APPENDIX G

ANALYTICAL DATA

Table G.1
Analytical Results—Surface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH

Sample ID	UF00-SB7-0005	UF00-SB8-0005	UF00-SB8-0005D	UF00-SB9-0005	UF00-SB9-0005D	UF00-SB10-0005	UF00-SB10-005D	UF00-SB11-0005	UF00-SB12-0005
Sample Date	08/09/2000	08/10/2000	08/10/2000	08/10/2000	08/10/2000	08/11/2000	08/11/2000	08/11/2000	08/12/2000
Metals									
Uranium	2.1 ug/g	2.1 U ug/g	1.9 ug/g	1.5 ug/g	2.1 ug/g	2.8 ug/g	2.9 ug/g	1.6 ug/g	1.6 ug/g
PCBs									
Decachlorobiphenyl	104 ug/kg	108 ug/kg	114 ug/kg	115 ug/kg	78 ug/kg	91 ug/kg	99 ug/kg	NA	94 ug/kg
PCB-1016	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
PCB-1221	100 U ug/kg	77 U ug/kg	76 U ug/kg	80 U ug/kg	79 U ug/kg	79 U ug/kg	78 U ug/kg	NA	77 U ug/kg
PCB-1232	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
PCB-1242	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
PCB-1248	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
PCB-1254	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
PCB-1260	51 U ug/kg	39 U ug/kg	38 U ug/kg	40 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	NA	39 U ug/kg
Tetrachloro-m-xylene	95 ug/kg	98 ug/kg	105 ug/kg	90 ug/kg	58 ug/kg	88 ug/kg	95 ug/kg	NA	100 ug/kg
Radionuclides									
Actinium-227	158 U pCi/g	-11 U pCi/g	115 U pCi/g	-403 U pCi/g	-144 U pCi/g	-142 U pCi/g	-674 U pCi/g	-390 U pCi/g	52 U pCi/g
Actinium-228	1.6 pCi/g	2 U pCi/g	1.6 J pCi/g	.65 U pCi/g	.29 U pCi/g	.91 U pCi/g	.15 U pCi/g	.18 U pCi/g	1.5 J pCi/g
Alpha activity	3.4 pCi/g	5.2 pCi/g	3.9 pCi/g	3.7 pCi/g	3.5 pCi/g	3 pCi/g	3 pCi/g	3.3 pCi/g	2.7 J pCi/g
Americium-241	.015 U pCi/g	-.035 U pCi/g	.091 UJ pCi/g	.041 U pCi/g	.013 U pCi/g	-.03 U pCi/g	.054 B pCi/g	.048 U pCi/g	.06 UJ pCi/g
Beta activity	4.5 pCi/g	7.5 pCi/g	6 pCi/g	6.4 pCi/g	6.1 pCi/g	6.8 pCi/g	4.4 pCi/g	6.5 pCi/g	6.5 pCi/g
Bismuth-212	NA	NA	NA	NA	NA	NA	NA	1.8 pCi/g	NA
Bismuth-214	.65 pCi/g	.87 J pCi/g	.62 J pCi/g	.81 pCi/g	NA	NA	.97 pCi/g	.87 pCi/g	.84 J pCi/g
Cesium-134	-.0018 U pCi/g	-.12 U pCi/g	.079 U pCi/g	.26 U pCi/g	.21 U pCi/g	.4 U pCi/g	.36 U pCi/g	.29 U pCi/g	-.1 U pCi/g
Cesium-137	.022 U pCi/g	.078 U pCi/g	-.037 U pCi/g	-.034 U pCi/g	.065 U pCi/g	.25 U pCi/g	.21 U pCi/g	.092 U pCi/g	.022 U pCi/g
Cobalt-60	-.065 U pCi/g	.1 U pCi/g	.074 U pCi/g	-.065 U pCi/g	.017 U pCi/g	-.07 U pCi/g	-.056 U pCi/g	.027 U pCi/g	.039 U pCi/g
Lead-210	1.5 J pCi/g	2 J pCi/g	1.3 J pCi/g	NA	NA	NA	NA	NA	1.5 J pCi/g
Lead-212	.79 pCi/g	1 pCi/g	1 pCi/g	.72 pCi/g	1.4 pCi/g	NA	.81 pCi/g	.99 pCi/g	.91 pCi/g
Lead-214	NA	NA	.67 J pCi/g	NA	NA	NA	NA	NA	NA
Neptunium-237	0 U pCi/g	-.0097 U pCi/g	.0059 UJ pCi/g	0 U pCi/g	.02 U pCi/g	.033 U pCi/g	.009 U pCi/g	.007 U pCi/g	.015 U pCi/g
Plutonium-238	.0034 U pCi/g	.0032 U pCi/g	.003 UJ pCi/g	.0073 U pCi/g	.027 U pCi/g	.025 U pCi/g	.027 U pCi/g	.021 U pCi/g	.0061 U pCi/g
Plutonium-239/240	0 U pCi/g	-.0032 U pCi/g	0 U pCi/g	.016 U pCi/g	.013 U pCi/g	.025 U pCi/g	-.009 U pCi/g	.028 U pCi/g	0 U pCi/g
Plutonium-242	.0067 U pCi/g	-.016 U pCi/g	0 U pCi/g	.0072 U pCi/g	0 U pCi/g	.016 U pCi/g	.009 U pCi/g	0 U pCi/g	.0061 U pCi/g
Potassium-40	6.9 J pCi/g	12 pCi/g	9.5 pCi/g	9.2 pCi/g	9.4 pCi/g	NA	10 pCi/g	9.4 pCi/g	
Protactinium-231	1.1 U pCi/g	1.4 U pCi/g	1.2 U pCi/g	-2.5 U pCi/g	-1.4 U pCi/g	-3.9 U pCi/g	5.3 U pCi/g	-5.4 U pCi/g	.25 U pCi/g
Protactinium-234	.059 U pCi/g	-.022 U pCi/g	-.012 U pCi/g	.074 U pCi/g	.35 U pCi/g	.072 U pCi/g	-.74 U pCi/g	-.064 U pCi/g	-.22 U pCi/g
Radium-223	-.28 U pCi/g	.28 U pCi/g	.24 U pCi/g	-.36 U pCi/g	.28 U pCi/g	.62 U pCi/g	.95 U pCi/g	.087 U pCi/g	.72 U pCi/g
Radium-224	2 U pCi/g	2.3 UJ pCi/g	2.7 UJ pCi/g	9.3 U pCi/g	19 U pCi/g	18 U pCi/g	20 U pCi/g	17 U pCi/g	.94 U pCi/g
Radium-226	.3 U pCi/g	.59 UJ pCi/g	.67 J pCi/g	.041 JU pCi/g	-.16 JU pCi/g	.056 JU pCi/g	1.5 JU pCi/g	-.15 JU pCi/g	.65 UJ pCi/g
Radium-228	1.6 pCi/g	2 UJ pCi/g	1.6 J pCi/g	.65 U pCi/g	.29 U pCi/g	.91 U pCi/g	.15 U pCi/g	.18 U pCi/g	1.5 J pCi/g
Strontium-90	-.2 U pCi/g	.4 U pCi/g	0 U pCi/g	.6 U pCi/g	.8 U pCi/g	.2 U pCi/g	.5 U pCi/g	.6 U pCi/g	.4 U pCi/g
Technetium-99	.2 J pCi/g	.2 J pCi/g	.1 J pCi/g	.1 pCi/g	.1 pCi/g	.2 pCi/g	.4 pCi/g	.3 pCi/g	.1 J pCi/g
Thallium-208	.29 J pCi/g	NA	.46 J pCi/g	NA	.35 pCi/g	NA	NA	NA	.56 J pCi/g

Table G.1
Analytical Results—Surface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB7-0005	UF00-SB8-0005	UF00-SB8-0005D	UF00-SB9-0005	UF00-SB9-0005D	UF00-SB10-0005	UF00-SB10-005D	UF00-SB11-0005	UF00-SB12-0005
Sample Date	**08/09/2000**	**08/10/2000**	**08/10/2000**	**08/10/2000**	**08/10/2000**	**08/11/2000**	**08/11/2000**	**08/11/2000**	**08/12/2000**
Thorium-228	.75 pCi/g	.78 pCi/g	.7 pCi/g	.51 R pCi/g	.57 pCi/g	.63 pCi/g	.57 pCi/g	.56 pCi/g	.67 pCi/g
Thorium-229	-.0057 U pCi/g	.051 UJ pCi/g	0 U pCi/g	0 pCi/g	.0052 U pCi/g	.025 U pCi/g	.027 U pCi/g	.023 U pCi/g	.045 U pCi/g
Thorium-230	.87 pCi/g	.53 pCi/g	.69 pCi/g	.83 R pCi/g	.77 pCi/g	.74 pCi/g	.74 pCi/g	.66 pCi/g	.69 pCi/g
Thorium-231	.43 U pCi/g	-.14 U pCi/g	.32 U pCi/g	1.4 U pCi/g	.88 U pCi/g	.85 U pCi/g	-3.5 U pCi/g	.68 U pCi/g	.16 U pCi/g
Thorium-232	.49 pCi/g	.68 pCi/g	.72 pCi/g	.65 R pCi/g	.9 pCi/g	.51 pCi/g	.64 pCi/g	.54 pCi/g	.65 pCi/g
Thorium-234	3.3 U pCi/g	5.6 U pCi/g	.72 U pCi/g	-8.7 U pCi/g	-2.8 U pCi/g	4.4 U pCi/g	4.9 U pCi/g	-8.9 U pCi/g	2.6 J pCi/g
Uranium-233/234	.72 pCi/g	.55 pCi/g	.56 pCi/g	.48 pCi/g	.67 pCi/g	.89 pCi/g	1.1 pCi/g	.48 pCi/g	.76 pCi/g
Uranium-235	.015 U pCi/g	.007 U pCi/g	.023 U pCi/g	.0078 U pCi/g	.024 U pCi/g	.038 pCi/g	.025 U pCi/g	.02 U pCi/g	.011 U pCi/g
Uranium-236	0 U pCi/g	.013 U pCi/g	.029 U pCi/g	.035 pCi/g	.007 U pCi/g	-.0068 U pCi/g	.011 U pCi/g	0 U pCi/g	.0034 U pCi/g
Uranium-238	.69 pCi/g	.7 pCi/g	.63 pCi/g	.51 pCi/g	.72 pCi/g	.94 pCi/g	.96 pCi/g	.53 pCi/g	.54 pCi/g
Semivolatiles									
1,4-Dichlorobenzene	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
2,4,5-Trichlorophenol	1300 U ug/kg	950 U ug/kg	970 U ug/kg	1000 U ug/kg	1000 U ug/kg	990 U ug/kg	980 U ug/kg	NA	970 U ug/kg
2,4,6-Trichlorophenol	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
2,4-Dinitrotoluene	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
2-Methylphenol	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
4-Methylphenol	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Hexachlorobenzene	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Hexachlorobutadiene	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Hexachloroethane	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Nitrobenzene	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Pentachlorophenol	1300 U ug/kg	950 U ug/kg	970 U ug/kg	1000 U ug/kg	1000 U ug/kg	990 U ug/kg	980 U ug/kg	NA	970 UJ ug/kg
Pyridine	510 U ug/kg	380 U ug/kg	390 U ug/kg	410 U ug/kg	400 U ug/kg	400 U ug/kg	390 U ug/kg	NA	390 U ug/kg
Volatiles									
1,1-Dichloroethene	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
1,2-Dichloroethane	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
2-Butanone	.016 U mg/kg	.011 U mg/kg	.011 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	NA	.01 U mg/kg
Benzene	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Carbon tetrachloride	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Chlorobenzene	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Chloroform	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Tetrachloroethene	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Trichloroethene	.008 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA	.005 U mg/kg
Vinyl chloride	.016 U mg/kg	.011 U mg/kg	.011 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	NA	.01 U mg/kg

NA - Not analysis performed

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH

Sample ID	UF00-SB7-0510	UF00-SB7-1015	UF00-SB7-1520	UF00-SB7-2025	UF00-SB8-0510	UF00-SB8-1015	UF00-SB8-1520	UF00-SB8-2025
Sample Date	08/09/2000	08/09/2000	08/09/2000	08/09/2000	08/10/2000	08/10/2000	08/10/2000	08/10/2000
Sample Depth	5' - 10'	10' - 15'	15' - 20'	20' - 25'	5' - 10'	10' - 15'	15' - 20'	20' - 25'
Metals								
Uranium	1.3 ug/g	1.2 ug/g	2.3 ug/g	1.6 ug/g	1.7 J ug/g	1.3 ug/g	1.5 ug/g	2.2 ug/g
PCBs								
Decachlorobiphenyl	107 ug/kg	109 ug/kg	103 ug/kg	94 ug/kg	103 ug/kg	97 ug/kg	112 ug/kg	90 ug/kg
PCB-1016	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
PCB-1221	87 U ug/kg	80 U ug/kg	77 U ug/kg	77 U ug/kg	78 U ug/kg	80 U ug/kg	79 U ug/kg	79 U ug/kg
PCB-1232	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
PCB-1242	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
PCB-1248	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
PCB-1254	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
PCB-1260	43 U ug/kg	40 U ug/kg	38 U ug/kg	38 U ug/kg	39 U ug/kg	40 U ug/kg	39 U ug/kg	39 U ug/kg
Tetrachloro-m-xylene	80 ug/kg	85 ug/kg	105 ug/kg	92 ug/kg	90 ug/kg	80 ug/kg	102 ug/kg	72 ug/kg
Radionuclides								
Actinium-227	-18 U pCi/g	204 U pCi/g	147 U pCi/g	136 U pCi/g	34 U pCi/g	177 U pCi/g	192 U pCi/g	2.9 U pCi/g
Actinium-228	.96 U pCi/g	.79 U pCi/g	1.1 U pCi/g	1.1 J pCi/g	-.15 U pCi/g	1.6 U pCi/g	1 UJ pCi/g	1 U pCi/g
Alpha activity	3.4 pCi/g	3.7 pCi/g	3.8 pCi/g	3.3 pCi/g	3.5 pCi/g	2.1 pCi/g	1.9 J pCi/g	3.9 pCi/g
Americium-241	.12 U pCi/g	.055 U pCi/g	.012 U pCi/g	.0072 U pCi/g	.061 pCi/g	.071 UJ pCi/g	.055 U pCi/g	.1 J pCi/g
Beta activity	4.4 pCi/g	6 pCi/g	4 pCi/g	5.3 pCi/g	7.8 pCi/g	5.6 pCi/g	4.3 pCi/g	5.3 pCi/g
Bismuth-212	NA	NA	NA	NA	NA	NA	NA	NA
Bismuth-214	NA	1.2 J pCi/g	1.1 J pCi/g	1.5 pCi/g	.82 J pCi/g	.94 J pCi/g	1.3 pCi/g	.88 J pCi/g
Cesium-134	.12 U pCi/g	.087 U pCi/g	-.032 U pCi/g	-.00048 U pCi/g	.044 U pCi/g	-.043 U pCi/g	-.06 U pCi/g	.17 U pCi/g
Cesium-137	.0092 U pCi/g	-.013 U pCi/g	.013 U pCi/g	.0026 U pCi/g	.019 U pCi/g	.21 U pCi/g	.034 U pCi/g	-.032 U pCi/g
Cobalt-60	.0033 U pCi/g	.029 U pCi/g	.0064 U pCi/g	.0077 U pCi/g	-.019 U pCi/g	-.18 U pCi/g	-.022 U pCi/g	.022 U pCi/g
Lead-210	NA	1.5 J pCi/g	2.3 J pCi/g	1.2 pCi/g	NA	NA	1.4 pCi/g	NA
Lead-212	1.3 pCi/g	.87 pCi/g	.84 pCi/g	1.1 pCi/g	.95 pCi/g	1.1 pCi/g	1.2 pCi/g	1.2 pCi/g
Lead-214	NA	1 pCi/g	.88 pCi/g	NA	1.2 J pCi/g	.82 pCi/g	1.3 pCi/g	NA
Neptunium-237	-.018 U pCi/g	-.0033 U pCi/g	-.012 U pCi/g	.0057 U pCi/g	0 U pCi/g	.016 U pCi/g	.0061 U pCi/g	-.0035 U pCi/g
Plutonium-238	.0089 U pCi/g	.01 U pCi/g	.012 U pCi/g	.0029 U pCi/g	.01 U pCi/g	.0033 U pCi/g	.003 U pCi/g	.0035 U pCi/g
Plutonium-239/240	.012 U pCi/g	-.0066 U pCi/g	.0091 U pCi/g	.0057 U pCi/g	.0068 U pCi/g	0 U pCi/g	0 U pCi/g	-.0071 U pCi/g
Plutonium-242	-.003 U pCi/g	-.0033 U pCi/g	-.003 U pCi/g	-.0057 U pCi/g	0 U pCi/g	0 U pCi/g	.012 UJ pCi/g	-.0035 U pCi/g
Potassium-40	14 J pCi/g	15 pCi/g	15 pCi/g	9.3 pCi/g	13 pCi/g	12 pCi/g	13 pCi/g	13 pCi/g
Protactinium-231	-1 U pCi/g	-2.7 U pCi/g	.17 U pCi/g	-.98 U pCi/g	.21 U pCi/g	.78 U pCi/g	-.099 U pCi/g	1.4 U pCi/g
Protactinium-234	-.087 U pCi/g	-.72 U pCi/g	1 U pCi/g	-.086 U pCi/g	-.38 U pCi/g	.098 U pCi/g	.022 U pCi/g	.68 U pCi/g
Radium-223	-.13 U pCi/g	1 U pCi/g	.67 U pCi/g	.46 U pCi/g	.081 U pCi/g	.11 U pCi/g	.38 U pCi/g	.059 U pCi/g
Radium-224	2.7 U pCi/g	2.5 U pCi/g	1.7 U pCi/g	1.4 U pCi/g	1.8 U pCi/g	1.5 U pCi/g	2.5 U pCi/g	2.2 U pCi/g
Radium-226	.36 U pCi/g	1 J pCi/g	.88 J pCi/g	.91 UJ pCi/g	1.2 J pCi/g	.92 J pCi/g	1.3 J pCi/g	.6 U pCi/g
Radium-228	.96 U pCi/g	.79 U pCi/g	1.1 U pCi/g	1.1 J pCi/g	-.15 U pCi/g	1.6 U pCi/g	1 U pCi/g	1 U pCi/g
Strontium-90	.6 U pCi/g	.6 U pCi/g	.6 U pCi/g	.4 U pCi/g	.2 U pCi/g	.2 U pCi/g	1 J pCi/g	.2 U pCi/g
Technetium-99	.1 UJ pCi/g	.1 UJ pCi/g	.1 UJ pCi/g	.2 J pCi/g	.2 J pCi/g	.2 J pCi/g	.2 J pCi/g	.1 U pCi/g
Thallium-208	.51 pCi/g	.41 J pCi/g	.32 J pCi/g	.34 J pCi/g	NA	NA	.43 J pCi/g	.46 J pCi/g
Thorium-228	.3 pCi/g	.27 J pCi/g	.31 pCi/g	.45 pCi/g	.4 pCi/g	.39 pCi/g	.45 pCi/g	.51 pCi/g
Thorium-229	.057 U pCi/g	.017 U pCi/g	.052 UJ pCi/g	-.0072 U pCi/g	.03 U pCi/g	.013 U pCi/g	0 U pCi/g	.026 U pCi/g

