

# ERM Environmental Resources Management

Boring/Well No.: SE-SB23

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454054.52, 3340259.02

Surface Elev.: NM Boring T.D.: 30' Boring Dia.: 3.25"

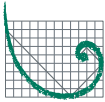
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 0.89		0-5': CLAY: dark, no odor
		5.0/5.0	M: 1.24	0-5	
			B: 1.52		
5			T: 1.69		5-8.25': CLAY: gray, no odor
		5.0/5.0	M: 1.98	5-10	
			B: 1.17		8.25-10': SILTY CLAY: brown, with minor sand
10			T: 1.17		10-10.5': SAND: fine grained, brown, stiff, moist, no odor
		5.0/5.0	M: 2.02	10-15	
			B: 2.30		10.5-15': CLAY: grayish brown, medium soft to soft, moist, no odor, wet at 10.7-11.0'
15			T: 1.94		15-16.8': CLAY: grayish brown, soft, moist, no odor, some silt
	5.0/5.0	M: 2.26	15-20		
		B: 3.16		16.8-20': CLAY: reddish brown, very stiff, moist, no odor	
20		T: 3.36		20-22.5': CLAY: reddish brown with gray streaks, very hard, moist, no odor	
	5.0/2.5	M: 3.51	20-22.5		
		B: 3.54			
	4.3/2.5	T: 3.82	22.5-25		
		M: 1.44		22.5-23.6': CLAY: brown and gray, very hard, moist, no odor	
		B: 1.99		23.6-23.9': CLAYEY SILT: medium soft, moist, no odor	
25		T: 1.98	25-27.5		
	4.0/2.5	M: 2.05		23.9-25': CLAY: reddish gray, very hard, moist, no odor, little sand	
		B: 1.81		25-27.5': CLAY: gray with reddish streaks, very hard, moist, no odor, some sand	
	4.2/2.5	T: 1.86	27.5-30		
		M: 1.73		27.5-30': CLAY: reddish gray, very hard, moist, no odor, some sand	
		B: 2.12			
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB24

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454081, 3340236.43

Surface Elev.: NM Boring T.D.: 30' Boring Dia.: 3.25"

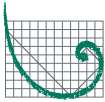
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 0.68		0-1': CLAY: dark gray, medium soft, not stiff, moist, no odor
		2.4/5.0	M: 0.83	0-5	1-2.4': CLAY: dark with red color, hard, moist, no odor
			B: 1.46		2.4-5': NO RECOVERY
5			T: 1.55		5-7.2': CLAY: gray, medium hard, moist, no odor, some sand
		4.1/5.0	M: 1.20	5-10	7.2-9.1': SANDY CLAY: reddish gray, hard, moist, no odor
			B: 0.40		9.1-10': NO RECOVERY
10			T: 1.61		10-15': CLAY: reddish, medium soft with some stiff windows throughout, moist, no odor
		5.0/5.0	M: 1.46	10-15	
			B: 1.62		
15			T: 2.65		15-20': CLAY: reddish brown, very hard, moist, no odor
		5.0/5.0	M: 3.20	15-20	
			B: 3.09		
20			T: 3.60		20-24': CLAY: red, very hard, moist, no odor
		5.0/4.0	M: 3.65	20-24	
			B: 3.77		
25		3.2/1.0	T: 2.36 M: 2.40 B: 2.11	24-25	24-24.1': CLAY: dark gray, very hard, moist, no odor 24.1-24.2': CLAY: gray, soft, moist, no odor, little sand 24.2-25': CLAY: gray, hard, moist, no odor, some sand
		4.7/3.0	T: 2.02	25-28	25-28': CLAY: gray with red specks, very hard, moist, no odor, some sand
			M: 2.23		
			B: 1.98		
		3.5/2.0	T: 1.90	28-30	28-30': CLAY: mottled gray and red, very hard, moist, no odor, little sand
			M: 2.26		
			B: 2.76		
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB25

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454065.99, 3340285.19

Surface Elev.: NM Boring T.D.: 10' Boring Dia.: 3.25"

