HTW DRILLING LOG

HOLE NO. WC-4S

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants	2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT	4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: BRETT SWIATEK	6. MANUFACTURER'S DESIGNATION OF DRILL
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME-75; Stainless steel 2" split spoons	8. HOLE LOCATION
	9. SURFACE ELEVATION: 5.89
	10. DATE STARTED: 6-10-92 / 11. DATE COMPLETED: 6-10-92
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: 4.5 ft
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —
14. TOTAL DEPTH OF HOLE: 13 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	✓	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi-VOs	PCBs	—	—%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0.5 ↓ 2.5 ft	Asphalt pavement SM- Brown silty fine to med sand, tr gravel. Concrete and asphalt frag.	0.3		WC-4S -0.5 -2.5	5-7 -9 -6	Bkg-0.2-0.5 Rec'd 16" Time 1355
	2.5 ↓ 4.5 ft	S.A.A. tip of spoon wet More rig over, take spoon from this depth for more sample. Augered to 4.5 ft	0.2 ppm 0.0 ppm		WC-4S -2.5 -4.5	2-3 -3 -1	Rec'd 4" Rec'd 5" Time 1410 Time 1530
	4.5 ↓ 6.5 ft	S.A.A., wet.	0.0 ppm			WH	Rec'd 1" Time 1420
		Augered to 10 ft					
	10 ↓ 12 ft	SP- Gray-brown med sand, tr gravel. Black organic silt in tip of spoon.	0.0 ppm	SS-4		WH	Rec'd 7" Time 1435

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-4S

HTW DRILLING LOG

HOLE NO. WC-4S

PROJECT STRATFORD ARMY ENGINE PL

INSPECTOR M. DOMBROWSKI

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 13 ft					
		End of boring 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-4S

HTW DRILLING LOG

HOLE NO. WC-5S

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants	2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT	4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: BRETT SWIATEK	6. MANUFACTURER'S DESIGNATION OF DRILL:
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME-75; Stainless Steel 2" split spoon	8. HOLE LOCATION:
	9. SURFACE ELEVATION: 6.08
	10. DATE STARTED: 6-12-92 / 11. DATE COMPLETED: 6-12-92
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: 3 ft
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: 13 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	SS-4	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi VO	PCB	—	—%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0.8 ↓ 2.8 ft	Concrete pavement SM - Dark gray silty fine to med sand, tr gravel.	39 ppm		WC-5S -0.8 -2.8	5-3 -3 -3	Bkg. = 0.0 Rec'd 16" Time 1305
	2.8 ↓ 4.8 ft	SP - Dark gray med sand, tr gravel. Wet.	57.6 ppm		WC-5S -2.8 -4.8	5-4 -4 -2	Rec'd 12" Time 1310
	4.8 ↓ 6.8 ft	S.A.A.	163 ppm			3- 2- 2- 2	Rec'd 24" Time 1320
		Augered to 10 ft					
	10.8 ↓ 12.8 ft	SP/SM - Dark gray med sand and silty fine sand	6.7 ppm	SS-4		5-5 -5 -5	Rec'd 15" Time 1335

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-5S

HTW DRILLING LOG

HOLE NO. WC-5S

PROJECT STRATFORD ARMY ENGINE PL

INSPECTOR M. DOMBROWSKI

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 13 ft					
		End of boring 13 ft					

PROJECT: STRATFORD ARMY ENGINE PLANT

HOLE NO.: WC-5S

HTW DRILLING LOG

HOLE NO.	WC-6S
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR	EAST COAST DRILLING
3. PROJECT	STRATFORD ARMY ENGINE PLANT
4. LOCATION	STRATFORD, CT
5. NAME OF DRILLER	PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME; Stainless steel 2" split spoon
8. HOLE LOCATION	
9. SURFACE ELEVATION	7.48
10. DATE STARTED	6-8-92
11. DATE COMPLETED	6-8-92
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	4 ft
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	—
14. TOTAL DEPTH OF HOLE	13 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1		—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi VOs	PCBs	—	— %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Asphalt pavement					
	0.5 ↓ 2.5 ft	SM - Brown silty fine to med sand.	1.0 ppm		WC-6S-0.5-2.5	2-3-2-2	Bkg = 1.0 Rec'd 24" Time = 1355
	2.5 ↓ 4.5 ft	S.A.A., bottom 4" are cinders. Asphalt fragments. Bottom 4" wet.	1.0 ppm		WC-6S-2.5-4.5	1-1-1-32	Rec'd 14" Time 1405
	4.5 ↓ 6.5 ft	S.A.A., gray cinder layers, asphalt fragments, some gravel. Wet.	145 ppm			11-8-9-8	Rec'd 12" Time 1410 Field screening in tip of spoon
		↓ Augered					
	9 ↓ 11 ft	SM - Gray silty fine sand, some cinder layers, asphalt frags, brick frags.	24 ppm	SS-4		2-2-5-6	Rec'd 12" Time 1430

