0.59	12.6
8:00	4.83		7.41	16.39	1332	17.0	0.32	11.7
8:05	4.84		7.43	16.30	1336	17.2	0.28	8.95
8:10	4.85		7.44	16.41	1336	18.4	0.26	8.69
8:15	4.85		7.44	16.40	1335	19.1	0.24	7.28
8:20	4.85		7.44	16.44	1333	18.8	0.22	8.21
8:25	4.85		7.43	16.45	1329	17.7	0.21	8.87
8:30	4.86	↓	7.43	16.48	1326	17.2	0.21	8.56
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
GeoTech-geopump II-Peristaltic	Slightly cloudy	-	7600	10.73

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.
197 Scott Swamp Rd.
Farmington, CT 06032
(860) 674-9570

Monitor Well Data Sheet

Well ID: MW-101 BR

Page 1 of 1

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28-29/21
Job Number:	DEC1018.P3	Field Team Leader:	-
Weather:	M. Sunny, 45°F	Team Personnel:	KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10-28-21	7:37	CJL	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 9.81	corrected 59.08

Measurement Point: 2" pvc, HW DTB - after sampling = 59.69

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments: 5' well screen		
Good	No			

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-28-21	8:42	8:54	8:54	9:29	9:29	9:38	CJL	10-27-21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 Serial # 19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-7

Initial Water Depth (ft):		9.33	Time:		8:53			
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
8:58	9.91	100	12.33	14.63	6339	-144.7	2.28	5.55
9:03	10.79		12.46	14.39	6015	-149.3	1.56	2.21
9:08	11.55		12.45	14.30	5707	-147.1	1.49	1.77
9:13	12.31		12.44	14.34	5677	-145.7	1.44	1.62
9:18	12.99		12.42	14.36	5525	-139.5	1.64	3.74
9:23	13.63		12.38	14.35	5476	-136.8	1.72	3.21
9:28	14.27	V	12.36	14.39	5467	-136.1	1.79	2.22
Req. Limits for Last 3 Readings								
			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Geotech-geopump II - Peristaltic	Clear	-	3500	56.58

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.

197 Scott Swamp Rd.

Farmington, CT 06032

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Monitor Well Data Sheet

Well ID: MW-102 OB

Page 1 of 2

Site Background Information

Site Location:

251 Walsh Rd, New Windsor, NY

Job Number:

DEC1018.P3

Weather:

A Sunny 42°F

Sampling Dates:

10/25-10/24/21

Field Team Leader:

Team Personnel:

CJL, KG

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10/25/21	7:46	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 11.71	corrected 20.52

Measurement Point: 2" pvc HW

DTB - after sampling = 20.48

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	Yes	Yes	Good	No
Concrete Collar	Ponded Water	Comments:		
Good	No			

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10/28/21	7:46	7:52	7:52	9:38	9:38	9:48	KB	10/27/21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 - Serial # 042866AB
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # H224

Initial Water Depth (ft):		11.71	Time:		7:46			
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
7:57	11.72	90	7.03	14.28	262	117.7	8.90	82.2
8:02	11.73		6.93	14.63	247	105.1	8.67	36.8
8:07	11.73		6.91	14.82	242	98.8	8.60	22.6
8:12	11.74		6.89	14.87	239	95.1	8.49	12.35
8:17	11.74		6.89	14.97	241	92.8	8.50	9.85
8:22	11.74		6.88	15.06	239	91.2	8.45	8.83
8:27	11.74		6.86	15.07	241	90.8	8.47	6.22
8:32	11.74		6.86	15.07	242	91.6	8.44	5.04
8:37	11.75	✓	6.84	15.04	243	92.6	8.48	7.23
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Peristaltic	cloudy/clear	—	9540	16.11

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
2 vials	2 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

[illegible]

Monitor Well Data Sheet

Well ID: MW-102 BR

Page 1 of 1

Site Background Information

Site Location: 251 Walsh Rd, New Windsor, NY
Job Number: DEC1018.P3
Weather: Supply 49°F
Sampling Dates: 10/28 - 10/29/21
Field Team Leader:
Team Personnel: CAC, KB

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10/28/21	7:50	KB	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 11.55	corrected 70.33

Measurement Point: 2" pvc HW

DTB - after sampling = 69.43

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
<u>Good</u>	<u>Yes</u>	<u>Yes</u>	<u>Good</u>	<u>No</u>
Concrete Collar	Ponded Water	Comments:		
<u>Good</u>	<u>Yes</u>	5' well screen <u>Unable to maintain 0.3' drawdown criteria</u>		

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10/28/21	9:51	9:54	9:54	10:38	10:38	10:55	KB	10/27/21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 - Serial # <u>04C2866AB</u>
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # <u>HRP-4</u>

Initial Water Depth (ft):			Time:					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
9:57	11.81	60	7.73	14.21	626	135.4	5.78	18.16
10:02	12.22		8.20	14.14	610	138.2	3.90	23.8
10:07	12.62		8.28	14.28	606	137.0	2.47	24.0
10:12	13.20		8.36	14.10	605	135.6	1.93	22.9
10:17	13.48		8.36	14.10	606	135.8	1.86	21.0
10:22	13.86		8.38	13.80	605	135.8	1.79	20.3
10:27	14.24		8.40	14.04	606	136.2	1.79	19.97
10:32	14.56		8.47	14.08	607	135.8	1.80	20.1
10:37	14.88		8.47	14.07	608	135.1	1.80	21.0
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
<u>peristaltic</u>	<u>clear</u>	<u>-</u>	<u>2640</u>	<u>67.83</u>

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
2 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.

