Shaw Environmental & Infrastructure, Inc.

Shaw The Shaw Group Inc.™

101-1 Colin Drive
Holbrook, New York 11741
Phone: (631) 472 4000
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MONITORING WELL LOG

PROJECT NUMBER: 133191 | **TAYLOR LANE - COMPOST SITE, MAMARONECK, NY**

MONITORING WELL - MW - 4 S

UTILITY CLEARANCE (0' - 5')
DATE: **10.02.2008**

DATE STARTED: **10.02.2008**
GROUNDWATER LEVEL: **1.5 Ft**

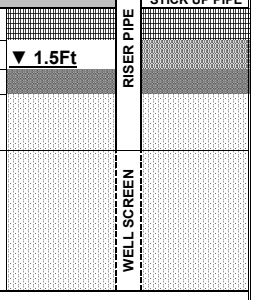
DATE COMPLETED: **10.02.2008**
TOTAL WELL DEPTH: **10.0 Ft**
WELL SCREEN SLOT SIZE: 0.020
SAND SIZE: # 1

GEOLOGIST: **Sanjay Sharma**
WEATHER: **52° F, Windy**

DRILLING METHOD: **Geo Probe - 6610 DT with Augers**
PAGE: 1of 1

DEPTH (ft)	BLOW COUNTS	RECOVERY (%)	DEPTH (ft)	DESCRIPTION	USCS SYMBOL	SAMPLE DEPTH (Ft)	PID DATA (ppm)	REMARKS
5.0	HAND CLEARANCE		0.0 - 1.5	Dark gray to black M-C SAND, large GRAVEL, moist				
			1.50 - 5.0	Dark gray F-M SILTY SAND with few clayey patches medium PEBBLES, Wet at 1.5 feet. Sand is more clayey after 3.5 feet bgs				
10.0	N/A	100	5.00 - 6.00	Same as before	SP	NO SAMPLE	0.0	NO ODOR
			6.00 - 10.00	M-C brown to grey SAND, fine to medium GRAVEL, few PEBBLES, at places very coarse SAND, wet				
15.0	N/A	100	10.0-13.0	Same as before				
			13.0-15.0	Red brown M-C SAND, few medium PEBBLES & GRAVEL. Wet				
17.0	N/A	100	15.0-17.0	Yellowish brown F-M SILTY SAND, rock pieces,				
	Refusal at 17.00 feet							

WELL CONSTRUCTION (2" Ø)



NOTES:

Drilling Contractor: **ADT**
Drilling Equipment: **Geo Probe - 6610 DT with Augers**
Driller: **Chris & Dave**

Macro Core Sampling at 5' intervals.
After macro core sampling the hole was augured.
▼ Groundwater Level intercepted in Soil Boring.
bgs = Below ground surface

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MONITORING WELL LOG

PROJECT NUMBER: 133191 | **TAYLOR LANE - COMPOST SITE, MAMARONECK, NY**

MONITORING WELL - MW - 4 D

UTILITY CLEARANCE (0' - 5') | DATE STARTED: **10.02.2008** | DATE COMPLETED: **10.03.2008**

DATE: **10.02.2008** | GROUNDWATER LEVEL: **1.5 Ft** | TOTAL WELL DEPTH: **16.0 Ft** | **WELL SCREEN SLOT SIZE: 0.020** | **SAND SIZE: # 1**

GEOLOGIST: **Sanjay Sharma** | WEATHER: **52° F, Partly cloudy, Windy**

DRILLING METHOD: Geo Probe - 6610 DT with Well Drive point | PAGE: 1of 1

DEPTH (ft)	BLOW COUNTS	RECOVERY (%)	DEPTH (ft)	DESCRIPTION	USCS SYMBOL	SAMPLE DEPTH (Ft)	PID DATA (ppm)	REMARKS	WELL CONSTRUCTION (2" Ø)	WELL COVER & STICK UP PIPE
			0.0 - 1.5	Dark gray to black M-C SAND, large GRAVEL, moist					CONCRETE PAD	
	HAND CLEARANCE		1.50 - 5.0	Dark gray F-M SILTY SAND with few clayey patches medium PEBBLES, Wet at 1.5 feet. Sand is more clayey after 3.5 feet bgs					▼1.50 Ft GROUT	RISER PIPE
5.0										
	N/A	N/A	5.00 - 6.00	Same as before						
			6.00 - 10.00	M-C brown to grey SAND, fine to medium GRAVEL, few PEBBLES, at places very coarse SAND, wet	SP	NO SAMPLE	0.0	NO ODOR	BENTONITE	
10.0									SAND ABOVE WELL SCREEN	
	N/A	N/A	10.0-13.0	Same as before					SAND	WELL SCREEN
			13.0-15.0	Red brown M-C SAND, few medium PEBBLES & GRAVEL. Wet						
15.0										
16.0	N/A	N/A	15.0-16.0	Yellowish brown F-M SILTY SAND, rock pieces,						

Well Bottom at 16 Ft

NOTES:

Drilling Contractor: **ADT**

Drilling Equipment: **Geo Probe - 6610 DT**

Driller: **Chris & Dave**

No macro core sampling as it was done in MW-4 S.

Soil Description is same as in MW-4 S.

Well Drive Point hit Refusals at 15 Ft and 16 Ft.