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-6S

HTW DRILLING LOG

HOLE NO. WC-6S

PROJECT STRATFORD ARMY ENGINE

INSPECTOR M Dembowski

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 13 ft					
		End of boring 13 ft.					

PROJECT:

HOLE NO.:

HTW DRILLING LOG

HOLE NO. WC-7S

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants	2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT	4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: PAT SCOTT	6. MANUFACTURER'S DESIGNATION OF DRILL:
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME 75; stainless steel 2" split spoon	8. HOLE LOCATION: —
	9. SURFACE ELEVATION: 7.28
	10. DATE STARTED: 6-8-92 / 11. DATE COMPLETED: 6-8-92
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: 4 ft
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: —
14. TOTAL DEPTH OF HOLE: 13 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
/	1	none	none

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi-VOs	PCBs	—	— %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M. Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Asphalt pavement					
	0.5 ↓ 2.5 ft	SM – Brown silty fine to med. sand, some gravel. Asphalt fragments.	0.0 ppm		WC-7S -0.5-2.5	4-7-10-7	Bkg = 0.0 Rec'd 13" Time 0935
	2.5 ↓ 4.5 ft	S.A.A., bottom 3" are wet.	0.0 ppm		WC-7S -2.5-4.5	9-4-4-3	Rec'd 10" Time 0940
	4.5 ↓ 6.5 ft	S.A.A., top half is brown, bottom half is gray, all is wet.	0.0 ppm			2-1-1-1	Rec'd 24" Time 0950
		↓ Auger to 10 ft					
	10 ↓ 12 ft	OL – Dark gray organic silt, tr pyrite.	0.0 ppm	SS-4		WH-1-1-2	Rec'd 15" Time 1010

PROJECT: STRATFORD ARMY ENGINE PLANT

HOLE NO.: WC-7S

HTW DRILLING LOG

HOLE NO. WC-7S

PROJECT: STRATFORD ARMY ENGINE PLANT

INSPECTOR: M. DOMBROWSKI

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 13 ft					
		End of boring 13 ft					

HTW DRILLING LOG

HOLE NO. WC-8S

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: Woodward-Clyde Consultants	2. DRILLING SUBCONTRACTOR: EAST COAST DRILLING
3. PROJECT: STRATFORD ARMY ENGINE PLANT	4. LOCATION: STRATFORD, CT
5. NAME OF DRILLER: PAT SCOTT	6. MANUFACTURER'S DESIGNATION OF DRILL:
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CME-75; stainless steel 2" split spoon	8. HOLE LOCATION:
	9. SURFACE ELEVATION: 7.48
	10. DATE STARTED: 6-18-92 / 11. DATE COMPLETED: 6-18-92
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: 4 ft
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: —	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
/	SS-3	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi VOs	—	—	—%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0.5 ↓ 2.5 ft	Asphalt pavement SM- Dark brown silty fine sand, tr charcoal fragments.	19 ppm		WC-8S -0.5 -2.5	9-8 -5 -3	Bkg 0.0ppm Rec'd 19" Time 0925 FB061892
	2.5 ↓ 4.5 ft	S.A.A. Tip of spoon is wet. Peat in tip of spoon.	17 ppm		WC-8S -2.5 -4.5	1-2 -1 -1	Rec'd 20" Time 0930
	4.5 ↓ 6.5 ft	PT - Dark brown peat, Wet.	0.0 ppm			2-2 -1 -2	Rec'd 24" Time 0940
		Augered to 10 ft					
	10 ↓ 12 ft	SW - Brown fine to med sand.	0.0 ppm	SS-4		2-3 -5 -5	Rec'd 12" Time 0955

