Project No.: 03.14.859.054

Client: United States Army Corps of Engineers

Project: Beltway 8 PA Lab Testing
Contract No. DACW64-03-D-0008, Delivery Order No. 0054

Boring No.	Sample No.	Soil Description	USCS	Water Content (%)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)	Uc/UU. Compr. (tsf)	Cell Press. (psi)	Failure Strain (%)	Failure Type
	7	Gray and tan FAT CLAY; sand partings and traces of ferrous and calcareous nodules	CH	27.8		77	27	50					
06-18													
	2	Gray and brown FAT CLAY with SAND; sand seams	CH	24.8		63	24	39	75.9				
	5	Light gray and tan SILTY SAND; traces of ferrous nodules	SM	15.1		23	20	3	20.2				
06-19													
	1	Gray and tan SANDY LEAN CLAY; crushed shells, sand, traces of ferrous and calcareous nodules	CL	14.7									
	2	Gray and brown FAT CLAY; traces of ferrous and calcareous nodules	CH	19.5		52	21	31					
	3	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	18.2									
	4	Gray and tan FAT CLAY; few ferrous and calcareous nodules	CH	16.3									
	5	Gray and tan FAT CLAY; traces of calcareous and ferrous	CH	31.9									
	6	Gray and tan FAT CLAY; traces of calcareous and ferrous	CH	29.2		80	24	56					
	7	Gray and tan FAT CLAY; traces of calcareous and ferrous	CH	29.2									
06-21													
	1	Gray and tan FAT CLAY; few ferrous nodules	CH	17.9									
	2	Gray and tan FAT CLAY; traces of ferrous nodules	CH	23.6									
	3	Gray and tan FAT CLAY; traces of ferrous nodules	CH	21.1		68	20	48					
	4	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	16.9									
	5	Gray and tan FAT CLAY; traces of ferrous nodules	CH	25.8									
	6	Gray and tan FAT CLAY; traces of ferrous nodules	CH	25.8		78	26	52					
	7	Gray and tan FAT CLAY; traces of ferrous nodules	CH	24.3									
	9	Gray and tan FAT CLAY; traces of ferrous nodules	CH	25.0									
	11	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	31.4									
06-22													
	2	Gray and tan FAT CLAY; sand pockets and traces of ferrous nodules	CH	18.4									
	4	Tan FAT CLAY	CH	22.4	101.3	52	21	31	85.6				
	5	Gray and tan FAT CLAY; little calcareous nodules and few ferrous nodules	CH	32.0									
	7	Tan and light gray FAT CLAY	CH	28.5	93.4	69	27	42	98.6				
06-23													
	2	Gray and tan LEAN CLAY; traces of ferrous and calcareous nodules and roots	CL	17.7									
	3	Gray and tan SANDY LEAN CLAY; traces of ferrous	CL	14.0									

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Boring No.	Sample No.	Soil Description	USCS	Water Content (%)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plast. Index	Finer than #200 Sieve (%)	Uc/UU. Compr. (tsf)	Cell Press. (psi)	Failure Strain (%)	Failure Type
		nodules											
	4	Gray and tan FAT CLAY; few calcareous and ferrous nodules	CH	28.7									
	5	Gray and tan FAT CLAY; sand seams, traces of ferrous and calcareous nodules	CH	26.3									
	6	Gray and tan FAT CLAY; traces of ferrous nodules	CH	28.6									
	7	Gray and tan FAT CLAY; traces of ferrous nodules	CH	29.8									
06-24													
	3	Gray and tan FAT CLAY with SAND; traces of ferrous nodules	CH	18.2		50	20	30	74.5				
	5	Gray and tan FAT CLAY; few calcareous nodules and traces of ferrous nodules	CH	17.9									
	7	Gray and tan FAT CLAY; traces of ferrous nodules	CH	26.9									
06-25													
	2	Gray and brown FAT CLAY; traces of ferrous nodules	CH	24.5		57	20	37					
	3	Gray and tan LEAN CLAY	CL	18.3									
	4	Gray and tan LEAN CLAY; few calcareous nodules and traces of ferrous nodules	CL	14.1		46	19	27					
	5	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	21.4									
	6	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	23.2									
	13	Gray and tan FAT CLAY; few ferrous and calcareous nodules	CH	27.8		76	27	49	90.8				
06-26													
	2	Gray and tan FAT CLAY; traces of ferrous nodules	CH	18.5									
	3	Gray and tan FAT CLAY; traces of ferrous nodules	CH	19.3		53	19	34					
	5	Gray and tan FAT CLAY; few calcareous nodules and traces of ferrous nodules	CH	18.5									
	7	Gray and tan FAT CLAY; traces of ferrous and calcareous nodules	CH	28.0									
06-27													
	2	Gray and brown FAT CLAY; sand seams and traces of ferrous nodules	CH	23.9		54	20	34					
	4	Gray and tan FAT CLAY; traces of ferrous nodules	CH	16.0									
	6		CH	19.7									
06-28													
	2	Gray and tan LEAN CLAY; traces of ferrous nodules	CL	14.6									
	4	Gray and tan FAT CLAY; few ferrous and calcareous nodules	CH	23.4									

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