

APPENDIX A

SOIL BORING AND GROUNDWATER MONITORING WELL LOGS



BORING LOG / WELL LOG

BORE NUMBER: SB-1	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
SEAL:	

CASING TYPE:	DIAMETER:	LENGTH:	WATER LEVEL INITIAL:	HOLE DIA:
SCREEN TYPE:	SLOT:	DIA:	WATER LEVEL COMPLETION:	TOTAL DEPTH: 13.5

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
SB-1 (0-5)	1416	0			Top 0.5-ft gravel, asphalt & silt then 4-inches of red silt & sand grading to a gray gravel/silt & sand; no odor; no visible staining	
		1				
		2	52%			
		3				
		4				
SB-1 (5-10)	364	5			Hard, moist, dark brown silty clay with some small gravel pieces throughout; no odor; no visible staining; wet at 9.6 inches	
		6				
		7	70%			
		8				
		9				
		10				
SB-1 (10-13.5)	215	11			Soft, moist, brown clay; plastic; no odor; no visible staining	
		12	20%			
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



BORING LOG / WELL LOG

BORE NUMBER: SB-2/MW-1	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
	SEAL: Bentonite

CASING TYPE: PVC	DIAMETER: 2"	LENGTH: 6.15-ft	WATER LEVEL INITIAL: 9.64-ft BTOC	HOLE DIA: 8.5-in
SCREEN TYPE: PVC	SLOT: 0.01	DIA: 2"	LENGTH: 5-ft	WATER LEVEL COMPLETION: 8.35-ft BTOC
				TOTAL DEPTH: 11.15-ft

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
	422	0 1 2 3 4	52%		Top 1-ft asphalt, gravel & silt then hard, slightly moist, brown clay with black mottling with some fill at bottom; no odor; no visible staining	
	225	5 6 7 8 9	60%		Hard, slightly moist, slightly silty, brown clay with gravel grading to a soft, moist, brown clay; no odor; no visible staining	
SB-2 (10-12)	233	10 11	100%		Soft, wet but not saturated, brown clay; no odor; no visible staining	
		12 13 14 15 16 17 18 19 20				



BORING LOG / WELL LOG

BORE NUMBER: SB-3	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
SEAL:	

CASING TYPE:	DIAMETER:	LENGTH:	WATER LEVEL INITIAL:	HOLE DIA:
SCREEN TYPE:	SLOT:	DIA:	WATER LEVEL COMPLETION:	TOTAL DEPTH:

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
		0			All gravel - would not stay in sleeve	
		1				
		2	0%			
		3				
		4				
		5			Slightly moist, hard brown clay with gravel grading to a softer, moist, brown clay with some gravel; no odor; no visible staining	
SB-3 (5-10)	166	6				
		7	40%			
		8				
		9				
		10			Moist, brown clay with limestone on the end; plastic; no odor; no visible staining	
SB-3 (10-11.5)	66.5	11	100%			
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



BORING LOG / WELL LOG

BORE NUMBER: SB-4/MW-2	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
	SEAL: Bentonite

CASING TYPE: PVC	DIAMETER: 2"	LENGTH: 1.05-ft	WATER LEVEL INITIAL: DRY	HOLE DIA: 8.5-in
SCREEN TYPE: PVC	SLOT: 0.01	DIA: 2"	LENGTH: 5-ft	WATER LEVEL COMPLETION: 5.77-ft BTOC
				TOTAL DEPTH: 6.05-ft

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
SB-4 (0-6)	1.7	0			Top 11-inches gravel, silt and asphalt grades to a dark brown, hard clay; very slight petroleum odor; no visible staining	
		1				
		2	40%			
		3				
		4				
		5				
		6	85%		Hard, dark brown clay; very slight petroleum odor; no visible staining	
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



BORING LOG / WELL LOG

BORE NUMBER: SB-5	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
SEAL:	

CASING TYPE:	DIAMETER:	LENGTH:	WATER LEVEL INITIAL:	HOLE DIA:
SCREEN TYPE:	SLOT:	DIA:	WATER LEVEL COMPLETION:	TOTAL DEPTH:

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
SB-5 (0-6)	3.6	0			All gravel, sand & silt	
		1				
2	30%					
3						
4						
5						
		6	100%		Hard brown, slightly silty clay with black mottling; no odor	
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



BORING LOG / WELL LOG

BORE NUMBER: SB-6	LOCATION: 265 Midland Ave., Lexington, KY	
DATE: 5/21/2008	WEATHER: Sunny & 70	
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental	
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore	
ELEVATION:	GRAVEL PACK:	SEAL:

CASING TYPE:	DIAMETER:	LENGTH:	WATER LEVEL INITIAL:	HOLE DIA:
SCREEN TYPE:	SLOT:	DIA:	WATER LEVEL COMPLETION:	TOTAL DEPTH:

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
SB-6 (0-6)	1.7	0			Wet but not saturated, dark brown clay with small gravel pieces; very slight petroleum like odor; no visible staining	
		1				
		2	24%			
		3				
		4				
		5				
		6	87%		Hard, moist dark brown clay with small pieces of gravel; limestone on end; slight petroleum like odor; no visible staining	
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				



BORING LOG / WELL LOG

BORE NUMBER: SB-7/MW-3	LOCATION: 265 Midland Ave., Lexington, KY
DATE: 5/21/2008	WEATHER: Sunny & 70
LOGGED BY: Liz Swasko	DRILLED BY: Chase Environmental
DRILLING METHOD: Geoprobe 66DT	SAMPLING METHOD: Macrocore
ELEVATION:	GRAVEL PACK:
	SEAL: Bentonite

CASING TYPE: PVC	DIAMETER: 2"	LENGTH: 8.15-ft	WATER LEVEL INITIAL: 7.68-ft BTOC	HOLE DIA: 8.5-in
SCREEN TYPE: PVC	SLOT: 0.01	DIA: 2"	LENGTH: 5-ft	WATER LEVEL COMPLETION: 5.41-ft BTOC
				TOTAL DEPTH: 13.15-ft

SAMPLE NO.	PID (ppm)	DEPTH	SAMPLE RECOVERY	PENETRATION RESISTANCE	LITHOLOGY / REMARKS	GRAPHIC LOG
	7.8	0 1 2 3 4 5	34%		Top 1.2-ft gravel, silt & sand mix then a soft, moist dark brown clay with some sand at 1.6-ft; no odor; no visible staining	
SB-7 (8-10)	522	6 7 8 9 10	64%		Hard, slightly moist, slightly silty, brown clay grading to a soft brownish gray clay; slight petroleum like odor; discoloration at 2.8-ft of 3.2-ft sample	
SB-7 (10-14)	125	11 12 13 14	64%		Soft brownish gray clay grading to soft light brown clay with some gravel in the bottom foot; limestone on the end; very slight petroleum like odor	
		15 16 17 18 19 20				