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB7-0510	UF00-SB7-1015	UF00-SB7-1520	UF00-SB7-2025	UF00-SB8-0510	UF00-SB8-1015	UF00-SB8-1520	UF00-SB8-2025
Sample Date	08/09/2000	08/09/2000	08/09/2000	08/09/2000	08/10/2000	08/10/2000	08/10/2000	08/10/2000
Sample Depth	5' - 10'	10' - 15'	15' - 20'	20' - 25'	5' - 10'	10' - 15'	15' - 20'	20' - 25'
Thorium-230	.29 pCi/g	.12 U pCi/g	.79 pCi/g	.52 pCi/g	.46 pCi/g	.27 pCi/g	.43 pCi/g	.7 pCi/g
Thorium-231	.57 U pCi/g	.56 U pCi/g	.41 U pCi/g	.37 U pCi/g	.42 U pCi/g	.49 U pCi/g	.53 U pCi/g	.22 U pCi/g
Thorium-232	.22 J pCi/g	.2 J pCi/g	.4 pCi/g	.44 pCi/g	.38 pCi/g	.34 pCi/g	.33 pCi/g	.49 pCi/g
Thorium-234	1.5 J pCi/g	.11 U pCi/g	.72 U pCi/g	1.3 U pCi/g	2.3 J pCi/g	1.8 UJ pCi/g	1.8 J pCi/g	1.8 J pCi/g
Uranium-233/234	.39 pCi/g	.36 pCi/g	.89 pCi/g	.39 pCi/g	.6 J pCi/g	.29 pCi/g	.51 pCi/g	.63 pCi/g
Uranium-235	.0072 U pCi/g	.021 U pCi/g	.02 U pCi/g	.04 U pCi/g	.011 U pCi/g	.014 U pCi/g	.024 U pCi/g	.041 U pCi/g
Uranium-235*	NA	NA	NA	NA	.23 pCi/g	NA	.16 UJ pCi/g	NA
Uranium-236	-.0065 U pCi/g	0 U pCi/g	0 U pCi/g	.009 U pCi/g	0 U pCi/g	0 U pCi/g	.0031 U pCi/g	.018 U pCi/g
Uranium-238	.44 pCi/g	.39 pCi/g	.78 pCi/g	.53 pCi/g	.56 J pCi/g	.43 pCi/g	.49 pCi/g	.74 pCi/g
Semivolatiles								
1,4-Dichlorobenzene	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
2,4,5-Trichlorophenol	1100 U ug/kg	1000 U ug/kg	970 U ug/kg	980 U ug/kg	970 U ug/kg	970 U ug/kg	980 U ug/kg	990 U ug/kg
2,4,6-Trichlorophenol	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
2,4-Dinitrotoluene	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
2-Methylphenol	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
4-Methylphenol	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Hexachlorobenzene	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Hexachlorobutadiene	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Hexachloroethane	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Nitrobenzene	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Pentachlorophenol	1100 U ug/kg	1000 U ug/kg	970 U ug/kg	980 U ug/kg	970 U ug/kg	970 U ug/kg	980 U ug/kg	990 U ug/kg
Pyridine	440 U ug/kg	400 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	390 U ug/kg	400 U ug/kg
Volatiles								
1,1-Dichloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
1,2-Dichloroethane	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
2-Butanone	.012 U mg/kg	.011 U mg/kg	.012 U mg/kg	.01 U mg/kg	.01 U mg/kg	.013 U mg/kg	.011 U mg/kg	.011 U mg/kg
Benzene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Carbon tetrachloride	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Chlorobenzene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Chloroform	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Tetrachloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Trichloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Vinyl chloride	.012 U mg/kg	.011 U mg/kg	.012 U mg/kg	.01 U mg/kg	.01 U mg/kg	.013 U mg/kg	.011 U mg/kg	.011 U mg/kg

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB9-0510	UF00-SB9-1015	UF00-SB9-1520	UF00-SB9-2025	UF00-SB10-0510	UF00-SB10-1015	UF00-SB10-1520	UF00-SB11-0510
Sample Date	08/10/2000	08/10/2000	08/10/2000	08/10/2000	08/11/2000	8/11/2000	08/11/2000	08/11/2000
Sample Depth	5' - 10'	10' - 15'	15' - 20'	20' - 25'	5' - 10'	10' - 15'	15' - 20'	5' - 10'
Metals								
Uranium	.76 ug/g	1.6 ug/g	1.2 ug/g	1.5 ug/g	3.6 ug/g	4.3 ug/g	1.7 ug/g	1.2 U ug/g
PCBs								
Decachlorobiphenyl	109 ug/kg	93 ug/kg	99 ug/kg	119 ug/kg	NA	117 ug/kg	111 ug/kg	NA
PCB-1016	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
PCB-1221	80 U ug/kg	78 U ug/kg	78 U ug/kg	79 U ug/kg	NA	79 U ug/kg	79 U ug/kg	NA
PCB-1232	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
PCB-1242	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
PCB-1248	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
PCB-1254	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
PCB-1260	40 U ug/kg	39 U ug/kg	39 U ug/kg	39 U ug/kg	NA	40 U ug/kg	39 U ug/kg	NA
Tetrachloro-m-xylene	95 ug/kg	72 ug/kg	75 ug/kg	105 ug/kg	NA	108 ug/kg	98 ug/kg	NA
Radionuclides								
Actinium-227	-620 U pCi/g	686 U pCi/g	392 U pCi/g	-306 U pCi/g	549 U pCi/g	-235 U pCi/g	-410 U pCi/g	-490 U pCi/g
Actinium-228	.96 pCi/g	1.4 pCi/g	.59 U pCi/g	.25 U pCi/g	1.6 pCi/g	1.5 pCi/g	1 pCi/g	.66 U pCi/g
Alpha activity	3.6 pCi/g	3.2 pCi/g	2.4 pCi/g	3.4 pCi/g	2.4 pCi/g	3.8 pCi/g	3.8 pCi/g	2.3 pCi/g
Americium-241	.052 U pCi/g	.047 U pCi/g	.11 B pCi/g	.23 pCi/g	.064 U pCi/g	.03 U pCi/g	.036 U pCi/g	.043 B pCi/g
Beta activity	5.3 pCi/g	7.5 pCi/g	5.3 pCi/g	6.4 pCi/g	5.1 pCi/g	4.9 pCi/g	4.7 pCi/g	4.1 pCi/g
Bismuth-212	NA	NA	NA	NA	NA	NA	NA	NA
Bismuth-214	.89 pCi/g	1.3 pCi/g	.72 pCi/g	1.1 pCi/g	.61 pCi/g	NA	.81 pCi/g	1.2 pCi/g
Cesium-134	.4 U pCi/g	.42 U pCi/g	.22 U pCi/g	.35 U pCi/g	.33 U pCi/g	.26 U pCi/g	.18 U pCi/g	.22 U pCi/g
Cesium-137	.16 U pCi/g	.19 U pCi/g	-.0091 U pCi/g	.36 U pCi/g	.077 U pCi/g	.0079 U pCi/g	-.049 U pCi/g	.087 U pCi/g
Cobalt-60	.014 U pCi/g	.0024 U pCi/g	.067 U pCi/g	-.077 U pCi/g	.0085 U pCi/g	.11 U pCi/g	.027 U pCi/g	.015 U pCi/g
Lead-210	NA	NA	NA	NA	NA	NA	NA	NA
Lead-212	.81 pCi/g	NA	.98 pCi/g	.98 pCi/g	NA	NA	.62 pCi/g	.86 pCi/g
Lead-214	NA	NA	NA	NA	1.4 pCi/g	NA	2.2 pCi/g	NA
Neptunium-237	.0082 U pCi/g	.019 U pCi/g	-.02 U pCi/g	.0082 U pCi/g	.032 U pCi/g	.013 U pCi/g	.021 U pCi/g	.015 U pCi/g
Plutonium-238	.016 U pCi/g	.0063 U pCi/g	.02 U pCi/g	.033 U pCi/g	.0081 U pCi/g	.038 U pCi/g	0 U pCi/g	.015 U pCi/g
Plutonium-239/240	.0082 U pCi/g	.0063 U pCi/g	.0099 U pCi/g	0 U pCi/g	-.0081 U pCi/g	0 U pCi/g	.007 U pCi/g	-.0073 U pCi/g
Plutonium-242	.016 U pCi/g	.025 U pCi/g	-.03 U pCi/g	.0081 U pCi/g	.016 U pCi/g	.013 U pCi/g	.007 U pCi/g	.015 U pCi/g
Potassium-40	9.8 pCi/g	11 pCi/g	12 pCi/g	13 pCi/g	10 pCi/g	10 pCi/g	13 pCi/g	5.3 pCi/g
Protactinium-231	-5.5 U pCi/g	-7.3 U pCi/g	-.94 U pCi/g	-5.4 U pCi/g	5.4 U pCi/g	-1.8 U pCi/g	2 U pCi/g	-4 U pCi/g
Protactinium-234	-.018 U pCi/g	-.3 U pCi/g	-.007 U pCi/g	.041 U pCi/g	.36 U pCi/g	-.39 U pCi/g	-.11 U pCi/g	.26 U pCi/g
Radium-223	1.1 U pCi/g	1 U pCi/g	.81 U pCi/g	.66 U pCi/g	-.42 U pCi/g	1.2 U pCi/g	1.3 U pCi/g	.071 U pCi/g
Radium-224	23 U pCi/g	16 U pCi/g	24 U pCi/g	20 U pCi/g	16 U pCi/g	17 U pCi/g	22 U pCi/g	20 U pCi/g
Radium-226	.1 JU pCi/g	-.23 JU pCi/g	1.1 JU pCi/g	.58 JU pCi/g	1.4 J pCi/g	-.0069 JU pCi/g	2.2 J pCi/g	-.12 JU pCi/g
Radium-228	.96 pCi/g	1.4 pCi/g	.59 U pCi/g	.25 U pCi/g	1.6 pCi/g	1.5 pCi/g	1 pCi/g	.66 U pCi/g
Strontium-90	.6 U pCi/g	.2 U pCi/g	.3 U pCi/g	.8 U pCi/g	.2 U pCi/g	.3 U pCi/g	0 U pCi/g	.1 U pCi/g
Technetium-99	.1 pCi/g	.2 pCi/g	.2 pCi/g	.3 pCi/g	.2 pCi/g	.1 pCi/g	.1 U pCi/g	.2 pCi/g
Thallium-208	.44 pCi/g	.37 pCi/g	.34 pCi/g	.37 pCi/g	.36 pCi/g	NA	NA	.45 pCi/g
Thorium-228	.13 U pCi/g	.48 pCi/g	.48 pCi/g	.27 pCi/g	.57 pCi/g	.35 pCi/g	.13 pCi/g	.32 pCi/g
Thorium-229	.037 U pCi/g	.016 U pCi/g	.018 U pCi/g	.0053 U pCi/g	.025 U pCi/g	.012 U pCi/g	.012 U pCi/g	.0055 U pCi/g

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB9-0510	UF00-SB9-1015	UF00-SB9-1520	UF00-SB9-2025	UF00-SB10-0510	UF00-SB10-1015	UF00-SB10-1520	UF00-SB11-0510
Sample Date	08/10/2000	08/10/2000	08/10/2000	08/10/2000	08/11/2000	8/11/2000	08/11/2000	08/11/2000
Sample Depth	5' - 10'	10' - 15'	15' - 20'	20' - 25'	5' - 10'	10' - 15'	15' - 20'	5' - 10'
Thorium-230	.24 B pCi/g	.35 B pCi/g	.44 pCi/g	.46 B pCi/g	.77 pCi/g	.43 pCi/g	.36 pCi/g	.36 pCi/g
Thorium-231	-.34 U pCi/g	-.42 U pCi/g	-2.8 U pCi/g	-1.2 U pCi/g	-1.5 U pCi/g	-.087 U pCi/g	-3.3 U pCi/g	.15 U pCi/g
Thorium-232	.28 pCi/g	.41 pCi/g	.4 pCi/g	.32 pCi/g	.53 pCi/g	.43 pCi/g	.25 pCi/g	.32 pCi/g
Thorium-234	-3.7 U pCi/g	17 U pCi/g	-7 U pCi/g	-9.5 U pCi/g	9.8 U pCi/g	1.1 U pCi/g	-6.1 U pCi/g	.54 U pCi/g
Uranium-233/234	.24 pCi/g	.44 pCi/g	.52 pCi/g	.58 pCi/g	1.2 pCi/g	1.3 pCi/g	.47 pCi/g	.39 pCi/g
Uranium-235	.0075 U pCi/g	.047 pCi/g	.016 U pCi/g	.023 U pCi/g	.024 U pCi/g	.084 pCi/g	.059 pCi/g	0 U pCi/g
Uranium-235*	NA	NA	NA	NA	.5 pCi/g	NA	.81 pCi/g	NA
Uranium-236	.027 U pCi/g	0 U pCi/g	.015 U pCi/g	0 U pCi/g	.011 U pCi/g	.014 U pCi/g	0 U pCi/g	.0068 U pCi/g
Uranium-238	.26 pCi/g	.53 pCi/g	.41 pCi/g	.49 pCi/g	1.2 pCi/g	1.4 pCi/g	.57 pCi/g	.4 pCi/g
Semivolatiles								
1,4-Dichlorobenzene	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
2,4,5-Trichlorophenol	1000 U ug/kg	980 U ug/kg	990 U ug/kg	1000 U ug/kg	NA	990 U ug/kg	980 U ug/kg	NA
2,4,6-Trichlorophenol	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
2,4-Dinitrotoluene	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
2-Methylphenol	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
4-Methylphenol	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Hexachlorobenzene	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Hexachlorobutadiene	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Hexachloroethane	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Nitrobenzene	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Pentachlorophenol	1000 U ug/kg	980 U ug/kg	990 U ug/kg	1000 U ug/kg	NA	990 U ug/kg	980 U ug/kg	NA
Pyridine	400 U ug/kg	390 U ug/kg	400 U ug/kg	400 U ug/kg	NA	400 U ug/kg	390 U ug/kg	NA
Volatiles								
1,1-Dichloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
1,2-Dichloroethane	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
2-Butanone	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	NA
Benzene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Carbon tetrachloride	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Chlorobenzene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Chloroform	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Tetrachloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Trichloroethene	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	NA
Vinyl chloride	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg	NA

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB11-1015	UF00-SB11-1520	UF00-SB11-2025	UF00-SB12-0510	UF00-SB12-0709	UF00-SB12-1015	UF00-SB12-1520
Sample Date	08/11/2000	08/11/2000	08/11/2000	8/12/2000	8/12/2000	8/12/2000	08/12/2000
Sample Depth	10' - 15'	15' - 20'	20' - 25'	5' - 10'	7' - 9'	10' - 15'	15' - 20'
Metals							
Uranium	1.8 ug/g	2.1 ug/g	2.3 ug/g	1.3 ug/g	NA	1.5 ug/g	.8 ug/g
PCBs							
Decachlorobiphenyl	NA	NA	NA	85 ug/kg	94 ug/kg	81 ug/kg	80 ug/kg
PCB-1016	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
PCB-1221	NA	NA	NA	77 U ug/kg	79 U ug/kg	82 U ug/kg	81 U ug/kg
PCB-1232	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
PCB-1242	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
PCB-1248	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
PCB-1254	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
PCB-1260	NA	NA	NA	39 U ug/kg	40 U ug/kg	41 U ug/kg	40 U ug/kg
Tetrachloro-m-xylene	NA	NA	NA	90 ug/kg	90 ug/kg	72 ug/kg	70 ug/kg
Radionuclides							
Actinium-227	-534 U pCi/g	254 U pCi/g	321 U pCi/g	161 U pCi/g	NA	109 U pCi/g	-665 U pCi/g
Actinium-228	1 pCi/g	.92 pCi/g	.6 U pCi/g	1.1 J pCi/g	NA	1.1 U pCi/g	.6 U pCi/g
Alpha activity	1.6 pCi/g	2.6 pCi/g	3.5 pCi/g	2.6 J pCi/g	NA	5.2 pCi/g	2.2 pCi/g
Americium-241	.028 B pCi/g	.02 U pCi/g	.036 B pCi/g	.047 U pCi/g	NA	.41 pCi/g	.091 B pCi/g
Beta activity	3.3 pCi/g	7.5 pCi/g	4.3 pCi/g	5.8 pCi/g	NA	6.5 pCi/g	4.1 pCi/g
Bismuth-212	NA	NA	NA	3 pCi/g	NA	NA	NA
Bismuth-214	NA	.79 pCi/g	1.4 pCi/g	.91 J pCi/g	NA	.97 J pCi/g	NA
Cesium-134	-1.7 U pCi/g	.33 U pCi/g	.27 U pCi/g	.082 U pCi/g	NA	.041 U pCi/g	.36 U pCi/g
Cesium-137	-.094 U pCi/g	-.073 U pCi/g	.12 U pCi/g	-.015 U pCi/g	NA	.075 U pCi/g	-.029 U pCi/g
Cobalt-60	-.06 U pCi/g	-.039 U pCi/g	-.029 U pCi/g	-.039 U pCi/g	NA	-.23 U pCi/g	.13 U pCi/g
Lead-210	NA	NA	NA	2.1 J pCi/g	NA	1.6 J pCi/g	NA
Lead-212	.94 pCi/g	1.4 pCi/g	.81 pCi/g	.65 pCi/g	NA	.75 pCi/g	.99 pCi/g
Lead-214	NA	1.3 pCi/g	NA	NA	NA	.96 J pCi/g	NA
Neptunium-237	.023 U pCi/g	.026 U pCi/g	0 U pCi/g	-.012 U pCi/g	NA	-.0027 U pCi/g	.022 U pCi/g
Plutonium-238	.034 U pCi/g	.017 U pCi/g	.016 U pCi/g	-.0059 U pCi/g	NA	0 U pCi/g	.022 U pCi/g
Plutonium-239/240	-.011 U pCi/g	0 U pCi/g	.016 U pCi/g	.012 UJ pCi/g	NA	.0027 U pCi/g	.022 U pCi/g
Plutonium-242	0 U pCi/g	.017 U pCi/g	0 U pCi/g	-.012 U pCi/g	NA	0 U pCi/g	.0073 U pCi/g
Potassium-40	8.2 pCi/g	12 pCi/g	6.4 pCi/g	11 pCi/g	NA	NA	10 pCi/g
Protactinium-231	1.6 U pCi/g	2.9 U pCi/g	-5.1 U pCi/g	.58 U pCi/g	NA	.71 U pCi/g	-17 U pCi/g
Protactinium-234	.59 U pCi/g	-.11 U pCi/g	.48 U pCi/g	.51 U pCi/g	NA	-.071 U pCi/g	.29 U pCi/g
Radium-223	.6 U pCi/g	.57 U pCi/g	1.3 U pCi/g	.55 U pCi/g	NA	.46 U pCi/g	1.2 U pCi/g
Radium-224	25 U pCi/g	24 U pCi/g	22 U pCi/g	2.6 J pCi/g	NA	3.3 U pCi/g	20 U pCi/g
Radium-226	1.6 J pCi/g	1.3 J pCi/g	.62 JU pCi/g	.92 UJ pCi/g	NA	.96 J pCi/g	1.2 JU pCi/g
Radium-228	1 pCi/g	.92 pCi/g	.6 U pCi/g	1.1 J pCi/g	NA	1.1 U pCi/g	.6 U pCi/g
Strontium-90	.8 U pCi/g	.4 U pCi/g	.3 U pCi/g	.7 UJ pCi/g	NA	.3 U pCi/g	.7 U pCi/g
Technetium-99	.2 pCi/g	.3 pCi/g	.3 pCi/g	.2 J pCi/g	NA	.3 pCi/g	.1 pCi/g
Thallium-208	.4 pCi/g	.34 pCi/g	NA	.24 J pCi/g	NA	.32 pCi/g	.49 pCi/g
Thorium-228	.55 pCi/g	.52 pCi/g	.32 pCi/g	.51 pCi/g	NA	.54 pCi/g	.23 pCi/g
Thorium-229	.025 U pCi/g	-.012 U pCi/g	.018 U pCi/g	.015 U pCi/g	NA	.0064 U pCi/g	.035 U pCi/g

Appendix Table G.2
Analytical Results—Subsurface Soil
Proposed DUF6 Conversion Facility
DUF6 Conversion Facility Site Characterization
Portsmouth, OH
(Continued)