197 Scott Swamp Rd.

Farmington, CT 06032

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Monitor Well Data Sheet

Well ID: MW-103 OB

Page 1 of 2

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28-29/21
Job Number:	DEC1018.P3	Field Team Leader:	—
Weather:	Sunny, 50°F	Team Personnel:	KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10-28-21	10:03	CJL	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 5.06	corrected 21.78

Measurement Point: 2" pvc, H₂O

DTB - after sampling = 22.30

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments: Dye - MS + MSD PFAS - Field Blank = (FB-1) collected at 11:33 AM.		
Good	No			

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-28-21	9:57	10:19	10:19	11:18	11:18	11:40	CJL	10-27-21

Instrument Mfg & Model

pH	YSI 600XL-M / (YSI 556) Serial # 19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-7

Initial Water Depth (ft):			5.06	Time:	10:18			
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
10:22	5.24	200	8.37	16.30	1410	82.9	0.35	27.5
10:27	5.26		7.97	16.55	1407	105.8	0.32	107.0
10:32	5.28		7.74	16.57	1404	110.5	0.24	46.1
10:37	5.29		7.61	16.54	1400	107.4	0.23	18.2
10:42	5.29		7.56	16.57	1399	104.0	0.22	12.3
10:47	5.30		7.52	16.59	1400	99.8	0.23	11.7
10:52	5.31		7.49	16.62	1403	94.0	0.23	10.9
10:57	5.32	↓	7.47	16.63	1410	89.6	0.22	9.12
11:02	5.32	↓	7.45	16.66	1410	85.1	0.21	6.59
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Geotech-geopump II - Peristaltic	Clear	—	11,800	16.78

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl	2 plastic	2 x 250mL	As Is - PFA
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

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Page 2 of 2

MW-103 OB

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Req. Limits for Last 3 Readings

 ± 0.1

3%

3%

+/- 10 mv

 $10\% > 0.5$ $10\% > 5$

HRP Associates, Inc.

197 Scott Swamp Rd.

Farmington, CT 06032

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Monitor Well Data Sheet

Page 1 of 1

Well ID: MW-103 BR

Site Background Information

Site Location:

251 Walsh Rd, New Windsor, NY

Job Number:

DEC1018.P3

Weather:

Sunny, 55°F

Sampling Dates:

10/28-29/21

Field Team Leader:

—

Team Personnel:

KG, CJL

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10-28-21	10:02	CJL	Solinst-101	uncorrected —	uncorrected —
			corr. factor 0	corrected 20.07	corrected 65.06

Measurement Point: 2" pvc, Hw

DTB - after sampling = 65.13

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	yes	yes	Good	No
Concrete Collar	Ponded Water	Comments: Collected Dup. (5' well screen)		
Good	No	Unable to maintain the 0.30' drawdown criteria.		

Well Purging Data

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
10-28-21	12:06	12:13	12:13	12:58	12:58	1:30	CJL	10-27-21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 Serial #19A01
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRP-7

Initial Water Depth (ft):			Time:					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
12:17	20.25	100	11.68	15.34	1591	-94.4	7.45	11.2
12:22	20.93	1	11.72	14.86	1720	-100.5	5.60	8.63
12:27	21.65	1	11.48	14.78	1232	-76.1	7.32	3.34
12:32	22.50	1	11.19	14.74	931	-60.9	7.31	2.14
12:37	23.23	1	10.53	14.69	624	-43.8	6.56	1.67
12:42	24.02	1	9.73	14.75	550	-15.7	6.62	1.39
12:47	24.81	1	9.49	14.72	542	-8.1	6.82	1.50
12:52	25.31	V	9.45	14.72	542	-7.8	6.68	1.04
12:57	25.99	V	9.42	14.71	541	-8.1	6.67	1.28
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Geotech - geopump II - Peristaltic	clear	—	4500	62.56

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl	2 plastic	250mL	As Is - PFA
2 ambers	2 x 250mL	As Is	+ Collected Duplicate Sample.		
1 plastic	250mL	HNO ₃			

HRP Associates, Inc.
197 Scott Swamp Rd.
Farmington, CT 06032
(860) 674-9570

Monitor Well Data Sheet

Well ID: MW-8

Page 1 of 1

Site Background Information

Site Location:	251 Walsh Rd, New Windsor, NY	Sampling Dates:	10/28 - 10/29/21
Job Number:	DEC1018.P3	Field Team Leader:	
Weather:	SUNNY 54°F	Team Personnel:	CSC, KG