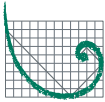
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0		4.2/5.0	T: 2.96	0-5	0-4.2': CLAY: black, gray, and red, hard, moist, no odor, some sand
			M: 1.86		4.2-5': NO RECOVERY
			B: 1.79		
5		3.9/5.0	T: 1.08	5-10	5-6.7': CLAY: dark, medium soft, moist, no odor, some sand
			M: 0.87		6.7-8.9': SANDY CLAY: dark, medium soft, moist, no odor
			B: 1.14		8.9-10': NO RECOVERY
10					
15					
20					
25					
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB26

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454044.56, 3340285.79

Surface Elev.: NM Boring T.D.: 10' Boring Dia.: 3.25"

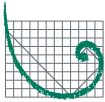
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0		3.5/5.0	T: 3.15 M: 1.16 B: 1.51	0-5	0-0.9': CLAY: gray, hard, moist, no odor 0.9-2.6': CLAY: dark gray, medium soft, moist, no odor 2.6-3.5': CLAY: dark gray with red streaks, hard, moist, no odor 3.5-5': NO RECOVERY
5		4.1/5.0	T: 1.27 M: 1.42 B: 0.63	5-10	5-6': CLAY: reddish gray, hard, moist, no odor 6-7.7': CLAY: dark gray, soft, moist, no odor, some sand 7.7-9.1': SANDY CLAY: gray, hard, moist, no odor 9.1-10': NO RECOVERY
10					
15					
20					
25					
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB27

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454027.38, 3340273.45

Surface Elev.: NM Boring T.D.: 35' Boring Dia.: 3.25"

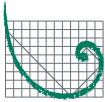
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

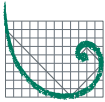
Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 2.59		0-0.8': GRAVEL:
		4.4/5.0	M: 3.86	0-5	0.8-4.4': CLAY: dark gray with red streaks, medium soft, moist, odor
			B: >4		4.4-5': NO RECOVERY
5			T: >4		5-6.9': CLAY: dark gray with red streaks, hard, moist, faint odor
		5.0/5.0	M: >4	5-10	6.9-7.1': CLAY: dark gray, medium soft, moist, faint odor
			B: >4		7.1-8.4': CLAY: dark gray, hard, moist, some sand, faint odor
					8.4-10': SANDY CLAY: dark gray, hard moist, odor
10			T: >4		10-11.1': SAND: soft, wet, odor
		5.0/5.0	M: >4	10-15	11.1-15': SANDY CLAY: reddish brown, soft, moist, no odor
			B: >4		
15			T: >4		15-16.9': CLAY: reddish brown, medium soft, moist, no odor
		4.4/5.0	M: 3.99	15-20	16.9-19.4': CLAY: reddish brown, very hard, moist, no odor
			B: 3.07		19.4-20': NO RECOVERY
20			T: 3.51		20-22.5': CLAY: red with gray streaks, very hard, moist, no odor
		5.0/2.5	M: 3.77	20-22.5	
			B: 3.67		
		4.6/2.5	T: 3.51	22.5-25	22.5-23.5': CLAY: red with gray streaks, very hard, moist, no odor
			M: 2.24		23.5-24.1': SANDY CLAY: red with gray streaks, medium soft, moist, no odor
			B: 1.97		24.1-24.5': CLAY: brownish with gray streaks, very hard, moist, no odor
25			T: 1.99		24.5-25': CLAY: gray with some brown, soft, moist, no odor, some sand
		4.3/2.5	M: 1.86	25-27.5	25-27.5': CLAY: gray with red streaks, very hard, moist, no odor, some sand
			B: 1.88		
		4.3/2.5	T: 1.85	27.5-30	27.5-30': CLAY: gray with red streaks, hard, moist, no odor, some sand
			M: 1.93		
			B: 3.00		
30					



DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
30		5.0/2.5	T: 2.89 M: 2.62 B: 2.39	30-32.5	(Cont. from page 1) 30-32.5': CLAY: gray, hard, moist, no odor, with sand
35		4.0/2.5	T: 2.98 M: 2.37 B: 2.44	32.5-35	32.5-35': CLAY: gray with red streaks, hard, moist, no odor, some sand
40					
45					
50					
55					
60					
65					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB28

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454005.24, 3340273.27

Surface Elev.: NM Boring T.D.: 25' Boring Dia.: 3.25"

