



March 26, 2012

John Morris, P.G.
Florida Department of Environmental Protection – Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

RE: Cell 6 Monitoring Well Installation
Enterprise Class III Landfill and Recycling Facility
Permit No. 177982-007-SO/T3
WACS No. 87895

Dept. Of Environmental Protection
MAR 27 2012
Southwest District

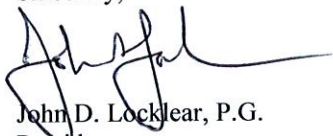
Dear Mr. Morris:

Detection monitoring wells MW-15B, MW-16B and MW-17B have been installed as specified in our February 23, 2012 minor permit modification application. Water bearing sediments above the clay confining unit were not encountered during drilling, therefore surficial aquifer monitoring wells were not installed. Geologic boring logs are provided in Attachment 1. Well completion reports are provided in Attachment 2.

Groundwater samples have been collected from all three wells. The analytical results will be reported as part of the First Semiannual 2012 compliance monitoring report. Please provide WACs identification numbers for the new wells as they will be needed to prepare the ADaPT files.

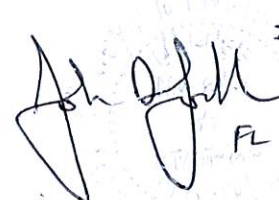
If you have any questions regarding this information, please contact me at (352) 682-0781.

Sincerely,


John D. Locklear, P.G.
President
Locklear & Associates, LLC

Cc: John Arnold, Angelo's Aggregate Materials

Attachment 1: Geologic Boring Logs
Attachment 2: Well Completion Reports

 3/26/12
FL PG 2467

ATTACHMENT 1 GEOLOGIC BORING LOGS

Dept. Of Environmental Protection

MAR 27 2002

Southwest District

TEST BORING FIELD REPORT

MW-15B

Page 1 of 3

Site: Enterprise Class III Landfill
Well Driller: Huss Drilling, Inc.
Drilling Method: Hollow Stem Auger

Boring completed: 2/29/12
Well completed: 3/1/12
Geologist: John Locklear, P.G.

Depth	SPT Data ASTM D1586		Description of Soil	
	per 6"	N		
0				
5			CLAY, tan to orange/brown, stiff	5
10			CLAY	10
15				15
20			CLAY, sandy	20
25				25
30			LIMESTONE, white, dry	30
35			LIMESTONE	35
40			LIMESTONE, white, hard, dry	40
42				42

Notes & additional data/info. (specify if other materials used):

Total well depth = 100 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 80 ft ; Screen = 20 ft, 0.010 slot

Sand filter pack = 12 50 lb. Bags; Type = 20/30 silica ; Placed from 100 ft bls to 77 ft bls

Annular seal: Type = Bentonite ; Thickness = 2 ft ; Placed from 77 ft bls to 75 ft bls

Grout = Portland Type I ; Pad = 24"x24"x4" ; Cover = Stick-up



TEST BORING FIELD REPORT

Boring No.: MW-15B

Page 2 of 3

Site: Enterprise Class III Landfill

Depth	SPT Data ASTM D1586		Description of Soil	
	per 6"	N		
42				
45			LIMESTONE	45
50			LIMESTONE	50
55				55
60			LIMESTONE with some CLAY, pale green, dry	60
65			LIMESTONE with some CLAY, pale green, dry	65
70			LIMESTONE, hard	70
75				75
80			LIMESTONE, hard	80
85				85
87				87

Dept. Of Environmental Protection
MAR 27 2012
Southwest District

Notes & additional data/info. (specify if other materials used):



TEST BORING FIELD REPORT

Boring No.: MW-15B

Page 3 of 3

Site: Enterprise Class III Landfill

Depth	SPT Data		Description of Soil	
	ASTM D1586	N		
87	per 6"			
90			LIMESTONE	90
95			LIMESTONE	95
100			LIMESTONE	100
105				105
110				110
115				115
120				120
125				125
130				130
132				132

Notes & additional data/info. (specify if other materials used):



TEST BORING FIELD REPORT

MW-16B

Page 1 of 3

Site: Enterprise Class III Landfill

Well Driller: Huss Drilling, Inc.

Drilling Method: Hollow Stem Auger

Boring completed: 2/28/12

Well completed: 2/29/12

Geologist: John Locklear, P.G.