Ground Water Elevation Data

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
10/28/21	11:10	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 6.98	corrected 18.34

Measurement Point: 2" pvc HW DTB - after sampling = 18.34

Well Condition (circle one)

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
<u>Good</u>	<u>No</u>	<u>Yes</u>	<u>Good</u>	<u>No</u>
Concrete Collar	Ponded Water	Comments:		
<u>Good</u>	<u>No</u>			

Well Purging Data

Date	Equipment Set-up		Time Purging		Sample Collection		Sampler Initials	Instrument Calibration Date
	Start	Finish	Start	Finish	Start	Finish		
10/28/21	12:00	12:06	12:06	12:36	12:36	12:43	KG	10/27/21

Instrument Mfg & Model

pH	YSI 600XL-M / YSI 556 - Serial # <u>04C2866AB</u>
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # <u>HRP-4</u>

Initial Water Depth (ft): <u>6.99</u>			Time: <u>12:00</u>					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
12:10	7.05	150	7.08	15.25	1285	152.5	4.63	2.90
12:15	7.06	↓	7.12	15.39	1285	147.4	4.65	1.81
12:20	7.07	↓	7.15	15.44	1283	145.7	4.66	1.50
12:25	7.07	↓	7.14	15.55	1279	145.5	4.53	1.79
12:30	7.07	↓	7.13	15.58	1271	145.6	4.47	2.31
12:35	7.07	↓	7.11	15.54	1259	145.7	4.42	0.91

Req. Limits for Last 3 Readings	+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5
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Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
<u>peristaltic</u>	<u>clear</u>	<u>-</u>	<u>450</u>	<u>13.34</u>

Sample Containers

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
3 vials	3 x 40mL	HCl			
2 ambers	2 x 250mL	As Is			
1 plastic	250mL	HNO ₃			

SAMPLE DATE: 10/9
LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

Client Name: <u>HRP</u>	Sample Pump: <u>Peristaltic</u>
Project Location: <u>Wash Rd</u>	Tubing Type: _____
Sampler(s): <u>NZ</u>	Monitoring Equipment: _____
Well I.D.: <u>MW-100</u>	Screen Setting (ft btoc): _____ to _____
Well Diameter (inches): _____	Tubing Intake (ft btoc): _____
Total Depth (ft btoc): <u>18.25</u>	Comments: _____
Depth to Water (ft btoc): <u>7.36</u>	

Well Condition: _____

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
1516	7.36	100	16.8	7.10	113.4	1.057	36.95	4.56
1519	7.37	100	16.7	7.05	124.4	1.055	36.60	4.47
1522	7.37	100	16.7	7.02	132.2	1.041	28.56	4.37
1525	7.37	100	16.7	6.99	138.9	1.017	18.59	4.20
1528	7.38	100	16.7	6.95	143.7	1.001	13.83	4.11
1531	7.38	100	16.7	6.95	146.1	0.995	12.33	4.06
1534	7.38	100	16.6	6.93	148.4	0.988	11.49	4.08

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								
Recommended Stabilization		+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
Stabilization: (Yes/No)									

 Sample Time: 1537 Reviewed by: _____

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

MW-100-10.9.23



LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

 Client Name: HRP Sample Pump: Peristaltic

 Project Location: Walsh Rd Tubing Type: _____

 Sampler(s): NZ Monitoring Equipment: _____

 Well I.D.: MW-101-BR(2) MW-101-BR Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): _____ Tubing Intake (ft btoc): _____

 Total Depth (ft btoc): 60.45 ft Comments: Bedrock well

 Depth to Water (ft btoc): 6.69 ft

 Well Condition: tube moves in casing, not sturdy

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (°C)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
922	7.21	106 ml/min	16.0	11.83	26.5	2.817	2.49	2.56
925	7.72	100	15.8	11.93	-4.0	2.932	2.85	2.23
928	8.30	100	15.7	12.05	-21.7	2.987	2.54	2.11
931	8.59	100	15.6	12.06	-28.7	3.007	2.24	2.09
934	8.99	100	15.6	12.08	-35.5	3.025	2.14	2.06
937	9.55	100	15.5	12.10	-42.5	3.040	2.24	2.00
940	9.85	100	15.6	12.12	-45.5	3.047	1.55	1.98
943	10.23	100	15.6	12.14	-51.2	3.054	1.71	1.97
946	10.61	100	15.5	12.16	-54.9	3.059	1.34	1.95

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (°C)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								

Recommended Stabilization	+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
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Stabilization: (Yes/No)								
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 Sample Time: 949 Reviewed by: _____

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimens per centimeter				

MW-101-BR_10.9.23



HRP ENGINEERING, P.C.