Sample ID	UF00-SB11-1015	UF00-SB11-1520	UF00-SB11-2025	UF00-SB12-0510	UF00-SB12-0709	UF00-SB12-1015	UF00-SB12-1520
Sample Date	08/11/2000	08/11/2000	08/11/2000	8/12/2000	8/12/2000	8/12/2000	08/12/2000
Sample Depth	10' - 15'	15' - 20'	20' - 25'	5' - 10'	7' - 9'	10' - 15'	15' - 20'
Thorium-230	.45 pCi/g	.51 pCi/g	.49 pCi/g	.72 pCi/g	NA	.69 pCi/g	.38 B pCi/g
Thorium-231	.18 U pCi/g	.37 U pCi/g	-2.5 U pCi/g	.44 U pCi/g	NA	.72 J pCi/g	-2 U pCi/g
Thorium-232	.56 pCi/g	.35 pCi/g	.35 pCi/g	.51 pCi/g	NA	.38 pCi/g	.31 pCi/g
Thorium-234	4.4 U pCi/g	11 U pCi/g	.98 U pCi/g	2 J pCi/g	NA	.61 U pCi/g	7.3 U pCi/g
Uranium-233/234	.49 pCi/g	.43 pCi/g	.81 pCi/g	.54 pCi/g	NA	.57 pCi/g	.27 pCi/g
Uranium-235	.0072 U pCi/g	.016 U pCi/g	.023 U pCi/g	.034 U pCi/g	NA	.021 U pCi/g	.031 U pCi/g
Uranium-235*	NA	.58 pCi/g	NA	NA	NA	NA	NA
Uranium-236	0 U pCi/g	0 U pCi/g	0 U pCi/g	.0034 U pCi/g	NA	.0031 U pCi/g	0 U pCi/g
Uranium-238	.6 pCi/g	.71 pCi/g	.77 pCi/g	.44 pCi/g	NA	.51 pCi/g	.26 pCi/g
Semivolatiles							
1,4-Dichlorobenzene	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
2,4,5-Trichlorophenol	NA	NA	NA	970 U ug/kg	990 U ug/kg	1000 U ug/kg	990 U ug/kg
2,4,6-Trichlorophenol	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
2,4-Dinitrotoluene	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
2-Methylphenol	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
4-Methylphenol	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Hexachlorobenzene	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Hexachlorobutadiene	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Hexachloroethane	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Nitrobenzene	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Pentachlorophenol	NA	NA	NA	970 UJ ug/kg	990 UJ ug/kg	1000 UJ ug/kg	990 UJ ug/kg
Pyridine	NA	NA	NA	390 U ug/kg	400 U ug/kg	410 U ug/kg	410 U ug/kg
Volatiles							
1,1-Dichloroethene	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
1,2-Dichloroethane	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
2-Butanone	NA	NA	NA	.011 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg
Benzene	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Carbon tetrachloride	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Chlorobenzene	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Chloroform	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Tetrachloroethene	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Trichloroethene	NA	NA	NA	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg	.006 U mg/kg
Vinyl chloride	NA	NA	NA	.011 U mg/kg	.012 U mg/kg	.012 U mg/kg	.012 U mg/kg

NA - Not analysis performed
[a] U235 analyzed by gamma-spec

SOIL CLASSIFICATION
ASTM D 2487

PROJECT NAME: NFT Portsmouth **PROJECT NO:** 808599.00110000

	ETDC NUMBER:	CLIENT NUMBER:	GROUP SYMBOL:	CLASSIFICATION-GROUP NAME:
SAMPLE 1:	ETDC-9068	UF00-SB7-GEO	CL	LEAN CLAY
SAMPLE 2:	ETDC-9069	UF00-SB9-GEO	CL	LEAN CLAY
SAMPLE 3:	ETDC-9070	UF00-SB11-GEO	CL	LEAN CLAY
SAMPLE 4:				
SAMPLE 5:				
SAMPLE 6:				
SAMPLE 7:				
SAMPLE 8:				
SAMPLE 9:				
SAMPLE 10:				

****

SOIL CLASSIFICATION
ASTM D 2487

PROJECT NAME: NFT Portsmouth **PROJECT NO:** 808599.00110000

	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
ETDC NUMBER:	ETDC-9065	ETDC-9066	ETDC-9067	ETDC-9068	ETDC-9069
CLIENT NUMBER:	UF00-SB4-GEO	UF00-SB5-GEO	UF00-SB6-GEO	UF00-SB7-GEO	UF00-SB9-GEO
(COARSE-GRAVELS, SANDS) % RETAINED ON # 200 SIEVE:	3.8	7.7	38.4	2.9	5.9
(FINE-SILTS, CLAYS) % PASSING # 200 SIEVE:	96.2	92.3	61.6	97.1	94.1
% GRAVEL:	0.0	0.4	21.0	0.1	0.0
% SAND:	3.8	7.3	17.4	2.7	5.9
D60 IN MM (DIAMETER AT 60% PASSING):	0.01461	0.01673	0.06486	0.01772	0.01752
D30 IN MM (DIAMETER AT 30% PASSING):	0.00123	0.00326	0.00256	0.00400	0.00383
D10 IN MM (DIAMETER AT 10% PASSING):	0.00041	0.00058	0.00048	0.00071	
Cc:	35.65	28.91	134.84	24.96	
Cu:	0.25	1.10	0.21	1.27	
LIQUID LIMIT:	37	27	45	25	33
PLASTIC INDEX:	20	11	26	8	14
ATTERBERG CLASSIFICATION*:	CL	CL	CL	CL	CL

	SAMPLE 6	SAMPLE 7	SAMPLE 8	SAMPLE 9	SAMPLE 10
ETDC NUMBER:	ETDC-9070				
CLIENT NUMBER:	UF00-SB11-GEO				
(COARSE-GRAVELS, SANDS) % RETAINED ON # 200 SIEVE:	8.0				
(FINE-SILTS, CLAYS) % PASSING # 200 SIEVE:	92.0				
% GRAVEL:	2.1				
% SAND:	5.9				
D60 IN MM (DIAMETER AT 60% PASSING):	0.01601				
D30 IN MM (DIAMETER AT 30% PASSING):	0.00374				
D10 IN MM (DIAMETER AT 10% PASSING):					
Cc:					
Cu:					
LIQUID LIMIT:	33				
PLASTIC INDEX:	13				
ATTERBERG CLASSIFICATION*:	CL				

*FINES< #40 SIEVE (0.425 mm)

SOIL CLASSIFICATION
ASTM D 2487

PROJECT NAME: NFT Portsmouth **PROJECT NO:** 808599.00110000

	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
ETDC NUMBER:	ETDC-9068	ETDC-9069	ETDC-9070		
CLIENT NUMBER:	UF00-SB7-GEO	UF00-SB9-GEO	UF00-SB11-GEO		
(COARSE-GRAVELS, SANDS) % RETAINED ON # 200 SIEVE:	2.9	2.9	8.0		
(FINE-SILTS, CLAYS) % PASSING # 200 SIEVE:	97.1	97.1	92.0		
% GRAVEL:	0.1	0.1	2.1		
% SAND:	2.7	2.7	5.9		
D60 IN MM (DIAMETER AT 60% PASSING):	0.01772	0.01772	0.01601		
D30 IN MM (DIAMETER AT 30% PASSING):	0.00400	0.00400	0.00374		
D10 IN MM (DIAMETER AT 10% PASSING):	0.00071	0.00071	#N/A		
Cc:	24.96	24.96	#N/A		
Cu:	1.27	1.27	#N/A		
LIQUID LIMIT:	25	25	33		
PLASTIC INDEX:	8	8	13		
ATTERBERG CLASSIFICATION*:	CL	CL	CL		

	SAMPLE 6	SAMPLE 7	SAMPLE 8	SAMPLE 9	SAMPLE 10
ETDC NUMBER:					
CLIENT NUMBER:					
(COARSE-GRAVELS, SANDS) % RETAINED ON # 200 SIEVE:					
(FINE-SILTS, CLAYS) % PASSING # 200 SIEVE:					
% GRAVEL:					
% SAND:					
D60 IN MM (DIAMETER AT 60% PASSING):					
D30 IN MM (DIAMETER AT 30% PASSING):					
D10 IN MM (DIAMETER AT 10% PASSING):					
Cc:					
Cu:					
LIQUID LIMIT:					
PLASTIC INDEX:					
ATTERBERG CLASSIFICATION*:					

*FINES < #40 SIEVE (0.425 mm)

PARTICLE-SIZE ANALYSIS
ASTM D 422

Project Name NFT Portsmouth

Client Sample No. UF00-SB7-GEO

Project No. 808599.00110000

IT Lab Sample No. ETDC-9068

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 14.7%
based on dry sample weight

SIEVE ANALYSIS

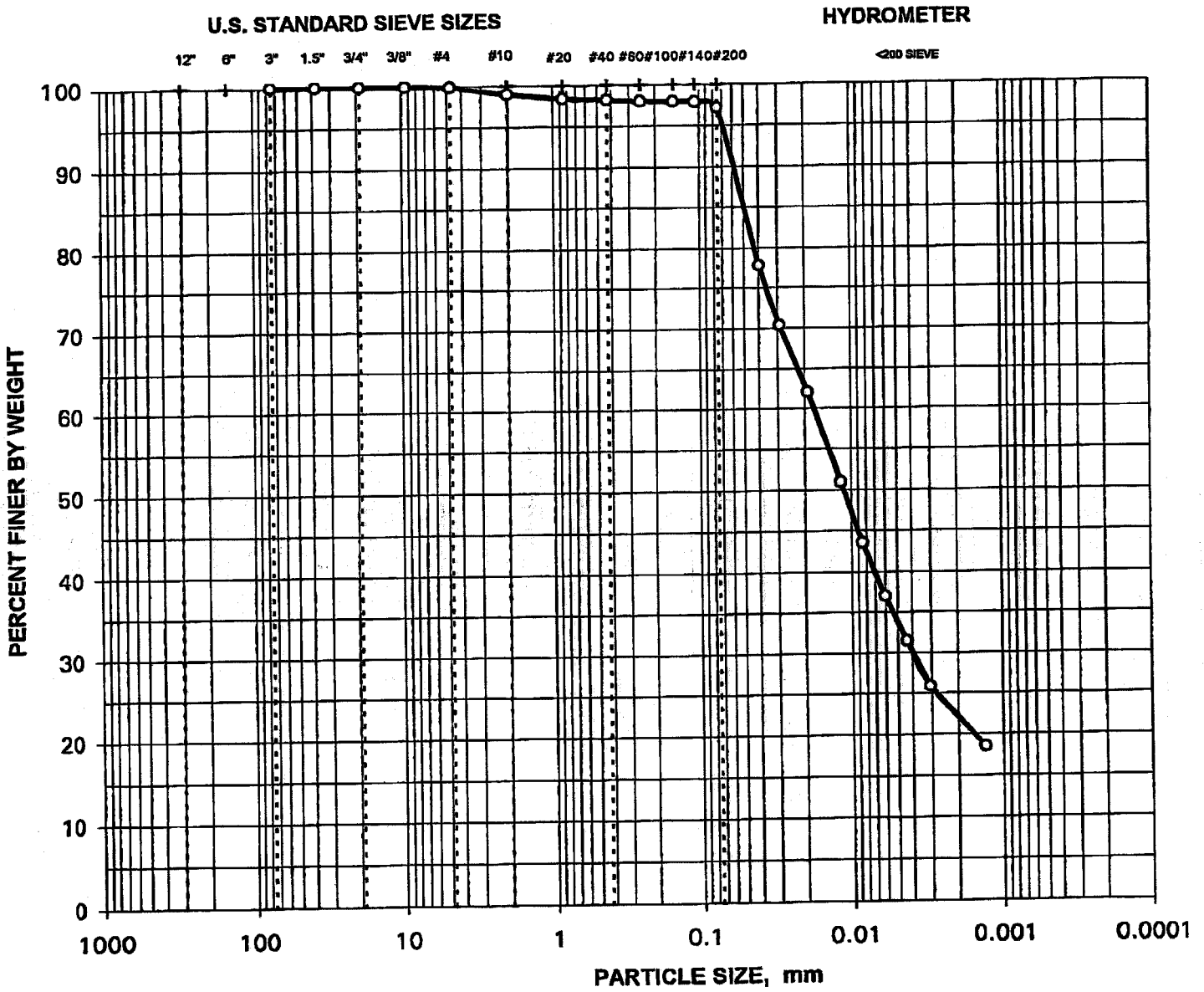
	Sieve No.	Diameter mm	Percent Finer
COARSE	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	99.9%
	#10	2.000	99.0%

	Sieve No.	Diameter mm	Percent Finer
FINE	#20	0.850	98.4%
	#40	0.425	98.2%
	#60	0.250	98.0%
	#100	0.149	97.9%
	#140	0.106	97.8%
	#200	0.075	97.1%

HYDROMETER ANALYSIS

	Diameter mm	Percent Finer
HYDROMETER		
	0.03956	77.8%
	0.02912	70.4%
	0.01911	62.1%
	0.01158	50.9%
	0.00843	43.5%
	0.00603	37.0%
	0.00435	31.5%
	0.00304	25.9%
	0.00131	18.5%

NFT Portsmouth



CLIENT SAMPLE NO.: UF00-SB7-GEO

IT LAB SAMPLE NO.: ETDC-9068

BOULDERS	COBBLES	GRAVEL		SAND			SILT 2 - 75 microns CLAY <2 microns
		COARSE	FINE	COARSE	MEDIUM	FINE	

PARTICLE-SIZE ANALYSIS
ASTM D 422

Project Name NFT Portsmouth

Client Sample No. UF00-SB9-GEO

Project No. 808599.00110000

IT Lab Sample No. ETDC-9069

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 21.9%
based on dry sample weight

SIEVE ANALYSIS

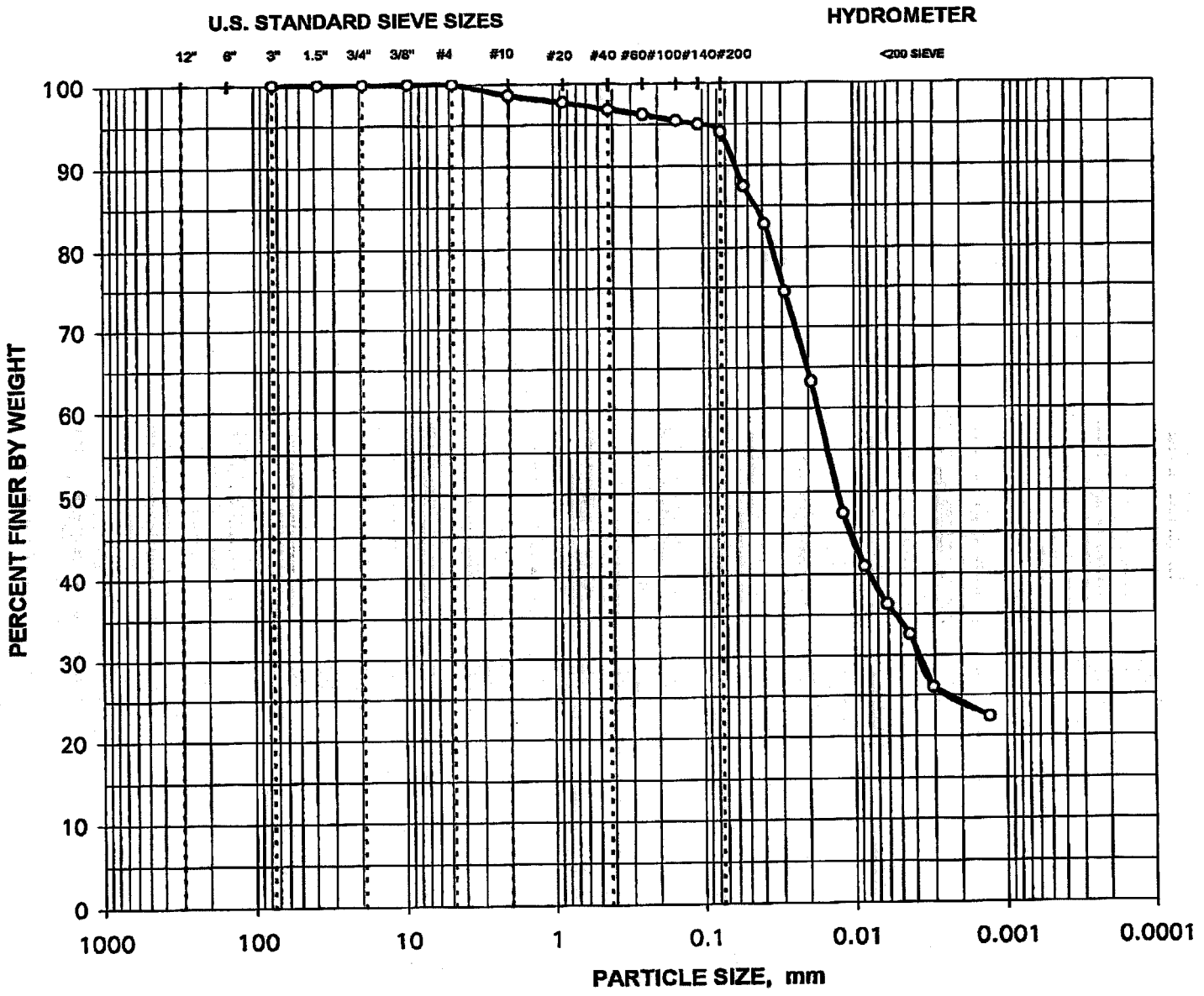
	Sieve No.	Diameter mm	Percent Finer
COARSE	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	100.0%
	#10	2.000	98.6%

	Sieve No.	Diameter mm	Percent Finer
FINE	#20	0.850	97.8%
	#40	0.425	96.9%
	#60	0.250	96.2%
	#100	0.149	95.5%
	#140	0.106	95.0%
	#200	0.075	94.1%

HYDROMETER ANALYSIS

	Diameter mm	Percent Finer
HYDROMETER	0.05322	87.4%
	0.03861	82.8%
	0.02863	74.4%
	0.01901	63.3%
	0.01177	47.4%
	0.00852	40.9%
	0.00605	36.3%
	0.00434	32.6%
	0.00304	26.0%
	0.00130	22.3%

NFT Portsmouth



CLIENT SAMPLE NO.: UF00-SB9-GEO

IT LAB SAMPLE NO.: ETDC-9069

BOULDERS	COBBLES	GRAVEL		SAND			SILT 2 - 75 microns CLAY <2 microns
		COARSE	FINE	COARSE	MEDIUM	FINE	

PARTICLE-SIZE ANALYSIS
ASTM D 422

Project Name NFT Portsmouth

Client Sample No. UF00-SB11-GEO

Project No. 808599.00110000

IT Lab Sample No. ETDC-9070

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 20.1%
based on dry sample weight

