

Attachment A

Boring Logs

SOIL BORING INFORMATION LOG

Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1	0855	5-10	100	306	189	0-24	3	con	SP	f/m	moist	qtz	10YR	2/ 1	4	black to very dark greyish brown to light brownish grey, pine odor throughout, first 30 " of core pine tar, wood pieces mixed with sand sized quartz grading into semi consolidated then unconsolidated minor silty sand to sand with sporadic minor tar, brick debris encountered 24-32"
						24-32	0.5	semi-con	SM	f/m	moist	qtz	10YR	3/ 2	4	
						32-60	0.06	uncon	SP	vf/f	moist	qtz	10YR	6/ 2	4	
0927	10-15	100	98	53.4	0-7	1	uncon	SM	f/m	wet	qtz	10YR	3/ 2	4	black to light greyish brown, low pine odor throughout, first 7" of core impacted with tar and wood debris, followed by clay/sand mixed layer with clay smelling like burnt wood/pine odor. Last 36" of core grading into saturated to wet sand with sporadic pieces of clay noted above	
					7-24	1	uncon	SP	f/m	sat	qtz	10YR	6/ 2	4		
							con	SC				5Y	2.5/ 1	4		
					24-60	1.5	uncon	SP	f/m	wet	qtz	10YR	6/ 2	4		
1008	15-20	100	4.4	81.1	0-18	0	uncon	SP	vf/f	sat	qtz	10YR	7/ 3	1	very pale brown to light brownish grey, campfire smell throughout, first 18" of core saturated washed sand with minor lithics, rest of core silty sand	
					18-60	0.25	uncon	SM	vf/f	wet	qtz	10YR	6/ 2	1		
									f/m		lithics					

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				PID	FID											
1142		20-23	100	7.2	30.4	0-36	2	semi-con	SM	f/m	moist	qtz	10YR	4/ 2	1	dark greyish brown, campfire smell throughout, entire core clayey/silty sand will form slightly role
							2.5	semi-con	SM	vf		lithics				
1150		23-26	100	3.7	442	0-36	2.5	con	SC	vf/f	moist	qtz	10YR	4/ 2	1	dark greyish brown to greyish green, campfire smell throughout, first 6" silty/clayey sand grading into sandy clay, then last 12" of core alternating from a light olive gray clayey sand back to greyish green sandy clay NOTE: Surficial/UH interface ~ 24-27 ft BGS
							2		CL				5GY	5/ 2	1	
													5Y	6/ 2	1	
1208		26-30	100	11.2	208	0-7	1.5	con	SC	vf/f	moist	qtz	5GY	5/ 2	1	greyish green to light olive grey, campfire smell throughout, first 7" greyish green sandy clay grading into silty sand to clayey gravel, grading into silty/clayey sand, pea-sized to gravel sized phosphatic nodules and quartz, phosphatic, dolomitic sandstone from 20" to 48" NOTE: clayey gravel interval core is beginning to oxidize
											dry	lithics	5Y	6/ 2	1	
						7-20	1	semi-con	SM	vf/f		qtz	5Y	6/ 2	1	
										med		lithics				
												phos nod				
						20-32	1	uncon	GC	vf/f		qtz	5Y	6/ 2	1	
										grav		lithics				
												phos nod				
						32-48	1	semi-con	SM	vf/f		qtz	5Y	6/ 2	1	
										f/m/c		lithics				
										pebb		phos nod				

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Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1230		30-35	100	4.8	24.6	0-60	0.25	semi-con	SM	f/m/c		qtz	5Y	7/ 2	1	light gray, low odor not campfire smell, brown staining noted top section of outside core, silty/clayey sand with pea-sized to gravel sized quartz, phosphatic, dolomitic sandstone, heavy phosphate throughout, noted fossilized teeth
										vf/f		lithics				
										pebb		phos nod				
										grav						
1245		35-40	100	0.3	30.6	0-28	0.06	uncon	GM	f/m/c	wet	qtz	5Y	7/ 3	1	pale yellow to light olive grey, low odor, clayey/gravelly/silty sand grading into clayey sand. Dolostone with fossil imprints noted in top 0-28" of core
										vf/f		lithics				
										pebb		phos nod				
										grav		fossil				
						28-60	0.5	semi-con	SC	f/m/c	moist	qtz	5Y	6/ 2	1	
										vf/f		lithics				
												phos nod				

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Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1415		40-45	100	1.4	50.4	0-60	1	semi-con	SM	f/m/c	moist	qtz	5Y	6/ 2	1	light olive gray with light greyish green, low odor (mothball?) clayey/silty sand to silty/clayey sand, light greyish green mottling noted top part of core, brown staining noted on outside of core
										vf		lithics	5GY	6/ 2	1	
												phos nod				
1455		45-50	100	0.3	38	0-60	1.5	semi-con	SC	f/m	moist	qtz	5Y	6/ 2	1	light olive gray, low odor (mothball?), mainly fine/med with some very fine,silty/clayey sand
										vf		lithics				
												phos nod				
1510		50-55	100	0.4	286	0-60	2	semi-con	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive gray, low odor (mothball?), mainly fine/very fine with some med,silty/clayey sand
							2.5				med					
											phos nod					
1530		55-60	100	0.3	13.3	0-60	2.5	semi-con	SM	f/m/c	moist	qtz	2.5Y	6/ 2	1	light brownish grey, low odor, mainly fine/med minor coarse clayey/silty sand
							3									
											phos nod					

SOIL BORING INFORMATION LOG

Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1600		60-65	100	0	11.5	0-32	1	semi-con	SM	f/m/c	moist	qtz	2.5Y	6/ 2	1	light brownish grey to grayish olive with yellowish brown mottling, no odor, silty/clayey sand grading into grayish olive clayey sand with pieces of yellowish brown clay mottling
												lithics				
												phos nod				
						32-60	1.5	semi-con	SC	vf/f	dry	qtz	10Y	5/ 2	1	
										f/m		lithics	10YR	5/ 4	1	
												phos nod				
							3.5	con	SC	vf/f	dry	qtz	10Y	5/ 2	1	
												lithics	10YR	5/ 4	1	
BORING TERMINATED																