PAGE 1 OF 1

SAMPLE DATE: 10/9

LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

Client Name: HRP Sample Pump: Peristaltic

Project Location: Wolsh Rd Tubing Type: _____

Sampler(s): NZ Monitoring Equipment: _____

Well I.D.: MW-103-BR Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): _____ Tubing Intake (ft btoc): _____

Total Depth (ft btoc): 66.00 Comments: _____

Depth to Water (ft btoc): 9.84

Well Condition: _____

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
1009	9.60	100	15.6	9.50	80.7	0.601	3.08	5.16
1012	9.90	100	15.4	8.90	98.8	0.585	4.93	4.28
1016	10.60	100	15.5	8.63	116.3	0.597	2.33	4.20
1019	10.99	100	15.4	8.50	125.2	0.574	2.60	4.16
1022	11.30	100	15.3	8.46	129.7	0.572	3.08	4.16
1025	11.70	100	15.4	8.42	135.3	0.572	3.08	4.16

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								
Recommended Stabilization		+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
Stabilization: (Yes/No)									

Sample Time: 1027 Reviewed by: _____

ft btoc feet below top of casing NTU Nephelometric Turbidity Units °C degrees Celsius
 ml/min milliliters per minute mg/l milligrams per liter mv millivolts
 µs/cm microseimons per centimeter

MW-103-BR, 10.9.23



HRP ENGINEERING, P.C.

PAGE 1 OF 1

SAMPLE DATE: 10/9

LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

Client Name: HRP Sample Pump: Peristaltic

Project Location: Walsh Rd Tubing Type: _____

Sampler(s): NZ Monitoring Equipment: _____

Well I.D.: MW-8 Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): _____ Tubing Intake (ft btoc): _____

Total Depth (ft btoc): 71.65 Comments: MS, MSD, DUP

Depth to Water (ft btoc): 4.82

Well Condition: _____

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
11:23	5.35	100	16.9	7.33	131.7	1.157	21.54	1.30
11:26	5.76	100	16.8	7.26	140.1	1.161	23.16	0.67
11:29	6.15	100	16.9	7.23	137.2	1.161	30.84	0.52
11:32	6.44	100	17.0	7.21	126.6	1.160	22.32	5.4
11:35	6.70	100	17.1	7.21	119.5	1.160	26.01	0.49
11:38	6.95	100	17.2	7.21	109.9	1.161	22.63	0.45
11:41	7.10	100	17.3	7.22	75.9	1.161	21.47	0.41
11:45	7.32	100	17.2	7.23	21.0	1.159	17.99	0.34
11:48	7.45	100	17.3	7.23	-8.1	1.158	15.94	0.32
11:51	7.60	100	17.4	7.24	-35.4	1.157	15.94	0.28
11:54	7.69	100	17.4	7.24	-49.9	1.147	18.93	0.24

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								
Recommended Stabilization		+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
Stabilization: (Yes/No)									

Sample Time: 11:55 Reviewed by: _____

ft btoc feet below top of casing NTU Nephelometric Turbidity Units °C degrees Celsius
 ml/min milliliters per minute mg/l milligrams per liter mv millivolts
 µs/cm microseimens per centimeter

MW-8-10.9.23
 MW-8-MS-10.9.23
 MW-8-MSD-10.9.23

DUP



SAMPLE DATE: 10/9

LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

Client Name: HRP Sample Pump: Peristaltic

Project Location: Walsh Rd Tubing Type: _____

Sampler(s): NZ Monitoring Equipment: _____

Well I.D. 1 1/2" - 10 Screen Setting (ft btoc): _____ to _____

Well Diameter (inches): _____ Tubing Intake (ft btoc): _____

Total Depth (ft btoc): 18.41 Comments: _____

Depth to Water (ft btoc): 9.19

Well Condition: _____

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
1222	9.23	100	19.1	6.94	51.4	1.358	229.22	0.48
1226	9.25	100	19.2	6.90	53.8	1.356	130.84	0.19
1229	9.25	100	19.4	6.89	55.9	1.356	132.48	0.17
1232	9.26	100	19.6	6.88	59.4	1.361	96.64	0.13
1235	9.25	100	19.5	6.87	61.9	1.371	67.11	0.11
1238	9.25	100	19.5	6.86	64.5	1.370	47.25	0.09
1241	9.25	100	19.6	6.86	66.1	1.365	30.93	0.05
1244	9.25	100	19.5	6.87	67.5	1.365	30.47	0.03
1247	9.25	100	19.6	6.87	68.3	1.362	28.21	0.01

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								

Recommended Stabilization	+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
Stabilization: (Yes/No)								

Sample Time: 1250 Reviewed by: _____

ft btoc feet below top of casing NTU Nephelometric Turbidity Units °C degrees Celsius
 ml/min milliliters per minute mg/l milligrams per liter mv millivolts
 µs/cm microseimons per centimeter

~~HRP~~

NW-10-10.9.23



LOW-FLOW SAMPLING LOG

TOTAL # WELLS: _____

Client Name: HRP Sample Pump: Peristaltic
 Project Location: Walsh Rd Tubing Type: _____
 Sampler(s): NZ Monitoring Equipment: _____
 Well I.D.: MW-9 Screen Setting (ft btoc): _____ to _____
 Well Diameter (inches): _____ Tubing Intake (ft btoc): _____
 Total Depth (ft btoc): 18.88 Comments: _____
 Depth to Water (ft btoc): 7.81

