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Log of Boring: **FD-39**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 28.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 40.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Blk. m-f sand, little/some silt, mixed with variable amounts of cinders, ash & glass frags (FILL)	0–5				23		
			Cinders, ash, glass, brick & tile frags (FILL)	5–10				6		
			'Do' mixed with f-c sand & silt (FILL)	10–15				2		
			Br. f-c gravel & f-c sand, tr. silt with metal frags (FILL)	15–20				29		
8.0	G		Br. f-c gravel & f-c sand, tr. silt (GP-GM)/(SP-SM)	20–25				97		
			Br. f-c gravel, and f-c sand, tr. silt (GP)	25–30				21		

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Log of Boring: **FD-39**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	G		Gray f-c gravel, and f-c sand, tr. silt (GP-GM)	30–35				53		
-7.0										
	M		Gray silt, some f sand (ML)	35–40				19		
-12.0			End Boring at 40.0'	40–68						

Boring Number: **FD-39**

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Log of Boring: **FD-4**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
14.5	conc		Concrete	0						
	F		Cinders & ash (FILL)	1–5				3		
10.0	F/G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP)	5–10				10		possible reworked soil 5'-10'
5.0	G			10–15				52		
0.0	M		Br. & gray silt, some f sand (ML)	15–20				14		sl. micaceous 15'-30'
				20–25				17		
-15.0				25–30				17		

End Boring at 30.0'

Boring Number: **FD-4**

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Log of Boring: **FD-47**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	Conc/F		Bituminous concrete Br. f-c sand, some f-c gravel, tr. silt, frequent cobbles (FILL)	0				64		
-2.5			Concrete	1						
				2						
				3				41		
				4						
				5						
				6						
				7				19		
			Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of brick & concrete frags (FILL)	8						
				9						
	F			10						
				11						
				12				24		
				13						
				14						
				15						
				16						
			Gr. f-c gravel, little f-c sand, little silt mixed with variable amounts of brick & cobbles (FILL)	17				31		
				18						
-18.5				19						
	S		Gr. f-c sand, some f-c gravel, some silt, frequent cobbles (SM)	20						
-20.5				21						
				22						
	G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP)	23				64		
				24						
-25.0				25						
				26						
	S		Br. f sand, some silt (SM)	27				60		highly micaceous 25'-30'
				28						
				29						
-30.0				30						

End Boring at 30.0'

Boring Number: **FD-47**

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Log of Boring: **FD-48**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 6.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. m-f sand, tr. silt mixed with variable amounts of coal, wood & metal (FILL)	0–3				11		
3.0										
	G		Br. f-c gravel, some f-c sand, tr. silt, frequent/num. cobbles (GP-GM)	3–8				139		
-2.0										
	S		Br. m-f sand, little silt (SM)	8–15				19		highly micaceous 8'-15'
-9.0										
	M		Br. silt, some f sand (ML)	15–19				21		
-12.5										
	S		Br. m-f sand, tr. silt (SP-SM)	19–25				38		micaceous 15'-30'
				25–30				67		
-24.0										

End Boring at 30.0'

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Log of Boring: **FD-49**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			Bituminous concrete	0						
	F		Dk. br. f-c sand, some silt, little f-c gravel mixed with variable amounts of cinders & ash (FILL)	1–10				19		
				10–15				13		
				15–18				13		
			Dk. br. f-c sand, some silt, little f-c gravel (FILL)	18–19				21		oil-like staining between 15'-18'
-18.5	S		Br. f-c sand, some f-c gravel, tr. silt (SP)	19–20						
-20.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP)	20–25				83		
-25.0	S		Br. m-f sand, tr. silt (SP-SM)	25–30				39		highly micaceous 25'-30'
-30.0			End Boring at 30.0'							

Boring Number: **FD-49**

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Log of Boring: **FD-5**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. m-f sand, little f-c gravel, little silt, mixed with variable amounts of cinders (FILL)	0–5				5		
			Cinders & ash (FILL)	5–10				12		
			Br. f-c sand, some silt, little f-c gravel (FILL)							
5.0			Blk. f-c sand, little silt, mixed with variable amounts of cinders & ash (FILL)							
	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	10–17				74		
-2.0								27		
	M		Gray silt, little f sand (ML)	17–25				11		micaceous 17'-30'
-15.0				25–30				12		