SOIL BORING INFORMATION LOG

Soil Boring 2 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)											
				PID	FID	inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
2	1120	5-10	80	207	10412	0-24	0.13	uncon	SP	f/m	moist	qtz	10YR 3/ 1	4	very dark greyish to dark greyish brown, strong odor throughout (piney), sand interrupted from 24"-32" w/clay mixed with burnt material then 32"-48" silty sand, tar visible throughout core, sheen on water, staining on gloves and core sleeve
						24-32			CH		wet	qtz			
						32-48		semi-con	SM	f/m	wet	qtz	10YR 4/ 2	4	
	1215	10-15	87	197	291.6	0-16	0.22	semi-con	SM	f/m	sat	qtz	10YR 4/ 3	4	brown to pale brown to light brownish grey strong odor throughout (piney grading to campfire smell), silty sandgrading into very stiff clayey sand then grading back into a silty/clayey sand, visible pine tar throughout as layers and lenses, sheen on water, staining on gloves and core sleeve
						16-36	4.5	con	SC	f/m	moist	qtz	10YR 7/ 3	4	
						36-55	3	semi-con	SC	f/m	wet	qtz	10YR 6/ 2	4	
	1255	15-20	80	23	312	0-24	0.13	uncon	SM	f/m	wet	qtz	10YR 5/ 2	4	grayish brown to very pale brown, campfire smell odor, clayey/silty sand grading into washed sands, tar visible 0-24" then not visible to end of core
												lithics			
						24-48	0.03	uncon	SP	f/m	wet	qtz	10YR 7/ 3	1	
	1555	20-25	100	3.9	80.5	0-48	0.5	uncon	SP	f/m	wet	qtz	7.5YR 5/ 2	1	brown to dark brown, strong campfire smell throughout, sand grading into silty/sand w/minor clay, no staining
						48-60	1	semi-con	SM	f/m	wet	qtz	7.5YR 3/ 3	1	
	1630	25-29	100	9.1	29.5	0-32	0.25	uncon	SM	f/m	wet	qtz	10YR 7/ 2	1	light grey grading into greyish green, campfire smell throughout, silty sand w/minor clay grading into sandy clay, no visible tar, clay layer/surficial-UH boundary ~27-30
						32-48	2.5	con	SC	f	moist	qtz	5GY 5/ 2	1	

SOIL BORING INFORMATION LOG

Soil Boring 2 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
0848		29-35	100	0.5	157.8	0-12	1	con	SC	vf/f	wet	qtz	5GY	5/ 2	1	light grey to grey, campfire smell throughout, bottom of greyish green sandy clay boundary 0-12" grading into silty/clayey sand grading clayey/silty sand w/minor sand sized coarse phosphate grains
						12-32	0.5	semi-con	SC	f/m	sat	qtz	10YR	7/ 1	1	
						32-60	1	semi-con	SM	f/m	wet	qtz	10YR	6/ 1	1	
												lithics				
												phos nod				
0920		35-40	100	0	251	0-36	0.5	uncon	SC	f/m/c	wet	qtz	5Y	5/ 3	1	light olive gray to olive, campfire smell throughout, silty/clayey sand with indurated gravel sized quartz/phosphatic/dolomitic sandstone, some greyish green clay mottling, grading into clayey/silty sand to silty sand
									GC	grav		lithics				
												phos nod				
						36-60	0.5	uncon	SM	f/m	wet	qtz	5Y	6/ 2	1	
												lithics				
												phos nod				
1010		40-45	80	1.4	51.9	0-48	0.02	uncon	SM	f/m/c	wet	qtz	5Y	6/ 2	1	light olive gray, campfire smell throughout, gravelly/clayey/silty sand with indurated pea/gravel sized quartz/phosphatic/dolomitic sandstone
									GM			lithics				
												phos nod				

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Soil Boring 2 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1032		45-50	100	1.5	799.9	0-36	1	semi-con	SC	vf/f	moist	qtz	5Y	7/ 1	1	light grey, campfire smell throughout, clayey/silty sand grading into more silty/clayey sands w/minor med sand sized grains 0"-36", 36"-48" heavy gravelly layer with semi-rounded quartz, phosphatic, dolomitic sandstone, some fossil imprinting noted, grading back into vf/f silty/clayey sand
												lithics				
												phos nod				
						36-48	1	uncon	GC	vf/f	moist	qtz				
						48-60	1	semi-con	SC	vf/f	moist	phos nod				
1050		50-55	100	4.7	255.3	0-60	1.5	semi-con	SM	vf/f	moist	qtz	5Y	7/ 1	1	light grey ,campfire smell throughout, clayey/silty sand 0"-24" grading into clayey silty sand with gravel sized quartz, phosphatic, dolomitic sandstone and discontinuous broken lenses of greyish green clay
												lithics				
												phos nod				
1128		55-60	100	4.7	202.2	0-12	1.5	semi-con	SM	f/m	moist	qtz	5Y	6/ 2	1	light olive grey, low odor, clayey/silty sand, w/minor broken pieces of greyish green clay, some gravel sized phosphate as well, core grades into more silty/clayey sand towards end of core
										vf/f		lithics				
												phos nod				
						12-60	2	semi-con	SM	vf/f	moist	qtz				
							2.5		SC	f/m		lithics				
												phos nod				

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Soil Boring 2 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1155		60-65	100	0.1	761	0-32	2	con	SM	f/m/c	moist	qtz	2.5Y	6/ 2	1	light brownish grey to grayish brown, low odor, clayey/silty sand mainly fine/med sand sized grains w/minor coarse grading into clayey sands, grayish brown mottling last 36" of core
												lithics				
												phos nod				
						32-60	1.5	con	SC	vf/f	moist	qtz	2.5Y	5/ 2	1	
												lithics				
												phos nod				
1220		65-70	100	0	232	0-60	2	con	CL	vf/f	moist	qtz	5GY	5/ 2	1	greyish green, low odor, entire core sandy clay with some phosphatic grains in the first 12"
												phos nod				
TERMINATED BORING Top of UH/LH ~70 ftBGS																

SOIL BORING INFORMATION LOG

SB# 3 3A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
3	1230	5-10	80	433	125	0-32	0.13	uncon	SP	f/m	moist	qtz	10YR 5/ 3	4	brown, strong odor, visible pinetar first 12" of core, grading into loose sands, mainly fine/w minor silt then grading to semi consolidated silty sand grading into consolidated silty/clayey sand with no visible tar noted, will roll when wetted
						32-48	< 5	semi-con	SM	f	dry	qtz	10YR 4/ 3	1	
								con	SC		moist				
	1300	10-15	60	21.2	78.7	0-36	4.5	con	SC	f/m	moist	qtz	10YR 4/ 2	1	brown, strong odor, consolidated silty/clayey sand, no visible tar noted, blocky, will roll when wetted
												lithics			
	1425	15-20	53	3.8	445	0-16	0.03	semi-con	SM	f	wet	qtz	10YR 5/ 3	1	brown, campfire smell, semi consolidated silty sand grading into washed sands back into silty sand
						16-32	0	uncon	SP	vf/f	sat	qtz			
	1435	20-25	100	2.7	402	0-60	0.16	uncon	SM	vf/f	sat	qtz	10YR 5/ 3	1	brown, campfire smell, minor lithics, semi consolidated silty sand
												lithics			
	1453	25-29	100	4	272	0-24	0.22	semi-con	SM	vf/f	sat	qtz	10YR 4/ 3	1	brown to greyish green, campfire smell, minor lithics, semi consolidated silty sand grading to very sandy clay to clayey sand
												lithics			
						24-48	5	con	CL	vf/f	moist	qtz	5GY 4/ 2	1	
									SC						
TERMINATED BORING															