▼ Groundwater Level intercepted in Soil Boring.

bgs = Below ground surface

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MONITORING WELL LOG

PROJECT NUMBER: 133191 | **TAYLOR'S LANE - COMPOST SITE, MAMARONECK, NY**

MONITORING WELL - MW - 4M

UTILITY CLEARANCE (0' - 5')
DATE: **04.27.2009**
GEOLOGIST: **Sanjay Sharma**
DRILLING METHOD: **8" ID (Ø) Hollow Stem Auger**

DATE STARTED: **04.27.2009**
GROUNDWATER LEVEL: **4.0 Ft bgs**

DATE COMPLETED: **04.27.2009**
TOTAL WELL DEPTH: **20.0 Ft (6" Ø)** **WELL SCREEN SLOT SIZE: 0.030** **SAND SIZE: # 1**
WEATHER: **82°F, Clear, Sunny, ENE -Wind**
PAGE: **1of 1**

DEPTH (ft)	BLOW COUNTS	RECOVERY (%)	DEPTH (ft)	DESCRIPTION	USCS SYMBOL	SAMPLE DEPTH (Ft)	PID DATA (ppm)	REMARKS	WELL CONSTRUCTION (6" Ø)	RISER PIPE (6"Ø)	WELL COVER & STICK UP PIPE
	HAND CLEARANCE		0.0 - 0.5	PEAT - Vegetation (Grasses)					BENTONITE		
			0.5 - 2.5	Dark brown to black M-C SAND, more PEBBLES, GRAVEL, and rocks & bricks. Hard, compact, and dry soil. **LINER at 2.5'**						LINER	at 2½' bgs
5.0			2.5 - 5.0	FILL - Black SILTY SAND. Debris - glass pieces, rubber, plastics. Dry up to 3.0' bgs, moist up to 4.0'bgs and then wet.					SAND ABOVE WELL SCREEN	▼ 4.0Ft	
	2/2/3/5	50	5-7	FILL - M-F SAND and debris as before. Asphaltic (?) material Wet	FILL				SAND		
	5/8/3/2	30	7-9	Same as before, more GRAVEL Wet							
10.0	3/4/5/3	50	9-11	FILL - Light brown M-C SAND and debris as before. Wet		NO SAMPLE	0.0	NO ODOR NO GASES		WELL SCREEN (6" Ø)	
	4/5/5/7	40	11-13	Light brown F-C SAND, little fine GRAVEL and few PEBBLES Wet							
15.0	4/5/10/11	50	13-15	Greenish gray F-M SAND, more fine GRAVEL and mica flakes Wet	SP						
	5/7/6/5	100	15-16.5	Same as before							
			16.5-17	Light brown to gray SILTY SAND. Wet	SM						
	6/7/7/10	80	17-18	Black Asphaltic (?) material. Wet	FILL						
			18-19	Yellowish brown M-C SAND. Wet	SP						
20.0	6/7/8/7	50	19-21	Black Asphaltic (?) material, glass debris. Wet	FILL						
21.0									Well Bottom at 20 Ft		

NOTES:

Drilling Contractor: **ADT**

Drilling Equipment: **Track Mounted Hollow Stem Auger (CME) - 8" Inner Dia. Augers**

Driller: **Greg, Chris, and Frank**

Continuous Split spoon sampling from 5' -21' bgs

▼ Groundwater Level intercepted during hand digging.

bgs = Below ground surface

MALCOLM PIRNIE

MALCOLM PIRNIE, INC. 100 EISENHOWER DR. P.O. BOX 38 PARAMUS, NJ 07653

BORING MLC-MW-9S

PROJECT: MAMARONECK LEAF COMPOST SITE | PROJECT NO: 1547-01-1

DATE: 10 DEC. 90 | LOCATION: TAYLOR LANE, MAMARONECK

ELEVATION: | DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX., C.: 3rd COMP., ETC., MOIST., OTHER *)	WELL CONSTR.	REMARKS
SS#1	0'to2'	50%	4 12 / 12 19	0		f-vf SAND, some silt, little gravel, pulverized rock, 2" of ash (?), little organics with f-sand & silt, brown-drk brn DRY		5' of 6" DIA. STEEL CASING & LOCKING CA
SS#2	2'to4'	25%	8 12 / 36 18	2		f-m SAND, little silt, little gravel, dry med. brown.		10' of 2" I.D. Stainless (316) Casing, set from 8'
SS#3	4'to6'	50%	4 8 / 27 18	4		f- SAND, displays some lamination, drk. brn. 1" layer of organic matter (wood?) occasional gravel, med. brn. dry.		0'
SS#4	6'to8'	75%	8 12 / 10 14	6		Same, trace organics (in .5" layer) little coarse qtz. sand.		5' of cement/bent grout
SS#5	8'to10'	75%	10 11 / 11 10	8		f-c SAND, poorly sorted, one layer of uniform m-sand at approx. 9' (3" thick) Above sand layer there are many mica flakes, & alternating layers of Lt & drk. brown, dry.		5.0
SS#6	10'to12'	25%	7 9 / 8 8	10		f-c SAND and GRAVEL, trace silt, material in the shoe is wet med. brown.		1.5' of Bentonite pellets
				12				6.5'
SS 7	15-17	0	9 7 / 7 8	15		No Recovery		No. 2 sand pack placed from 6.5' to 6.5'
				17				10' of 2" I.D. Stainless (316) screen with .02" slots from 18' to 8'

NOTES: DRILLING CONTR. — EMPIRE

DRILLER — JOHN YEATON

DRILLERS HELPER — JOE RAAB

DRILLING METHOD — HOLLOW STEM AUGER

DRILLING RIG — TRACK MOUNTED CMC

MPI INSPECTOR: Edward Wiederkehr

* NOTE: M. COMP. = MAJOR COMPONENT; TEX. = TEXTURE, C. = COLOR; COMP. = COMPONENT; MOIST. = MOISTURE.