Depth	SPT Data ASTM D1586		Description of Soil	
	per 6"	N		
0				
5			CLAY, tan to orange/brown	5
10				10
15			CLAY	15
20			CLAY, sl sandy	20
25				25
30	10 13 24 25	37	CLAY, tan to orange/brown, stiff	30
35	12 10 15 21	25	CLAY, tan to orange/brown, stiff	35
40	10 12 18 16	30	CLAY, slight greenish grey, stiff	40
42				42

Notes & additional data/info. (specify if other materials used):

Total well depth = 100 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 80 ft ; Screen = 20 ft, 0.010 slot

Sand filter pack = 12 50 lb. Bags; Type = 20/30 silica ; Placed from 100 ft bls to 77 ft bls

Annular seal: Type = Bentonite ; Thickness = 2 ft ; Placed from 77 ft bls to 75 ft bls

Grout = Portland Type I ; Pad = 24"x24"x4" ; Cover = Stick-up



TEST BORING FIELD REPORT

Boring No.: MW-16B

Page 2 of 3

Site: Enterprise Class III Landfill

Depth	SPT Data		Description of Soil	
	ASTM D1586	N		
42	per 6"			
45	10 11 14 18	25	CLAY, slight greenish grey, stiff	45
50	11 14 21 20	35	CLAY, slight greenish grey to orange/brown, stiff	50
55	5 6 10 12	16	CLAY, sandy, light grey to orange/brown at bottom	55
60	7 9 12 14	21	CLAY, greenish grey, stiff	60
65	6 5 7 6	12	CLAY, greenish grey, stiff	65
70	7 7 8 8	15	CLAY, greenish grey, stiff, small LS fragments	70
75	4 26 50+	76+	LIMESTONE, weathered, white to light cream, wet	75
80			LIMESTONE, too hard to spoon, rig chatter	80
85			LIMESTONE	85
87				87

Notes & additional data/info. (specify if other materials used):



TEST BORING FIELD REPORT

Boring No.: MW-16B

Page 3 of 3

Site: Enterprise Class III Landfill

Depth	SPT Data ASTM D1586		Description of Soil	
	per 6"	N		
87				
90			LIMESTONE	90
95			LIMESTONE	95
100			LIMESTONE	100
105				105
110				110
115				115
120				120
125				125
130				130
132				132

Notes & additional data/info. (specify if other materials used):



TEST BORING FIELD REPORT

MW-17B

Page 1 of 2

Site: Enterprise Class III Landfill

Well Driller: Huss Drilling, Inc.

Drilling Method: Hollow Stem Auger

Boring completed: 2/27/12

Well completed: 2/28/12

Geologist: John Locklear, P.G.

Depth	SPT Data ASTM D1586		Description of Soil
	per 6"	N	
0			
5	4 8 7 9	15	CLAY, grey to greenish grey, stiff, small LS fragments
10	3 4 3 5	7	CLAY, orange/brown to greenish grey, stiff, LS fragments
15	16 42 16 8	58	Top 6 inches an bottom 12 inches CLAY, orange/brown to greenish gre Second 6 inches is SAND, white to light grey, fine, dry
20	5 6 7 7	13	CLAY, sandy, light grey to orange/brown, mod stiff
25	4 4 6 6	10	CLAY, sandy, light grey to orange/brown, mod stiff
30	10 13 14 13	27	Top 12 inches SAND, silty, light orange to orange/brown, moist Bottom 12 inches CLAY, sl sandy, light grey, mod stiff, moist
35	5 5 9 10	14	CLAY, sl sandy, light grey, mod stiff, moist
40	8 8 12 11	20	Top 18 inches CLAY, sandy, orange/brown, mod stiff, moist Bottom 6 inches LIMESTONE, weathered, cream color
42			

Notes & additional data/info. (specify if other materials used):

Total well depth = 78.5 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 58.5 ft ; Screen = 20 ft, 0.010 slot

Sand filter pack = 24 50 lb. Bags; Type = 20/30 silica ; Placed from 78.5 ft bls to 56 ft bls

Annular seal: Type = Bentonite ; Thickness = 2 ft ; Placed from 54 ft bls to 56 ft bls