SOIL BORING INFORMATION LOG

SB# 3 3A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1036		29-35	100	4.2	1387	0-24	1	semi-con	GC	f/m/c	moist	qtz	5Y	6/ 2	1	light olive grey to olive grey, campfire smell throughout, semi consolidated 0-24 grading into unconsolidated, rounded pieces phosphate and quartz/phosphatic/dolomitic sandstone, silty/clayey gravelly sand throughout
						24-60	0.5	uncon		pebb	wet	phos nod	5Y	5/ 2		
												fossil				
												lithics				
1055		35-40	100	3.5	135	0-60	0.5	uncon	SC	f/m/c	wet	qtz	5Y	7/ 2	1	light grey to light olive grey, low odor throughout, unconsolidated 0-55 grading into semi consolidated, silty/clayey sand throughout more clayey last 6"
							1	semi-con		vf/f	moist	phos nod	5Y	6/ 2		
												lithics				
1115		40-45	100	9.7	2582	0-60	1	semi-con	SC	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey with olive mottling, low odor throughout, slight campfire smell last 20", first 30" heavy with phosphate pebble sized grains grading into more fine grained minor coarse last 30", silty/clayey sand
							0.5	uncon		f/m/c	wet	phos nod	5Y	5/ 3	1	
										pebb		lithics				
1145		45-50	100	10.9	1992	0-50	0.5	uncon	SM	vf/f	wet	qtz	5Y	6/ 2	1	light olive grey, campfire smell throughout, semi consolidated 0-50" with pieces of greyish green sandy clay first 12" of core grading into consolidated last 10" of core, clayey/silty sand grading into silty/clayey sand
							1			med		phos nod				
										coarse		lithics				
						50-60	2.5	con	SC	vf/f	dry	qtz	5Y	6/ 2	1	
										f/m		phos nod				
												lithics				

SOIL BORING INFORMATION LOG

SB# 3 3A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1300		50-55	100	15.3	899	0-60	0.5	uncon	SC	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey, campfire smell throughout, silty/clayey sand
							1	semi-con		f/m/c		phos nod				
												lithics				
1315		55-60	100	8	2049	0-60	1	semi-con	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey to light olive brown, campfire smell throughout, clayey/silty sand
										f/m/c		phos nod	2.5Y	5/ 3		
												lithics				
1335		60-65	100	12.6	2193	0-18	1	semi-con	SM	vf/f	moist	qtz	2.5Y	5/ 3	1	light olive brown to gray to olive yellow mixed with dark greyish green, campfire smell throughout clayey/silty sand grading into clayey sand and sandy clay
										med		phos nod				
												lithics				
						18-34	2	semi-con	SM	f/m	dry	qtz	2.5Y	5/ 1	1	
								con		coarse		phos nod				
										f		fossil				
						34-60	3	con	SC	vf/f	dry	qtz	5Y	6/ 6	1	
							3.5					phos nod	5GY	4/ 2		
BORING TERMINATED																

SOIL BORING INFORMATION LOG

SB#4 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
4	0930	5-10	100	227	186	0-24	0	uncon	SP	f/m	moist	qtz	7.5YR 2.5/ 1	4	reddish black to light brown to dark brown, strong odor, visible pine tar, residual on gloves and micro roots 0-24" then sands w/minor silt grading into clayey/silty sand
												lithics			
						24-32	0.06	uncon	SP	f/m	moist	qtz	7.5YR 6/ 3	2	
												lithics			
						32-60	3.5	semi-con	SM	f/m	dry	qtz	7.5YR 3/ 2	2	
BORING TERMINATED															

SOIL BORING INFORMATION LOG

SB#4A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
4A	1230	5-10	60	227	186	0-24		uncon	SP	f/m	moist	qtz	7.5YR 2.5/ 1	4	reddish black to light brown, strong odor, visible pine tar 0-24", residual on gloves, sand
						24-36		uncon	SP	f/m	moist	qtz	7.5YR 6/ 3	2	
4A	1415	10-15	80	215	455	0-29		uncon	SP	f/m	sat	qtz	10YR 5/ 3	4	brown, strong odor, visible tar starting at 27" and continued throughout rest of core, residual on gloves, sand to silty sand
						29-48		semi-con	SM	f/m	wet	qtz		4	
BORING TERMINATED															

SOIL BORING INFORMATION LOG

SB #5 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
5	940	5-10	60	0.9	9.5	0-24	0	uncon	SP	f/m	moist	qtz	5YR	3/ 2	1	dark reddish brown to dark brown, no odor, minor staining on sleeve at top and gloves very top, heavy organic material minor silt
						24-36	2	semi-con		f/m	moist	qtz	7.5YR	3/ 3	1	
1005	10-15	70	0.1	10	0-42	2	semi-con	SM		sat			7.5YR	5/ 2	1	brown to dark brown, no odor, mainly clayey/silty sand clay mix at top of core, minor clay at bottom
													7.5YR	3/ 3		
1040	15-20	53	0.2	90	0-32	0.13	uncon	SP	vf/f	wet	qtz		10YR	6/ 3	1	pale brown to brown, no odor, mainly wet sands very fine to fine, minor lithics
													10YR	4/ 3	1	
1130	20-25	90	5.6	25	0-42	1.5	semi-con	SM	vf/f	wet	qtz		10YR	4/ 3	1	brown to dark greyish green, no odor, mainly fine clayey/silty sand grading into silty/clayey sands, last 12" of core grading into sandy clay. NOTE: Surficial/UH interface ~ 24.5 -26 ftBGS
1200	25-30	100	5.3	950	0-15	3.5	con	SC	vf/f	moist	qtz	5GY	4/ 2	1	dark greyish green to brown, low odor, mainly fine clayey/silty sands grading into silty/clayey sand, minor lithics, top 12" of core sporadic, dark greyish green, sandy clay	
					15-60	1.5	semi-con	SM	vf/f	moist	lithics	10YR	4/ 3	1		
						3	con	SM	f/m	moist						
1220	30-35	100	58.6	241	0-24	2.5	con	SC	vf/f	moist	qtz		5Y	5/ 2	1	olive grey to dark greyish green grading into light gray to light brownish gray, campfire smell throughout, clayey/silty sands with sporadic sandy clay first 24" of core grading into clean sands 24"-36", then 36"-60" clayey/silty sand with minor lithics and pieces of same lithology but cemented (that will break apart easily)
					24-36	1.5		SP	vf/f	moist			10YR	7/ 1	1	
					36-60	0.5						10YR	6/ 2	1		

SOIL BORING INFORMATION LOG

SB #5 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1240		35-40	100	40.2	525	0-36	1	semi-con	SC	f/m	wet	qtz	5Y	5/ 2	1	olive grey to light greyish green, strong campfire smell throughout, silty/clayey sands throughout, heavy phosphate, last 24" contain many pebble sized fossils and oxidizing
						36-60				f		lithics	5GY	5/ 2	1	
										pebb		phos nod				
												fossil				
1415		40-45	100	81.6	1287	0-60	0.5	uncon	SM	vf/f	moist	qtz	5Y	5/ 6	1	pale olive to olive, strong campfire odor, clayey/silty sand NOTE: core oxidizing
										f/m		lithics	5Y	6/ 3		
												phos nod				
1435		45-50	100	45.6	761	0-60	0.5	semi-con	SM	vf/f	moist	qtz	5Y	6/ 3	1	light olive grey to pale olive, strong campfire smell throughout, mainly fine to very fine silty/clayey sand NOTE: core oxidizing
										med		lithics	5Y	6/ 2		
												phos nod				
1453		50-55	100	75.1	3615	0-60	1	semi-con	SC	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey to dark to light greyish green, strong campfire smell throughout, mainly fine to very fine/ silty/clayey sand w/ broken pieces of dark reyish green sandy clay NOTE: core oxidizing
							0.5			med		lithics	5GY	6/ 2		
												phos nod	5GY	4/ 2		
1510		55-60	100	66.3	2149	0-60	0.5	semi-con	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey to pale olive, strong campfire smell throughout, mainly fine to very fine silty/clayey sand NOTE: core oxidizing
							1			med		lithics	5Y	6/ 3		
												phos nod				