MALCOLM PIRNIE — MALCOLM PIRNIE, INC. · 100 EISENHOWER DR. · P.O. BOX 38 · PARAMUS, NJ 07653 — BORING MLC-MW-9S

PROJECT: MAMARONECK LEAF COMPOST SITE	PROJECT NO: 1547-01-1
DATE: 10 DEC. 90	LOCATION: TAYLOR LANE, MAMARONECK
ELEVATION:	DATUM:

SAMPLE no.	SAMPLE depth	SAMPLE recovery %	SAMPLE blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.; 3rd COMP., ETC., MOIST., OTHER *)	WELL CONSTR.	REMARKS
				19		BOTTOM OF BORING 19.5'		18' Bottom of screen 19.5' Bottom of sand pack

NOTES:

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BORING MLC-MW-9d

PROJECT: MAMARONECK LEAF COMPOST SITE | PROJECT NO: 1547-01-1

DATE: 11 DEC 90 | LOCATION: TAYLOR LANE, MAMARONECK

ELEVATION: | DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX., C.; 3rd COMP., ETC., MOIST., OTHER *)	WELL CONST.	REMARKS
SS#1	0'to2'	50%	4 12 / 12 9	0		f-vf SAND, some silt, little gravel pulverized rock, 2" of ash (?), little organics with f-sand & silt, brown-drk brn Dry		6" DIA. STEEL CASING & LOCKING CAP; Ground Level
SS#2	2'to4'	25%	8 12 / 36 18	2		f-m SAND, little silt, little gravel, dry med. brown.		
SS#3	4'to6'	50%	4 8 / 27 8	4		f- SAND, displays some lamination, drk. brn. 1" layer of organic matter(wood?) occasional gravel, med. brn. dry.		
SS#4	6'to8'	75%	8 12 / 10 14	6		Same, trace organics (in .5" layer) little coarse qtz. sand.		Cement Bentonite grout placed from 45' to surface
SS#5	8'to10'	75%	10 11 / 11 10	9		f-c SAND, poorly sorted, one layer of uniform m-sand at approx. 9' (3" thick) Above sand layer there are many mica flakes, & alternating layers of Lt & drk. brown, dry.		
SS#6	10'to12'	25%	7 9 / 8 8	10		f-c SAND and GRAVEL, trace silt, material in the shoe is wet med. brown.		49.5' of 4" I.D. Stainless steel (316) casing set at 48' with a 2' stick-up.
				12				
SS 7	15-17	0	9 7 / 7 8	15		No Recovery		
				17				

NOTES: DRILLING CONTR. — EMPIRE
DRILLER — JOHN YEATON
DRILLERS HELPER — JOE RAAB
DRILLING METHOD — SPIN CASING, ROCK REAMING, ROCK CORING
DRILLING RIG — TRACK MOUNTED CME

MPL INSP. Edward Underhill

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BORING MLC-MW-9d

PROJECT: MAMARONECK LEAF COMPOST	PROJECT NO: 1547-014
DATE: 11 DEC-90	LOCATION: TAYLOR LANE, MAMARONECK
ELEVATION:	DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.: 3rd COMP., ETC., MOIST., OTHER *)	TIEN.	CONST.	REMARKS
SS 8	20'-22'	0	5 8 / 8 8	20		No Recovery			
				22					
SS 9	25 to 27	15%	5 7 / 7 8	25		f- SAND, uniform, grey, wet.			49.5' of 4" I.D. stainless steel (3/16) casing set at 48' (5' into a rock socket)
SS 10	30-32	30%	4 7 / 9 14	30		m-c SAND & GRAVEL, tr. silt, grey wet.			
SS 11	34.5-36.5	10%	7 33 / 21 24	35		f-c SAND in the shoe, m-c sand above with some rk. frags, poor sorting orange/brown, wet.			Cement/bentonite grout placed from 45' to surface
SS 12	40'-42'	15%	8 43 / 15 6	40		Same			
SS 13	43.5	4%	100/4"	43		Top of bedrock 43.5'			Bentonite pellet seal, from 48' to 45'
				48		Bottom of rock socket 48'			

NOTES:

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BORING MLC-MW-14S

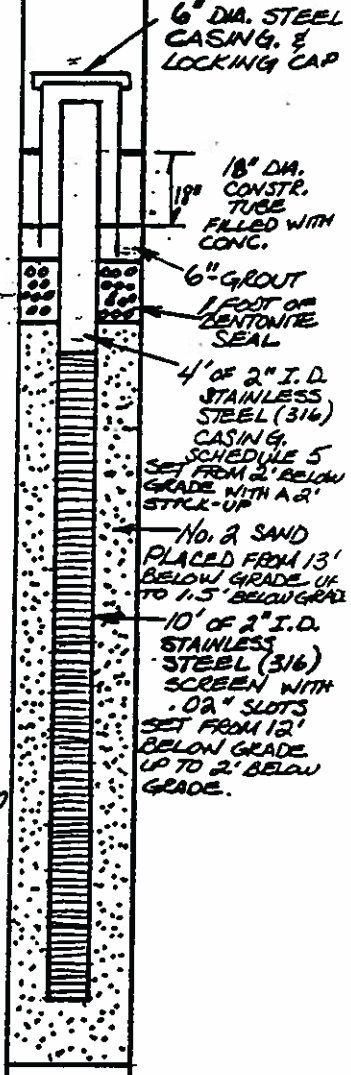
PROJECT: MAMARONECK LEAF COMPOST SITE | PROJECT NO: 1547-01-1

DATE: 26 Nov. '90 | LOCATION: TAYLOR LANE, MAMARONECK

ELEVATION: | DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.: 3rd COMP., ETC., MOIST., OTHER *)
						BACKGROUND HNU .2ppm
SS#1	0'to2'	75%	1 1 / 1 1	0		FILL, leaf compost, some wood fibers. Drk brn, damp. HNU .2ppm
SS#2	2'to4'	40%	3 2 / 1 1	2		FILL, Same, wet in lower spoon. HNU .2ppm
SS#3	4'to6'	40%	1 1 / 3 6	4		FILL, f-sand, silt, and organics broken glass frags., drk brn, wet HNU .2ppm
SS#4	6'to8'	40%	15 14 / 10 5	6		FILL, same, with little gravel, drk brn Wet. HNU .2ppm
SS#5	8'to10'	25%	10 9 / 7 5	9		FILL, some f-c sand and organics, little silt, brick frags, wood frags, drk brn Wet. HNU .2ppm
SS#6	10'to12'	25%	5 5 / 4 5	10		FILL, 3" of same, then 3" of drk gray f-c Sand, some gravel, trace silt (appears to be natural material). Wet. HNU .2ppm
				12		Bottom of boring 13'
				14		

WELL CONST.



