

WELL BORING LOG

Boring/Well Number: HES-29		Permit Number:									
Big Cypress Preserve											
Project Name: C-139 Regional Study		Borehole Start Date:	10/21/09	Borehole Start Time:	8:15 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm						
		End Date:	10/21/09	End Time:	6:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> m						
Environmental Contractor: URS Corp.		Geologist's Name: David Schulte		Environmental Technician's Name: NA							
Drilling Company: Drill Pro		Pavement Thickness (inches): None	Borehole Diameter (inches): 6	Borehole Depth (feet): 100							
Drilling Method(s): Sonic Drill	Apparent Borehole DTW (in feet from soil moisture content): 2		Measured Well DTW (in feet after water recharges in well): 2	OVA (list model and check type): NA FID PID							
Disposition of Drill Cuttings [check method(s)]: (describe if other or multiple items are checked):											
		Drum	Spread	Backfill	Stockpile Other						
Samples taken off site for examination											
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)											
Shallow well pumped dry and Deep well pumped at 1.5 gpm with 3/8 inch dia tubing - Above Ground Protective Casings											
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Notes:
PH	0-1	12	NA	NA	NA	NA	0-1	Unconsolidated-black fine to medium grained quartz sand with trace of organic material		M	Depth to Water HES-29S = 3.13' w/ TOC at 1.39' ags
SC	1-5	48	NA	NA	NA	NA	1-5	Soft-weathered light tan limestone with some fine to medium grained quartz sand and traces of very small shell fragments		S	Depth to Water HES-29D = 3.17' w/ TOC at 1.2' ags
SC	5-10	60	NA	NA	NA	NA	5-10	Soft-light tan very fine to medium grained quartz sand with some silt and traces of very small shell fragments		S	2 feet of 0.02 slot well screen set from 7 to 9 feet
SC	10-15	60	NA	NA	NA	NA	10-15	Soft-light tan silty very fine to fine grained quartz sand with some medium grained quartz sand and traces of small shell fragments and small cemented sand nodules		S	
SC	15-20	60	NA	NA	NA	NA	15-20	Soft-light tan marly/silty very fine to fine grained quartz sand with some medium grained quartz sand and traces of small shell fragments and small cemented sand nodules		S	
SC	20-22	24	NA	NA	NA	NA	20-22	Soft-light gray sandy (very fine to fine grained quartz sand) marl with traces of very small shell fragments		W	
SC	22-25	36	NA	NA	NA	NA	22-25	Soft-light tan marl with traces of very fine to fine grained quartz sand and very small shell fragments		W	
SC	25-30	60	NA	NA	NA	NA	25-30	Soft-light gray with gray mottling marl with traces of very fine to fine grained quartz sand and very small shell fragments		W	
SC	30-35	60	NA	NA	NA	NA	30-35	Soft-light tan silty marl with traces of very fine grained quartz sand and very small shell fragments		W	
SC	35-40	60	NA	NA	NA	NA	35-40	Firm-light gray with gray mottling marl with traces of very fine grained quartz sand and silt and lenses of small to medium shell fragments		M	
SC	40-45	60	NA	NA	NA	NA	40-45	Firm-light olive gray marl with traces of very fine grained quartz sand and silt and lenses of small to large shell fragments		M	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
 Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

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Drilling Company: Drill Pro		Pavement Thickness (inches): None	Borehole Diameter (inches): 6		Borehole Depth (feet): 100						
Drilling Method(s): Sonic Drill	Apparent Borehole DTW (in feet from soil moisture content): 2		Measured Well DTW (in feet after water recharges in well): 2	OVA (list model and check type): NA FID PID							
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other											
(describe if other or multiple items are checked): Samples taken off site for examination											
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)											
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Notes:
SC	45-50	60	NA	NA	NA	NA	45-50	Firm-light gray with gray mottling marl with traces of very fine to fine grained quartz sand, silt and clay, and lenses of small to large shell fragments		D	
SC	50-55	60	NA	NA	NA	NA	50-55	Soft-tannish gray marl interbedded with fine to medium grained quartz sand, shell fragments and small cemented sand nodules with traces of coarse grained quartz sand		W	
SC	55-58	36	NA	NA	NA	NA	55-58	Same as above		W	
SC	58-60	24	NA	NA	NA	NA	58-60	Soft-tan marl with traces of very fine to medium grained quartz sand and very small shell fragments		W	
SC	60-65	60	NA	NA	NA	NA	60-65	Firm-gray marl with some gray cemented sand nodules and lenses of light gray fine to medium grained quartz sand and small shell fragments		D	
SC	65-70	60	NA	NA	NA	NA	65-70	Soft-light gray to gray marly fine to medium grained quartz sand and very small to large shell fragments with traces of coarse grained quartz sand		W	
SC	70-75	60	NA	NA	NA	NA	70-75	Unconsolidated-tannish gray medium to fine grained quartz sand with some small shell fragments, coarse grained quartz sand, small cemented sand nodules, and dark gray medium to fine phosphatic sand with traces of silt		S	
SC	75-80	60	NA	NA	NA	NA	75-80	Same as above		S	
SC	80-85	60	NA	NA	NA	NA	80-85	Unconsolidated-light gray fine to coarse grained quartz sand with some small shell fragments and very small cemented sand nodules with traces of very fine grained quartz sand, silt and dark gray fine phosphatic sand		S	
SC	85-100	60	NA	NA	NA	NA	85-100	Hard gray fossiliferous limestone with some fine to medium grained quartz sand		S	2 feet of 0.02 slot well screen set from 98 to 100 feet
											Boring terminated at 100 feet

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