SOIL BORING INFORMATION LOG

SB #5 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1530		60-65	100	36	319	0-24	1	semi-con	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive gray to grayish olive to brownish yellow, strong campfire smell throughout, silty/clayey sand first 24" with sporadic pieces dark greyish green pieces of sandy clay, last 36" mixed sandy clays to clayey sands that are olive gray and brownish yellow NOTE: first 24" of core oxidizing
										f/m		lithics				
												phos nod				
						24-60	2	con	SC	vf/f	dry	qtz	10YR	6/ 6	1	
							2.5	con	SC	vf/f	moist	phos nod	10Y	5/ 2	1	
BORING TERMINATED																

SOIL BORING INFORMATION LOG

SB#6 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
955		5-10	90	562	1325	0-18	1	semi-con	SP	f/m	wet	qtz	10YR 2/ 1	4	black to pale brown to brown, strong pine odor, visible pine tar, wood and brick debris 0-18", then rest of core unconsolidated sands, staining along outside of core in sand interval minor staining on core sleeve NOTE: core oxidizing
						18-54	0	uncon	SP	f/m	moist	qtz	10YR 6/ 3	3	
													10YR 4/ 3		
1015		10-15	80	671	1212	0-24	3.5	con	SM	f/m	moist	qtz	10YR 5/ 3	3	brown to very pale brown, strong pine odor throughout, consolidated clayey/silty sands, staining in core throughout, staining on core sleeve and gloves NOTE: core oxidizing
						24-48							10YR 7/ 3	3	
1045		15-20	100	24	201	0-8	3.5	con	SM	f/m	moist	qtz	10YR 7/ 3	3	very pale brown, piney odor not as strong, sheen noted on water, minor staining inside core, consolidated first 8" of core then unconsolidated and saturated rest of core, clayey/silty sand to washed sands minor silt NOTE: core oxidizing first 8"
						8-60	0	uncon	SP	vf/f	sat	lithics	10YR 7/ 3	2	
1145		20-25	92	15.7	397	0-6	2	semi-con	SM	vf/f	moist	qtz	10YR 7/ 3	2	very pale brown to brown, piney odor present only in first 6" of core, then low campfire smell throughout, clayey/silty tight sand then unconsolidated saturated sand minor silt.
						6-55	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 3	1	
												lithics	10YR 5/ 3	1	
1230		25-30	100	224	237	0-16	0	uncon	SP	vf/f	wet	qtz	10YR 7/ 4	2	very pale brown to brown, slight piney odor and staining inside core first 10", low odor throughout rest of core, sand grading into silty sand w/minor clay
												lithics			
						16-60	1.5	semi-con	SM	vf/f	moist	qtz	10YR 5/ 3	1	
												lithics			

SOIL BORING INFORMATION LOG

SB#6 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1315		30-33	100	15.1	218	0-6	2.5	con	SM	vf/f	moist	qtz	10YR	7/ 2	1	light grey to grayish olive to brown, campfire smell throughout, clayey/silty sand mixed with sandy clay grading into sandy clay then back into clayey/silty sand mixed with sandy clay NOTE: Surficial/UH interface ~ 31-33 ftBGS, DUPLICATE COLLECTED
										med		lithics				
						6-24	3.5	con	SC	vf/f	moist	qtz	10Y	5/ 2	1	
						24-36	2.5	con	SM	vf/f	moist	qtz	10YR	5/ 3	1	
												lithics				
1430		33-39	100	32	997	0-12	0.25	semi-con	SM	vf/f	wet	qtz	2.5Y	6/ 2	1	light brownish grey to light olive gray, campfire smell throughout, clayey/silty sand grading into clayey/silty gravelly sand, some fossils noted, some indurated material with same mineralogy
												lithics				
						12-60		uncon	GC	vf/f	wet	qtz	5Y	6/ 2	1	
										f/m		lithics				
										pebb		phos nod				
1500		39-45	100	42.7	1209	0-60	0.5	uncon	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey, strong campfire smell throughout, clayey/silty sand some med to coarse up to pebble sized phosphatic grains and nodules. NOTE: core oxidizing
										f/m		lithics				
										pebb		phos nod				
1510		45-50	100	82	542	0-60	0.25	uncon	SM	vf/f	moist	qtz	5Y	6/ 2	1	light olive grey, strong campfire smell throughout, clayey/silty sand some med to coarse phosphatic grains and nodules NOTE: core oxidizing
										f/m		lithics				
												phos nod				

SOIL BORING INFORMATION LOG

SB#6 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1540		50-55	100	86.6	947	0-60	1	semi-con	SM	vf/f		qtz	5Y	6/ 2	1	light olive grey, strong campfire smell throughout, clayey/silty silty/clayey sand, mainly fine to very fine w/minor med sized phosphatic grains NOTE: core oxidizing
										med	moist	lithics				
												phos nod				
1600		55-60	100	104	839	0-60	1	semi-con	SM	vf/f	moist	qtz	5Y	6/ 3	1	pale olive, strong campfire smell throughout, clayey/silty sand heavy phosphate NOTE: core oxidizing
										med		lithics				
												phos nod				
1628		60-65		84.8	2112	0-24	2	con	SM	f/m		qtz	5Y	6/ 2	1	light olive grey with light greyish green and yellowish brown, campfire smell throughout, clayey/silty sand with light greyish green pieces of sandy clay, 24-48 clayey sand with yellowish brown pieces of sandy clay, 48-60 clayey sand mixed with greyish green sandy clay
									SC	vf/f		lithics	5GY	6/ 2	1	
												phos nod				
						24-48	2	con	SC	vf/f		qtz	5Y	6/ 2	1	
										med		lithics	10YR	5/ 8	1	
												phos nod	5GY	6/ 2	1	
						48-60	3.5	con	SC	vf/f		qtz	5Y	6/ 2	1	
										f/m		lithics	5GY	6/ 2	1	
												phos nod				
																BORING TERMINATED

SOIL BORING INFORMATION LOG

SB #7 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
7	0911	5-10	87	427	1414	0-18	1.5	semi-con	SP	f/m	moist	qtz	10YR	2/ 1	4	black to very dark grey to light brownish grey, strong pine odor throughout, visible tar blebs, staining, roots and wood debris 0-18 grading into minor tar and soil staining from 18-24, then visible staining of outside core 24-48, staining on gloves and core sleeve, sands with minor silt NOTE: core oxidizing
						18-24	2	semi-con		f/m		qtz	10YR	3/ 1	4	
										vf/f						
						24-48	0.25	uncon		vf/f		qtz	10YR	6/ 2	3	
	0942	10-15	100	694	1001	0-32	2	semi-con	SM	f/m	moist	qtz	10YR	6/ 3	3	pale brown to grayish brown, pine odor along with burnt wood smell, soil staining throughout, minor staining on gloves and sleeve, clayey/silty sand to silty sand NOTE: core oxidizing
							2.5	con		vf/f		lithics				
						32-60	1.5	semi-con		vf/f	wet	qtz	10YR	5/ 2	3	
							0.25	uncon		med						
	1020	15-20	88	60	597	0-53	0.13	uncon	SM	vf/f	sat	qtz	7.5YR	4/ 2	2	brown, slight pine odor top 6" of core grading into strong chemical odor (degraded fuel?) throughout, no visible staining noted, minor lithics, silty sand
										med		lithics				
	1100	20-25	100	91.6	1893	0-24	0.13	uncon	SM	vf/f	sat	qtz	7.5YR	4/ 2	1	brown, slight campfire smell top 24", low organic smell throughout rest of core, silty sand, mainly fine to very fine with minor lithics and med grains top 24", silty sand
										med		lithics				
						24-32	0.5	uncon		vf/f	wet	qtz	7.5YR	4/ 3	1	
						32-60	1	uncon		vf/f	wet	qtz				
								semi-con								