SIEVE ANALYSIS

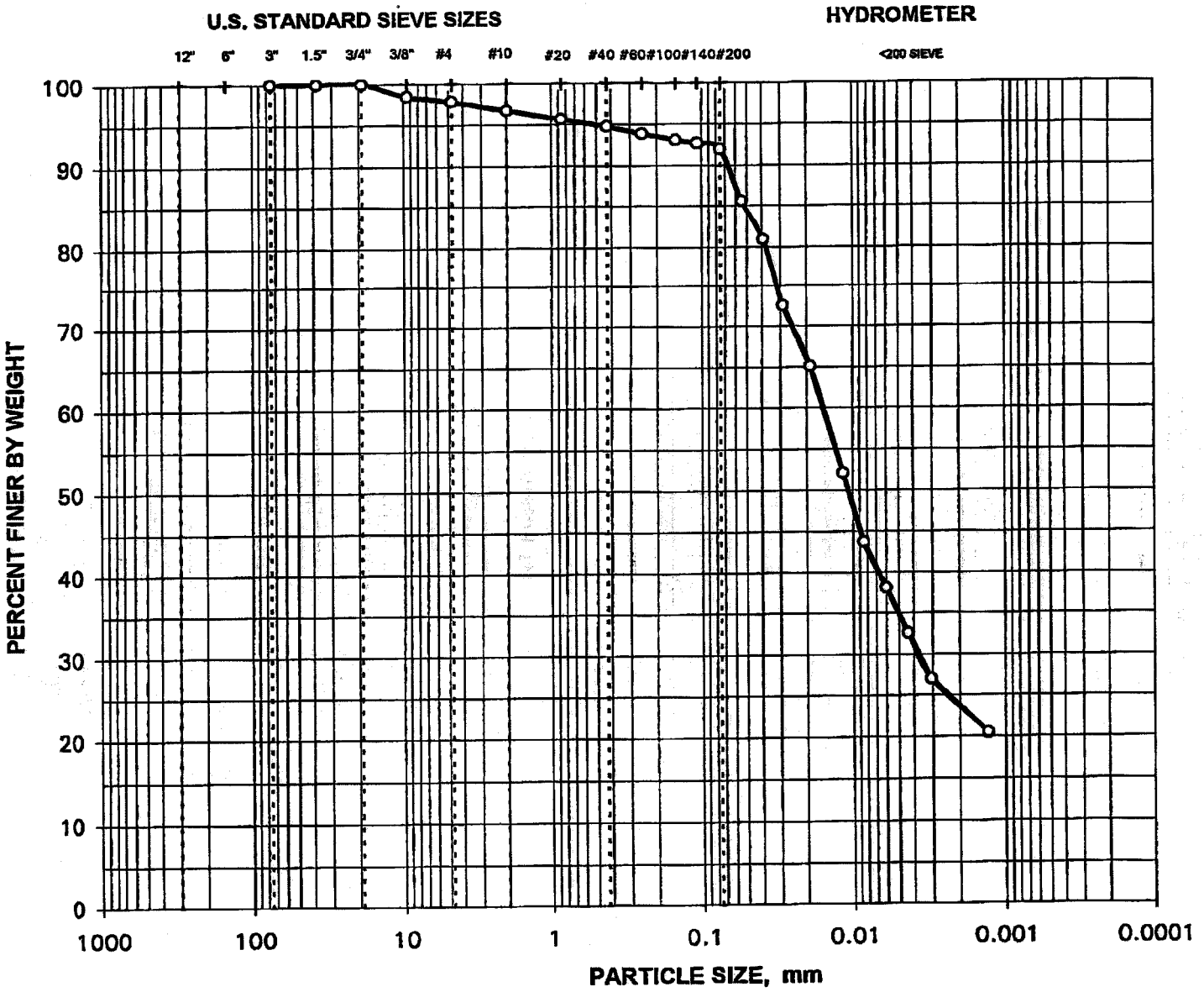
COARSE	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	98.5%
	#4	4.750	97.9%
	#10	2.000	96.8%

FINE	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	95.7%
	#40	0.425	94.8%
	#60	0.250	93.9%
	#100	0.149	93.1%
	#140	0.106	92.7%
	#200	0.075	92.0%

HYDROMETER ANALYSIS

HYDROMETER	Diameter mm	Percent Finer
	0.05391	85.6%
	0.03909	80.9%
	0.02879	72.6%
	0.01891	65.1%
	0.01153	52.1%
	0.00843	43.7%
	0.00602	38.1%
	0.00434	32.6%
	0.00303	27.0%
	0.00131	20.5%

NFT Portsmouth

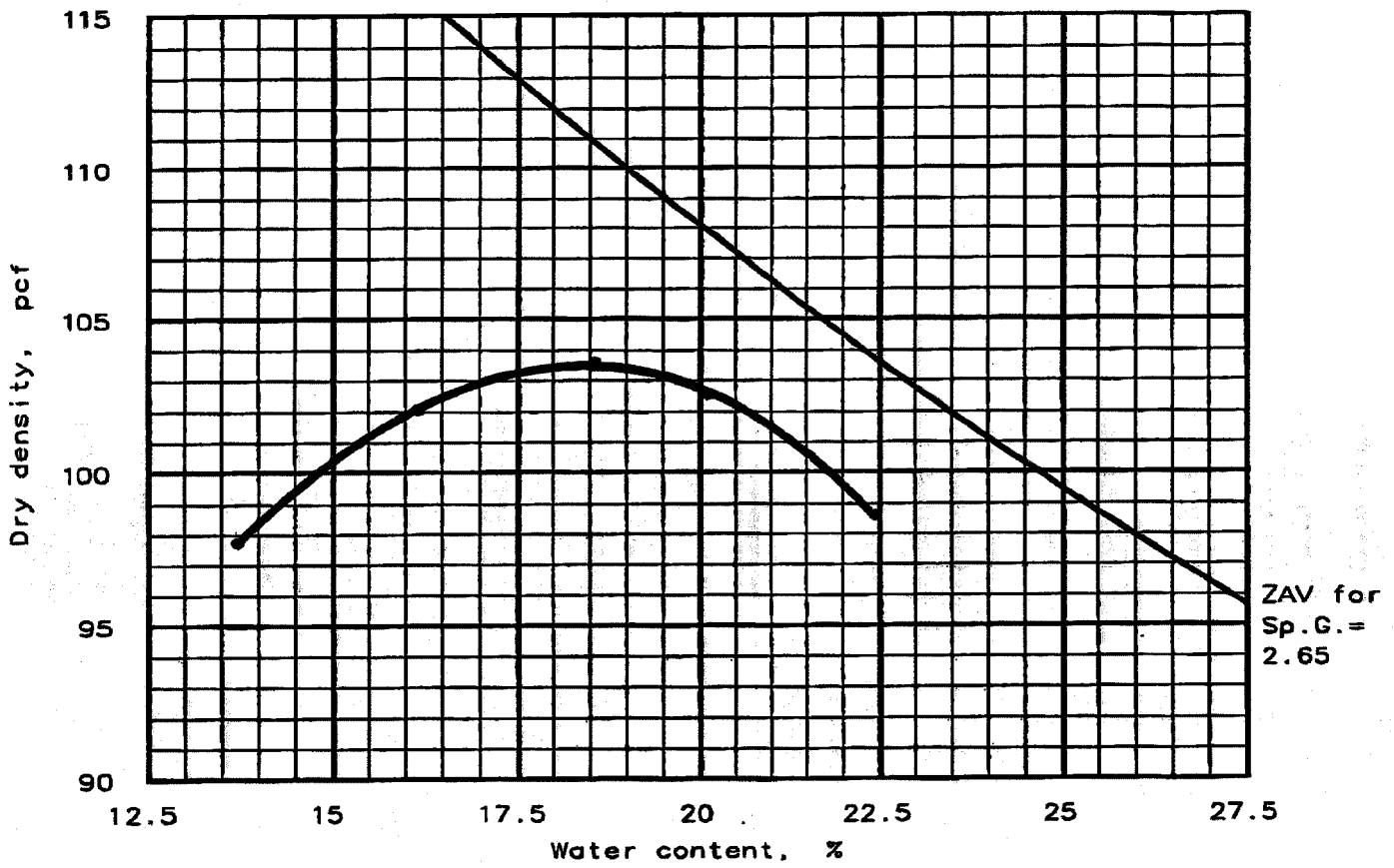


CLIENT SAMPLE NO.: UF00-SB11-GEO

IT LAB SAMPLE NO.: ETDC-9070

BOULDERS	COBBLES	GRAVEL		SAND			
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT 2 - 75 microns CLAY <2 microns

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0'-2'	CL		20.3 %	2.65				

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 103.5 pcf Optimum moisture = 18.4 %	103.5 pcf 18.4 %	

ETDC Project Name: eFT Portsmouth

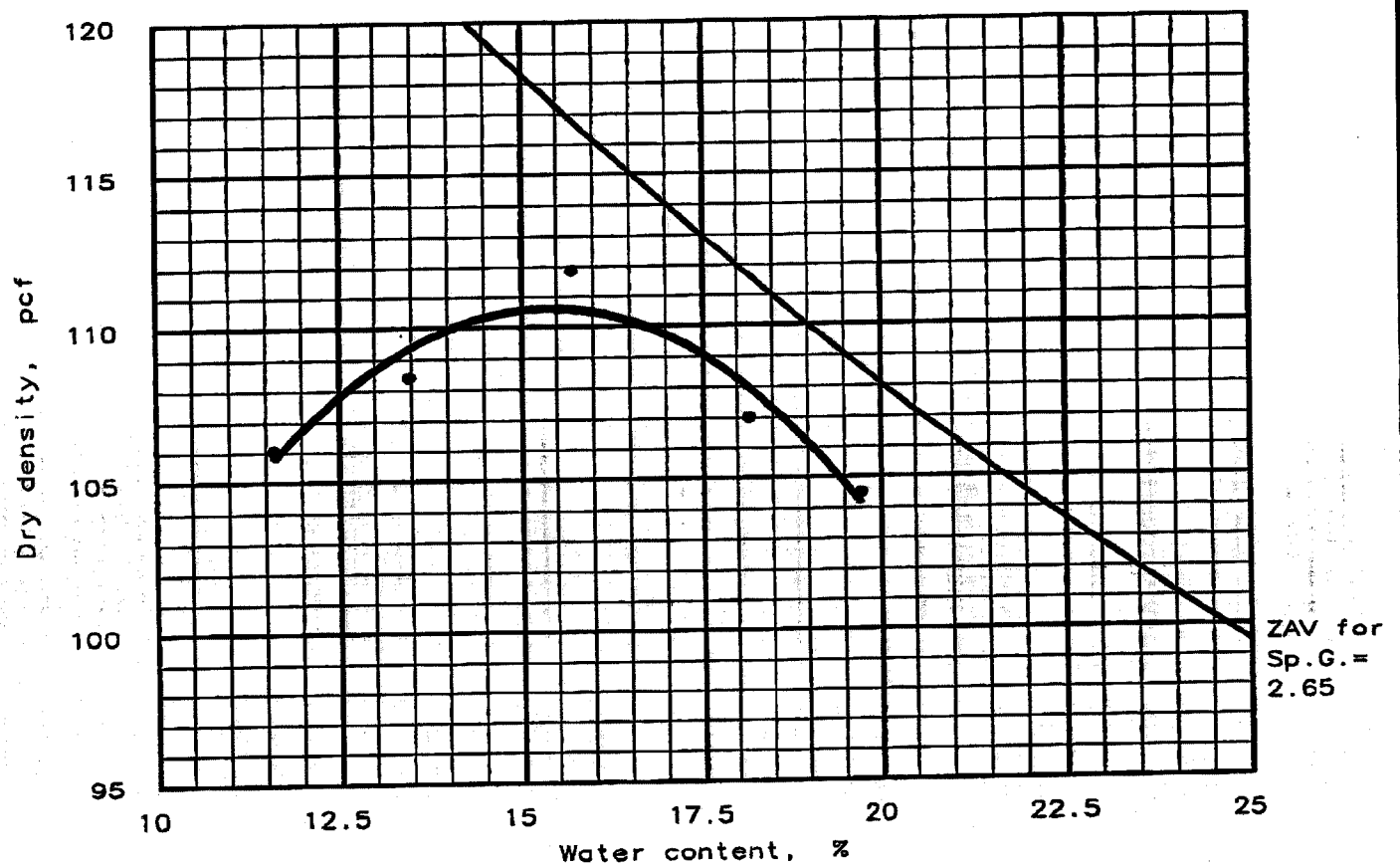
ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9068
Client Sample No.: UF00-SB7-GEO

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

Remarks:
Shallow depth.
For use with CBR test.

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
5-7'	CL		17.4 %	2.65	25	8		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 110.6 pcf Optimum moisture = 15.4 %	110.6 pcf 15.4 %	Lean CLAY

ETDC Project Name: NFT Portsmouth

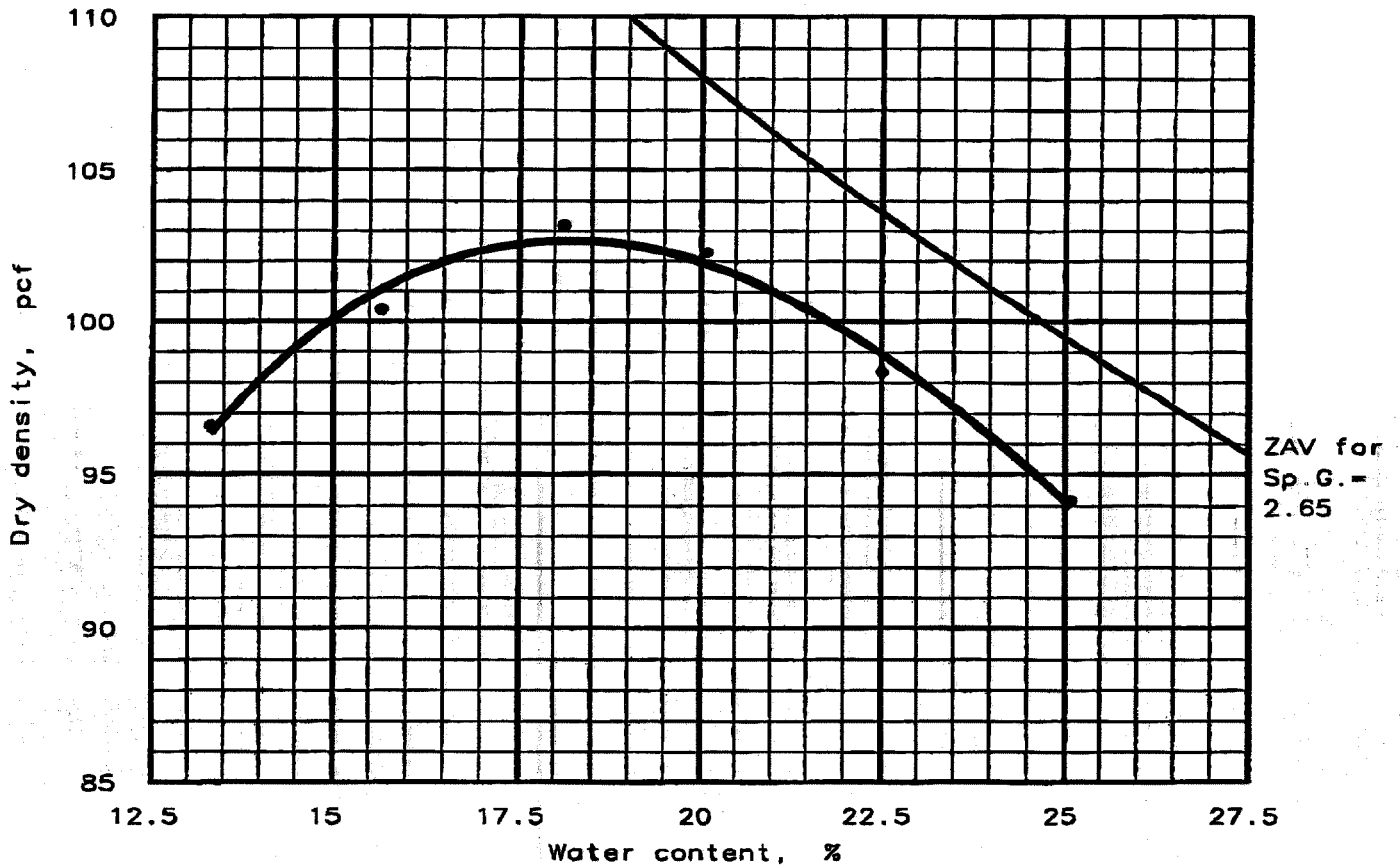
ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9068
Client Sample No.: UF00-SB7-GEO

Remarks:

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0'-2'	CL		20.1 %	2.65				

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 102.7 pcf Optimum moisture = 18.2 %	102.7 pcf 18.2 %	

ETDC Project Name: NFT Portsmouth

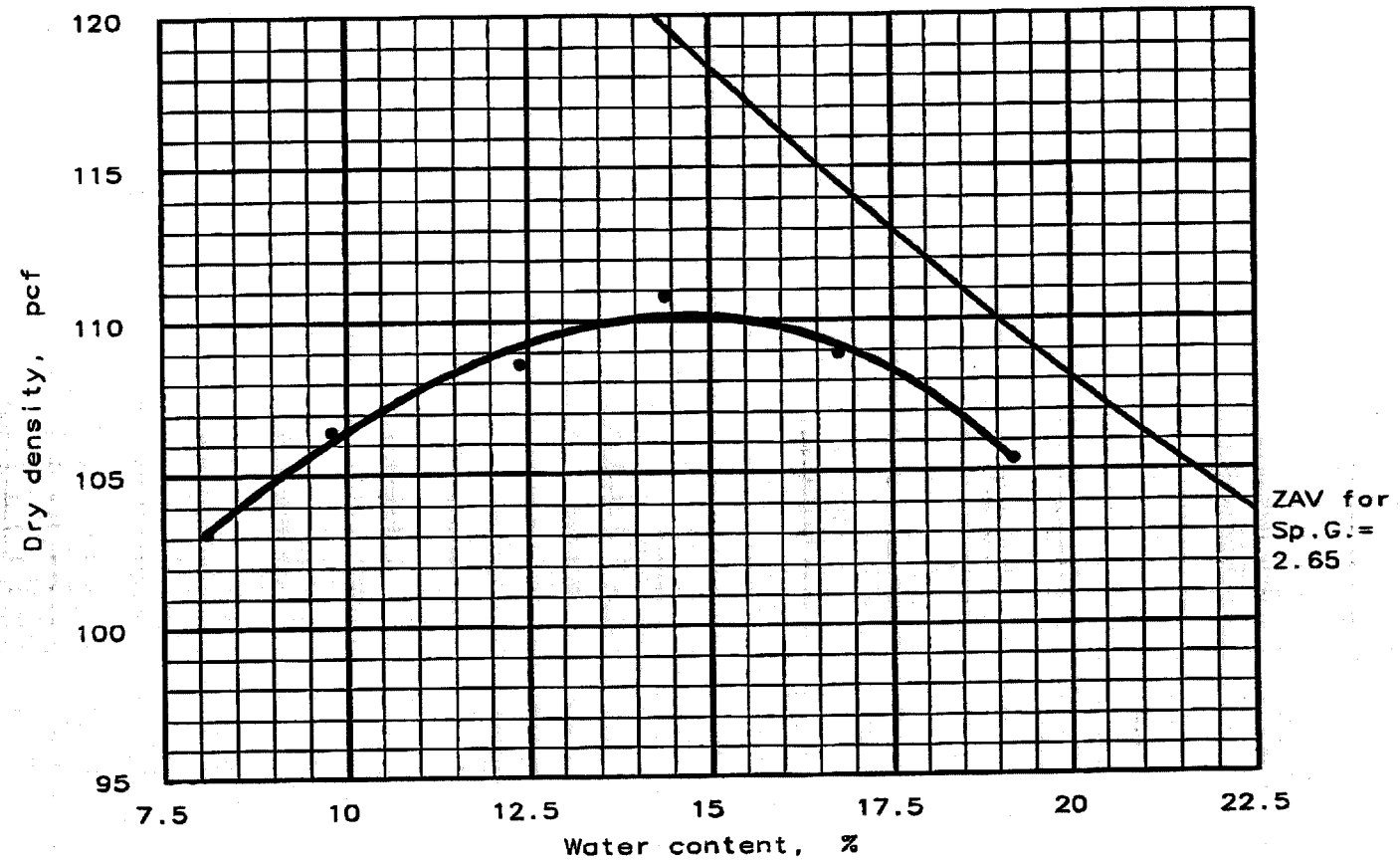
ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9069
Client Sample No.: UF00-SB9-GEO

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

Remarks:
Shallow depth.
For use with CBR test.