REMARKS

NOTES: DRILLING CONTR. — EMPIRE
DRILLER — JOHN YEATON
DRILLERS HELPER — JOE RAAB
DRILLING METHOD — HOLLOW STEM AUGER
DRILLING RIG — TRACK MOUNTED CME

MPI-INSPECTOR: Gunter Wiedenroth

* NOTE: M. COMP. = MAJOR COMPONENT; TEX. = TEXTURE, C. = COLOR; COMP. = COMPONENT; MOIST. = MOISTURE

SHEET 1 OF 1

MALCOLM PIRNIE — MALCOLM PIRNIE, INC. 100 EISENHOWER DR. P.O. BOX 38 PARAMUS, NJ 07653

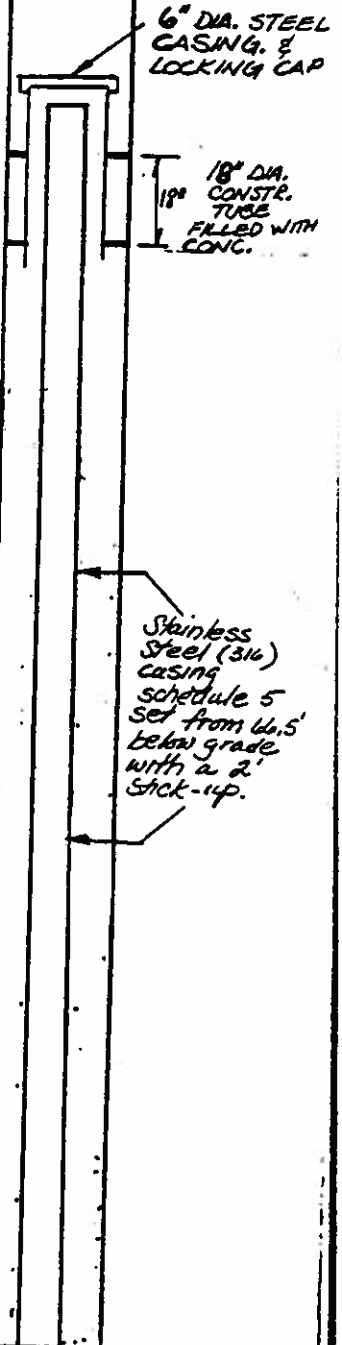
BORING MLC-MW-14d

PROJECT: MAMARONECK LEAF COMPOST SITE | PROJECT NO: 1547-01-1

DATE: 20 Nov. '90 | LOCATION: TAYLOR LANE, MAMARONECK

ELEVATION: | DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.: 3rd COMP., ETC., MOIST., OTHER *)	WELL CONSTR.	REMARKS
						BACKGROUND HNu .2 ppm		
SS#1	0'to2'	70%	WOR 1 / 1	0		FILL, compost, brown-blk, damp HNu .2 ppm		
SS#2	2'to4'	15%	2 1 / 1 2	2		FILL, same		
SS#3	4'to6'	0%	1 5 / 7 12	4		FILL, sample in shoe only, gravel with compost, wet. HNu .2 ppm		
SS#4	6'to8'	50%	16 10 / 6 16	6		FILL, f-c sand and ash(?) matrix, little gravel, blk, wet. HNu .2 ppm		
SS#5	8'to10'	60%	6 7 / 4 4	9		FILL, same		
SS#6	10'to12'	35%	5 3 / 3 9	10		FILL, top .2' compost and roots mid. .3' brick frags bot. .2' sand and possible ash matrix some silt, tr. plastics. HNu .2 ppm		
				12				
				14				
SS#7	15'to17'	60%	7 5 / 4 4	15		FILL/NATURAL CONTACT top .3' FILL c-sand w/brick frags bot. .95' f-c SAND, little silt, mica flakes tr. granite frag gravel, grey. HNu .2 ppm		



NOTES: DRILLING CONTR. — EMPIRE
DRILLER — JOHN YEATON
DRILLERS HELPER — JOE RAAB
DRILLING METHOD — HOLLOW STEM AUGERS
DRILLING RIG — TRACK MOUNTED CME

MPI INSPECTOR

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BORING MW-14d

PROJECT:	PROJECT NO:
DATE:	LOCATION:
ELEVATION:	DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.: 3rd COMP., ETC., MOIST., OTHER *)	WELL CONST.	REMARKS
SS# 8	30'to32'	25%	2 1 / 1 1	20		f-vf SAND, some silt, little med. sand tr. c-sand, gray. HNU .2ppm		
SS# 9	25'to27'	20%	1 1 / 2 3	25		SILT, some vf-sand and clay tr. f-sand, mica, gray. HNU .2ppm		
SS 10	30'to32	0%	2 2 / 2 3	30		WASH, silt and vf-sand. HNU .2pp		
SS 11	35'to37'	0%	2 2 / 3 3	35		WASH, same		63' of a cement/bentonite slurry, tremied from 63' up to grade.
SS 12	40'to42'	30%	4 3 / 3 5	40		vf-SAND and SILT, some f-sand tr. clay, med. sand, mica flakes fining downward, well sorted, grey HNU .2 ppm		
SS 13	45'to47'	50%	3 2 / 2 3	45		same, w/ little f-sand and clay, tr mica lt. gray, well sorted HNU .2ppm		
SS 14	50'to52'	42%	2 2 / 2 2	50		Same, w/ trace f.-sand and clay		
SS 15	55'to57'	40%	2 2 / 3 4	55		SILT, tr. vf-f sand, clay, mica, very well sorted. HNU .2 ppm		