SOIL BORING INFORMATION LOG

SB #7 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1145		25-30	100	7	71	0-24	1	semi-con	SM	vf/f	moist	qtz	10YR	4/ 3	1	brown to greyish green to brown mixed with greyish green, low organic odor, silty sand grading into sandy clay with brown mottling in sandy pockets, grading into a mix of clayey sand and pieces of sandy clay NOTE: surficial/UH interface 27-29 ft BGS
						24-44	2.5	con	CL	vf/f	moist	qtz	5GY	5/ 2	1	
						44-60	3.5	con	SC	vf/f	moist	qtz	10YR	5/ 3	1	
													5GY	5/ 2	1	
1315		30-35	100	15.3	160	0-12	2	con	SC	vf/f	moist	qtz	10YR	6/ 2	1	greyish green mixed with light brownish grey grading to greyish brown to light olive brown, campfire smell, clayey sand mixed with sandy clay grading into gravelly silty/clayey sand with rounded gravel to pebble sized indurated phosphate/quartz/lithics grading into clayey/silty sand
								semi-con					5GY	5/ 2		
						12-36	1	semi-con	GC	pebb	wet	qtz	2.5Y	6/ 2		
										f/m/c		lithics				
												phos nod				
												fossil				
						36-60	0.5	uncon	SM	f/m/c	moist	qtz	2.5Y	5/ 3		
												lithics				
												phos nod				

SOIL BORING INFORMATION LOG

SB #7 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1320		35-40	100	39.2	240	0-60	1	semi-con	SM	f/m/c	moist	qtz	5Y	6/ 2	1	light olive grey throughout, campfire smell, silty clayey sand throughout, mainly vf/f/m grains, some coarse top 12 " where there is more clay NOTE: core oxidizing
							0.5	uncon		f/m	moist	phos nod				
												lithics				
1340		40-45	50	39.8	730	0-30	0.16	uncon	SM	vf/f	sat	qtz	5Y	6/ 2	1	light olive grey with some greyish green, campfire smell, silty/clayey sand grading to clayey/silty sand last 12" of core NOTE: core oxidizing
										f/m	wet	phos nod	5GY	5/ 2		
										coarse		lithics				
1420		45-50	100	44.1	351	0-60	0.5	uncon	SM	vf/f	moist	qtz	5Y	6/ 2	1	Light olive grey, campfire smell, silty/clayey sand mostly very fine to fine grain size with minor medium NOTE: core oxidizing
							1			f/m		phos nod				
												lithics				
1443		50-55	100	40.5	819	0-60	0.5	uncon	SM	f/m	moist	qtz	5Y	6/ 2	1	light olive grey, strong campfire smell, silty/clayey sand NOTE: core oxidizing
							1			f		phos nod				
												lithics				
1453		55-60	100	89.5	1699	0-60	0.5	uncon	SM	f/m	moist	qtz	5Y	6/ 2	1	light olive grey, strong campfire smell, clayey/silty sand NOTE: core oxidizing
							1			f		phos nod				
												lithics				

SOIL BORING INFORMATION LOG

SB #7 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1515		60-65	100	35	1068	0-12	1	semi-con	SM	f/m	moist	qtz	5Y	5/ 2	1	olive grey mixed with light yellowish brown then grading to dark greyish green, strong campfire smell, silty/clayey sand grading into clayey sand with yellowish brown sandy clay then last 4" of core sandy clay NOTE: top 12" of core oxidizing
						12-60	2	con	SC	vf/f	moist	phos nod	10YR	6/ 4		
												lithics	5GY	4/ 2		
BORING TERMINATED																

SOIL BORING INFORMATION LOG

Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
8	1418	5-10	60	0	0	0-22		uncon	SP	f/m	moist	qtz	5YR	6/ 3	1	light reddish brown to dark reddish brown to very dark brown, earthy odor, mainly med w/minor fines
												lithics				
				0	0	22-25	0.06	uncon	SP	f/m	moist	qtz	7.5YR	2.5/ 2		
												lithics				
				0	0	25-36	0.03	uncon	SP	f/m	moist	qtz	7.5YR	2.5/ 1		
8	1440	10-15	50	0	50	0-30	0.02	uncon	SP	f/m	wet	qtz	10YR	6/ 3	2	pale brown, no odor, light brown color on outside of core, mainly med w/minor fines
8	1511	15-20	80	0	0	0-48		uncon	SP	vf/f	wet	qtz	10YR	8/ 1	1	white, no odor, very loose mainly fine w/some very fine, washed sands
												lithics				
8	1524	20-25	80	3.8	2.5	0-48	0.03	uncon	SP	vf/f	wet	qtz	10YR	7/ 3	1	very pale brown, mainly fine/ minor lithics, very loose, minor silt, odor
												lithics				
8	1540	25-27	100	1.4	1.4	0-24	0.06	semi-con	SM	vf/f	sat	qtz	7.5YR	6/ 3	1	light brown to pinkish grey to light pinkish brown, strong odor, silty sands grading into sands grading into clayey sands/sandy clays, some mottling noted, 2% NAPL w/dye test, clayey layer oxydizing
8	1600	27-30	100	0.9	2	0-16	0.03	uncon	SP	vf/f	sat	qtz	7.5YR	7/ 2	2	
8	1600	27-30		3.9	173	16-36	2.5	con	SC	vf/f	moist	qtz	2.5Y	6/ 4		
BORING TERMINATED																

SOIL BORING INFORMATION LOG

Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
9	1100	5-10	80	425	79.1	0-48	0.13	uncon	SP	f/m	wet	qtz	7.5YR	3/ 3	3	dark brown, strong odor, very loose, wet mainly med sized grains, staining on sleeve and gloves, will form ball minor silt, sheen visible on water Note: burnt wood and pine smell ~2 -3 ft BGS, dye test confirms
	1240	10-15	100	129	414	0-16	3	semi-con	SM	f/m/c	wet	qtz	7.5YR	2.5/ 2	3	dark brown to brown to dark greyish brown, strong odor throughout, semi consolidated grading into consolidated silty to clayey/silty sands, minor clay will roll somewhat but not string towards botttom of core when wetted, visible pine tar on gloves and core sleeve, sheen on water, minor strings and speckling of pine tar visible as core dry in exposed air
						16-24	4.5	con	SM	f/m	moist	qtz	7.5YR	4/ 2		
						24-60	5	con	SM	f/m	moist	qtz	10YR	4/ 2		
BORING TERMINATED																

