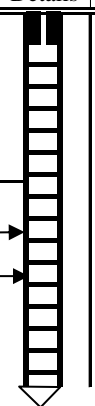


MONITORING WELL BORING LOG

Boring No. HW-1

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012			
<b>Client:</b> DER				<b>Completion Depth:</b> 5.3'			
<b>Boring Contractor:</b> None				<b>Elevation:</b>			
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>		<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>
					<u>Misc.</u>		
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)		Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)		Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)		Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)		Very = (v)
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		Coarse = (c)
					Poorly-Graded Gravel (GP)		More/Less = (+/-)
					Below Land Surface (BLS)		Dark = (dk)
					Not Available (N/A)		


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 1.5	m-c SAND,some organics				rnd	tan	2" pvc stick up 1.20'		
1.5 - 2.7	fibrous Peat					Blk	water at 2.5'		
2.7 - 4.2+	m-c SAND				rnd	Gy	2" threaded PVC well .010 Slot, 10' PVC Screen		

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-2

<b>Project:</b> Cold Brook Harwich <b>Client:</b> DER <b>Boring Contractor:</b> None <b>Boring Equipment:</b> Hand Auger				<b>Date:</b> 5/23/2012 <b>Completion Depth:</b> 7.1' <b>Elevation:</b> <b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>	<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>	
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)	Fine = (f)	Fine to Coarse = (f-c)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)	Medium = (m)	Very = (v)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)	Coarse = (c)	More/Less = (+/-)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)	Dark = (dk)	
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		
					Poorly-Graded Gravel (GP)		
					Below Land Surface (BLS)		
					Not Available (N/A)		


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 2	m-c SAND, some organics				rnd	Or/tan	2" pvc stick up 1.60'		
2 - 5	fibrous Peat					Blk	2" threaded PVC well		
5+	m-c SAND				rnd	Gy	.010 Slot, 10' PVC Screen		

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-3

<b>Project:</b> Cold Brook Harwich <b>Client:</b> DER <b>Boring Contractor:</b> None <b>Boring Equipment:</b> Hand Auger				<b>Date:</b> 5/23/2012 <b>Completion Depth:</b> 6.8' <b>Elevation:</b> <b>Inspector:</b> NP/GH	
<b>Proportions Used:</b>		<b>Color</b>	<b>Angular</b>	<b>Abbreviations:</b>	<b>Size</b>
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Fragments (frag.)	Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Cement (cem.)	Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)	Well-Graded Sand (SW)	Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)	Poorly-Graded Sand (SP)	Very = (v)
		Rust (Ru)	Black (Blk)	Well-Graded Gravel (GW)	Coarse = (c)
				Poorly-Graded Gravel (GP)	More/Less = (+/-)
				Below Land Surface (BLS)	Dark = (dk)
				Not Available (N/A)	


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
							2" pvc stick up 1.60'		
0 - 2.3	m-c SAND				rnd	tan	2" threaded PVC well		
2.3 - 3.1	fibrous Peat, some sand					Blk	.010 Slot, 10' PVC Screen		
3.1+	m-c SAND				rnd	Gy			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-4

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012	
<b>Client:</b> DER				<b>Completion Depth:</b> 5'	
<b>Boring Contractor:</b> None				<b>Elevation:</b>	
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH	
<b>Proportions Used:</b>					
		<u>Color</u>	<u>Angular</u>	<u>Abbreviations:</u> <u>Misc.</u>	<u>Size</u>
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Fragments (frag.)	Fine = (f)      Fine to Coarse = (f-c)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Cement (cem.)	Medium = (m)      Very = (v)
some (so)	20 - 35%	Light (lt)	Brown (Br)	Well-Graded Sand (SW)	Coarse = (c)      More/Less = (+/-)
and	35 - 50%	Dark (dk)	Orange (Or)	Poorly-Graded Sand (SP)	Dark = (dk)
		Rust (Ru)	Black (Blk)	Well-Graded Gravel (GW)	
				Poorly-Graded Gravel (GP)	
				Below Land Surface (BLS)	
				Not Available (N/A)	

Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 2.3	m-c SAND, some organics				rnd	tan	4" pvc stick up 0.25'		
2.3 - 5.3	fibrous Peat					Blk	4" perforated PVC well		
5.3+	m-c SAND				rnd	Gy			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-5

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012			
<b>Client:</b> DER				<b>Completion Depth:</b> 5.1'			
<b>Boring Contractor:</b> None				<b>Elevation:</b>			
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>		<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>
					<u>Misc.</u>		
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)		Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)		Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)		Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)		Very = (v)
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		Coarse = (c)
					Poorly-Graded Gravel (GP)		More/Less = (+/-)
					Below Land Surface (BLS)		Dark = (dk)
					Not Available (N/A)		


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 1.8	m-c SAND, some organics				rnd	Or/tan	4" pvc stick up 1.39'		
1.8 - 4	fibrous Peat					Blk	4" perforated PVC well		
4+	m-c SAND				rnd	Gy			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-6

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012			
<b>Client:</b> DER				<b>Completion Depth:</b> 5.1'			
<b>Boring Contractor:</b> None				<b>Elevation:</b>			
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>		<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>
					<u>Misc.</u>		
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)		Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)		Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)		Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)		Very = (v)
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		Coarse = (c)
					Poorly-Graded Gravel (GP)		More/Less = (+/-)
					Below Land Surface (BLS)		Dark = (dk)
					Not Available (N/A)		


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 1.8	m-c SAND, some organics				rnd	tan	4" pvc stick up 0.70'		
1.8 - 4.3	fibrous Peat					Blk			
4.3+	m-c SAND				rnd	tan			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-7

