

O'BRIEN & GERE					TEST BORING LOG		BORING NO. GMW 504 SHT. 1 OF 2				
PROJECT LOCATION: McPherson, KS Schilling Atlas Site S-5 CLIENT: Corps of Engineers					SAMPLER TYPE: CME 5-foot split-tube HAMMER: FALL:		GROUND WATER DEPTH DATE ELEV. DEPTH DATE ELEV.				
BORING CO: Corps of Engineers FOREMAN: Danny Margolis OBG GEOLOGIST: Dave Cika					RIG: CME-55 Hollow stem Augering		BORING LOCATION: North of Silo GROUND ELEVATION: TOL: DATES: STARTED: 10-20-88 ENDED: 10-20-88				
DEPTH FEET	SAMPLE				Borehole Diameter: 7 inches	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	FIELD TESTING			RMKS
	ST NO.	(FEET) DEPTH	BLOWS 6"	PEN/ REC.				"N" VALUE	SAL o/oo	SP. COND.	
0	1	0.0-4.0		4.0/3.0		Fill - brown silty clay with crushed rock and plastic shavings and chips, increase in plastic content below 1.3'	F ₁				add
5	2	4.0-9.0		5.0/0.5		Fill - plastic shavings, chips, and powder (noticeable faint sweet solvent odor in air - no HNU reading - source not identifiable)					add
10	3	9.0-14.0		5.0/0.0		Fill - plastic shavings and powder with some silty clay - No cuttings return from augers					add
15	4	14.0-19.0		5.0/0.0		Apparent very loose plastic fill - Apparent perched water table in fill @ 18.0'					add
20	5	19.0-24.0		5.0/5.0		Fill - medium brown silty clay, some limestone fragments, trace to some plastic powder and shavings, trace quartz gravel and crushed limestone in upper 2' - wet					add
25	6	24.0-29.0		5.0/5.0		- Apparent end of fill @ 26.4' Medium brown to occ reddish-brown silty clay, some black mottling and moderately	CL				add
30	7	29.0-34.0		5.0/5.0							add

O'BRIEN & GERE		TEST BORING LOG		BORING NO. GAWMS048HT. 2 OF 2		
PROJECT LOCATION: McPherson, KS		SAMPLER		GROUND WATER		
Schilling Atlas Site 5-5		TYPE: CME 5-foot split-tube		DEPTH	DATE	ELEV.
CLIENT: Corps of Engineers		HAMMER:		DEPTH	DATE	ELEV.
		FALL:		FILE NO: 3068.011		
BORING CO: Corps of Engineers		RIG: CME-55		BORING LOCATION: North of Silo		
FOREMAN: Danny Marquis		Hollow Stem		GROUND ELEVATION: Tol:		
OBG GEOLOGIST: Dave Cika		Augering		DATES: STARTED: 10-20-88 ENDED: 10-20-88		

FT DEPT	SAMPLE					SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	FIELD TESTING			RMKS
	ST NO.	(FEET) DEPTH	BLOWS 8"	PEN/ REC.	"N" VALUE			SAL p/cc	SP. COND.	HNL	
30						(cont'd) weathered limestone fragments (maximum cobble size) - damp to moist medium brown to reddish-brown slightly silty clay, some black, light gray, and yellow mottling, trace to some weathered limestone fragments - damp	CL				
35	8	34.0-39.0		5.0/5.0		Light to medium brown and light gray silty clay, occ. black mottling, some zones of severely weathered limestone, some cobble size moderately weathered fragments and fine sand - moist					
40	9	39.0-44.0		5.0/5.0		Free ground water at 40.0' after ST#9 medium brown silty clay, abundant moderately to severely weathered limestone fragments (maximum cobble size) from 39.0' to 39.5' and 43.6' to 44.0' trace to some fine sand - moist					
45	10	44.0-49.0		5.0/5.0		Medium brown fine sandy clay, some light gray mottling, trace black nodules and rust colored staining, trace severely weathered limestone - moist	SC				
50	11	49.0-52.0		3.0/3.0		Tan and gray fine sand clay, occ rust colored staining and black nodules - moist - sand content increasing					
55						Total Depth - 52.0'					
						- Set 15.0' of 2-inch I.D., Schedule 40 PVC, Tri Loc, #10 machine slot well screen at 49.5' (below ground surface), riser casing - schedule 40 PVC, Tri Loc, from 34.5' to 2.0' above grade.					
						- Sandpack from 52.0' to 31.0'					
						- Bentonite seal from 31.0' to 28.0'					
						- Bentonite hydration time: 15 hours					
						- Grout from 28.0' to within 1.0' of					
60						ground surface with 470 lbs of Type I cement					
						- Grout curing time: Greater than 48 hours					
						- Centralizers not used due to unstable fill zone					