End Boring at 30.0'

Boring Number: **FD-5**

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Log of Boring: **FD-50**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 6.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
5.5	conc		Bituminous Concrete	0						
	F		Br. f-c sand, little silt mixed with variable amounts of coal, cinders & cobbles (FILL)	1–5				15		
	F		Br. f-c sand, some f-c gravel, some silt mixed with variable amounts of cinders & coal (FILL)	5–10				8		
	F			10–15				8		
	F		Br. f-c gravel, some f-c sand, little silt mixed with variable amounts of cinders & brick frags (FILL)	15–20				15		
-14.5	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	20–25				94		
-19.0	S		Br. m-f sand, tr. silt (SP-SM)	25–30				27		micaceous 25'-30'
-24.0			End Boring at 30.0'							

Boring Number: **FD-50**

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Log of Boring: **FD-51**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
14.5	TS		Topsoil	0						
	F		Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of cinders, coal & cobbles (FILL)	1–5				74		
9.0				6						
			Br. f sand, some silt (SM)	6–10				21		
				11–15				24		highly micaceous 6'-30'
	S			16–20				24		
			Br. m-f and, tr. silt (SP-SM)	21–25				22		
-15.0				26–30				33		

End Boring at 30.0'

Boring Number: **FD-51**

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Log of Boring: **FD-52**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 6.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			Bituminous concrete	0						
	F		Br. f-c sand, some f-c gravel, little silt mixed with variable amounts of cinders, wood & brick frags (FILL)	1–10				33		
	F		Br. f-c gravel, and f-c sand, little silt mixed with variable amounts of cinders & wood (FILL)	10–15				17		
-10.0										
-10.5	cbl		cobbles	16						
	G/S		Br. f-c gravel & f-c sand, tr. silt, frequent cobbles (GP)/(SP)	16–25				38 / 57		
-19.5										
	S		Br. f-c sand, little f-c gravel, tr. silt (SP-SM)	25–27				40		
	S		Br. m-f sand, tr. silt (SP)	27–30						
-24.0			End Boring at 30.0'	30						

Boring Number: **FD-52**

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Log of Boring: **FD-54**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 1.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, some f-c gravel, little silt mixed with cinders & brick frags (FILL)	0–20				15 / 13 / 8 / 76		
-19.0										
	S		Br. m-f sand, tr. silt (SP-SM)	20–25				22		
			Br. m-f sand, tr. silt (SP)	25–29				10		
-29.0			Br. f sand, some silt (SM)	29–30						

End Boring at 30.0'

Boring Number: **FD_54**

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Log of Boring: **FD-55**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			Br. f-c sand, some f-c gravel, tr. silt mixed with variable amounts of coal (FILL)	0–5				42		Boulder at 0.5' to 1.5'
	F		Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of cinders & brick frags (FILL)	5–15				15		
				15–20				21		
-17.8	BLD		Boulder	18–20				105		
-20.0	G		Br. f-c gravel, some f-c sand (GP)	20–22						
-21.5	S		Br. f sand, little silt (SM)	22–25				31		
				25–30				34		
-30.0			End Boring at 30.0'							

Boring Number: **FD-55**

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Log of Boring: **FD-57**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c gravel, and f-c sand, tr. silt mixed with brick and concrete frags (FILL)	0–5				30		
	F		Br. c-f sand, some silt, little f-c gravel mixed with variable amounts of wood, brick frags & cobbles (FILL)	5–10				17		
	F		Br. f-c sand, and f-c gravel, tr. silt mixed with variable amounts of mortar, brick frags & cobbles (FILL)	10–15				10		
-18.3				15–18				39		
	COB		Cobbles	18–20						
-20.0										
	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP)	20–24				61		
-24.5										
	S		Br. m-f sand, tr. silt (SP-SM)	24–25						highly micaceous 24.5'-26.5'
-26.5										
	S/G		Br. f-c sand & f-c gravel, tr. silt, frequent cobbles (SP-SM)/(GP-GM)	25–30				51		
-30.0										

End Boring at 30.0'