NOTES:

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MALCOLM PIRNIE

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BORING MW-14d

PROJECT:	PROJECT NO:
DATE:	LOCATION:
ELEVATION:	DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRAT	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. / C.: 3rd COMP., ETC., MOIST., OTHER *)	WELL CONST.	REMARKS
SS 16	60'to62'	25%	1 2 / 3 4	60		clayey SILT, to SILT, (1) 1/4" thick sandy silt layer, vf-bedding, gray HNU .2ppm		63' Bentonite Seal
SS 17	65'to67'	0%	2 2 / 2 3	65		WASH, silt and vf.-sand. HNU .2ppm		65' 11.5' of #6.1 sand placed from 76.5' up to 65'
SS 18	70'to72'	50%	3 2 / 8 11	70		layered SILT and SAND, 1/2" to 1 1/2" sandy silty layers, 1/8" to 1/4" vf.-m. sand layers, grey. HNU .2ppm		66.5' 10' of stainless steel (3/4") screen with .00" slots
SS 19	75'to76.5'	12%	13 18 / 8 13	75		COBBLE in shoe of spoon, gneiss(?) .2' SILT and f-m. SAND, some c-sand trace vc-Sand, grey. HNU .2ppm		76.5'
						Bottom of Boring 76.5' (Auger Refusal) Top of Rock		

NOTES:

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MALCOLM PIRNIE — MALCOLM PIRNIE, INC. 100 EISENHOWER DR. P.O. BOX 36 PARAMUS, NJ 07653

BORING MLC-MW-15d

PROJECT: MAMARONECK LEAF COMPOST SITE	PROJECT NO: 1547-01-1
DATE: 27 Nov 90	LOCATION: TAYLOR LANE, MAMARONECK
ELEVATION:	DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRATA	SOIL DESCRIPTION (M. COMP.. TEX.. C.. 2nd COMP.. TEX.. C.: 3rd COMP.., ETC.. MOIST.. OTHER *)	WELL CONST.	REMARKS
						BACK GROUND HNU .1 to .2 ppm.		6" DIA. STEEL CASING & LOCKING CAP
SS#1	0'to2'	50%	2 1 / 2 4	0		FILL, organic, compost, poorly sorted f-m sand matrix, little gravel, 3" wood in shoe, drk brn, damp, HNU .1--.2		grade
SS#2	2'to4'	25%	19 20 / 4 3	2		FILL, Wood core HNU-.1		2" I.D. Stainless steel (316) casing set from 29.5' below grade with a 2' stick-up
SS#3	4'to6'	15%	2 1 / 2 2	4		FILL, compost organics, f-m sand matrix little gravel, wood in shoe, drk brn, damp HNU .1--.2		
SS#4	6'to8'	10%	1 2 / 1 3	6		FILL, same		4" Stainless casing (316) set from 29.1' below grade with a 2' stick-up
SS#5	8'to10'	45%	15 60 / 5 5	8		FILL, organic material, wood frags "rooty" material, some wire, bark, 5" of wood core, drk brn, No HNU.		
SS#6	10'to12'	10%	1 2 / 1 1	10		FILL, organic f-sand matrix, some silt, drk brn, wet, No HNU reading. (possible wash?)		Cement/bentonite grout placed from 25.5' to grade
				12				
				15				
				17				

NOTES: DRILLING CONTR. — EMPIRE
DRILLER — JOHN YEATON
DRILLERS HELPER — JOE RAAB
DRILLING METHOD — SPIN CASING AND Rock Coring
DRILLING RIG — TRACK MOUNTED CME

MPI INSPECTOR: Edward Woodford

* NOTE: M. COMP. = MAJOR COMPONENT; TEX. = TEXTURE, C. = COLOR, COMP. = COMPONENT, MOIST. = MOISTURE

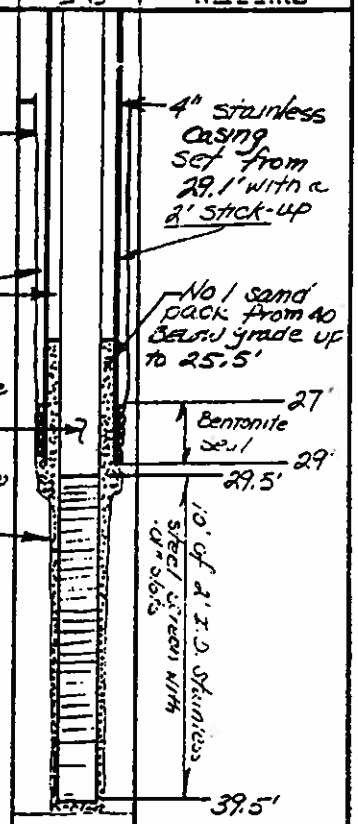
MALCOLM PIRNIE — MALCOLM PIRNIE, INC. 100 EISENHOWER DR. P.O. BOX 36 PARAMUS, NJ 07653

BORING MLC-MW-15d

PROJECT: MAMARONECK LEAF COMPOST	PROJECT NO:
DATE: 27 Nov 90	LOCATION:
ELEVATION:	DATUM:

SAMPLE no.	depth	recovery %	blows per 6"	DEPTH	STRAT	SOIL DESCRIPTION (M. COMP., TEX., C., 2nd COMP., TEX. C.; 3rd COMP., ETC., MOIST., OTHER *)
				18'		At 18.5' Spin casing hit high resistance probably top of rock
SS#7	20-22	50%	16 17	20		very weathered Rock mica flakes, v.f-m quartz grains rock frags, grey-green
			19 13			
SS#8	25-27	0	100/6"	25		No Recovery Wash material
SS#9	30-32	10%	100/3"	30		Same weathered material.
				35		
				40		Due to contingencies encountered during well installation (i.e. running sands, severely weathered zones of bedrock to an undetermined depth) the constr. of this well follows the overburden well constr. rather than the deep rock well constr. as outlined in the work plan. This decision has been approved by the DEC.