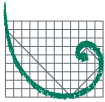
Date Started: 11/16/2021 Date Completed: 11/16/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0		4.4/5.0	T: 1.36	0-5	0-2.8': CLAY: black, hard, moist, no odor
			M: 1.28		2.8-4.4': CLAY: gray with black streaks, hard, moist, no odor, some sand
			B: 1.98		4.4-5': NO RECOVERY
5		5.0/5.0	T: 2.17	5-10	5-8.4': CLAY: gray, medium soft, moist, no odor
			M: 2.00		8.4-10': CLAY: gray, medium soft, moist, no odor, some sand
			B: 0.91		
10		5.0/5.0	T: 0.27	10-15	10-10.6': SAND: red, hard, moist, no odor
			M: 1.93		10.6-15': SANDY CLAY: red with gray streaks, medium soft, moist, no odor
			B: 1.78		
15		5.0/5.0	T: 1.95	15-20	15-20': CLAY: red, very hard, moist, no odor
			M: 2.43		
			B: 3.13		
20		5.0/2.5	T: 3.03	20-22.5	20-22.5': CLAY: red, very hard, moist, no odor
			M: 2.99		
			B: 3.43		
25		5.0/2.5	T: 1.72	22.5-25	22.5-25': CLAY: gray, hard, moist, no odor
			M: 1.87		
			B: 1.73		
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB29

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454012.76, 3340237.71

Surface Elev.: NM Boring T.D.: 30' Boring Dia.: 3.25"

Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

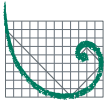
Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 1.15		0-4.6': CLAY: dark, medium soft, moist, no odor
		4.6/5.0	M: 1.52	0-5	
			B: 1.70		4.6-5': NO RECOVERY
5			T: 1.91		5-8.6': CLAY: gray with red streaks, hard, moist, no odor, little sand
		5.0/5.0	M: 1.57	5-10	
			B: 0.34		8.6-10': SANDY CLAY: brown, medium, wet, no odor
10			T: 1.84		10-10.5': SAND: red, hard, moist, no odor
		5.0/5.0	M: 2.33	10-15	10.5-15': CLAY: brown with gray streaks, medium soft, moist to very moist, no odor
			B: 2.11		
15			T: 2.55		15-20': CLAY: red, very hard, moist, no odor
		5.0/5.0	M: 3.43	15-20	
			B: 3.18		
20			T: >4		20-22.5': CLAY: red, very hard, moist, no odor
		5.0/2.5	M: 3.79	20-22.5	
			B: >4		
		4.0/2.5	T: >4	22.5-25	22.5-23.44': CLAY: red, very hard, moist, no odor
			M: 2.21		23.44-25': CLAY: gray, medium soft, very moist, no odor, some sand
			B: 2.15		
25			T: 2.91		25-27.5': CLAY: gray with red streaks, very hard, moist, some sand, no odor
		5.0/2.5	M: 1.79	25-27.5	
			B: 1.94		
		4.8/2.5	T: 2.02	27.5-30	27.5-28.23': CLAY: gray, medium soft, no odor, some sand
			M: 2.16		28.23-30': CLAY: reddish brown, hard, moist, no odor, little sand
			B: 2.60		
30					





# ERM Environmental Resources Management

Boring/Well No.: SE-SB30

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 453998.47, 3340237.61

Surface Elev.: NM Boring T.D.: 25' Boring Dia.: 3.25"

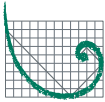
Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 1.84		0-0.8': SILT: dark gray, medium soft, moist, no odor
		4.6/5.0	M: 1.71	0-5	0.8-4.6': CLAY: dark gray, moist, hard, no odor
			B: 1.85		4.6-5': NO RECOVERY
5			T: 1.81		5-10': CLAY: gray, hard, moist, no odor, little sand
		5.0/5.0	M: 1.46	5-10	
			B: 1.28		
10			T: 1.45		10-11': SAND: brown, medium soft, very moist, no odor
		5.0/5.0	M: 2.42	10-15	11-15': CLAY: brown, medium soft, moist, no odor
			B: 1.91		
15			T: 3.08		15-17': CLAY: red, very hard, moist, no odor
		5.0/2.0	M: 3.16	15-17	
			B: 3.43		
		5.0/3.0	T: >4	17-20	17-20': CLAY: red, very hard, moist, no odor
			M: 3.59		
			B: >4		
20			T: >4		20-23': CLAY: brown, hard, moist, no odor
		5.0/3.0	M: >4	20-23	
			B: 3.74		
		2.5/2.0	T: 2.21	23-25	23-25': CLAY: gray, hard, moist, no odor, some sand
			M: 2.22		
			B: 1.88		
25					
30					