Boring Number: **FD-57**

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Log of Boring: **FD-59**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 14.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, little f-c gravel, little silt mixed with variable amounts of cinders (FILL)	0–1				85		
			Boulder	2						
			Br. f-c sand, some f-c gravel, little silt, frequent cobbles (FILL)	3–4				24		
			Br. m-f sand, some silt (FILL)	5–6						
			Br. f-c gravel, some f-c sand, tr, silt & wood (FILL)	7–9				43		
4.0				10						
	G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP-GM)	11–14				49		
-0.5				15						highly micaceous 14.5'-30'
			Br. f sand, and silt (SM)	16–19				30		
	S			20						
			Br. f-c sand, and f-c gravel, tr. silt, frequent cobbles (SP-SM)	21–25				40		
				26						
				27				43		
				28						
			Br. m-f sand, little/some silt (SM)	29–30						
-16.0			End Boring at 30.0'							

Boring Number: **FD-59**

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Log of Boring: **FD-60**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 6.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
5.5	conc		Bituminous concrete	0						
	F		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (FILL)	1–14				41		
				5–10				24		
				10–15				32		
				15–20				24		
-14.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	20–25				61		
-23.5				25–29				31		
-24.0	S		Br. f sand, some silt (SM)	30						

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Log of Boring: **FD-60**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			End Boring at 30.0'	30–68						

Boring Number: **FD-60**

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Log of Boring: **FD-61**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 14.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 32.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
13.5	conc		Concrete	0						
			Cinders & ash (FILL)	1–5				9		
	F		Br. f-c sand, some f-c gravel, some silt mixed with variable amounts of cinder, ash, slag & brick frags (FILL)	5–10				9		
			Cinders & ash (FILL)	10–15				11		
-1.0	S		Br. f-c sand, some f-c gravel, little silt, frequent cobbles (SM)	15–17				34		
-3.0	Cob		Cobbles	17–18				81		
-4.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	18–25				112		
-10.5	S/G		Br. f-c sand & f-c gravel, tr. silt, num. cobbles (SP-SM)/(GP-GM)	25–30				67		

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Log of Boring: **FD-61**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	S/G		Br. f-c sand & f-c gravel, tr. silt, num. cobbles (SP-SM)/(GP-GM)	30 31				85		
-18.0			End Boring at 32.0'	32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68						

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Log of Boring: **FD-71**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 17.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Dk. br. f-c sand, some silt, little f-c gravel, num. cobbles (FILL)	0–5				67		
12.0										
			Br. m-f sand, little silt (SM)	5–8				38		
			Br. f-c sand, some f-c gravel, little silt (SM)	8–10						
			Br. f-c sand, some f-c gravel, tr. silt, frequent cobbles (SP-SM)	10–15				23		
	S		Br. m-f sand, little f-c gravel, tr. silt, num. cobbles (SP-SM)	15–20				53		
				20–25				46		
				25–27						
			Br. f-c sand, and f-c gravel, little silt, num. cobbles (SM)	27–30				56		micaceous 27'-30'
-13.0										

End Boring at 30.0'

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Log of Boring: **FD-72**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 12.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
11.0	F		Bituminous concrete	0						
	S		Br. f-c sand, some f-c gravel, tr. silt (SM)	1						
				2				51		
			Dk. br. f sand, little silt (SM)	3						
				4						
				5						
				6						
				7				10		
				8						
			Br. f-m sand, little silt (SM)	9						
			Br. f-c sand, little f-c gravel, little silt, frequent cobbles (SM)	10						
				11						
				12				43		
-0.5	G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP)	13						
				14						
-3.0				15						
				16						
				17						
				18				38		
				19						
				20						
	S		Br. m-f sand, tr. silt (SP-SM)	21						highly micaceous 15'-30'
				22						
				23				63		
				24						
				25						
				26						
				27				31		
				28						
				29						
-18.0				30						

End Boring at 30.0'