PROJECT: STRATFORD ARMY ENGINE PLANT

HTW DRILLING LOG

HOLE NO. WC-8S

PROJECT STRATFORD ARMY ENGINE PLANT

INSPECTOR M. DOMBROWSKI

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 13 ft					
		End of boring 13 ft					

HTW DRILLING LOG

HOLE NO.	WC-9S
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR	EAST COAST DRILLING
3. PROJECT	STRATFORD ARMY ENGINE PLANT
4. LOCATION	STRATFORD, CT
5. NAME OF DRILLER	PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME 75; stainless steel 2" split spoons
8. HOLE LOCATION	
9. SURFACE ELEVATION	8.51
10. DATE STARTED	6-15-92
11. DATE COMPLETED	6-15-92
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	6 ft
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	14.0 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	
18. GEOTECHNICAL SAMPLES	1
DISTURBED	SS-4
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	3
VOC	✓
METALS	✓
OTHER (SPECIFY)	Semi VO
OTHER (SPECIFY)	—
OTHER (SPECIFY)	—
21. TOTAL CORE REC.	— %
22. DISPOSITION OF HOLE	
BACKFILLED	
MONITORING WELL	✓
OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR	M Dembrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0 ↓ 2 ft	SM- Brown silty fine sand. Push spoon down in several places due to poor recovery	0.0 ppm		WC-9S -0-2	1-1 -2-1	Bkg - 0.0 Rec'd 7" Time 0935
	2 ↓ 4 ft	S.A.A, tr gravel. Push spoon down in several places due to poor recovery	0.0 ppm		WC-9S -2-4	1-1 -1-1	Rec'd 16" Time 0940
	4 ↓ 6 ft	S.A.A. bottom is moist. Cardboard or wrap material. Resample b/c poor recovery.	0.0 ppm		WC-9S -4-6	1-2 -2-6	Rec'd 6" Time 1000
		Augered to 9 ft					
	9 ↓ 11 ft	SP - Gray-brown med sand, some gravel. Wet.	0.0 ppm	SS-4		4-6 -8-11	Rec'd 16" Time 1115

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-9S

HTW DRILLING LOG

HOLE NO. WC-9S

PROJECT: STRATFORD ARMY ENGINE PLANT

INSPECTOR: M. DAMBROWSKI

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Augered to 14 ft					
		End of boring 14 ft.					

PROJECT: STRATFORD ARMY ENGINE PLANT HOLE NO.: WC-9S

HTW DRILLING LOG

HOLE NO.	WC-10S
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Woodward-Clyde Consultants
2. DRILLING SUBCONTRACTOR	EAST COAST DRILLING
3. PROJECT	STRATFORD ARMY ENGINE PLANT
4. LOCATION	STRATFORD, CT
5. NAME OF DRILLER	PAT SCOTT
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Stainless steel 2" split spoon
8. HOLE LOCATION	
9. SURFACE ELEVATION	7.83
10. DATE STARTED	6-22-92
11. DATE COMPLETED	6-22-92
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	4.5 ft
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE	13 ft
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
none	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE REC.
2	✓	✓	Semi VO	Cyanide		— %

27. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		M Dombrowski

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Asphalt pavement					
	0.5 ↓ 2.5 ft	SM- Brown silty fine to med sand, some gravel. Brick fragments, green material	0.0 ppm		WC-10S-0.5-2.5	12-6 -10 -4	Bkg = 0.0 Rec'd 9" Time 0905
	2.5 ↓ 4.5 ft	SW- Brown to reddish brown fine to med sand, tr gravel.	0.0 ppm		WC-10S-2.5-4.5	4-4 -6 -7	Rec'd 14" Time 0910
	4.5 ↓ 6.5 ft	S.A.A., wet.	0.0 ppm			8-7 -7 -7	Rec'd 13" Time 0915
		↓ Augered to 10 ft					
	10 ↓ 12 ft	SP- Brown gravelly med to coarse sand.	5.1 ppm			6-10 -12 -8	Bkg = 4.6 ppm Rec'd 14" Time 0935