Well Condition: _____

Time (hours)	Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Water Quality Monitoring Parameters					
			Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
1311	8.67	100	17.9	7.11	51.8	2.151	4.18	0.81
1314	8.69	100	17.7	7.10	44.1	2.148	4.86	0.37
1317	8.69	100	17.8	7.09	39.1	2.140	6.48	0.15
1320	8.70	100	17.9	7.09	25.3	2.141	8.93	0.05
1323	8.72	100	17.5	7.09	17.2	2.137	12.96	0.15
1326	8.71	100	17.4	7.08	13.1	2.128	17.64	6.08
1329	8.69	100	17.7	7.08	11.5	2.129	24.22	0.09
1332	8.69	100	17.9	7.08	11.1	2.131	25.67	0.10
1335	8.69	100	18.0	7.08	10.8	2.126	26.87	0.11

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water (ft btoc)	Evacuation Rate (ml/min)	Temperature (oC)	pH	ORP (mv)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved oxygen (mg/l)
FROM	TO								

Recommended Stabilization	+/- 0.3	100-500	+/- 3%	+/- 0.1	+/- 10	+/- 3%	+/- 10%	+/- 10%
Stabilization: (Yes/No)								

Sample Time: 1337 Reviewed by: _____

ft btoc feet below top of casing NTU Nephelometric Turbidity Units °C degrees Celsius
 ml/min milliliters per minute mg/l milligrams per liter mv millivolts
 µs/cm microseimons per centimeter

MW-9-10.9.23



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SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # 100
9/20/21 (4 1/4" HSA)

Top of Casing Elevation	0	Stick Up Vented Locking Steel Cap	Yes	☒	No
Ground Surface Elevation	0	Drive/over w/Bolting Cover	☒	Yes	No
	12"	Mounded Backfill		Yes	☒ No
	5'	Concrete Collar	☒	Yes	No
	8"	Backfill Material			
Borehole Diameter 0-14'6"	2'	Formation			
	2'	Type of Casing Screen			
	10'	2" SCH 40 PVC			
Well Point Elevation	19'	I.D. 2.067" O.D. 2.375"			
	0	00Sand Thd'd F.J.			
Bottom of Boring Elevation	19'	Impermeable Backfill			
		Bentonite Chips			
		Backfill Material			
		#1 Silica Sand			
		Screen Packing			
		#1 Silica Sand			
		Filter Fabric		Yes	☒ No
		If yes, Type			
		Screen Slot Size	.010		
		Backfill Material	N/A		
		Refusal		Yes	☒ No

Screen 10
Riser 10
Plug 1
Slip Cap
Silica Sand 400#
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1/2
Concrete Mix 1
Portland Cement

Locking Exp. Plug 1
Lock
D/O 1
S/U

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Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # MW-100

Top of Casing Elevation	0	0	Stick Up Vented Locking Steel Cap	Yes	☒	No
Ground Surface Elevation	0	0	Drive/over w/Bolting Cover	☒	Yes	No
			Mounded Backfill		Yes	☒ No
	48'	55'	Concrete Collar	☒	Yes	No
Borehole Diameter	0-50' (11")		Backfill Material			
50'-55' (6")			Grout			
55'-70' (4")			Type of Casing Screen			
			2" SCH 40 PVC			
			I.D. 2.067" o.D. 2.375"			
			00Sand Thd'd F.J.			
	11'		Impermeable Backfill			
			Bentonite Chips			
	6'		Backfill Material			
			#1 Silica Sand			
			Screen Packing			
			#1 Silica Sand			
Well Point Elevation	70'	5'	Filter Fabric		Yes	☒ No
			If yes, Type			
Bottom of Boring Elevation	70'	0'	Screen Slot Size		.010	
			Backfill Material		N/A	
			Refusal		Yes	☒ No

Screen 5'
Riser 65'
Plug 1
Slip Cap
Silica Sand 1
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1
Concrete Mix 2 1/2
Portland Cement

Locking Exp. Plug 1
Lock
D/O 8" D/O
S/U

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Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # 101
9/20/21 (4 1/4" HSA)

Top of Casing Elevation 0

Ground Surface Elevation 0

Borehole Diameter 0-14" 6"

Well Point Elevation 22'

Bottom of Boring Elevation 22'

Stick Up Vented Locking Steel Cap Yes ☒ No

Drive/over w/Bolting Cover ☒ Yes No

Mounded Backfill Yes ☒ No

Concrete Collar ☒ Yes No

Backfill Material Formation

Type of Casing Screen 2" SCH 40 PVC

I.D. 2.067" O.D. 2.375"

00Sand Thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #1 Silica Sand

Screen Packing #1 Silica Sand

Filter Fabric Yes ☒ No

If yes, Type

Screen Slot Size .010

Backfill Material N/A

Refusal Yes ☒ No

8'

12"

8"

2'

2'

10'

0

Screen 10
Riser 15
Plug 1
Slip Cap
Silica Sand 400#
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1/2
Concrete Mix 1
Portland Cement