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012			
<b>Client:</b> DER				<b>Completion Depth:</b> 4.5'			
<b>Boring Contractor:</b> None				<b>Elevation:</b>			
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>		<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>
					<u>Misc.</u>		
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)		Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)		Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)		Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)		Very = (v)
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		Coarse = (c)
					Poorly-Graded Gravel (GP)		More/Less = (+/-)
					Below Land Surface (BLS)		Dark = (dk)
					Not Available (N/A)		


Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 1.3	m-c SAND, some organics				rnd	tan/Or	4" pvc stick up 0.8'		
1.3 - 2.5	fibrous Peat					Blk	4" perforated PVC well		
2.5+	m-c SAND				rnd	Or			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. HW-8

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012	
<b>Client:</b> DER				<b>Completion Depth:</b> 4.1'	
<b>Boring Contractor:</b> None				<b>Elevation:</b>	
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH	
<b>Proportions Used:</b>					
		<u>Color</u>	<u>Angular</u>	<u>Abbreviations:</u> <u>Misc.</u>	<u>Size</u>
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Fragments (frag.)	Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Cement (cem.)	Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)	Well-Graded Sand (SW)	Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)	Poorly-Graded Sand (SP)	Very = (v)
		Rust (Ru)	Black (Blk)	Well-Graded Gravel (GW)	Coarse = (c)
				Poorly-Graded Gravel (GP)	More/Less = (+/-)
				Below Land Surface (BLS)	Dark = (dk)
				Not Available (N/A)	

Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
0 - 2.5	m-c SAND, some organics				rnd	tan	4" pvc stick up 0.25'		
2.5 - 3.5	fibrous Peat, some sand					Blk	4" perforated PVC well		
3.5+	c SAND and gravel, li cobbles				rnd	tan			

Note:  
Vertical not to scale



MONITORING WELL BORING LOG

Boring No. HW-9

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012			
<b>Client:</b> DER				<b>Completion Depth:</b> 3.5' (refusal)			
<b>Boring Contractor:</b> None				<b>Elevation:</b>			
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH			
<b>Proportions Used:</b>							
		<u>Color</u>		<u>Angular</u>	<u>Abbreviations:</u>		<u>Size</u>
					<u>Misc.</u>		
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Round (rnd.)	Fragments (frag.)		Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Angular (ang.)	Cement (cem.)		Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)		Well-Graded Sand (SW)		Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)		Poorly-Graded Sand (SP)		Very = (v)
		Rust (Ru)	Black (Blk)		Well-Graded Gravel (GW)		Coarse = (c)
					Poorly-Graded Gravel (GP)		More/Less = (+/-)
					Below Land Surface (BLS)		Dark = (dk)
					Not Available (N/A)		

Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
							no well		
0 - 2.5	m-c SAND, some organics				rnd	tan			
2.5 - 3.5	fibrous Peat					Blk			
3.5+	m-c SAND, tr gravel, li cobbles				rnd	tan			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. SS-2B

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012	
<b>Client:</b> DER				<b>Completion Depth:</b> 4.2'	
<b>Boring Contractor:</b> None				<b>Elevation:</b>	
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH	
<b>Proportions Used:</b>					
		<u>Color</u>	<u>Angular</u>	<u>Abbreviations:</u> <u>Misc.</u>	<u>Size</u>
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Fragments (frag.)	Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Cement (cem.)	Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)	Well-Graded Sand (SW)	Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)	Poorly-Graded Sand (SP)	Very = (v)
		Rust (Ru)	Black (Blk)	Well-Graded Gravel (GW)	Coarse = (c)
				Poorly-Graded Gravel (GP)	More/Less = (+/-)
				Below Land Surface (BLS)	Dark = (dk)
				Not Available (N/A)	

Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
							no well		
0 - 2	m-c SAND, some organics				rnd	tan			
2 - 4.2	fibrous Peat					Blk			
4.2+	m-c SAND				rnd	Gy			

Note:  
Vertical not to scale

MONITORING WELL BORING LOG

Boring No. SS-4C

<b>Project:</b> Cold Brook Harwich				<b>Date:</b> 5/23/2012	
<b>Client:</b> DER				<b>Completion Depth:</b> 4'	
<b>Boring Contractor:</b> None				<b>Elevation:</b>	
<b>Boring Equipment:</b> Hand Auger				<b>Inspector:</b> NP/GH	
<b>Proportions Used:</b>					
		<u>Color</u>	<u>Angular</u>	<u>Abbreviations:</u> <u>Misc.</u>	<u>Size</u>
trace (trc)	0 - 10%	Blue (Bl)	Green (Gr)	Fragments (frag.)	Fine = (f)
little (li)	10 - 20%	Red (R)	Gray (Gy)	Cement (cem.)	Fine to Coarse = (f-c)
some (so)	20 - 35%	Light (lt)	Brown (Br)	Well-Graded Sand (SW)	Medium = (m)
and	35 - 50%	Dark (dk)	Orange (Or)	Poorly-Graded Sand (SP)	Very = (v)
		Rust (Ru)	Black (Blk)	Well-Graded Gravel (GW)	Coarse = (c)
				Poorly-Graded Gravel (GP)	More/Less = (+/-)
				Below Land Surface (BLS)	Dark = (dk)
				Not Available (N/A)	

Depth Feet	Description	Down Hole Hammer	Penetration	Recovery	USCS Code	USCS Color	Comments	Well Details	Depth Feet
							no well		
0 - 1.8	m-c SAND, some organics				rnd	tan			
1.75 - 4	fibrous Peat					Blk			
4+	m-c SAND				rnd	Gy			

Note:  
Vertical not to scale