WELL CONST.



REMARKS

NOTES:

* NOTE: M. COMP. = MAJOR COMPONENT; TEX. = TEXTURE, C. = COLOR, COMP. = COMPONENT, MOIST. = MOISTURE

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT, CT 06712

SHEET 1 OF 1
HOLE NO. MW-94-1-Shallow

GBI JOB NO. 85-94
PROJECT NAME Taylor Lane
LINE

FOREMAN-DRILLER R.S. J.C.
LOCATION Compost Site Project #94-8A
STATION 5' Southeast of MW-94-1 Deep

INSPECTOR A.Z.
Mamaroneck, NY
OFFSET

GROUND WATER OBSERVATIONS
AT 8 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4½"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

Start 10/13 Finish 10/13/94
DATE
SURFACE ELEV.
GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO.	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC.	SAMPLE DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT. (MIN.)	MOIST DENSITY OR CONSIST.	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
												.3'	3" Blacktop
												.5'	3" Road Pack
												2.0'	Brown-black fine-coarse SAND, trace silt and few cobbles
5		1	SS	24"	18"	8.0'	2	3	3		Dry	6.0'	PEAT
									2		Loose		
		2	SS	24"	18"	10.0'	3	2	4		Dry		
									3		Loose		
		3	SS	24"	20"	12.0'	3	2	9		Moist		
10									15		Medium	11.0'	Gray SILT.
		4	SS	24"	22"	14.0'	26	17	16		Wet	11.5'	Gray-brown coarse-fine SAND and GRAVEL, trace silt.
									12		Dense		
		5	SS	24"	24"	16.0'	WOR	12"	5		Wet		Tan very fine-medium SAND,
15									5		Loose	15.0'	trace gravel and silt.
												16.0'	
												EOB	END OF BORING 16.0' Soil
													Set well at 16.0'
20													Sand to 4.0'
													Bentonite to 3.0'
													Grout to 1.0'
25													7 Bags Morie #1
													½ Bag Bentonite
													2 Bags Portland
													1 Curb Box
30													10.0' Screen
													6.0' Riser
35													
40													

TYPE OF SAMPLES:
D=DRY W=WASHED C=CORED A=AUGER SS=SPLIT SPOON
UB=UNDISTURBED BALL CHECK UP=UNDISTURBED PISTON VT=VANE SPOON
PROPORTIONS USED TRACE=0-10% LITTLE=10-20% SOME=20-35%. AND=35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT, CT 06712

SHEET 1 OF 1
HOLE NO. MW-94-2-Shallow

GBI JOB NO. 85-94

PROJECT NAME: Taylor Lane

LINE:

FOREMAN-DRILLER: R.S. J.C.

LOCATION: Compost Site Project #94-8A

STATION:

INSPECTOR: A.Z.

Mamaroneck, NY

OFFSET:

GROUND WATER OBSERVATIONS
AT 6 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4½"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

DATE: Start 10/13 Finish 10/13/94
SURFACE ELEV.:
GROUND WATER ELEV.:

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC.	SAMPLE DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT. (MIN.)	MOIST DENSITY OR CONSIST.	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
5		1	SS	24"	6"	8.0'	4	3	7		Wet		Dark Gray fine-coarse SAND,
									8		Medium		little silt, trace gravel.
		2	SS	24"	6"	10.0'	6	8	38		Wet		Dark tan CLAY, little silt.
									48		Dense		
10		3	SS	24"	24"	12.0'	21	28	26		Wet		Dark gray fine-coarse SAND, some
									20		Dense		gravel, trace silt.
		4	SS	24"	24'	14.0'	6	12	13		Wet		Gray fine-coarse SAND and GRAVEL
									15		Medium		
												14.0'	
15												EOB	END OF BORING 14.0' Soil
													10.0' Screen
													4.0' Riser
													7 Bags Sand
20													½ Bag Bentonite Pellets
													1 Curb Box
25													
30													
35													
40													

TYPE OF SAMPLES:
D=DRY W=WASHED C=CORED A=AUGER SS=SPLIT SPOON
UB=UNDISTURBED BALL CHECK UP=UNDISTURBED PISTON VT=VANE SPOON
PROPORTIONS USED TRACE=0-10% LITTLE=10-20% SOME=20-35%, AND=35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT, CT 06712

SHEET 1 OF 1

HOLE NO. MW-94-3-Shallow

GBI JOB NO. 85-94

PROJECT NAME Taylor Lane

LINE

FOREMAN-DRILLER R.S. J.C.

LOCATION Compost Site Project #94-8A

STATION

INSPECTOR A.Z.

Mamaroneck, NY

OFFSET

GROUND WATER OBSERVATIONS
AT 6 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

DATE Start 10/25 Finish 10/25/94

SURFACE ELEV.

GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC.	DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT (MIN.)	MOIST DENSITY OR CONSIST.	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
5													
		1	SS	24"	24"	10.0'	4	2	2		Wet		1) Dark brown PEAT (organics)
									2	Very	Loose		
10		2	SS	24"	24"	12.0'	1	1	1		Wet		2) Same
									2	Very	Loose		
		3	SS	24"	24"	14.0'	1	2	1		Wet		3) Same
									2	Very	Loose		
		4	SS	24"	24"	16.0'	6	16	16		Wet		4) Same
15									15		Dense		
		5	SS	24"	24"	18.0'	16	20	11		Wet		5) Dark brown fine-coarse SAND
									22		Dense		and PEAT.
												18.0'	
												EOB	END OF BORING 18.0' Soil
20													
													10.0' Screen
													8.0' Riser
													7 Bags Sand
25													3/4 Bag Bentonite Pellets
													1 Curb Box
30													
35													
40													

TYPE OF SAMPLES:
D= DRY W= WASHED C= CORED A= AUGER SS= SPLIT SPOON
UB= UNDISTURBED BALL CHECK UP= UNDISTURBED PISTON VT= VANE SPOON
PROPORTIONS USED TRACE= 0-10% LITTLE= 10-20% SOME= 20-35%, AND= 35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT, CT 06712

SHEET 1 OF 2
HOLE NO. MW-94-1-Deep

GBI JOB NO. 85-94

PROJECT NAME Taylor Lane

LINE

FOREMAN-DRILLER R.S. J.C.