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
12-14'	CL		19.3 %	2.65	25	8		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 110.2 pcf Optimum moisture = 14.7 %	110.2 pcf 14.7 %	Lean CLAY

ETDC Project Name: NFT Portsmouth

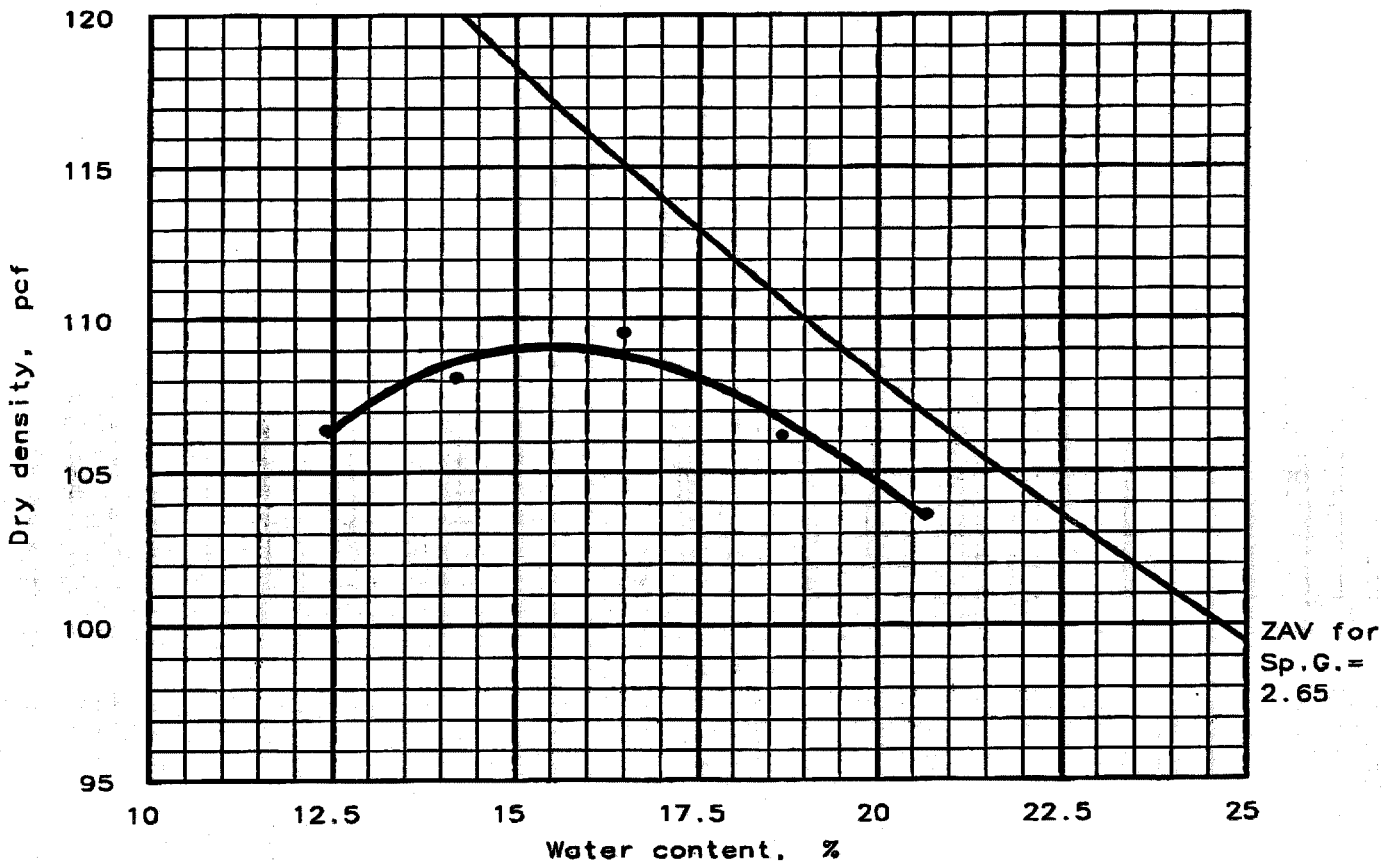
ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9069
Client Sample No.: UF00-SB9-GEO

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

Remarks:

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
0'-2'			16.4 %	2.65				

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 109.1 pcf Optimum moisture = 15.5 %	109.1 pcf 15.5 %	

ETDC Project Name: NFT Portsmouth

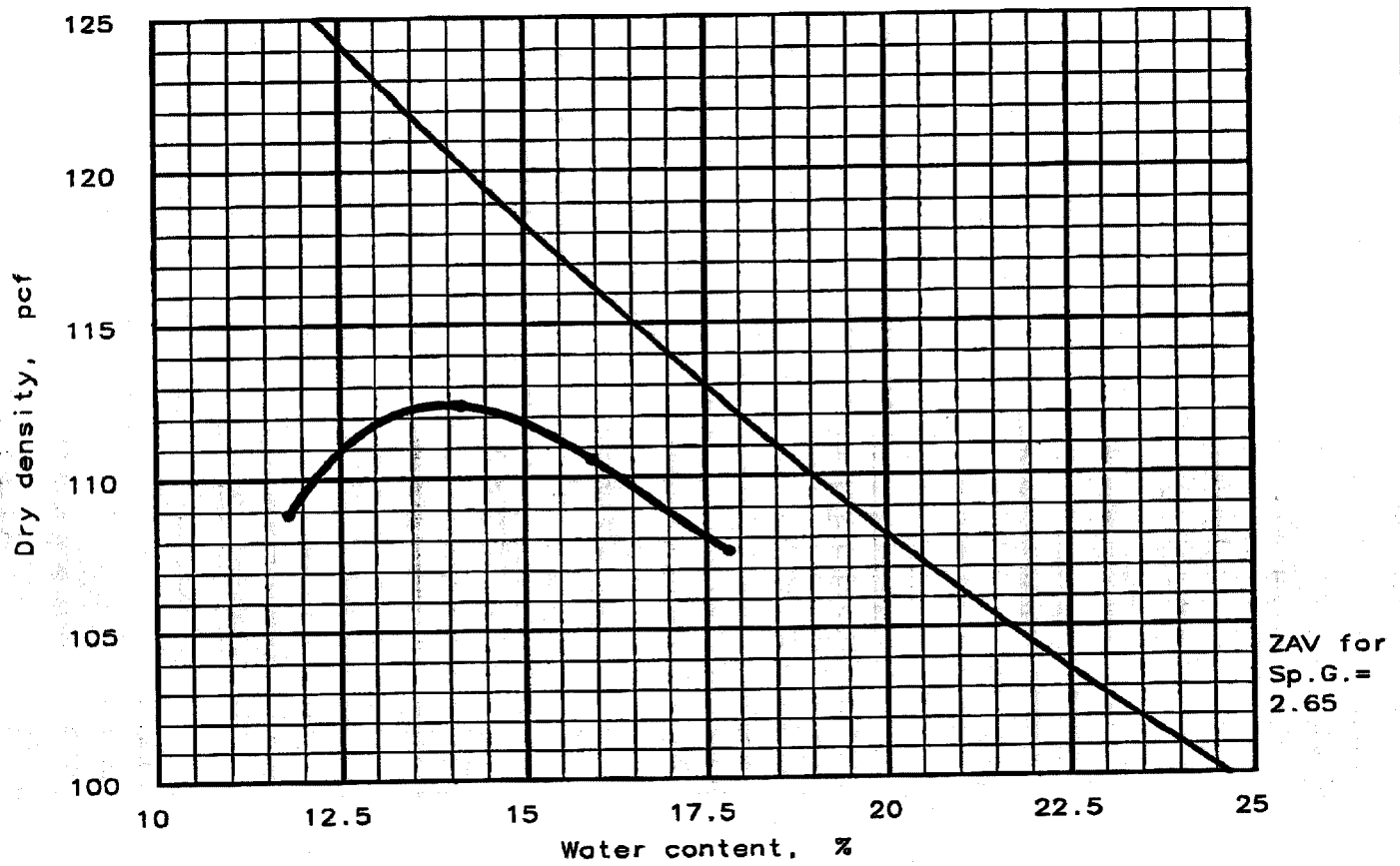
ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9070
Client Sample No.: UF00-SB11-GE0

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

Remarks:
Shallow depth.
For use with CBR test.

Standard Proctor ASTM D 698



Test specification: ASTM D 698-91 Method A, Standard
Oversize correction applied to each point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No.4	% < No.200
	USCS	AASHTO						
7'-9'	CL		21.6 %	2.65	33	13		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 112.4 pcf Optimum moisture = 14.0 %	112.4 pcf 14.0 %	Lean CLAY

ETDC Project Name: NFT Portsmouth

ETDC Project No.: 808599.00110000
ETDC Sample No.: ETDC-9070
Client Sample No.: UF00-SB11-GEO

Standard Proctor ASTM D 698

IT Corp. - GEOTECHNICAL LABORATORY

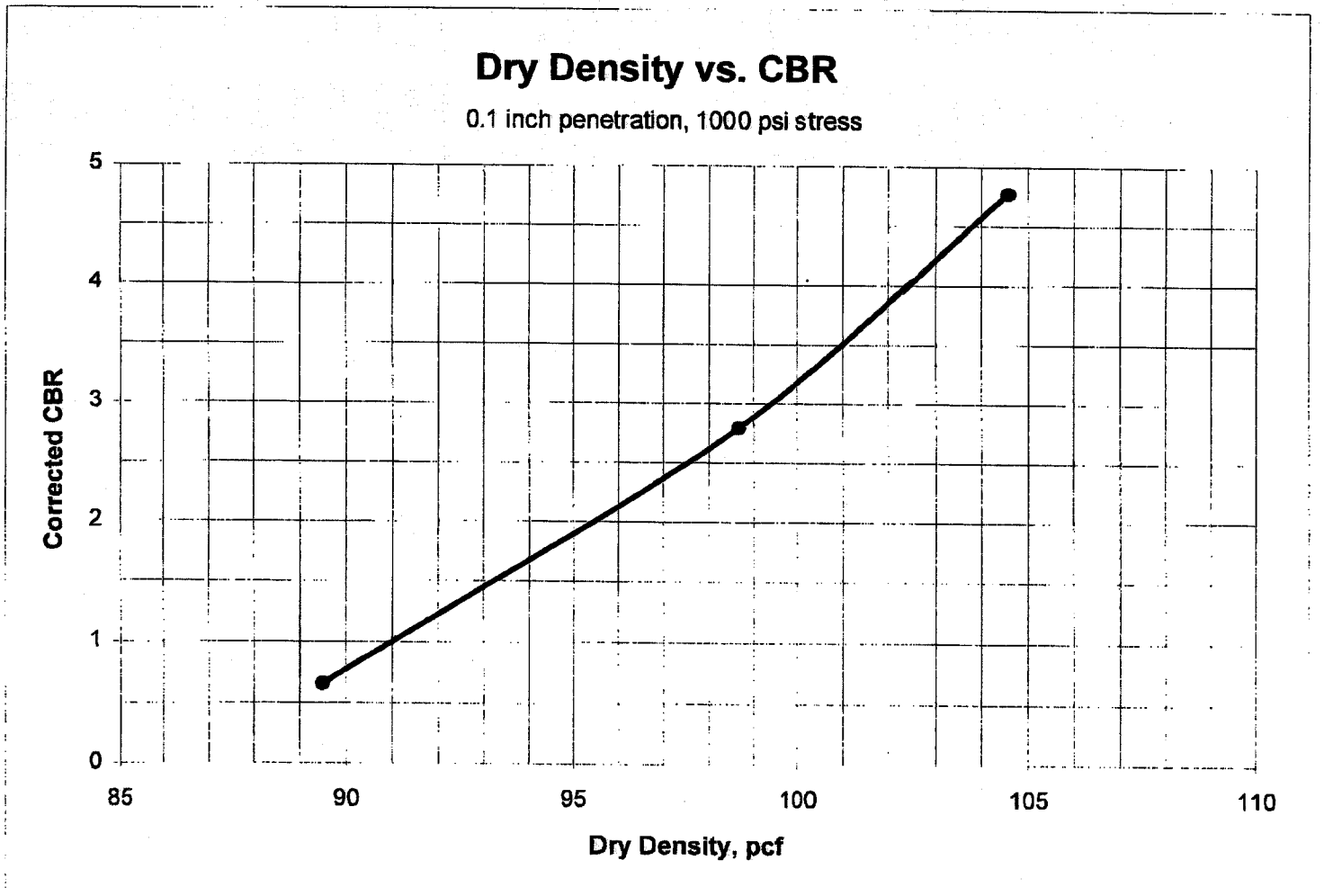
Remarks:

CALIFORNIA BEARING RATIO
ASTM D 1883

PROJECT	NFT Portsmouth	CLIENT SAMPLE NO.	ETDC-9068
PROJECT NO.	808599.00110000	IT LAB SAMPLE NO.	UF00-SB7-GEO

Prep method		ASTM D 698	
Condition of sample		Soaked 96-hrs	
Specimen conditions	10 blows	25 blows	56 blows
Dry density, presoak, pcf	89.5	98.7	104.6
% of proctor dry density	80.9%	89.2%	94.6%
Dry density, post-soak, pcf	102.8	113.3	122.5
Swell, % of original height	1.852%	1.898%	0.502%
Surcharge wt. applied, lbs.	5	5	5

MOISTURE CONTENT	
Initial moisture	17.4%
After compaction	18.5%
Top 1" after soaking	30.4%
Average after soaking	29.2%
CBR @ 90% proctor dens.	3.00
CBR @ 95% proctor dens.	4.94

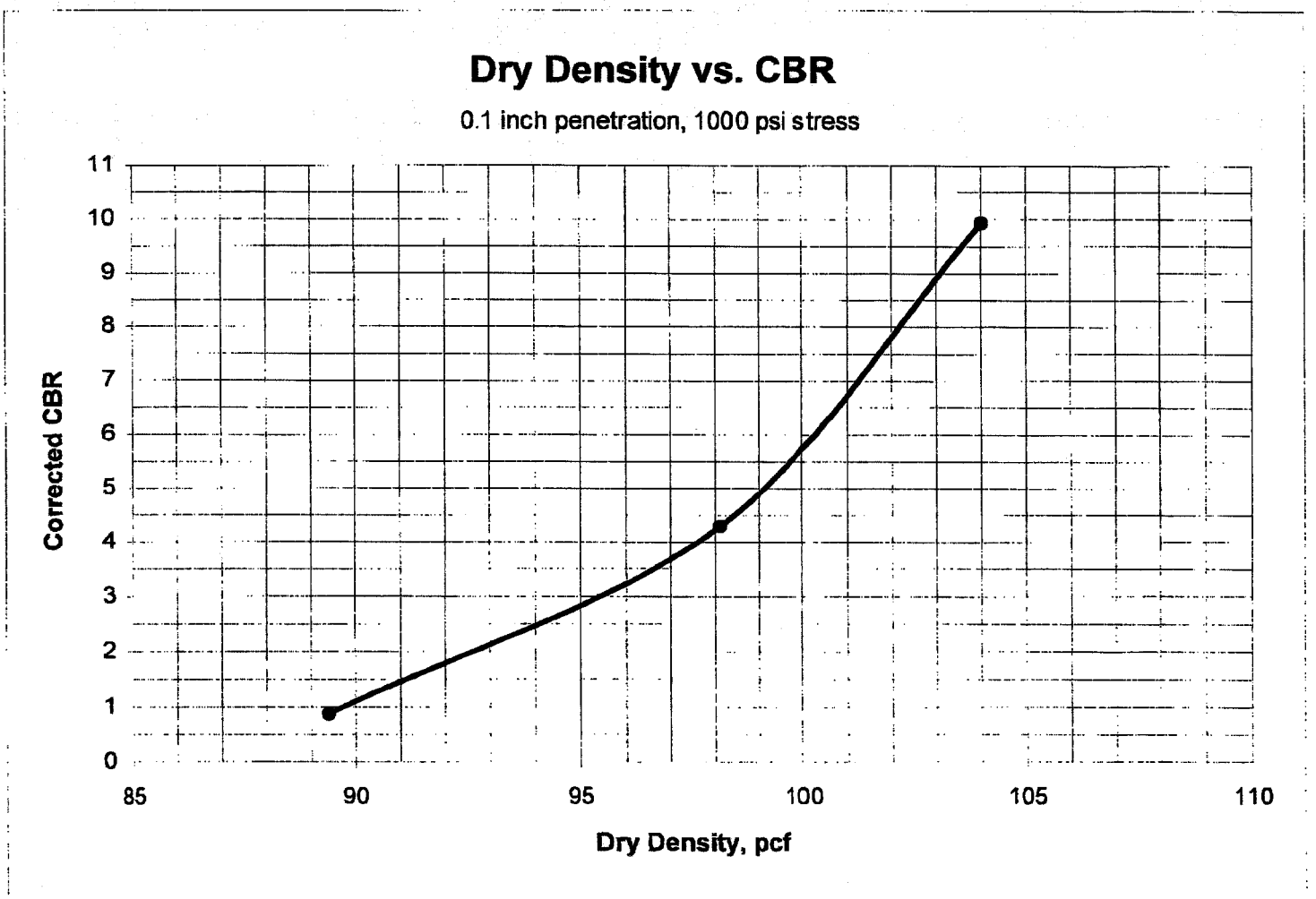


CALIFORNIA BEARING RATIO
ASTM D 1883

PROJECT	NFT Portsmouth	CLIENT SAMPLE NO.	ETDC-9069
PROJECT NO.	808599.00110000	IT LAB SAMPLE NO.	UF00-SB9-GEO

Prep method		ASTM D 698	
Condition of sample		Soaked 96-hrs	
Specimen conditions	10 blows	25 blows	56 blows
Dry density, presoak, pcf	89.4	98.1	104.0
% of proctor dry density	81.1%	89.0%	94.4%
Dry density, post-soak, pcf	104.9	115.0	122.4
Swell, % of original height	0.417%	0.436%	0.292%
Surcharge wt. applied, lbs.	5	5	5

MOISTURE CONTENT	
Initial moisture	19.3%
After compaction	18.0%
Top 1" after soaking	30.4%
Average after soaking	28.3%
CBR @ 90% proctor dens.	4.71
CBR @ 95% proctor dens.	10.58