Boring Number: **FD-72**

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Log of Boring: **FD-76**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 11.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
10.5	conc		Bituminous concrete	0						
	S		Br. m-f sand, little f-c gravel, little silt (SM)	1–5				33		
	S		Br. m-f sand, some silt (SM)	5–7.5						micaceous 5'-7.5'
3.5				7.5				16		
	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	7.5–15				77		
-4.0				15						
	G/S		Br. f-c gravel & f-c sand, tr. silt, frequent cobbles (GP)/(SP)	15–22				27		
-11.0				22						
	S		Br. m-f sand, and silt (SM)	22–25				21		highly micaceous 22'-30'
				25–30				48		
-19.0				30						

End Boring at 30.0'

Boring Number: **FD-76**

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Log of Boring: **FD-77**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 5.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
4.0	S		Br. m-f sand, some silt (SM)	0–1						
	G		Br. f-c gravel, and f-c sand, tr. silt (GP)	1–5				34		Note: brick frags & paint chips reported in the top 5' per Plate 3-21; information listed herein recorded from Plate 6-21
0.0	G/S		Br. f-c gravel & f-c sand, tr. silt, num. cobbles (GP-GM)/(SP-SM)	5–10				30		
				10–15				56		
-12.0				15–17						
	S		Br. m-f sand, some silt (SM)	17–20				32		
				20–25				41		micaceous 17'-30'
-25.0			Br. m-f sand, little silt (SM)	25–30				57		

End Boring at 30.0'

Boring Number: **FD-77**

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Log of Boring: **FD-78**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 5.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of brick frags (FILL)	0–7				17		
-2.3			Gray m-f sand, tr. silt (SP-SM)	7–10				34		micaceous 7.3'-10'
	S		Br. m-f sand, tr. silt (SP-SM)	10–20				23 / 40		
-25.0			End Boring at 30.0'	20–30				48 / 46		

Boring Number: **FD-78**

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Log of Boring: **FD-79**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): -2.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 23.5
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	G/S		Br. f-c gravel & f-c sand, tr. silt, frequent cobbles (GP)/(SP)	0–7				23		
-9.8										
	S		Br. m-f sand, tr. silt (SP-SM)	8–13				26, 51		micaceou 7.8'-12.8'
-14.8										
	M		Br. silt, some f sand (ML)	13–15						
-16.3										
	GT		Gray br. f-c sand, some f-c gravel, little silt, num. cobbles (SM)(TILL)	15–23				63, 163		
-25.5			End Boring at 23.5'	23–30						from Plate 3-22

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Log of Boring: **FD-8**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 22.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
21.5	TS		Topsoil	0						
	F		Br. f-c sand, some silt mixed with variable amounts of cinders (FILL)	1–5				18		
18.5	F/S		Br. & gray m-f sand, some silt (SM)(FILL)	5–9				16		occ. grave 3.5'-9.2'
12.6	S/O		Gray organic silt, some f sand (OL)	9–11				11		
			Gray m-f sand, tr. organic silt (SM)	11–14						
			Blk. organic silt, little f sand (OL)	14–15						
			Gray f-m sand, little organic silt (SM)	15–18				10		
3.6			Blk. organic silt, some f sand (OL)	18						
2.6	G		Br. f-c gravel, some f-c sand (GP)	18–19						
	BLD		Boulder	19–22						
0.5	GT		Gray f-c sand, little silt (SM)(TILL)	22–25				58		
			Gray f-c sand, some silt, little f-c gravel (SM)(TILL)	25–30				59		
-8.0			End Boring at 30.0'	30						

Boring Number: **FD-8**

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Log of Boring: **FD-80**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 11.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
10.0	S		Br. c-f sand, little/some f-c gravel, tr. silt, frequent cobbles (SP)	0–1						
	G		Br. f-c gravel, little/some f-c sand, tr. silt, frequent cobbles (GP)	1–10				44 49 51		
-6.0	M		Gray br. silt (ML)	10–17				19		
-9.0	S		Br. gray f sand, little/some silt, occ. cobbles (SM)	17–25				30		micaceous 17'-30'
			Br. gray f sand, little/some silt (SM)	25–28				31		Note: information obtained from Plate 3-22, not illustrated on Plates 6
-19.0			Br. gray f-m sand, little/some f-c gravel, little/some silt (SM)	28–30						
			End Boring at 30.0'							