Locking Exp. Plug 1
Lock
D/O 1
S/U

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Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # MW-101

Top of Casing Elevation	0	0	Stick Up Vented Locking Steel Cap	Yes	☒	No
Ground Surface Elevation	0	0	Drive/over w/Bolting Cover	☒	Yes	No
			Mounded Backfill		Yes	☒ No
	45'		Concrete Collar	☒	Yes	No
	24'		Backfill Material	4" Steel Casing & Grout		
			Type of Casing Screen	2" SCH 40 PVC		
Borehole Diameter	0-40'(11")		I.D.	2.067"	O.D.	2.375"
40'-45' (6")			00Sand	Thd'd F.J.		
45'-60' (4")			Impermeable Backfill	Bentonite Chips		
	25'		Backfill Material	#1 Silica Sand		
	6'		Screen Packing	#1 Silica Sand		
Well Point Elevation	60'	5'	Filter Fabric		Yes	☒ No
			If yes, Type			
Bottom of Boring Elevation	60'	0'	Screen Slot Size	.010		
			Backfill Material			
			Refusal		Yes	☒ No

Screen 5'
Riser 55'
Plug 1
Slip Cap
Silica Sand 1
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1
Concrete Mix 2
Portland Cement 8

Locking Exp. Plug
Lock
D/O 8"
S/U

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Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # 102
9/20/21 (4 1/4" HSA)

Top of Casing Elevation	0	Stick Up Vented Locking Steel Cap	Yes	☒	No
Ground Surface Elevation	0	Drive/over w/Bolting Cover	☒	Yes	No
	12"	Mounded Backfill		Yes	☒ No
	7'	Concrete Collar	☒	Yes	No
		Backfill Material	Formation		
		Type of Casing Screen	2" SCH 40 PVC		
Borehole Diameter 0-14'6"	8"	I.D.	2.067"	O.D.	2.375"
	2'		00Sand	Thd'd F.J.	
	2'	Impermeable Backfill	Bentonite Chips		
	2'	Backfill Material	#1 Silica Sand		
	10'	Screen Packing	#1 Silica Sand		
Well Point Elevation	21'	Filter Fabric		Yes	☒ No
		If yes, Type			
Bottom of Boring Elevation	21'	Screen Slot Size	.010		
		Backfill Material	N/A		
		Refusal		Yes	☒ No

Screen 10
Riser 15
Plug 1
Slip Cap
Silica Sand 400#
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1/2
Concrete Mix 1
Portland Cement

Locking Exp. Plug 1
Lock
D/O 1
S/U

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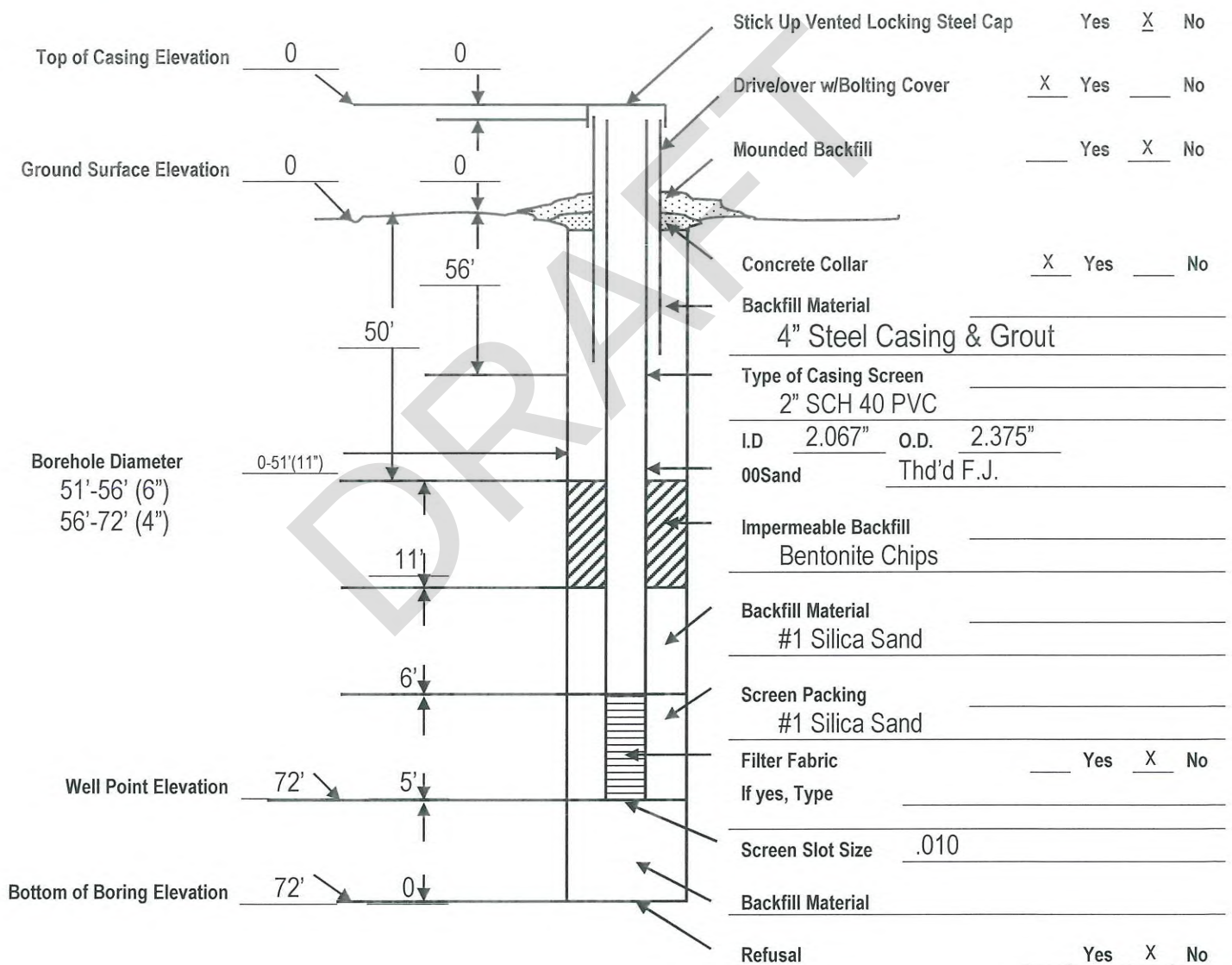
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GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # MW-102