LOCATION Compost Site Project #94-8A

STATION

INSPECTOR A.Z.

Mamaroneck, NY

OFFSET

GROUND WATER OBSERVATIONS
AT 11 FT. AFTER 0 HOURS
AT _____ FT. AFTER _____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4¼"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

Start Finish
DATE 10/11 10/12/94
SURFACE ELEV.
GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	NO	TYPE	PEN	REC	DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT (MIN.)	MOIST DENSITY OR CONSIST.	STRATA CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR. LOSS OF WASH WATER. SEAMS IN ROCK. ETC.
		1	SS	24"	18"	3.0'	28	19	9		Dry	.3'	3" Blacktop
									10		Medium	2.0'	Black-brown fine-medium SAND, little silt, trace gravel.
5		2	SS	24"	10"	7.0'	50	42	18		Moist	5.0'	Few Cobbles and boulders
									11		Very		Cobbles
											Dense	7.0'	Brown-black fine-medium SAND, some silt, trace gravel.
10		3	SS	24"	1"	12.0'	4	3	4		Moist	10.0'	Same 10.5' Peat
									8		Loose		
												13.0'	Change
15		4	SS	24"	8"	17.0'	10	8	10		Wet	15.0'	Brown fine SAND, trace medium
									13		Medium		sand and gravel.
20		5	SS	24'	24'	22.0'	14	12	13		Wet	20.0'	Tan fine SAND, little silt.
									12		Medium	21.5'	Gray fine SAND, little silt, trace medium sand.
25		6	SS	24"	24"	27.0'	8	6	7		Wet	25.0'	Gray very fine-fine SAND,
									8		Medium		little to trace silt.
30		7	SS	24"	24'	32.0'	11	12	14		Wet	30.0'	Gray-brown coarse to fine
									22		Medium		SAND, some gravel, trace silt.
35		8	SS	24"	24'	37.0'	26	12	8		Wet	35.0'	Same
									8		Medium		
40		9	SS	24"	24'	42.0'	5	8	10		Wet	40.0'	Gray very fine-fine SAND,
									20		Medium		little silt.

TYPE OF SAMPLES:
D=DRY W=WASHED C=CORED A=AUGER SS=SPLIT SPOON
UB=UNDISTURBED BALL CHECK UP=UNDISTURBED PISTON VT=VANE SPOON
PROPORTIONS USED TRACE=0-10% LITTLE=10-20% SOME=20-35%. AND=35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT, CT 06712

SHEET 2 OF 2
HOLE NO. MW-94-1-Deep

GBI JOB NO. 85-94

PROJECT NAME: Taylor Lane

LINE

FOREMAN-DRILLER: R.S. J.C.

LOCATION: Compost Site Project #94-8A

STATION

INSPECTOR: A.Z.

Mamaroneck, NY

OFFSET

GROUND WATER OBSERVATIONS
AT 11 FT. AFTER 0 HOURS
Note: Groundwater tidal 10:30
AT 2' FT. AFTER 24 HOURS 9:00

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4¼"	1-3/8"	
HAMMER WT.		140 LBS	BIT
HAMMER FALL		30"	

DATE Start 10/12 Finish 10/12/94
SURFACE ELEV.:
GROUND WATER ELEV.:

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC	SAMPLE DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING 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.
45		10	SS	24"	24"	47.0'	7	7	14		Wet	45.0'	Same
									17		Medium		
50		11	SS	24"	12"	52.0'	W	O	R		Wet	50.0'	Same
											Very Loose		
55		12	SS	24"	18"	57.0'	12	8	5		Wet	55.0'	Gray very fine SAND and SILT.
									8		Medium		
60		13	SS	24"	24"	62.0'	W	OR/12"	18		Wet	60.0'	Same
									68		Medium	61.5'	Decomposed BEDROCK
													GNEISS, SCHIST and MICA.
												63.0'	
												EOB	END OF BORING 63.0' Soil
65													
													10.0' Screen
													53.0' Riser
													1 Bag Bentonite Pellets
70													9 Bags Morie #1
													8 Bags Cement
													1 8" Curb Box
75													
80													

TYPE OF SAMPLES:
D=DRY W=WASHED C=CORED A=AUGER SS=SPLIT SPOON
UB=UNDISTURBED BALL CHECK UP=UNDISTURBED PISTON VT=VANE SPOON
PROPORTIONS USED TRACE=0-10% LITTLE=10-20% SOME=20-35%. AND=35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT. CT 06712

SHEET 1 OF 2
HOLE NO. MW-94-2 Deep

GBI JOB NO. 85-94
PROJECT NAME Taylor Lane
LINE

FOREMAN-DRILLER R.S. J.C.
LOCATION Compost Site Project #94-8A
STATION

INSPECTOR A.Z.
Mamaroneck, NY
OFFSET

GROUND WATER OBSERVATIONS
AT 8 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4½"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