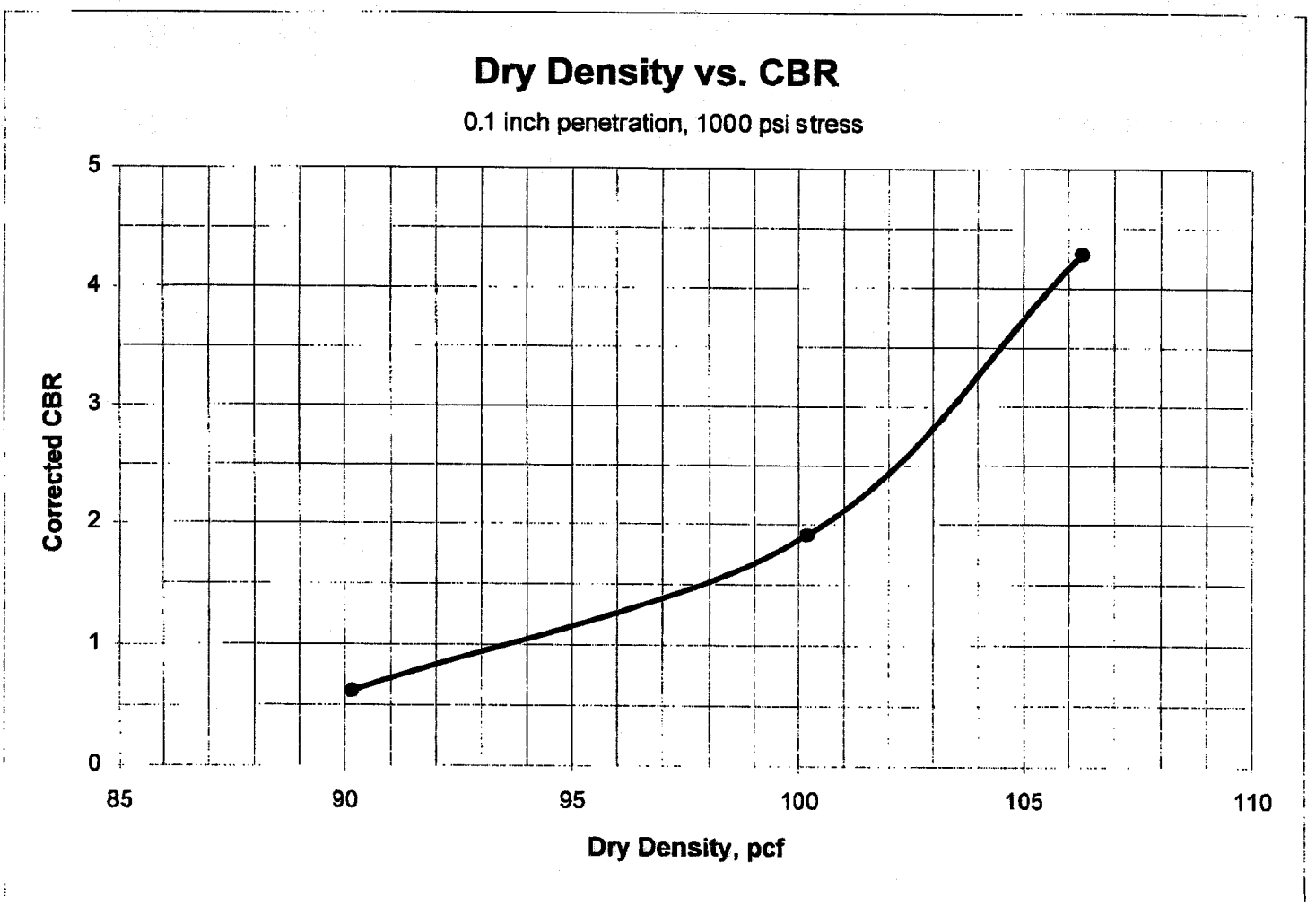


CALIFORNIA BEARING RATIO
ASTM D 1883

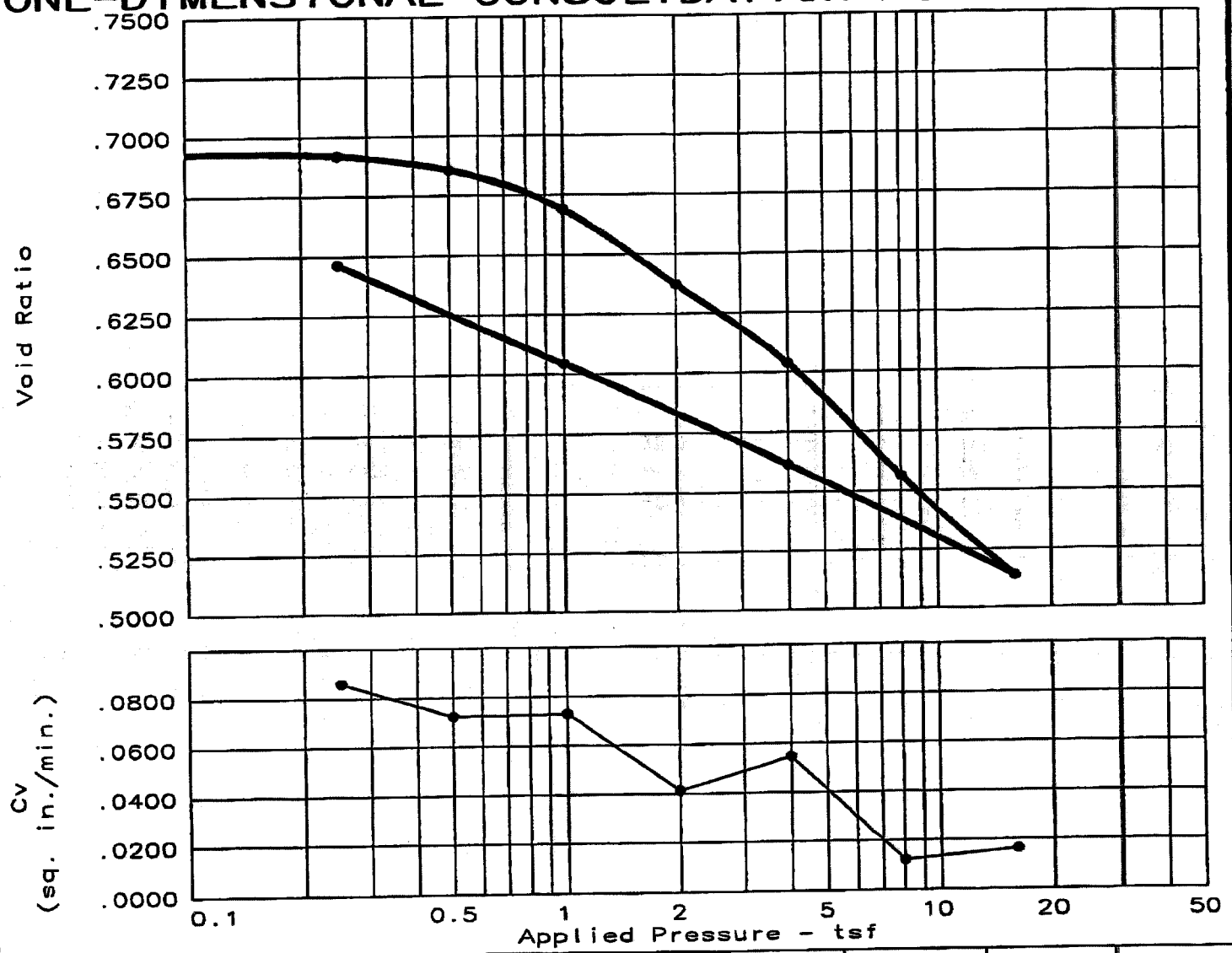
PROJECT	NFT Portsmouth	CLIENT SAMPLE NO.	ETDC-9070
PROJECT NO.	808599.00110000	IT LAB SAMPLE NO.	UF00-SB11-GEO

Prep method		ASTM D 698	
Condition of sample		Soaked 96-hrs	
Specimen conditions	10 blows	25 blows	56 blows
Dry density, presoak, pcf	90.2	100.2	106.3
% of proctor dry density	80.2%	89.1%	94.6%
Dry density, post-soak, pcf	104.2	114.6	121.7
Swell, % of original height	0.506%	1.132%	0.929%
Surcharge wt. applied, lbs.	5	5	5

MOISTURE CONTENT	
Initial moisture	21.6%
After compaction	16.5%
Top 1" after soaking	30.0%
Average after soaking	27.7%
CBR @ 90% proctor dens.	2.03
CBR @ 95% proctor dens.	4.47



ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435



Natural Saturation	Natural Moisture	Dry Density	LL	PI	Sp.Gr.	Precons. press.	C_c	e_o
90.2 %	23.6	97.7	25	8	2.65	3.15	0.14	0.6930

TEST RESULTS

Compression Index = 0.14

ETDC Project Name: NFT Portsmouth
ETDC Project No.: 808599.00110000
ETDC Sample No.: 9068
Client Sample No.: UF00SB7GEO

ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435

IT Corp. - GEOTECHNICAL LABORATORY

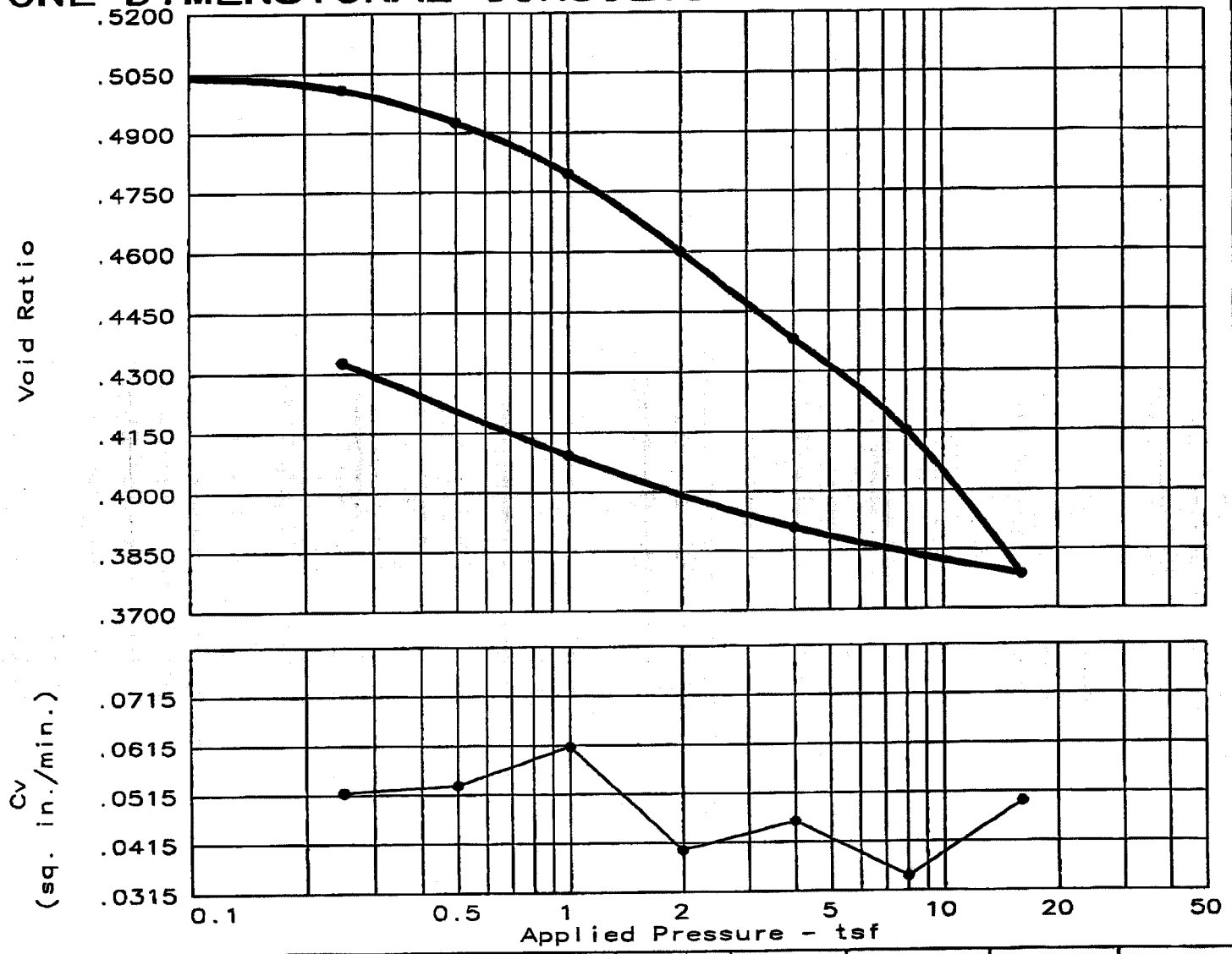
MATERIAL DESCRIPTION

Lean CLAY

Class: CL

Remarks:

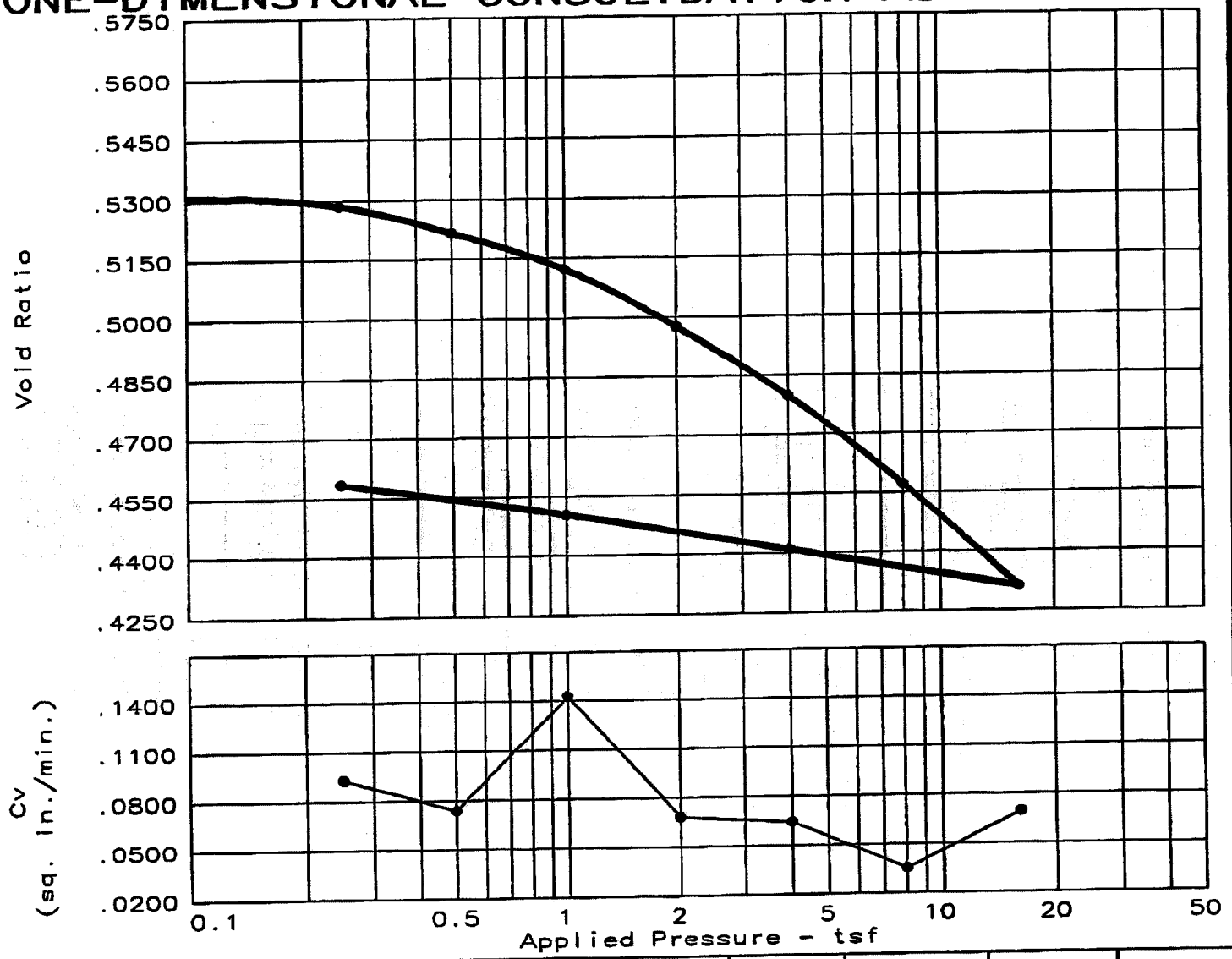
ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435



Natural Saturation	Natural Moisture	Dry Density	LL	PI	Sp.Gr.	Precons. press.	C_c	e_o
101.6 %	19.3	110.0	25	8	2.65		0.11	0.5041

TEST RESULTS	MATERIAL DESCRIPTION
Compression Index = 0.11	Lean CLAY Class: CL
ETDC Project Name: NFT Portsmouth ETDC Project No.: 808599.00110000 ETDC Sample No.: 9069 Client Sample No.: UF00SB9GEO	Remarks:
ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435 IT Corp. - GEOTECHNICAL LABORATORY	

ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435



Natural Saturation	Natural Moisture	Dry Density	LL	PI	Sp.Gr.	Precons. press.	C_c	e_o
100.5 %	20.1	108.1	33	13	2.65	2.21	0.09	0.5309

TEST RESULTS

Compression Index = 0.09

ETDC Project Name: NFT Portsmouth
ETDC Project No.: 808599.00110000
ETDC Sample No.: 9070
Client Sample No.: UF00SB11GE

ONE-DIMENSIONAL CONSOLIDATION ASTM D 2435

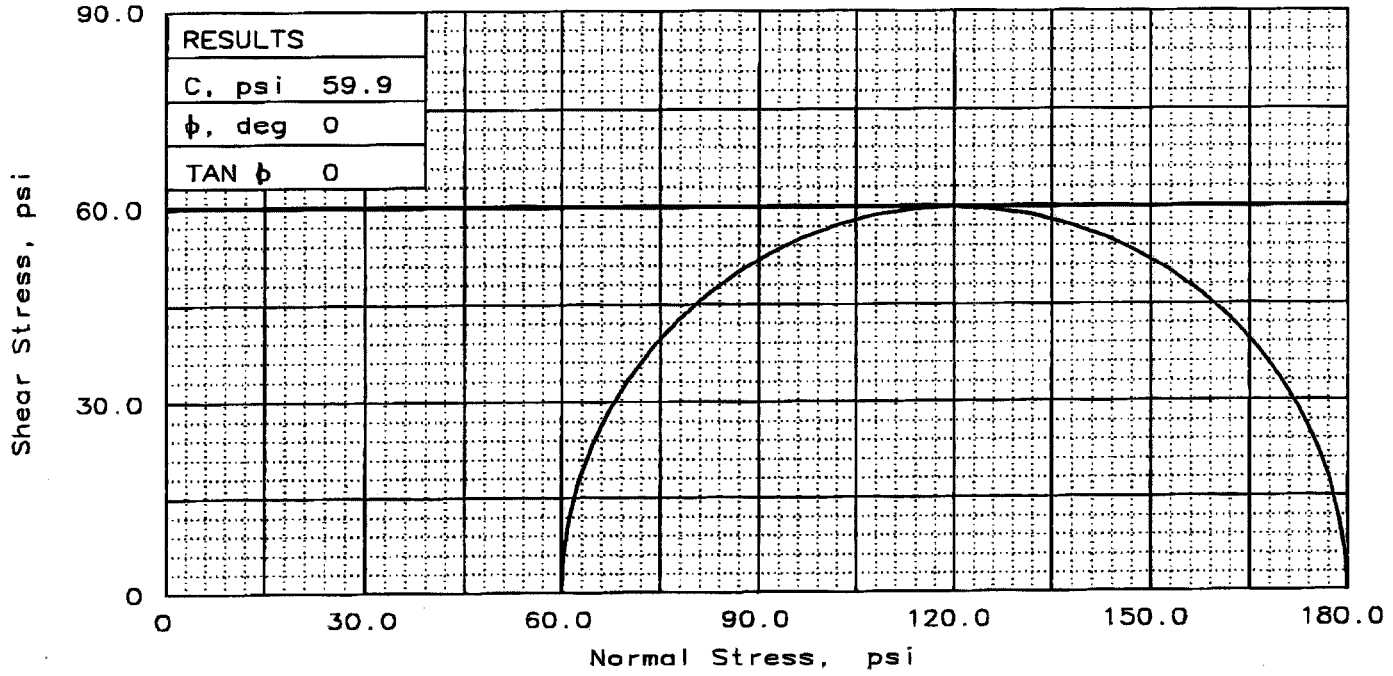
IT Corp. - GEOTECHNICAL LABORATORY

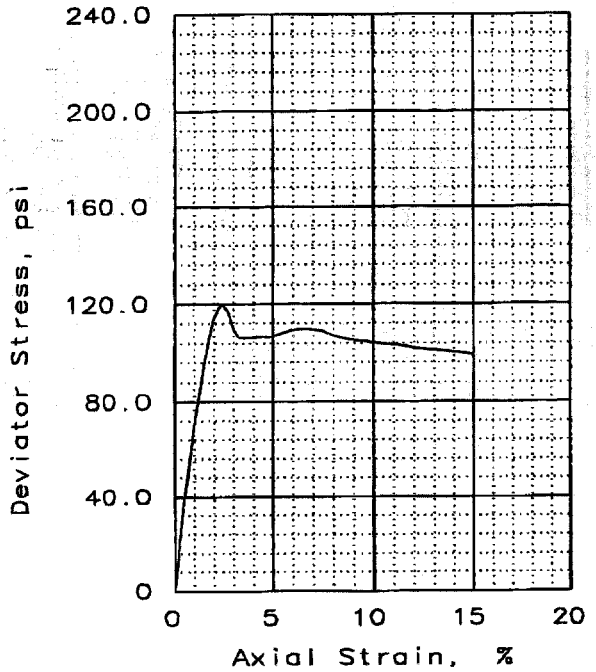
MATERIAL DESCRIPTION

Lean CLAY

Class: CL

Remarks:





SAMPLE NO.		1
INITIAL	WATER CONTENT, %	15.1
	DRY DENSITY, pcf	111.1
	SATURATION, %	81.6
	VOID RATIO	0.490
	DIAMETER, in	1.58
	HEIGHT, in	2.80
AT TEST	WATER CONTENT, %	15.1
	DRY DENSITY, pcf	111.1
	SATURATION, %	81.6
	VOID RATIO	0.490
	DIAMETER, in	1.58
	HEIGHT, in	2.80
Strain rate, in/min		0.014
BACK PRESSURE, psi		0.0
CELL PRESSURE, psi		60.0
FAILURE STRESS, psi		119.9
PORE PRESSURE, psi		
ULTIMATE STRESS, psi		99.5
PORE PRESSURE, psi		
σ_1 FAILURE, psi		179.9
σ_3 FAILURE, psi		60

TYPE OF TEST:
Unconsolidated undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS: Single point test.