Screen 5'
Riser 70'
Plug 1
Slip Cap
Silica Sand 1
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1
Concrete Mix 3
Portland Cement 8

Locking Exp. Plug 1
Lock
D/O 8" D/O
S/U

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Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # 103
9/20/21 (4 1/4" HSA)

Top of Casing Elevation	0	Stick Up Vented Locking Steel Cap	Yes	☒	No
Ground Surface Elevation	0	Drive/over w/Bolting Cover	☒	Yes	No
	12"	Mounded Backfill		Yes	☒ No
	4'	Concrete Collar	☒	Yes	No
	8"	Backfill Material	Formation		
Borehole Diameter 0-14'6"	2'	Type of Casing Screen	2" SCH 40 PVC		
	2'	I.D.	2.067"	O.D.	2.375"
	10'	00Sand	Thd'd F.J.		
Well Point Elevation	18'	Impermeable Backfill	Bentonite Chips		
	0	Backfill Material	#1 Silica Sand		
Bottom of Boring Elevation	18'	Screen Packing	#1 Silica Sand		
		Filter Fabric		Yes	☒ No
		If yes, Type			
		Screen Slot Size	.010		
		Backfill Material	N/A		
		Refusal		Yes	☒ No

Screen 10
Riser 10
Plug 1
Slip Cap
Silica Sand 400#
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1/2
Concrete Mix 1
Portland Cement

Locking Exp. Plug 1
Lock
D/O 1
S/U

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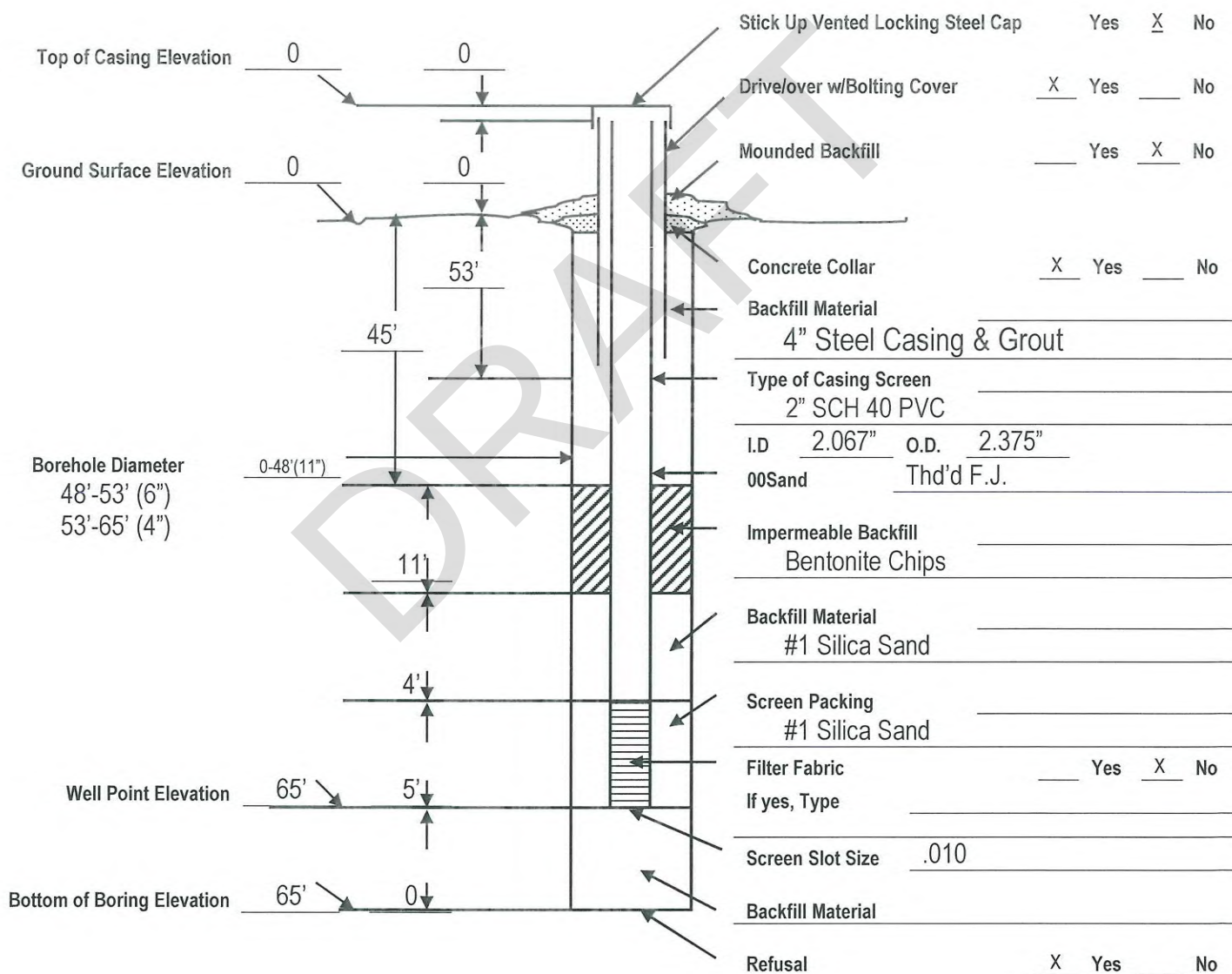
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GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: HRP Associates