# ERM Environmental Resources Management

Boring/Well No.: SE-SB31

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454024.91, 3340221.45

Surface Elev.: NM Boring T.D.: 30' Boring Dia.: 3.25"

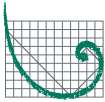
Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: >4		0-0.6': SILT: black, medium soft, moist 0.6-5': CLAY: gray, medium soft, moist, no odor
5		5.0/5.0	M: 2.92 B: 2.61	0-5	
10		5.0/5.0	T: 2.81 M: 3.18 B: 2.05	5-10	5-8.5': CLAY: gray, hard, moist, no odor 8.5-10': SAND: reddish black, soft, very faint odor, some clay
15		5.0/5.0	T: 2.89 M: 3.67 B: 2.94	10-15	10-10.8': SAND: brown, moist, hard, no odor 10.8-15': CLAY: reddish brown, medium soft, moist, no odor, some sand
20		4.1/5.0	T: 2.58 M: 3.57 B: 3.36	15-20	15-19.1': CLAY: red brown, very hard, moist, no odor 19.1-20': NO RECOVERY
25		5.0/2.5	T: >4 M: >4 B: >4	20-22.5	20-22.5': CLAY: red brown, very hard, moist, no odor
25		5.0/2.5	T: 3.52 M: 2.59 B: 2.24	22.5-25	22.5-25': CLAY: gray, hard with medium soft spots throughout, moist, no odor, little sand
30		5.0/3.0	T: 2.35 M: 2.27 B: 1.95	25-28	25-28': CLAY: gray, hard, moist, some sand, no odor, sandy clay lenses at 3.7'-3.8'
30		3.8/2.0	T: 2.47 M: 2.27 B: 2.76	28-30	28-30': CLAY: gray with red streaks, hard, moist, no odor



# ERM Environmental Resources Management

Boring/Well No.: SE-SB32

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454077.47, 3340180.57

Surface Elev.: NM Boring T.D.: 20' Boring Dia.: 3.25"

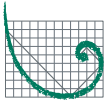
Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 0.91		0-1': CLAY: dark, hard, moist, no odor
		5.0/5.0	M: 1.85	0-5	1-5': CLAY: gray with orange streaks, hard, moist, no odor
			B: 1.29		
5			T: 1.57		5-9.5': SANDY CLAY: gray, medium soft, moist, no odor
		5.0/5.0	M: 1.45	5-10	
			B: 0.53		
10			T: 0.82		9.5-10': SAND: brown, coarse, medium soft, moist, no odor
		5.0/5.0	M: 1.25	10-15	10-11.7': SAND: brown, hard, wet, no odor
			B: 1.48		11.7-15': CLAY: brwn, medium soft, moist, some sand, no odor
15			T: 1.43		15-16': CLAY: red brown, medium soft, moist, some sand, no odor
		3.7/5.0	M: 1.82	15-20	16-18.7': CLAY: red brown, hard, moist, no odor
			B: 2.93		18.7-20': NO RECOVERY
20					
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# ERM Environmental Resources Management

Boring/Well No.: SE-SB33

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 453983.62, 3340197.46

Surface Elev.: NM Boring T.D.: 20' Boring Dia.: 3.25"

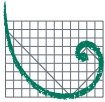
Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 0.95		0-3.6': CLAY: gray, medium soft, moist, no odor
		3.6/5.0	M: 1.51	0-5	
			B: 1.33		3.6-5': NO RECOVERY
5			T: 1.59		5-7.4': CLAY: gray, hard, moist, some sand, no odor
		5.0/5.0	M: 1.72	5-10	
			B: 0.95		7.4-10': CLAYEY SILT: black, medium soft, moist, no odor
10			T: 1.34		10-11': SAND: brown, hard, very moist, clay lens at 10.6', no odor
		5.0/5.0	M: 1.19	10-15	
			B: 1.56		11-15': CLAY: red with gray streaks, hard, moist, no odor
15			T: 2.19		15-20': CLAY: reddish brown, very hard, moist, no odor
		5.0/5.0	M: 2.79	15-20	
			B: 3.45		
20					
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# ERM Environmental Resources Management

Boring/Well No.: SE-SB34

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454053.35, 3340333.05

Surface Elev.: NM Boring T.D.: 20' Boring Dia.: 3.25"