Boring Number: **FD-80**

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Log of Boring: **FD-81**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 10.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
9.0	TS		Topsoil, frequent cobbles & roots	0–1						
	G		Br. f-c gravel, little/some f-c sand, occ./frequent cobbles (GP)	1–10				36		
								9		
			No recovery	10–11						
			Br. f-c gravel, little/some f-c sand, tr. silt, num. cobbles (GP)	11–13				91		
-3.5	M		Gray br. silt, little/some f sand (ML)	13–20				27		
				20–25				26		
				25–30				28		Note: information obtained from Plate 3-22, not illustrated on Plates 6
-20.0			End Boring at 30.0'							

Boring Number: **FD-81**

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Log of Boring: **FD-88**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 26.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 40.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	S		Br. f-c sand, and f-c gravel, tr. silt (SP)	0–8				4, 34		
18.2										
	G		Gray f-c gravel, some f-c sand, tr. silt (GP-GM)	8–25				67, 11, 9		
1.0										
	S		Gray m-f sand, little f-c gravel, little silt (SM)	25–27				8		
-1.4										
	M		Gray silt, little f sand (ML)	27–30						

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Log of Boring: **FD-88**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	M		Gray silt, little f sand (ML)	30–40				15		
								15		
-14.0			End Boring at 40.0'	40–68						

Boring Number: **FD-88**

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Log of Boring: **FD-89**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 27.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 25.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	S		Br. f-c sand, and f-c gravel, tr. silt (SP-SM)	0–5				52		
	S		Br. f sand, and silt (SM)	5–10				11		
	S		Br. f-c sand, little f-c gravel, tr. silt (SP-SM)	10–20				5 / 70		
6.7	M		Gray br. silt, some f sand (ML)	20–25				15		
2.0			End Boring at 25.0'	25–30						

Boring Number: **FD-89**

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Log of Boring: **FD-90**

Project: Ansonia/Derby_Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 20.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, little/some silt mixed with variable amounts of cinders, ash, wood, concrete & brick frags (FILL)	0–15				7 / 3 / 28		
4.5										
	M		Br. silt, some f sand (ML)	15–30				11 / 8 / 14		micaceous 15.5'-30'
-10.0			End Boring at 30.0'							

Boring Number: **FD-90**

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Log of Boring: **FD-91**

Project: Ansonia/Derby Naugatuck Levee	Project Number: 04019-0001	Elevation (ft): 24.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, little f-c gravel, little silt (FILL)	0–5				8		
	F		Br. f-c gravel, and f-c sand, tr. silt (FILL)	5–15				12, 125		num. cobbles 10'-15.5'
8.5	M		Br. silt, and f sand (ML)	15–25				18, 20		micaceous 15.5'-30'
-6.0			End Boring at 30.0'	25–30				27		

Boring Number: **FD-91**

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Log of Boring: **FD-3**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft):	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 42.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Dark gray fine to COARSE sand, cinders, asj, glass and organic mattr (Fill)	0–5						
			Yellowish ASH (Fill)	5–10						
			Black glass, tile, cinders, mortar, ash & brick (Fill)	10–15						
			Dark brown ciders, slag, ash, tile, wire, burlap & gravel (Fill)	15–17						
			Dark brown cinders, wood, tile, ash, sand, gravel & silt (Fill)	17–18						
			Black becoming brown f-c GRAVEl, some f-c sand, trace silt (Fill)	18–20						
			Brown f-c GRAVEL, some /andf-c SAND, trace silt, frequent cobbles, occasional metal frags (Fill)	20–30						

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Log of Boring: **FD-3**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	G		Brown f-c GRAVEL, somef-c sand, little silt, frequent cobbles (GM)	30–35						
	S		Brown f-c SAND, trace f-c gravel, trace silt (SP-SM)	35–42						
			End Boring at 42.0'	42–68						

Boring Number: **FD-3**

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Log of Boring: **FD-4**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
14.5	conc		Concrete	0						
	F		Cinders & ash (FILL)	1–5				3		
10.0	F/G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP)	5–10				10		possible reworked soil 5'-10'
5.0	G			10–15				52		
0.0	M		Br. & gray silt, some f sand (ML)	15–20				14		sl. micaceous 15'-30'
				20–25				17		
-15.0			End Boring at 30.0'	25–30				17		