SOIL BORING INFORMATION LOG

SB#9A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
9A	1650	5-10		433	234	0-60	0.09	uncon	SP	f/m/c	wet	qtz	7.5YR	4/ 3	3	brown, very loose, strong pine odor, somewhat forms, minor lithics, minor coarse grains mainly med/fine, visible tar as speckling well mixed throughout but no defined layering, evident on core sleeves and gloves
	1750	10-15		354	376	0-24	3.5	semi-con	SM	vf/f	wet	qtz	10YR	4/ 3	4	brown to dark yellowish brown, semi-consolidated grading into consolidated at ~24" to more consolidated 36-60, will roll when wetted from 24" to 60", visible tar at top 3", staining on top 24" sleeve and on gloves, piney smell at top of core changing to a campfire smell at bottom
						24-36	4.5	con	SC	vf/f	moist	qtz	10YR	4/ 4	3	
						36-60	5	con	SC	f/m	moist	qtz	10YR	4/ 4	2	
	1830	15-20		270	769	0-24	4.5	con	SC	f/m	moist	qtz	7.5YR	4/ 2	3	brown, strong odor, consolidated grading into unconsolidated, staining on sleeve and gloves, sheen and visible tar floating on water
						24-60	0.03	uncon	SM	f/m	sat	qtz	7.5YR	4/ 3	3	
BORING TERMINATED																

SOIL BORING INFORMATION LOG

SB#10 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
1000		5-10	100	535	5870	0-16	0.25	uncon	SP	f/m	moist	qtz	7.5YR 2.5/ 1	4	black to brown, strong burnt wood piney odor throughout, first 16" of core black organics , tar, and quartz grading into silty sands, staining on gloves, core sleeve and core, NOTE: consolidated clayey sand in shoe of barrel R value above 5
										vf					
						16-60	0.25	uncon	SM	f/m	dry	qtz	10YR 4/ 3	4	
										vf					
1115		10-15	90	497	602	0-20	3	con	SM	f/m	wet	qtz	10YR 4/ 4	3	dark yellowish brown, strong odor throughout, alternating between silty/clayey sand consolidated and less consolidated clayey/silty sand back to more consolidated silty/clayey sand layer, heavy staining on soils throughout, sheening observed NOTE: core oxydizing
						20-28	2	con	SM	f/m	wet	qtz	10YR 4/ 4	3	
										vf					
						28-54	3	con	SM	f/m	wet	qtz	10YR 4/ 4	3	
										vf					
1140		15-20	60	719	1182	0-16	0	uncon	SM	f/m	sat	qtz	10YR 4/ 3	3	brown, strong odor throughout (fuel smell?) clayey/silty sand throughout with ~ 2" layer of consolidated silty/clayey layer 16-18" from top of core, sheening on water entire core stained, staining on gloves and sleeve
										vf					
						16-18	4	con	SC	f/m	sat	qtz	10YR 4/ 3	3	
										vf/f					
						18-36	0	uncon	SM	f/m	sat	qtz	10YR 4/ 3	3	
										vf/f					

SOIL BORING INFORMATION LOG

SB#10 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
															BORING TERMINATED

SOIL BORING INFORMATION LOG

SB#10A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1415		5-10	70	574	944	0-27	0	uncon	SM	f/m	moist	qtz	10YR	2/ 2	3	very dark brown to brown to brown, strong piney odor and other fuel smell?, staining on gloves and core sleeve, blebs of dark stains thruout top 27" of core, clayey/silty sands throughout grading into consolidated silty/clayey sand last ~ 6 " of core NOTE: strong piney odor while postholing
										vf						
						27-38	0.5	uncon	SM	f/m	moist	qtz	7.5YR	5/ 2	3	
										vf						
						38-42	3	con	SM	f/m	moist	qtz	10YR	4/ 2	3	
1510		10-15	100	197	161	0-60	5	con	SM	f/m/c	moist	qtz	10YR	4/ 3	2	brown, piney odor and bio odor mixed throughout, staining intermitent layered throughout, silty/clayey sand
										vf/f	dry					
1535		15-20	80	370	216	0-12	3.5	con	SM	f/m/c	moist	qtz	10YR	6/ 2	2	light brownish grey to grayish brown to pale brown, piney odor throughout, staining throughout (minor blebs and lenses), silty/clayey sand grading into clayey/silty sand grading into minor silty sands
										vf/f						
						12-24	2.5	semi-con	SM	f/m	moist	qtz	10YR	5/ 2	2	
								uncon								
						24-48	0	uncon	SP	f/m	wet	qtz	10YR	6/ 3	2	

SOIL BORING INFORMATION LOG

SB#10A Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
1615		20-25	90	446	795	0-18	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 3	1	very pale brown grading into very dark greyish brown, piney odor throughout (strong 18-54), heavy staining 18-54 w/ tar almost continuous, washed sands grading into silty/sands
										med					
						18-24	0.5	uncon	SM	vf/f	wet	qtz		4	
						24-54	1	semi-con	SM	vf/f	wet	qtz	10YR 3/ 2	4	
1630		25-30	100	628	1367	0-33	1.5	semi-con	SM	vf/f	moist	qtz	7.5YR 3/ 3	4	dark brown to light brownish grey, piney odor throughout (strong 0-33), heavy staining 0-33 w/tar almost continuous, silty sand grading into silty/clayey sands
										med					
						33-60	2.5	con	SM	vf/f	moist	qtz	2.5Y 6/ 2	3	
BORING TERMINATED															

SOIL BORING INFORMATION LOG

SB11 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments			
				PID	FID														
11	1720	5-10	100	400	5443	0-60	1	uncon	SP	f/m	moist	qtz	7.5YR	5/ 2	4	brown, strong pine odor, sand grading into minor silty sand towards bottom of core, visible pine tar throughout core, staining on gloves and core sleeve			
									SM	f/m	moist	qtz			4				
1740	10-15	100	329	2030	0-16	2	uncon	SP	f/m	wet	qtz	10YR	4/ 6	4	dark yellowish brown, strong pine odor, sand grading into clayey/silty sand then to silty/sand w/minor clay, staining on core sleeve and gloves, visible tar at top of inside core then visible on outside of core throughout				
									f/m	moist	qtz								
								SC	f/m	moist	qtz								
1810	15-20	70	198	424	0-32	0	uncon	SP	vf/f	sat	qtz	7.5YR	4/ 4	2	brown, pine odor grading into campfire smell towards bottom of core, oil sheen on water 0-20", minor staining on glove and core sleeve,				
					32-48	0	uncon	SP	med	sat	qtz	7.5YR	4/ 4	1					
									vf/f										
1850	20-25	70	32.9	15	0-6	3	semi-con	SM	f/m	sat	qtz	10YR	5/ 4	1	yellowish brown, campfire smell, clayey/silty sand layer 0-6" top of core then very loose saturated sands rest of core, minor pieces of burnt material noted ~6 36" in core				
												6-42	0	uncon		SP	f/m/c	sat	qtz
											lithics								
											lithics								