JOB #: E23-1903-21

Monitor Well # MW-103



Screen 5'
Riser 60'
Plug 1
Slip Cap
Silica Sand 1
Powdered Bentonite

Bentonite Pellets
Bentonite Chips 1
Concrete Mix 3
Portland Cement 8

Locking Exp. Plug 1
Lock
D/O 8" D/O
S/U



HRP Associates, Inc.
Monitoring Well Installation Log

MONITORING WELL ID: MW-9

PAGE 1 OF 1 PAGES

PROJECT: ~~Production Monitoring~~ Walsh Rd	SCREEN SIZE & TYPE:
JOB NUMBER: ~~1415000000~~ DEC.1018 P3	SLOT NO.: SETTING: 20'-10'
DATE COMPLETED: 9/15/23	SAND PACK SIZE & TYPE:
DRILLING COMPANY: ~~Geoprobe~~ Core Down	SETTING: 20'-7.5'
RIG TYPE: Geoprobe	CASING SIZE & TYPE: PVC
DRILLING METHOD: HSA	SETTING: 20'-0'
HAMMER WEIGHT/DROP: N/A	SEAL TYPE: Hole Plug-Bentonite
SAMPLING METHOD:	SETTING: 7.5'-6.0'
OBSERVER: ~~Jeffrey Johnson~~ Leah Topping	BACKFILL TYPE: Cuttings
	SETTING: 6.0'-0'
SURFACE COMPLETION: flush moun	NORTHING:
	EASTING:
LOCATION: Back side of the building	



HRP Associates, Inc.
Monitoring Well Installation Log

MONITORING WELL ID: MW-10

PAGE 1 OF 1 PAGES

PROJECT: ~~XXXXXXXXXX~~ Walk'n Rd	SCREEN SIZE & TYPE: 10ft
JOB NUMBER: ~~XXXXXXXXXX~~ DEC1018.P3	SLOT NO.: 1 st SETTING:
DATE COMPLETED: 9/15/2023	SAND PACK SIZE & TYPE:
DRILLING COMPANY: ~~XXXXXXXXXX~~ Cove Down	SETTING: 20'-7.6'
RIG TYPE: Geoprobe	CASING SIZE & TYPE: 2 inch PVC
DRILLING METHOD: HSA	SETTING: 0'-20'
HAMMER WEIGHT/DROP: N/A	SEAL TYPE: Hole Plug
SAMPLING METHOD:	SETTING: 7.6' 6.1'
OBSERVER: ~~XXXXXXXXXX~~	BACKFILL TYPE: cuttings
	SETTING: 6.1'-0'
SURFACE COMPLETION: flush mound	NORTHING:
	EASTING:
LOCATION: Back side of building	

**197 Scott Swamp Rd.
Farmington, CT 06032
(860) 674-9570**

Page 2 of 2

Well ID: SW+
Sediment Samples

Site Location:	DEC-New Windsor, NY	Sampling Dates:	10-28-21
Job Number:	DEC-1018.P3	Field Team Leader:	
Weather:		Team Personnel:	KG, CUL

Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
3:00								
3:05			8.00	13.63	300	58.0	10.48	10.1
3:31			8.00	13.23	284	15.8	10.31	7.02
3:57			7.98	13.12	283	53.2	9.83	7.31
4:11			8.22	16.08	1144	49.4	8.77	1.47
EQ=Blank		4:47						
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5