Grout = Portland Type I ; Pad = 24"x24"x4" ; Cover = Stick-up



TEST BORING FIELD REPORT

Boring No.: MW-17B

Page 2 of 2

Site: Enterprise Class III Landfill

Depth	SPT Data		Description of Soil	
	ASTM D1586 per 6"	N		
42				
45	14	50+	CLAY, light grey to brown, stiff, with 3-inch LS lense at 18 inches	45
50	31 22	18 50	Interbedded CLAY and LIMESTONE	50
55	16	50+	LIMESTONE, cream, wet	55
60	50+		LIMESTONE, cream, wet	60
65			LIMESTONE, too hard to spoon	65
70				70
75				75
80				80
85				85
87				87

Notes & additional data/info. (specify if other materials used):



ATTACHMENT 2
WELL COMPLETION REPORTS

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAR 27 2012
SOUTHWEST DISTRICT
TAMPA

PART I: GENERAL INFORMATION

Well ID: MW-15B	Site Name: Enterprise Class III Landfill		Well Install Date 2/29-3/1 20012
Facility ID 87895	Alternate ID	FLUWID #	WMD Permit # 819037
Well Purpose <input type="checkbox"/> Background <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Compliance <input type="checkbox"/> Other (explain) Detection			
Latitude (to nearest 0.1 seconds) N 1453107.369		Longitude (to nearest 0.1 seconds) E 612572.939	
Latitude and Longitude collection method: <input type="checkbox"/> DGPS <input type="checkbox"/> AGPS <input type="checkbox"/> MAP <input type="checkbox"/> ZIPCODE <input type="checkbox"/> DPHO <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER Professional Land Surveyor			

PART II: WELL CONSTRUCTION DETAILS

Contractor Name Ben Huss				Contractor License # 9342	
Company Name Huss Drilling, Inc.					
Construction Method: <input checked="" type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Solid Stem Auger <input type="checkbox"/> Water/Mud Rotary <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Direct Push <input type="checkbox"/> Sonic <input type="checkbox"/> Other (describe)				Aquifer Monitored Floridan	
Top of Casing Elevation (NVGD or NAVD) 147.87 Feet, NGVD			Ground Surface Elevation (NVGD or NAVD) 145.48 Feet, NGVD		
Casing					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	0	80	
Screen					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		Slot Size
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	80	1000	0.010-inch
Annulus					
Material including additives for sealant	Size of Material	Amount (# of bags)	Depth (ft.)		Installation Method
			From	To	
Silica sand	20/30	13	77	100	Pour
Bentonite	N/A	1	75	77	Pour
Portland Type I cement	N/A		0	75	Tremie pipe

Well Development Date	Well Development Method: <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (explain)		
Development Duration	Two hours		
Pumping Rate 3-4 GPM	Maximum Drawdown Unknown	Well Purged Dry <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Pumping Condition <input checked="" type="checkbox"/> continuous <input type="checkbox"/> intermittent
Turbidity (if Measured): Start: > 1000 NTU		Stabilized Water Level (BLS) N/A	
End: 65 NTU			
Water appearance (color and odor) at start of development: Milky, no odor			
Water appearance (color and odor) at end of development: Clear, no odor			

Report Prepared By:	Date
John Locklear	March 22, 2012
Title/Company	License #
President Locklear & Associates, LLC	PG 2467

[illegible]

DEP Form # 62-520.900(3)
Form Title MONITORING WELL COMPLETION REPORT
Effective Date <u>July 12, 2009</u>
DEP Application No. _____ (Filled in by DEP)

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFORMATION

Well ID: MW-16B	Site Name: Enterprise Class III Landfill	Well Install Date 2/28-2/29 20012
Facility ID 87895	Alternate ID	FLUWID # WMD Permit # 819037
Well Purpose <input type="checkbox"/> Background <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Compliance <input type="checkbox"/> Other (explain) Detection		
Latitude (to nearest 0.1 seconds) N 1453606.494		Longitude (to nearest 0.1 seconds) E 612564.001
Latitude and Longitude collection method: <input type="checkbox"/> DGPS <input type="checkbox"/> AGPS <input type="checkbox"/> MAP <input type="checkbox"/> ZIPCODE <input type="checkbox"/> DPHO <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER Professional Land Surveyor		