SOIL BORING INFORMATION LOG

SB11 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
1000		25-30	80	3.6	86.3	0-12	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 3	1	very pale brown to brown, low piney smell in saturated 0-12, campfire smell rest of core, loose sand grading into minor silty sand
												lithics			
						12-48	0.5	uncon	SM	vf/f	wet	qtz	7.5YR 5/ 3	1	
												lithics			
1040		30-33	100	1.9	55.7	0-12	3.5	con	SC	vf/f	moist	qtz	10YR 7/ 3	1	very pale brown to greyish green to pale brown, campfire smell throughout, clayey sand grading into sandy clay (surficial/UH boundary ~31-32 ftBGS) then grading into clayey sand
						12-24	3	con	CL	vf/f	moist	qtz	5GY 5/ 2	1	
						24-36	1.5	con	SC	vf/f	moist	qtz	10YR 6/ 3	1	
1115		33-35	100	1.9	296	0-24	0.19	uncon	SC	vf/f	sat	qtz	10YR 5/ 2	1	grayish brown, campfire smell throughout, silty/clayey sand with minor pebble sized quartz, phosphatic, dolomitic sandstone
										med		lithics			
												phos nod			
1200		35-40	100	4.3	111	0-12	0.03	uncon	SC		wet	qtz	10YR 5/ 2	1	grayish brown to brown to light olive gray, campfire smell throughout, silty/clayey sand , very plastic, with sporadic phosphatic nodules coarse sand sized up to pebble sized NOTE: core oxydizing after exposure to ambient air
						12-36	0.06					lithics	10YR 5/ 3		
						36-60	0.13					phos nod	5Y 6/ 2		

SOIL BORING INFORMATION LOG

SB11 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1315		40-45	80	6.6	871	0-18	0.09	uncon	SC				10YR	5/ 2		grayish brown to olive gray, campfire smell throughout, silty/clayey sand with pebble sized quartz, phosphatic, dolomitic sandstone which broken pieces that are rounded, core oxidizing after exposure to ambient air
						18-48							5Y	5/ 2		
1410		45-50	100	23.3	147		0.19	uncon	SM	f/m/c	wet	qtz	5Y	6/ 1		gray to light grey, campfire smell throughout, clayey silty sand grading into a semiconsolidated silty/clayey sand, core oxidizing after exposure to ambient air
												lithics				
												phos nod				
							0.5	semi-con		f/m	moist	qtz	5Y	7/ 1	1	
										vf/f		lithics				
												phos nod				
1415		50-55	100	37.1	2994		1	uncon	SM	f/m	moist	qtz	5Y	6/ 1	1	grey, campfire smell throughout, clayey/silty sand, at ~ 52-60" brownish streaking on outside of core and staining on core sleeve, odor from this area campfire w/ slightly sweet
										vf/f		lithics				
												phos nod				
1500		55-60	100	74.1	3359		1	uncon	SM	f/m	moist	qtz	5Y	6/ 2	1	light olive gray, campfire smell throughout, silty sands with little clay, minor brown stain noted towards bottom of core no significant change in odor
												lithics				
												phos nod				

SOIL BORING INFORMATION LOG

SB11 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
1530		60-65	100	16.5	2219		1	semi-con	SM	f/m	moist	qtz	5Y	5/ 2	1	olive gray, campfire smell throughout, clayey/silty sand, w/yellowish brown clayey sand mottling and lenses
										vf/f	moist	lithics	10YR	5/ 4	1	
												phos nod				
1630		65-68	100	6.5	497		0.5	con	SC	vf/f	moist	qtz	10YR	5/ 4	1	same olive gray clayey/silty sand, but brown clayey sand more pervasive throughout core
										f/m		phos nod	5Y	5/ 2	1	
												lithics				
BORING TERMINATED																

SOIL BORING INFORMATION LOG

SB#12 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
12	0925	5-10	80	949	883	0-48	0.5	uncon	SM	f/m/c	moist	qtz	7.5YR	3/ 2	3	dark brown, strong fuel smell throughout, no tar present but sheening on water when sprayed, mainly med to fine w/minor coarse sand sized quartz, silty sands
							1									
	0940	10-15	80	923	640	0-48	0	uncon	SP	f/m	sat	qtz	7.5YR	4/ 3	3	brown, strong fuel smell throughout, no tar present but sheening on water when sprayed, med to fine sand sized quartz minor lithics, silty sands to sands
							0.25		SM			lithics				
	1015	15-20	80	371	329	0-20	0	uncon	SP	f/m/c	sat	qtz	10YR	8/ 2	1	very pale brown to pale brown to dark brown, fuel smell first 20 " grading into bio smell last 10" of core, mainly med/fine quartz w/minor coarse, and minor lithics, washed sands to silty sands
												lithics				
						20-38	0	uncon	SM	f/m	wet	qtz	10YR	6/ 3	1	
						38-48	0.5	uncon	SM	f/m/c	moist	qtz	7.5YR	3/ 2	1	
												lithics				
	1049	20-25	90	11.1	369	0-12	0	uncon	SP	f/m/c	moist	qtz	10YR	7/ 3	1	very pale brown to brown to pale brown, slight unidentifiable odor 0-12 then bio smell rest of core, washed sands grading into vf to fine silty sands
												lithics				
						12-21	0	uncon	SM	f/m	moist	qtz	10YR	5/ 3	1	
							0.5									
						21-54	0	uncon	SM	vf/f	moist	qtz	10YR	6/ 3	1	
							0.5									

SOIL BORING INFORMATION LOG

SB#12 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments	
				PID	FID												
1120	25-30	100	10.2	266	0-22	0.5	semi-con	SM	vf/f	moist	qtz	10YR	8/ 2	1	very pale brown to brown with greyish green, bio smell throughout, silty sands grading into silty clayey sands with discontinuous pieces of sandy clay NOTE: surficial/UH interface discontinuous from ~ 28 to 30 ftBGS		
						1											
					22-32	2.5	semi-con	SC	f/m/c	moist	qtz	10YR	4/ 3	1			
						1.5	con										
					32-60	2.5	con	CL	f/m	moist	qtz	10YR	5/ 4	1			
					2		SC	f									
1200	30-35	60	3.7	36.5	0-36	1	con	SC	vf/f	moist	qtz	2.5Y	6/ 3	1	light yellowish brown, , bio smell throughout, silty clayey sand to clayey sands		
						2.5											
1215	35-40	100	5.6	471	0-60	0	uncon	SC	f/m/c	moist	qtz	2.5YR	5/ 2	1	olive gray, bio smell throughout, silty/clayey sands, pebble sized quartz/phosphatic indurated pieces top part of core, heavy phosphate towards bottom of core		
						0.5	uncon		f	wet	phos nod						
									pebb								
1315	40-45	100	6.3	339	0-60	0.5	uncon	SC	f/m/c	wet	qtz	5Y	6/ 2	1	light olive grey, light fuel smell? with slight bio smell, silty/clayey sands throughout, large pebble sized fossils noted 0-16"		
									pebb		phos nod						