Insufficient sample quantity for three points.
FIG. NO. 9068u

CLIENT: NFT

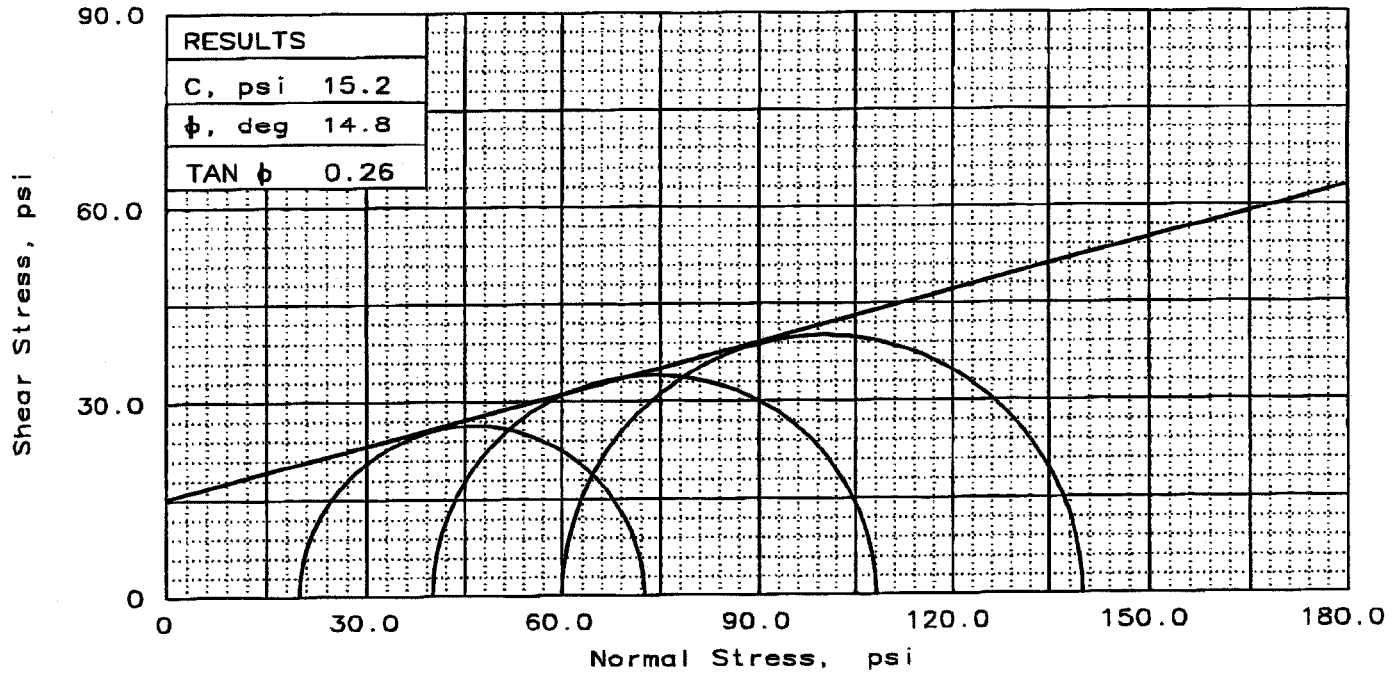
PROJECT: NFT Portsmouth

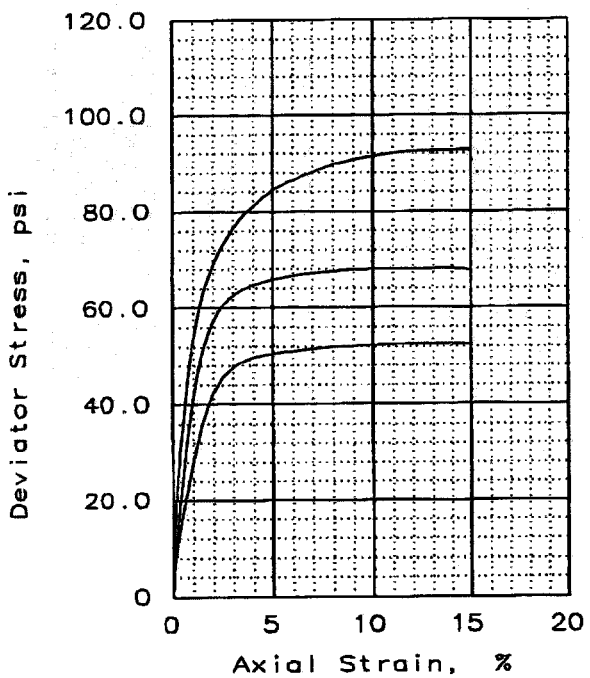
SAMPLE LOCATION: Lab sample no. ETDC-9068
Client sample no. UF00-SB7-GEO (0'-2')

PROJ. NO.: 808599 DATE: 10/12/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	21.9	21.9	21.9
	DRY DENSITY, pcf	97.9	102.0	105.9
	SATURATION, %	84.1	93.3	103.3
	VOID RATIO	0.691	0.623	0.562
	DIAMETER, in	2.85	2.85	2.85
	HEIGHT, in	5.66	5.64	5.68
AT TEST	WATER CONTENT, %	22.5	21.8	20.8
	DRY DENSITY, pcf	97.9	102.0	105.9
	SATURATION, %	86.5	92.7	98.2
	VOID RATIO	0.691	0.623	0.562
	DIAMETER, in	2.85	2.85	2.85
	HEIGHT, in	5.66	5.64	5.68
Strain rate, in/min		0.032	0.032	0.032
BACK PRESSURE, psi		0.0	0.0	0.0
CELL PRESSURE, psi		20.0	40.0	60.0
FAILURE STRESS, psi		52.6	68.1	80.1
PORE PRESSURE, psi				
ULTIMATE STRESS, psi		52.4	67.8	92.7
PORE PRESSURE, psi				
σ_1 FAILURE, psi		72.6	108.1	140.1
σ_3 FAILURE, psi		20	40	60

TYPE OF TEST:
Unconsolidated undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION: Lean CLAY

LL= 33 PL= 19 PI= 14.0
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: NFT

PROJECT: NFT Portsmouth

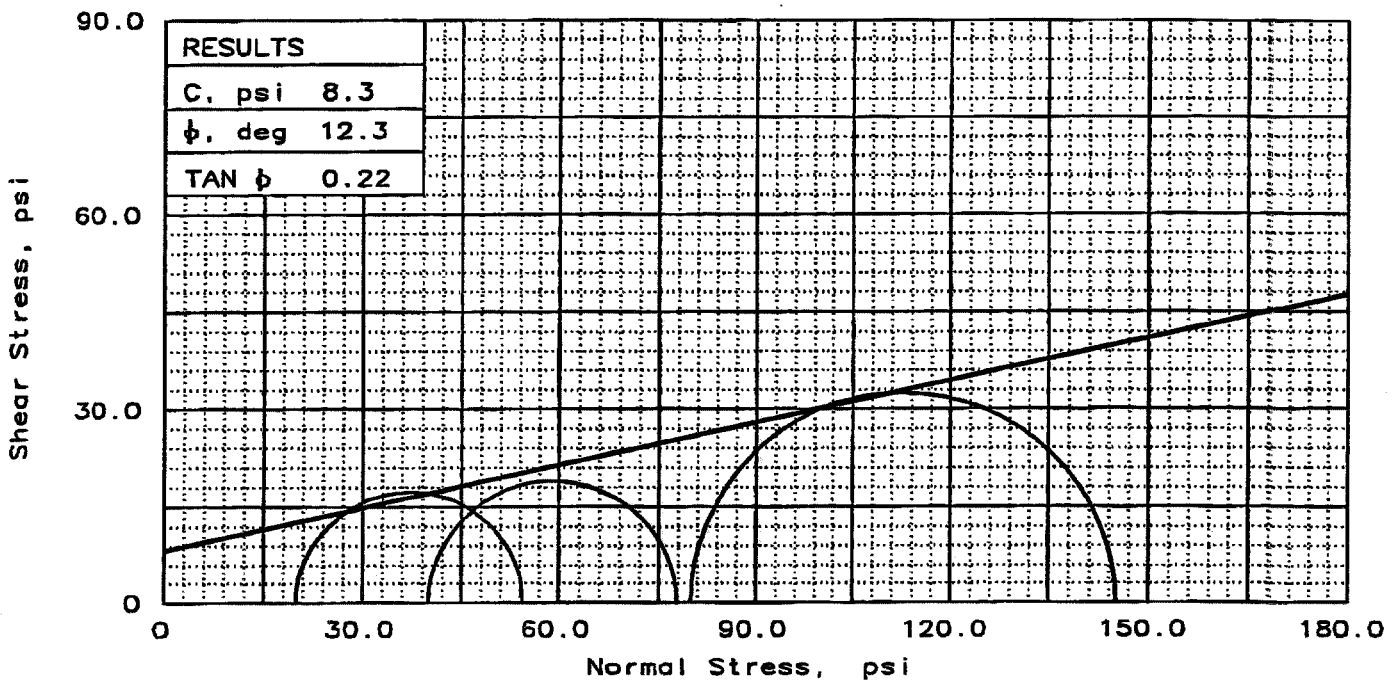
SAMPLE LOCATION: Lab sample no. ETDC-9069
Client sample no. UF00-SB9-GEO

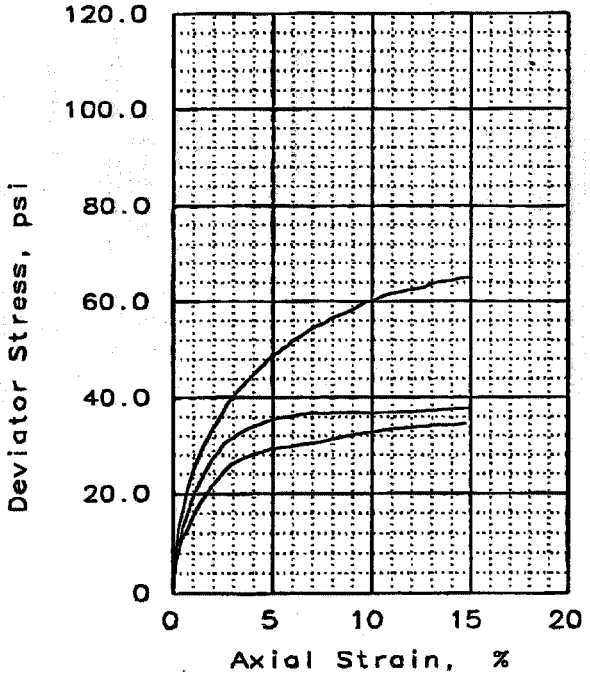
PROJ. NO.: 808599 DATE: 10/3/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY

FIG. NO. 9069





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	23.6	23.6	23.6
	DRY DENSITY, pcf	98.9	97.8	102.8
	SATURATION, %	93.0	90.4	102.6
	VOID RATIO	0.672	0.692	0.609
	DIAMETER, in	1.46	1.46	1.45
	HEIGHT, in	2.94	2.94	3.00
AT TEST	WATER CONTENT, %	24.4	23.6	18.8
	DRY DENSITY, pcf	98.9	97.8	102.8
	SATURATION, %	96.1	90.4	81.7
	VOID RATIO	0.672	0.692	0.609
	DIAMETER, in	1.46	1.46	1.45
	HEIGHT, in	2.94	2.94	3.00
Strain rate, in/min		0.016	0.016	0.017
BACK PRESSURE, psi		0.0	0.0	0.0
CELL PRESSURE, psi		20.0	40.0	80.0
FAILURE STRESS, psi		34.5	37.8	65.2
PORE PRESSURE, psi				
ULTIMATE STRESS, psi		34.5	37.8	65.2
PORE PRESSURE, psi				
σ_1 FAILURE, psi		54.5	77.8	145.2
σ_3 FAILURE, psi		20	40	80

TYPE OF TEST:
Unconsolidated undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS:

FIG. NO. 9070u

CLIENT: NFT

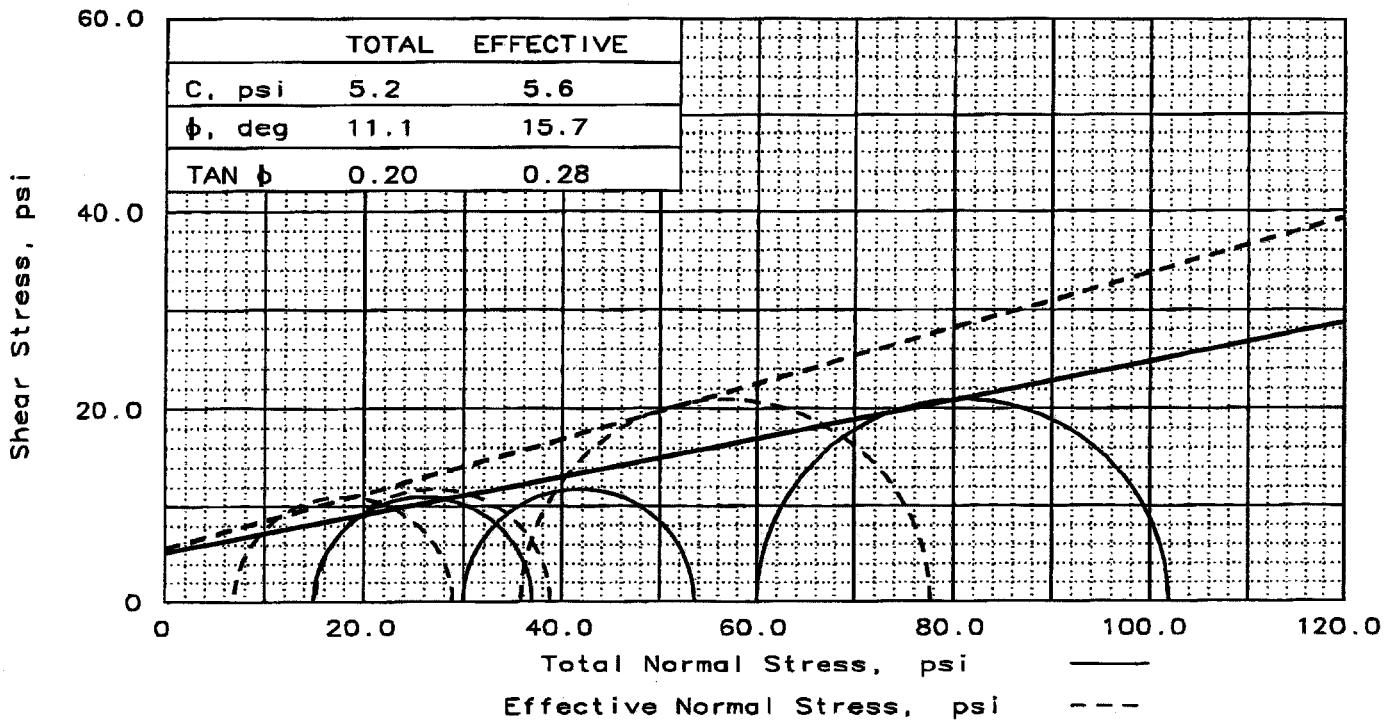
PROJECT: NFT - Portsmouth

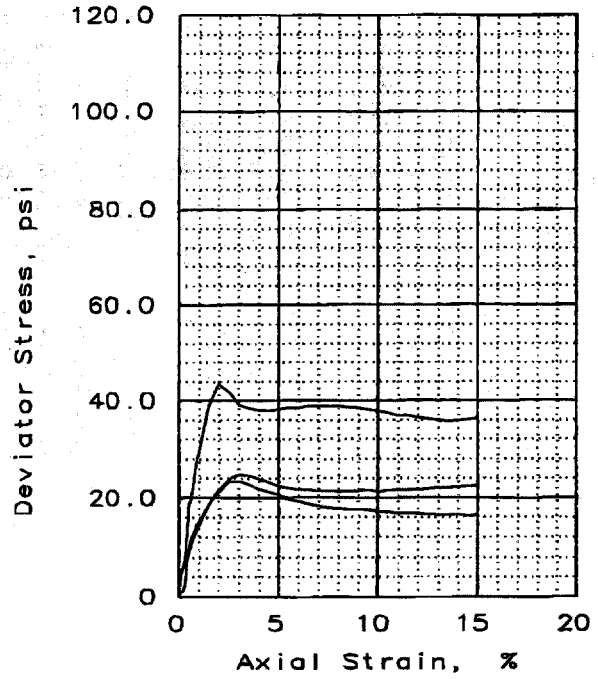
SAMPLE LOCATION: Lab sample no. ETDC-9070
Client sample no. UF00-SB11-GEO

PROJ. NO.: 808599 DATE: 7/27/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	0.0	0.0	0.0
	DRY DENSITY, pcf	121.6	125.5	126.8
	SATURATION, %	0.0	0.0	0.0
	VOID RATIO	0.361	0.318	0.305
	DIAMETER, in	1.92	2.00	2.00
	HEIGHT, in	3.19	4.01	3.99
AT TEST	WATER CONTENT, %	28.9	29.3	24.0
	DRY DENSITY, pcf	122.9	128.7	130.1
	SATURATION, %	221.4	272.3	233.9
	VOID RATIO	0.346	0.285	0.272
	DIAMETER, in	1.91	1.98	1.98
	HEIGHT, in	3.18	3.97	3.95
Strain rate, in/min		0.002	0.002	0.002
BACK PRESSURE, psi		20.0	20.0	20.0
CELL PRESSURE, psi		35.0	50.0	80.0
FAILURE STRESS, psi		21.9	23.6	41.9
PORE PRESSURE, psi		28.0	34.8	44.2
ULTIMATE STRESS, psi		22.6	16.5	36.3
PORE PRESSURE, psi		19.6	22.8	31.6
$\bar{\sigma}_1$ FAILURE, psi		28.9	38.8	77.7
$\bar{\sigma}_3$ FAILURE, psi		7	15.2	35.8

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: Undisturbed
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: NFT

PROJECT: NFT Portsmouth

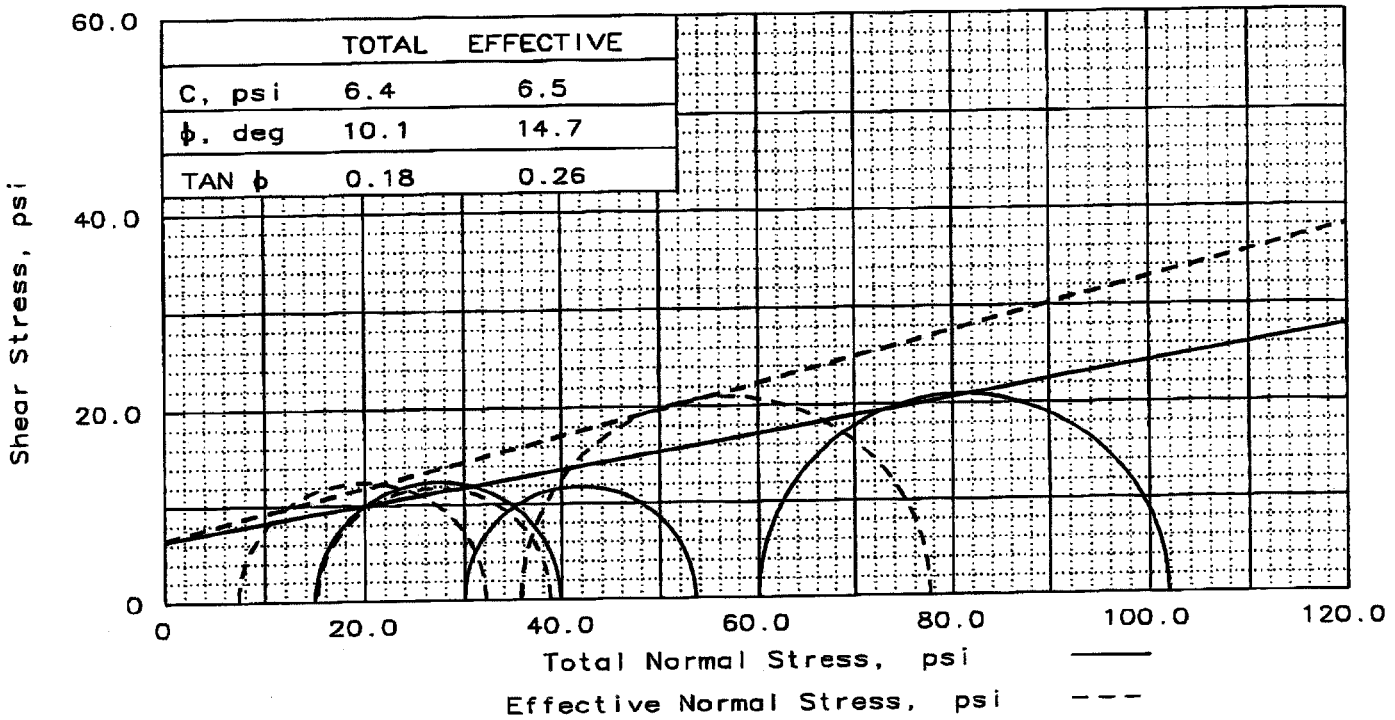
SAMPLE LOCATION: Lab sample no. ETDC-9068
Client sample no. UF00-SB7-GEO