PART II: WELL CONSTRUCTION DETAILS

Contractor Name Ben Huss				Contractor License # 9342	
Company Name Huss Drilling, Inc.					
Construction Method: <input checked="" type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Solid Stem Auger <input type="checkbox"/> Water/Mud Rotary <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Direct Push <input type="checkbox"/> Sonic <input type="checkbox"/> Other (describe)					Aquifer Monitored Floridan
Top of Casing Elevation (NVGD or NAVD) 138.01 Feet, NGVD			Ground Surface Elevation (NVGD or NAVD) 135.40 Feet, NGVD		
Casing					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	0	80	
Screen					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		Slot Size
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	80	100	0.010-inch
Annulus					
Material including additives for sealant	Size of Material	Amount (# of bags)	Depth (ft.)		Installation Method
			From	To	
Silica sand	20/30	12	77	100	Pour
Bentonite	N/A	1	75	77	Pour
Portland Type I cement	N/A		0	75	Tremie pipe

Well Development Date	Well Development Method: <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (explain)		
Development Duration	Three hours		
Pumping Rate 3-4 GPM	Maximum Drawdown Unknown	Well Purged Dry <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Pumping Condition <input checked="" type="checkbox"/> continuous <input type="checkbox"/> intermittent
Turbidity (if Measured):		Stabilized Water Level (BLS)	
Start: > 1000 NTU	End: 50 NTU	N/A	
Water appearance (color and odor) at start of development:			
Milky, no odor			
Water appearance (color and odor) at end of development:			
Clear, no odor			

Report Prepared By:	Date
John Locklear	March 22, 2012
Title/Company	License #
President Locklear & Associates, LLC	PG 2467

[illegible]

DEP Form # 62-520.900(3)
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DEP Application No. _____ (Filed in by DEP)

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFORMATION

Well ID: MW-17B	Site Name: Enterprise Class III Landfill	Well Install Date 2/27-2/28 20012
Facility ID 87895	Alternate ID	FLUWID # WMD Permit # 819037
Well Purpose <input type="checkbox"/> Background <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Compliance <input type="checkbox"/> Other (explain) Detection		
Latitude (to nearest 0.1 seconds) N 1454141.727		Longitude (to nearest 0.1 seconds) E 612764.557
Latitude and Longitude collection method: <input type="checkbox"/> DGPS <input type="checkbox"/> AGPS <input type="checkbox"/> MAP <input type="checkbox"/> ZIPCODE <input type="checkbox"/> DPHO <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER Professional Land Surveyor		

PART II: WELL CONSTRUCTION DETAILS

Contractor Name Ben Huss				Contractor License # 9342	
Company Name Huss Drilling, Inc.					
Construction Method: <input checked="" type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Solid Stem Auger <input type="checkbox"/> Water/Mud Rotary <input type="checkbox"/> Air Rotary <input type="checkbox"/> Cable Tool <input type="checkbox"/> Direct Push <input type="checkbox"/> Sonic <input type="checkbox"/> Other (describe)					Aquifer Monitored Floridan
Top of Casing Elevation (NVGD or NAVD) 87.21 Feet, NGVD			Ground Surface Elevation (NVGD or NAVD) 84.56 Feet, NGVD		
Casing					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	0	58.5	
Screen					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		Slot Size
			From	To	
Sch 40 PVC	2.06 inch	2.37 inch	58.5	78.5	0.010-inch
Annulus					
Material including additives for sealant	Size of Material	Amount (# of bags)	Depth (ft.)		Installation Method
			From	To	
Silica sand	20/30	12	56	78.5	Pour
Bentonite	N/A	1	54	56	Pour
Portland Type I cement	N/A		0	54	Tremie pipe

Well Development Date	Well Development Method: <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (explain)		
Development Duration	Three hours		
Pumping Rate 3-4 GPM	Maximum Drawdown Unknown	Well Purged Dry <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Pumping Condition <input checked="" type="checkbox"/> continuous <input type="checkbox"/> intermittent
Turbidity (if Measured): Start: > 1000 NTU		End: 54 NTU	Stabilized Water Level (BLS) N/A
Water appearance (color and odor) at start of development: Milky tan, no odor			
Water appearance (color and odor) at end of development: Clear, no odor			

Report Prepared By:	Date
John Locklear	March 22, 2012
Title/Company	License #
President Locklear & Associates, LLC	PG 2467

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