SOIL BORING INFORMATION LOG

SB#12 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments	
				PID	FID												
1400		45-50	100	6.5	405	0-32	0.5	uncon	SC	f/m	moist	qtz	5Y	6/ 2	1	light olive grey, very faint fuel smell? silty clayey sands grading into clayey sands last 24" of core NOTE: brown staining with outside of core but not inside	
						32-60	1	uncon		f		phos nod					
1500		50-55	100	14.7	949	0-32	0.5	uncon	SC	f/m	moist	qtz	5Y	5/ 2	1	olive grey to greyish olive, very faint fuel smell? Silty/clayey sands	
						32-60	1	uncon	SC	vf		phos nod	10Y	5/ 2			
1520		55-60	100	5.3	786	0-60	1	semi-con	SC	f/m	moist	qtz	5Y	6/ 2	1	light olive grey, faint fuel smell grading into campfire smell last 12" of core, silty/clayey sands	
								uncon			dry	phos nod					
												lithics					
1550		60-65	100	36	148	0-24	1.5	semi-con	SC	f/m	moist	qtz	5Y	6/ 2	1	light olive grey with pieces of greyish green, campfire smell throughout, silty/clayey to clayey sand w/pieces of clay last 36" of core	
												phos nod					
												lithics					
						24-60	3	con	CL	f/m	dry		5GY	5/ 2	1		
									SC	vf							
BORING TERMINATED NOTE: sleeved sample collected 65-70 @ 1714																	

SOIL BORING INFORMATION LOG

SB#14 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
0930		5-10	80	108	341	0-12	0.25	uncon	SM	vf/f	moist	qtz	10YR 2/ 1	2	black to brown, petroleum odor (different from source area), silty sands throughout, staining in soils 0-12" (slight sheen) and last 6" of core NOTE: slight pine odor detected while postholing
										med					
						12-48	0	uncon	SM	vf/f	moist	qtz	10YR 4/ 3	2	
							0.5			med					
1100		10-15	65	51.1	838	0-12	0	uncon	SM	vf/f	sat	qtz	10YR 4/ 3	1	brown, petroleum odor, silty sands throughout somewhat clayey towards bottom of core, first 12" of core washed silty sand, then heavy staining and product in soils
										med					
							1	semi-con	SM	f/m	wet	qtz	10YR 4/ 3	4	
							0.5	uncon		vf					
1220		15-20	90	23.8	150	0-30	5	con	SM	f/m	moist	qtz	10YR 7/ 2	3	light grey to light brownish grey, petroleum/bio odor, silty/clayey sands heavily stained and concentrated product 22-26", grading into unconsolidated washed minor silt layer then semi consolidated last 6" of core
							3			vf				4	
						30-54	0	uncon	SM	f/m	wet	qtz	10YR 6/ 2	2	
							2.5	semi-con		vf		lithics			

SOIL BORING INFORMATION LOG

SB#14 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
1245		20-25	80	24.1	NA	0-14	0.25	uncon	SP	f/m	wet	qtz	10YR 7/ 2	2	light grey, low odor, minor staining on soils 0-14, minor silty sands grading into washed sands
										vf		lithics			
							0	uncon	SP	vf/f	wet	qtz	10YR 7/ 2	1	
										med		lithics			
1540		25-30	100	120	68.6	0-19	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 3	1	alternating between very pale brown washed sand to light brownish grey silty sands, minor odor (lift station/bio smell)
						19-34	1.5	uncon	SM	vf/f	wet	qtz	10YR 6/ 2	1	
								semi-con		med		lithics			
						34-48	0	uncon	SM	vf/f	wet	qtz	10YR 7/ 3	1	
												lithics			
						48-60	2	semi-con	SM	vf/f	wet	qtz	10YR 6/ 2	1	
										med		lithics			
1630		30-33	100	4.1	669	0-12	2	con	CH	vf/f	wet	qtz	5GY 5/ 2	1	greyish green to light olive grey, mix of bio/lift station and low odor (unidentifiable), sandy clay very plastic grading into clayey sand NOTE: surficial/UH interface ~ 30-31.5 ftBGS purple/black staining noted in sandy parts of greyish green clay
						12-36	0.5	semi-con	SC	vf/f	wet	qtz	2.5YR 6/ 2	1	
BORING TERMINATED															

SOIL BORING INFORMATION LOG

SB# 17 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
17	0815	5-10	90	0.2	7	0-7	0	uncon	SP	f/m	dry	qtz	5YR	2.5/ 1	2	black to gray to very dark grey to reddish brown to dark reddish brown, burnt wood to earthy smell, minor staining on gloves, unconsolidated and micro roots throughout, top 7" of core burnt wood/charcoal grading into quartz/charcoal mix, then more silty sand last 26" of core
												lithics				
						7-22	0	uncon	SP	f/m	dry	qtz	7.5YR	5/ 1	1	
												lithics				
						22-28	0	uncon	SP	f/m	dry	qtz	7.5YR	3/ 1	1	
												lithics				
						28-36	0	uncon	SM		moist	qtz	5YR	4/ 3	2	
												lithics				
						36-54	0	uncon	SM		moist	qtz	5YR	3/ 2	2	
												lithics				

SOIL BORING INFORMATION LOG

SB# 17 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color	NAPL Extent	comments
				PID	FID										
0854		10-15	80	4	224	0-24	0	uncon	SP	f/m	sat	qtz	7.5YR 2.5/ 1	2	black to very pale brown, low earthy odor, minor staining on gloves, unconsolidated black silty sand grading into washed sands/minor lithics
										f		lithics			
						24-48	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 3	1	
										med					
0900		15-20	70	11.2	290	0-24	0	uncon	SP	vf/f	sat	qtz	10YR 7/ 2	1	light grey to brown, low odor 24-32, unconsolidated washed sands with minor lithics interrupted by ~8" layer of silty sand that's smells, back into unconsolidated sands last part of core
										med		lithics			
						24-32	0.25	uncon	SM	vf/f	wet	qtz	10YR 5/ 3	1	
										med		lithics			
						32-42	0	uncon	SP	vf/f	wet	qtz	10YR 5/ 3	1	
										med		lithics			
0915		20-25	37	4.2	63.1	0-12	0	uncon	SP	vf/f	wet	qtz	10YR 7/ 2	1	light grey to brown, low odor 12-22, unconsolidated silty sands with minor lithics grading into layer of clayey/silty sand that's smells, back into unconsolidated sands last part of core
										med		lithics			
						12-22	0.5	uncon	SM	vf/f	wet	qtz	10YR 5/ 3	1	
										med		lithics			

SOIL BORING INFORMATION LOG

SB# 17 Lithologic Description

Hole #	Time	Interval (ft BGS)	Recovery %	Volatile Organic Vapors (ppm)		inches from top of core	R value	consolidation	USCS	grain size	moisture	minerals	color		NAPL Extent	comments
				PID	FID											
0930		25-30	80	14.2	159	0-9	0	uncon	SP	vf/f	wet	qtz	10YR	7/ 2	1	light grey to brown, campfire smell 9-48" washed sand/minor lithics first 9", rest of core silty sands with semi consolidated silty/clayey layers, bubbles with iridescence seen with hand lense, minor staining on gloves
						9-48	0.5	uncon	SM	vf/f			10YR	5/ 3	2	
							1			med						
										med						
0945		30-35	100	45.1	60.3	0-36	1	semi-con		f/m	moist	qtz	10YR	4/ 2	1	dark greyish brown to greyish green, strong campfire smell throughout, silty/clayey sands grading into very sandy clay NOTE: surficial/UH interface ~ 33.5 to 35 ftBGS
							1.5	con		vf						
						36-60	2	con		vf/f	moist	qtz	5GY	5/ 2	1	
							2.5									BORING TERMINATED