Boring Number: **FD-4**

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Log of Boring: **FD-43**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 6.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
3.0	F		Br. m-f sand, tr. silt mixed with variable amounts of coal, wood & metal (FILL)	0–3				11		
-2.0	G		Br. f-c gravel, some f-c sand, tr. silt, frequent/num. cobbles (GP-GM)	3–8				139		
-9.0	S		Br. m-f sand, little silt (SM)	8–15				19		highly micaceous 8'-15'
-12.5	M		Br. silt, some f sand (ML)	15–19				21		
-24.0	S		Br. m-f sand, tr. silt (SP-SM)	19–30				38 67		micaceous 15'-30'

End Boring at 30.0'

Boring Number: **FD-48**

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Log of Boring: **FD-49**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			Bituminous concrete	0						
	F		Dk. br. f-c sand, some silt, little f-c gravel mixed with variable amounts of cinders & ash (FILL)	1–10				19		
	F		Dk. br. f-c sand, some silt, little f-c gravel (FILL)	10–15				13		
	F			15–18				13		
-18.5	S		Br. f-c sand, some f-c gravel, tr. silt (SP)	18–20				21		oil-like staining between 15'-18'
-20.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP)	20–25				83		
-25.0	S		Br. m-f sand, tr. silt (SP-SM)	25–30				39		highly micaceous 25'-30'
-30.0			End Boring at 30.0'	30						

Boring Number: **FD-49**

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Log of Boring: **FD-5**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. m-f sand, little f-c gravel, little silt, mixed with variable amounts of cinders (FILL)	0						
			Cinders & ash (FILL)	1–4				5		
			Br. f-c sand, some silt, little f-c gravel (FILL)	5–6						
			Blk. f-c sand, little silt, mixed with variable amounts of cinders & ash (FILL)	7–9				12		
5.0				10						
	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	11–15				74		
-2.0				16						
	M		Gray silt, little f sand (ML)	17–20				27		
				21–24				11		micaceous 17'-30'
				25						
-15.0				26–29				12		
			End Boring at 30.0'	30						

Boring Number: **FD-5**

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Log of Boring: **FD-51**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
14.5	TS		Topsoil	0						
	F		Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of cinders, coal & cobbles (FILL)	1–5				74		
9.0				6						
			Br. f sand, some silt (SM)	7–10				21		
				11–15				24		highly micaceous 6'-30'
	S			16–20				24		
			Br. m-f and, tr. silt (SP-SM)	21–25				22		
-15.0				26–30				33		

End Boring at 30.0'

Boring Number: **FD-51**

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Log of Boring: **FD-54**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 1.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, some f-c gravel, little silt mixed with cinders & brick frags (FILL)	0–20				15 / 13 / 8 / 76		
-19.0										
	S		Br. m-f sand, tr. silt (SP-SM)	20–25				22		
			Br. m-f sand, tr. silt (SP)	25–29				10		
-29.0			Br. f sand, some silt (SM)	29–30						

End Boring at 30.0'

Boring Number: **FD_54**

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Log of Boring: **FD-55**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
			Br. f-c sand, some f-c gravel, tr. silt mixed with variable amounts of coal (FILL)	0–5				42		Boulder at 0.5' to 1.5'
	F		Br. f-c gravel, some f-c sand, tr. silt mixed with variable amounts of cinders & brick frags (FILL)	5–15				15		
				15–20				21		
-17.8	BLD		Boulder	18–20				105		
-20.0	G		Br. f-c gravel, some f-c sand (GP)	20–22						
-21.5				22–25				31		
	S		Br. f sand, little silt (SM)	25–30				34		
-30.0			End Boring at 30.0'							

Boring Number: **FD-55**

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Log of Boring: **FD-57**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 0.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c gravel, and f-c sand, tr. silt mixed with brick and concrete frags (FILL)	0–5				30		
				5–10				17		
			Br. c-f sand, some silt, little f-c gravel mixed with variable amounts of wood, brick frags & cobbles (FILL)	10–15				10		
			Br. f-c sand, and f-c gravel, tr. silt mixed with variable amounts of mortar, brick frags & cobbles (FILL)	15–18				39		
-18.3	COB		Cobbles	18–20						
-20.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP)	20–24				61		
-24.5	S		Br. m-f sand, tr. silt (SP-SM)	24–26						highly micaceous 24.5'-26.5'
-26.5	S/G		Br. f-c sand & f-c gravel, tr. silt, frequent cobbles (SP-SM)/(GP-GM)	26–30				51		
-30.0			End Boring at 30.0'							