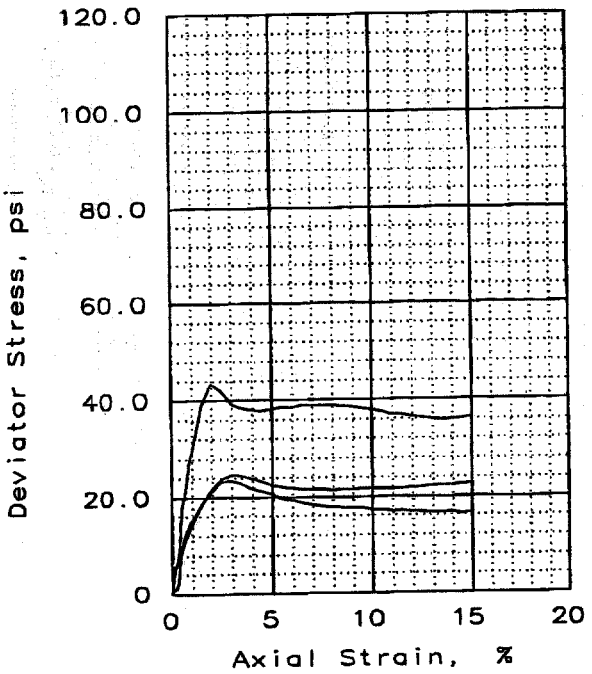
PROJ. NO.: 808599 DATE: 10/12/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY

FIG. NO. 9068c





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	0.0	0.0	0.0
	DRY DENSITY, pcf	121.6	125.5	126.8
	SATURATION, %	0.0	0.0	0.0
	VOID RATIO	0.361	0.318	0.305
	DIAMETER, in	1.92	2.00	2.00
	HEIGHT, in	3.19	4.01	3.99
AT TEST	WATER CONTENT, %	28.9	29.3	24.0
	DRY DENSITY, pcf	122.9	128.7	130.1
	SATURATION, %	221.4	272.3	233.9
	VOID RATIO	0.346	0.285	0.272
	DIAMETER, in	1.91	1.98	1.98
	HEIGHT, in	3.18	3.97	3.95
Strain rate, in/min		0.002	0.002	0.002
BACK PRESSURE, psi		20.0	20.0	20.0
CELL PRESSURE, psi		35.0	50.0	80.0
FAILURE STRESS, psi		24.8	23.6	41.9
PORE PRESSURE, psi		27.6	34.8	44.2
ULTIMATE STRESS, psi		22.6	16.5	36.3
PORE PRESSURE, psi		19.6	22.8	31.6
$\bar{\sigma}_1$ FAILURE, psi		32.2	38.8	77.7
$\bar{\sigma}_3$ FAILURE, psi		7.4	15.2	35.8

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: Undisturbed
DESCRIPTION:

LL= PL= PI=
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: NFT

PROJECT: NFT Portsmouth

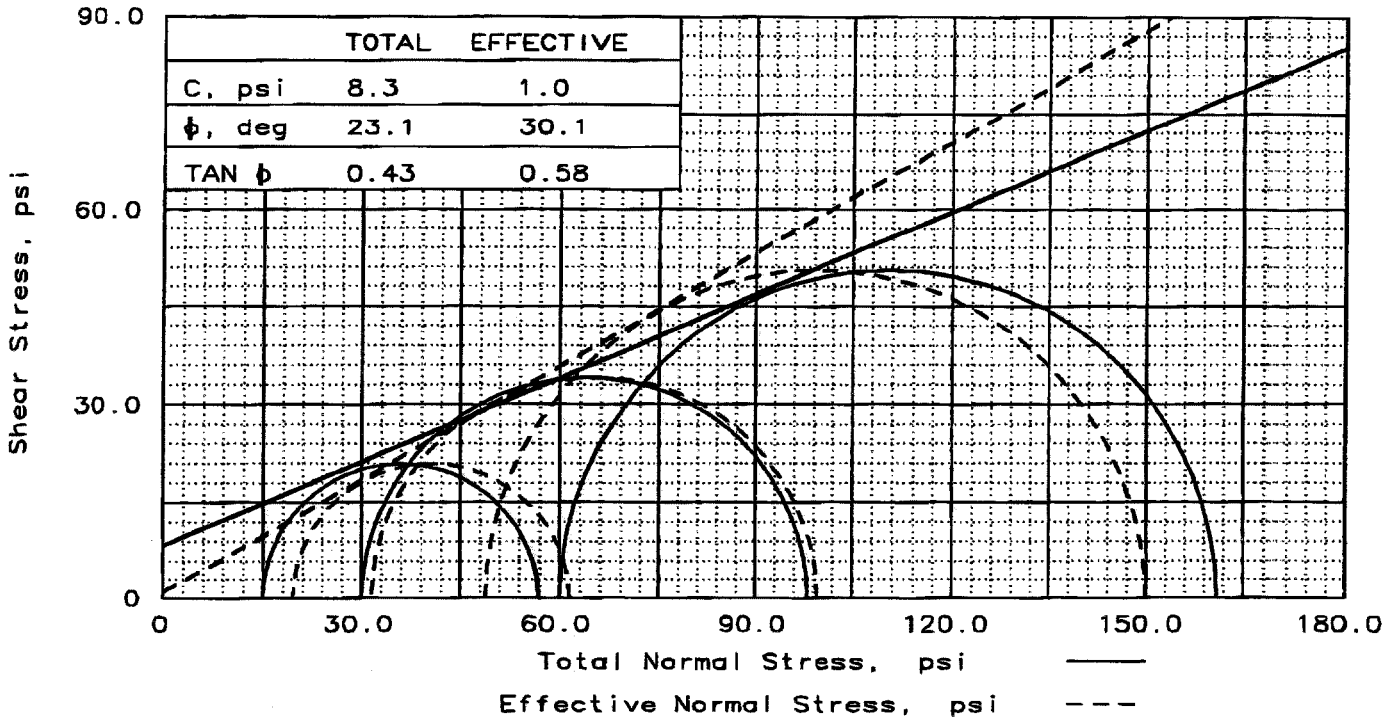
SAMPLE LOCATION: Lab sample no. ETDC-9068
Client sample no. UF00-SB7-GEO

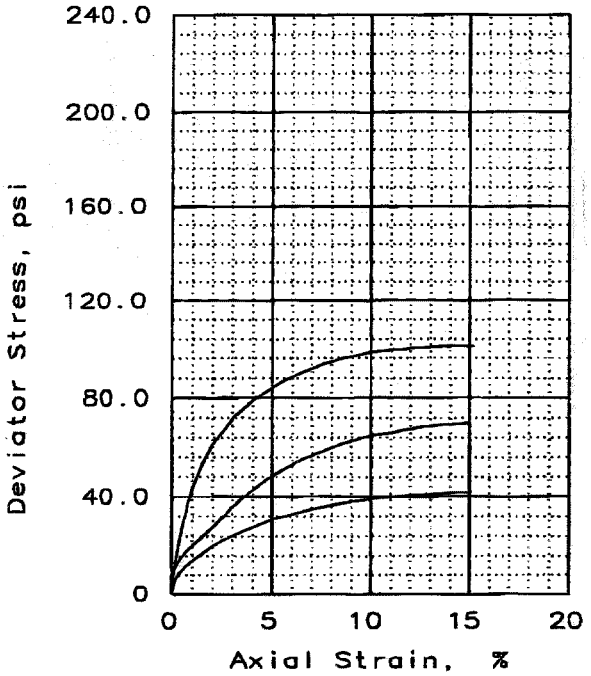
PROJ. NO.: 808599 DATE: 10/12/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY

FIG. NO. 9068c





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	17.9	17.9	17.9
	DRY DENSITY, pcf	110.9	114.2	114.9
	SATURATION, %	96.7	105.8	107.9
	VOID RATIO	0.491	0.449	0.440
	DIAMETER, in	2.86	2.82	2.83
	HEIGHT, in	5.60	5.15	5.54
AT TEST	WATER CONTENT, %	18.9	18.5	17.8
	DRY DENSITY, pcf	113.0	115.0	119.3
	SATURATION, %	107.9	111.6	121.9
	VOID RATIO	0.464	0.439	0.387
	DIAMETER, in	2.85	2.81	2.79
	HEIGHT, in	5.57	5.14	5.47
Strain rate, in/min		0.002	0.002	0.002
BACK PRESSURE, psi		24.0	24.0	24.0
CELL PRESSURE, psi		39.0	54.0	84.0
FAILURE STRESS, psi		41.9	68.1	101.0
PORE PRESSURE, psi		19.4	22.5	35.1
ULTIMATE STRESS, psi		41.9	69.8	100.9
PORE PRESSURE, psi		19.4	20.0	34.4
$\bar{\sigma}_1$ FAILURE, psi		61.5	99.6	149.9
$\bar{\sigma}_3$ FAILURE, psi		19.6	31.5	48.9

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: Undisturbed
DESCRIPTION: Lean CLAY

LL= 33 PL= 19 PI= 14.0
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: NFT

PROJECT: NFT Portsmouth

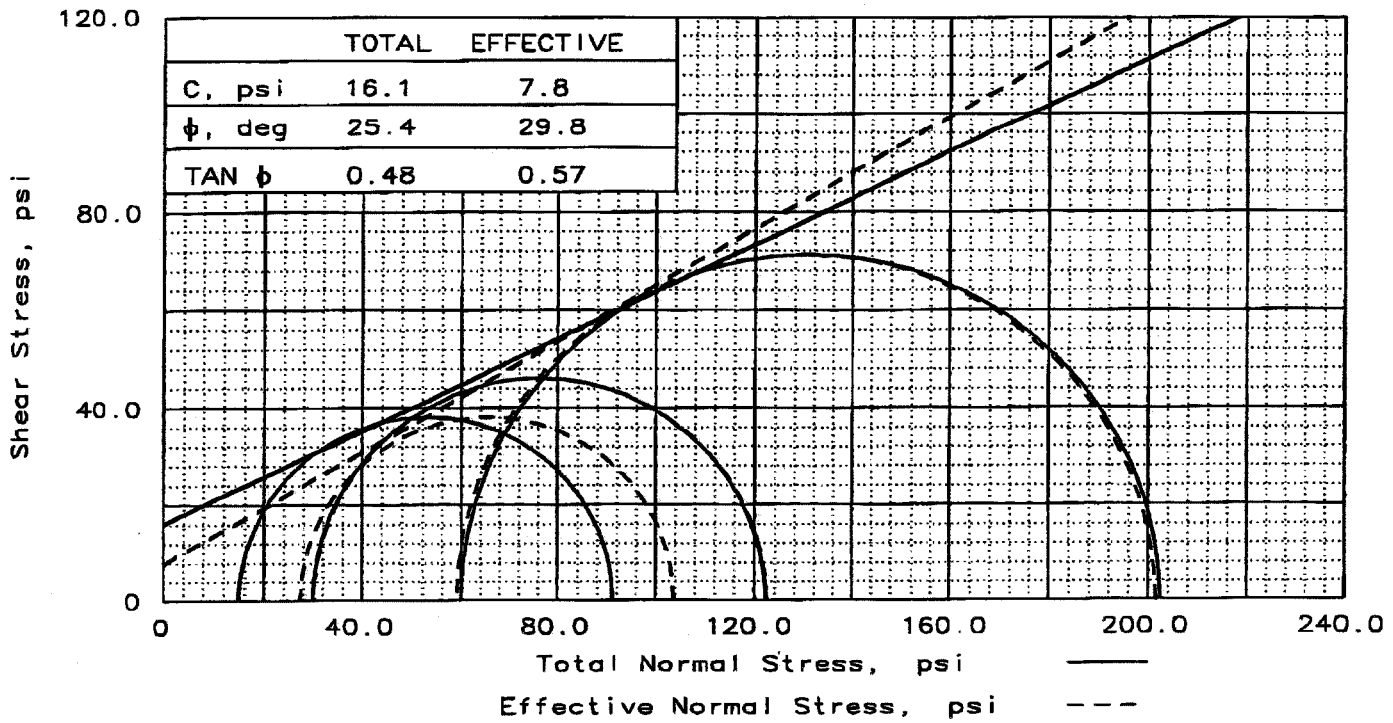
SAMPLE LOCATION: Lab sample no. ETDC-9069
Client sample no. UF00-SB9-GEO

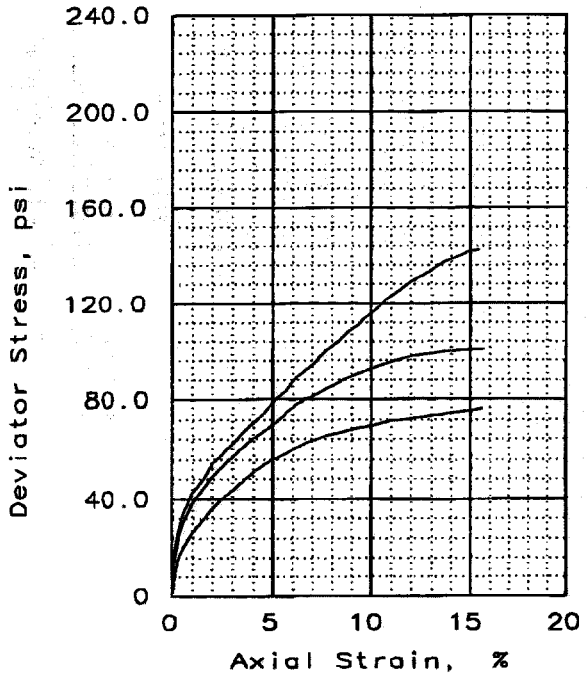
PROJ. NO.: 808599 DATE: 10/16/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY

FIG. NO. 9069c





SAMPLE NO.		1	2	3
INITIAL	WATER CONTENT, %	24.4	24.4	24.4
	DRY DENSITY, pcf	103.1	105.2	107.1
	SATURATION, %	106.9	112.9	118.7
	VOID RATIO	0.604	0.572	0.544
	DIAMETER, in	1.47	1.46	1.51
	HEIGHT, in	3.19	2.91	3.13
AT TEST	WATER CONTENT, %	20.8	19.0	17.1
	DRY DENSITY, pcf	116.5	120.4	117.4
	SATURATION, %	131.7	134.6	110.6
	VOID RATIO	0.420	0.374	0.409
	DIAMETER, in	1.42	1.40	1.46
	HEIGHT, in	3.06	2.78	3.04
Strain rate, in/min		0.003	0.003	0.003
BACK PRESSURE, psi		20.0	20.0	20.0
CELL PRESSURE, psi		35.0	50.0	80.0
FAILURE STRESS, psi		76.3	92.3	142.5
PORE PRESSURE, psi		7.5	19.8	20.9
ULTIMATE STRESS, psi		22.3	101.1	142.5
PORE PRESSURE, psi		28.0	12.4	20.9
$\bar{\sigma}_1$ FAILURE, psi		103.8	122.5	201.6
$\bar{\sigma}_3$ FAILURE, psi		27.5	30.2	59.1

TYPE OF TEST:
CU with pore pressures
SAMPLE TYPE: Undisturbed
DESCRIPTION: Lean CLAY

LL= 33 PL= 20 PI= 13.0
SPECIFIC GRAVITY= 2.65
REMARKS:

CLIENT: NFT

PROJECT: NFT Portsmouth

SAMPLE LOCATION: Lab sample no. ETDC-9070
Client sample no. UF00-SB11-GEO

PROJ. NO.: 808599 DATE: 10/16/2000

TRIAXIAL SHEAR TEST REPORT

IT CORPORATION GEOTECHNICAL LABORATORY

FIG. NO. 9070c

ATTERBERG LIMITS
ASTM D 4318

PROJECT NAME:
NFT Portsmouth

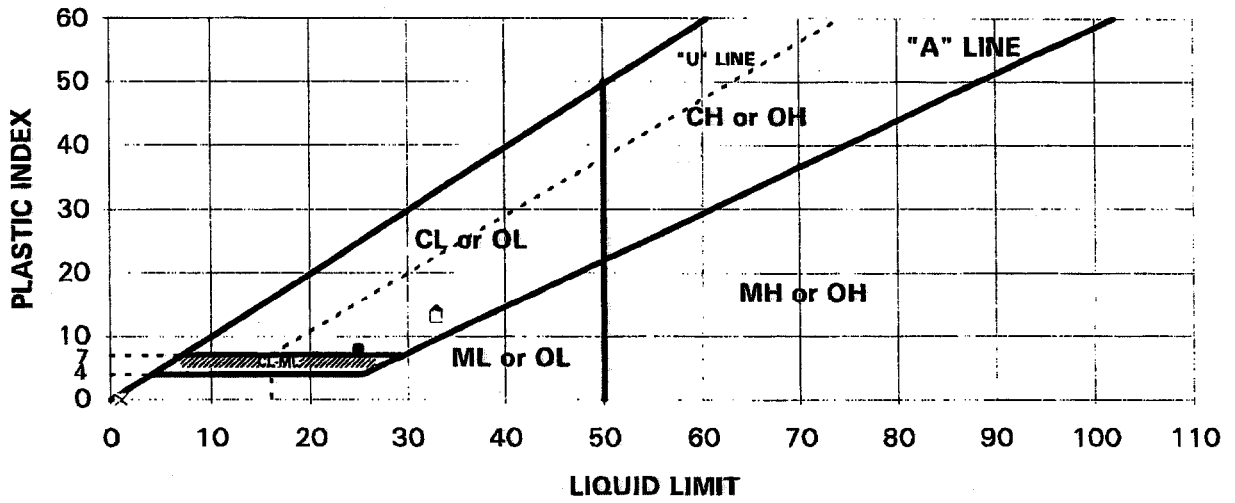
PROJECT NO.
808599.00110000

ATTERBERG LIMITS RESULTS

LAB SAMPLE NO.	FIELD SAMPLE NO.	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	USCS SYMBOL
ETDC-9068 •	UF00-SB7-GEO	25	17	8	CL
ETDC-9069 •	UF00-SB9-GEO	33	19	14	CL
ETDC-9070 □	UF00-SB11-GEO	33	20	13	CL
◊					
+					
○					
■					
x					
△					
*					

*NP = Nonplastic

PLASTICITY CHART



MOISTURE CONTENT

PROJECT NAME
NFT Portsmouth

PROJECT NUMBER
808599.00110000

IT LAB SAMPLE NO.	CLIENT SAMPLE NO.	MOISTURE, % ASTM D 2216	MOISTURE , % SW846	SOLIDS, % SW846
ETDC-9065 @ 0-2'	UF00-SB4-GEO	17.3	14.7	85.3
ETDC-9066 @ 0-2'	UF00-SB5-GEO	15.8	13.7	86.3
ETDC-9067 @ 0-2'	UF00-SB6-GEO	14.1	12.4	87.6
ETDC-9068 @ 5-7'	UF00-SB7-GEO	17.4	14.8	85.2
ETDC-9069 @ 12-14'	UF00-SB9-GEO	19.3	16.2	83.8
ETDC-9070 @ 7-9'	UF00-SB11-GEO	21.6	17.7	82.3

ASTM D 2216 results are based on dry sample weight.
SW846 results are based on wet sample weight.
Solids content is determined by subtracting the SW846 moisture (%) from 100.