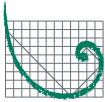
Date Started: 11/17/2021 Date Completed: 11/17/2021 Well Dia./Materials: NA

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0			T: 0.18		0-2': CLAY: dark gray, medium soft, moist, no odor
		2.0/5.0	M: 0.34 B: 1.10	0-5	2-5': NO RECOVERY
5			T: 1.22		5-7.9': SANDY CLAY: gray, medium soft, moist, no odor
		5.0/5.0	M: 0.75 B: 0.85	5-10	7.9-10': CLAYEY SILT: black, soft, very moist, no odor
10			T: 0.14		10-11.9': SAND: brown, hard, moist, no odor
		5.0/5.0	M: 1.86 B: 1.72	10-15	11.9-15': SANDY CLAY: gray, medium soft, moist, no odor
15			T: 1.76		15-20': CLAY: brown, very hard, moist, no odor
		5.0/5.0	M: 2.40 B: 2.88	15-20	
20					
25					
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# ERM Environmental Resources Management

Boring/Well No.: SE-SB35

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 454124.04, 3340257.86

Surface Elev.: NM Boring T.D.: 20' Boring Dia.: 3.25"

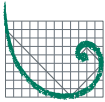
Date Started: 11/18/2021 Date Completed: 11/18/2021 Well Dia./Materials: 1" PVC Prepack Screen

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL CONSTRUCTION	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0				T: 0.36		0-1.6': SILTY CLAY: black, hard, moist, no odor
			3.0/5.0	M: 0.74	0-5	1.6-3': CLAY: black, medium soft, moist, no odor
				B: 1.62		3-5': NO RECOVERY
5				T: 1.45		5-8.2': CLAY: gray, medium soft to hard, moist, some sand, no odor
			5.0/5.0	M: 1.14	5-10	8.2-9': SILTY CLAY: dark gray, medium soft, very moist, no odor
				B: 0.34		9-10': SAND: red, hard, wet, no odor
10				T: 0.16		10-10.8': SAND: red, very hard, very moist, no odor
			5.0/5.0	M: 1.67	10-15	10.8-15': CLAY: red, medium soft, very moist, no odor
				B: 1.70		
15				T: 2.73		15-20': CLAY: red brown, very hard, moist, no odor
			5.0/5.0	M: 3.29	15-20	
				B: 3.83		
20						
25						
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# ERM Environmental Resources Management

Boring/Well No.: SE-SB36

Project: HC Drew Manual Estate 15 No. 1 Project No.: 0494259

Location: Calcasieu Parish, Louisiana Coordinates: UTM 15N 453952.62, 3340265.13

Surface Elev.: NM Boring T.D.: 20' Boring Dia.: 3.25"

Date Started: 11/18/2021 Date Completed: 11/18/2021 Well Dia./Materials: 1" PVC Prepack Screen

Drilling Company: Walker-Hill Environmental Driller: Tremaine

Drilling Method: Direct Push Geoprobe Grouting Method: Portland Cement

Logged by: Marcus Smith Soil Sample Method: Acetate Liner

DEPTH (FEET)	LITHOLOGY (GRAPHIC LOG)	WELL CONSTRUCTION	SAMPLE RECOVERY (FEET/FEET)	FIELD EC (mS/cm)	DESCRIPTION INTERVAL (FEET)	SOIL DESCRIPTION
0				T: 1.05		0-1': CLAYEY SILT: dark gray, medium soft to hard, moist, no odor
			4.5/5.0	M: 1.52	0-5	1-4.5': CLAY: gray with red and black streaks, hard, moist, no odor
				B: 2.15		4.5-5': NO RECOVERY
5			5.0/5.0	T: 1.91	5-10	5-6.5': CLAY: gray, hard, moist, no odor
				M: 1.22		6.5-8.6': SANDY CLAY: brown, medium soft, very moist, no odor
				B: 1.61		8.6-10': SAND: red, medium soft, wet, some silt, no odor
10			5.0/5.0	T: 1.75	10-15	10-15': CLAY: brown, soft, moist, no odor
				M: 1.45		
				B: 1.90		
15			5.0/5.0	T: 1.72	15-20	15-20': CLAY: red brown, hard, moist, no odor
				M: 1.45		
				B: 1.61		
20						
25						
30						