Boring Number: **FD-57**

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Log of Boring: **FD-59**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 14.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	F		Br. f-c sand, little f-c gravel, little silt mixed with variable amounts of cinders (FILL)	0–2				85		
			Boulder	2–3						
			Br. f-c sand, some f-c gravel, little silt, frequent cobbles (FILL)	3–5				24		
			Br. m-f sand, some silt (FILL)	5–10				43		
4.0			Br. f-c gravel, some f-c sand, tr, silt & wood (FILL)							
	G		Br. f-c gravel, and f-c sand, tr. silt, frequent cobbles (GP-GM)	10–15				49		
-0.5			Br. f sand, and silt (SM)	15–20				30		highly micaceous 14.5'-30'
	S		Br. f-c sand, and f-c gravel, tr. silt, frequent cobbles (SP-SM)	20–25				40		
			Br. m-f sand, little/some silt (SM)	25–28				43		
-16.0			End Boring at 30.0'	28–30						

Boring Number: **FD-59**

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Log of Boring: **FD-6**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 15.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 30.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
				0–30						

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Log of Boring: **FD-61**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft): 14.0	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 32.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
13.5	conc		Concrete	0						
			Cinders & ash (FILL)	1–5				9		
	F		Br. f-c sand, some f-c gravel, some silt mixed with variable amounts of cinder, ash, slag & brick frags (FILL)	5–10				9		
			Cinders & ash (FILL)	10–15				11		
-1.0	S		Br. f-c sand, some f-c gravel, little silt, frequent cobbles (SM)	15–17				34		
-3.0	Cob		Cobbles	17–18						
-4.0	G		Br. f-c gravel, and f-c sand, tr. silt, num. cobbles (GP-GM)	18–24				81 / 112		
-10.5	S/G		Br. f-c sand & f-c gravel, tr. silt, num. cobbles (SP-SM)/(GP-GM)	24–30				67		

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Log of Boring: **FD-61**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist. BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
-18.0	S/G		Br. f-c sand & f-c gravel, tr. silt, num. cobbles (SP-SM)/(GP-GM)	30–31				85		
			End Boring at 32.0'	32–68						

Boring Number: **FD-61**

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Log of Boring: **FD-7**

Project: Ansonia/Derby Levee, Ansonia, Naugatuck R.	Project Number: 04019-0001	Elevation (ft):	Datum: Site Datum
Location: Ansonia, Connecticut	Logged By:	Date Started:	Date Completed:
Drilling Contractor: ACE		Drilling Foreman:	Completion Depth (ft): 35.0
Sampler:		Casing Diameter (in):	Casing Depth (ft):
Drilling Equipment:		Sampler Hammer:	Weight (lbs): 140 / Drop (in): 30
Drilling Rig:	Drilling Mud:	Water Level (ft)	First: ▽ / Completion: ▼ / 24 HR: ▼

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	TS		Topsoil	0						
	F		Brown becoming white & gray ash, brick, coal, concrete, glass, cinders & shell frags mixed with variable amounts of sand (Fill)	1–14						
	F		Brown f-c GRAVEL, and f-c SAND, trace silt, occasional wood, coal and metal (Fill)	14–15						
	G		Gray brown f-c GRAVEL, and f-c SAND, trace silt (GP)	15–20						
	S		Gray brown f-c SAND, somef-c gravel, trace silt, occasional cobbles (SP-SM)	20–28						
	Cobb		Cobbles	28–30						

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Log of Boring: **FD-7**

Elev. (ft)	Strata	Material Symbol	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. Resist BL/6in	N-Value (Blows/foot) 0 10 20 30 40 50	Remarks
	S		Brown f-c SAND, some silt, little f-c gravel (SM)	30–35						
			End Boring at 35.0'	35–68						

Boring Number: **FD-7**