DATE Start 10/14 Finish 10/14/94
SURFACE ELEV.
GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC	SAMPLE DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT. (MIN.)	MOIST DENSITY OR CONSIST	STRATA CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
												.3'	Blacktop
												.5'	Road pack
													Brown fine-medium SAND and MICA little-some silt.
5		1	SS	24"	20"	7.0'	15	12	3			5.0'	
									2		Medium	5.8'	PEAT
												9.0'	Change
10		2	SS	24"	20"	12.0'	12	15	14			10.0'	Gray coarse to fine SAND and GRAVEL, trace silt.
									28		Loose		
												15.0'	Same
15		3	SS	24"	18"	17.0'	12	6	6				
									7		Medium		
20		4	SS	24"	24"	22.0'	12	10	7			21.0'	Gray fine-medium SAND, trace silt.
									38		Medium		
25		5	SS	24"	24"	27.0'	5	4	3				
									2		Loose		
												29.0'	Same
30		6	SS	24"	24"	32.0'	WOR	4	3				
									8		Loose		
35		7	SS	24"	24"	37.0'	4	5	7			35.0'	Light gray very fine-fine SAND, little to some silt.
									8		Medium		
40		8	SS	24"	24"	42.0'	WOR	12"	8			40.0'	Same

7 Medium

TYPE OF SAMPLES:
D=DRY W=WASHED C=CORED A=AUGER SS=SPLIT SPOON
UB=UNDISTURBED BALL CHECK UP=UNDISTURBED PISTON VT=VANE SPOON
PROPORTIONS USED TRACE=0-10% LITTLE=10-20% SOME=20-35%. AND=35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT. CT 06712

SHEET 2 OF 2
HOLE NO MW-94-2-Deep

GBI JOB NO. 85-94

PROJECT NAME: Taylor Lane

LINE

FOREMAN-DRILLER: R.S. J.C.

LOCATION: Compost Site Project #94-8A

STATION

INSPECTOR: A.Z.

Mamaroneck, NY

OFFSET

GROUND WATER OBSERVATIONS
AT 8 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4¼"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

Start 10/13 Finish 10/13/94
DATE
SURFACE ELEV.
GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC	SAMPLE DEPTH & BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	DRILLING TIME PER FT MIN	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS, ROCK, ETC
45		9	SS	24"	24"	47.0'	W	10	R/24"			45.0'	Same
50		10	SS	24"	24"	52.0'	10	23	18				Same
									21		Dense	52.0'	
55		11	SS	24"	24"	57.0'	7	8	11				Same
									12		Medium	57.0'	
60		12	SS	9"	9"	62.0'	63	63/3"					Gray very fine-fine SAND, with claying silt layers.
											Very Dense	62.0'	
65		13	SS	19"	19"	67.0'	7	11	50				Same
									50/1"		Very Dense	67.0'	
												69.8'	Gray medium-fine SAND and SILT, some medium gravel.
70		14	SS	2"	2"	69.8'	90/2"				Very Dense	EOB	END OF BORING 69.8' Soil
75													10.0' Screen 55.0' Riser 8 Bags Sand 3/4 Bag Bentonite Pellets 8 Bags Cement 1 Gel 1 Curb Box
80													

TYPE OF SAMPLES:
D= DRY W= WASHED C= CORED A= AUGER SS= SPLIT SPOON
UB= UNDISTURBED BALL CHECK UP= UNDISTURBED PISTON VT= VANE SPOON
PROPORTIONS USED TRACE= 0-10% LITTLE= 10-20% SOME= 20-35%. AND= 35-50%

CLIENT: Village of Mamaroneck

General Borings, Inc.

P.O. BOX 7135 PROSPECT. CT 06712

SHEET 1 OF 1
HOLE NO. MW-94-3-Deep

GBI JOB NO. 85-94
PROJECT NAME Taylor Lane
LINE

FOREMAN-DRILLER R.S. J.C.
LOCATION Compost Site Project #94-8A
STATION

INSPECTOR A.Z.
Mamaroneck, NY
OFFSET

GROUND WATER OBSERVATIONS
AT 6 FT. AFTER 0 HOURS
AT ____ FT. AFTER ____ HOURS

	CASING	SAMPLER	CORE BAR.
TYPE	HA	SS	
SIZE I.D.	4"	1-3/8"	
HAMMER WT.		140 LBS.	BIT
HAMMER FALL		30"	

DATE Start 10/26 Finish 10/27/94
SURFACE ELEV. ____
GROUND WATER ELEV. ____

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	SAMPLE TYPE	SAMPLE PEN	SAMPLE REC.	SAMPLE DEPTH @ BOT	BLOWS PER 6" ON SAMPLER (FORCE ON TUBE) 0-6	6-12	12-18	CORING TIME PER FT. (MIN.)	MOIST DENSITY OR CONSIST	STRATA CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR. LOSS OF WASH WATER. SEAMS IN ROCK. ETC.
5		1	SS	24"	24"	7.0'	18	15	5		Wet		1) Gray fine-medium SAND, trace
									3		Loose		fine gravel.
10		2	SS	24"	24"	12.0'	11	4	2		Wet		2) Dark brown PEAT.
									3		Loose		
15		3	SS	24"	24"	17.0'	5	3	3		Wet		3) Gray fine-medium SAND, trace
									3		Loose		silt.
20		4	SS	24"	24"	22.0'	8	8	8		Wet		4) Same
									6		Medium		
25		5	SS	24"	24"	27.0'	3	4	6		Wet		5) Gray fine-medium SAND and
									6		Medium		GRAVEL, trace silt.
30		6	SS	24"	8"	32.0'	4	11	46		Wet		6) Gray fine SAND and fine-
									70	Very	Dense		coarse GRAVEL and ROCK FRAGMENTS
												32.0'	
												EOB	END OF BORING 32.0' Soil
35													20.0' Riser
													10.0' Screen
													8 Bags Sand
													3 Bags Grout
													1 Bag Bentonite Pellets
40													1 Curb Box

TYPE OF SAMPLES:
D= DRY W= WASHED C= CORED A= AUGER SS= SPLIT SPOON
UB= UNDISTURBED BALL CHECK UP= UNDISTURBED PISTON VT= VANE SPOON
PROPORTIONS USED TRACE= 0-10% LITTLE= 10-20% SOME= 20-35%. AND= 35-50%