

APPENDIX III:

SOIL DESCRIPTIONS,
WETLAND MITIGATION SITES 1 AND 7

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT **PROJECT** DETERN2 **Described By** MT/WC **Date** 08/04/04

Unit No. <u>A-1</u>	Unit Type: <u>Auger</u>	Location: <u>W of Christina River near base of dike slope</u>
Vegetation: <u>Grass / open forest</u>		
Drainage: <u>poor</u>		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-9	10YR 3/2	SiLo					
9-12	10YR 5/3	SiLo					
12-21	2.5YR 5/1	SiCiLo					iron staining
21-31	10YR 4/1	SiCiLo					
31-40	7.5YR 5/4	CiSa					w/ finely stratified SiSa layers at top – small pea gravel in Sa – flood/tide deposits?
40-48	7.5YR 5/4 2.5YR 5/4	SiLo Si					thinly layered - flood/tide deposits?
48-50	10YR 4/2	LoSa					
50-58	2.5Y 4/1	SiLo					mottled with 10YR 4/4 SiLo w/ iron staining measured 70 cmbgs
70-76	10YR 4/2	LoSa					
76-110	2.5YR 5/2	SiCiLo					iron staining - wet measured 130 cmbgs
Additional Notes:							

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CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/WC Date 08/04/04

Unit No. A-1	Unit Type: Auger	Location: W of Christina River near base of dike slope
Vegetation: Grass / open forest		
Drainage: poor		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
130-165	5Y 5/1	SiCl	firm				iron staining measured 180cmbgs
180-205	Gley2 4/10B	SiCl	firm				iron staining
205-473	Gley2 4/10B	Cl	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/WC Date 08/04/04

Unit No. A-2	Unit Type: Auger	Location: W of Christina River - S of I95
Vegetation: Grass / open forest (poplar)		
Drainage: poor		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-2	10YR 4/2	SiLo					
2-54	10YR 5/3 -2.5YR 5/1	SiLo w/Sa	firm				finely stratified w/small wood fragments – coarsening downward – flood deposits?
54-68	10YR 5/3 -2.5YR 5/1	SiLo					
68-71	10YR 5/3 -2.5YR 5/1	SaLo					iron staining
71-76	5Y 3/1	SiLo					
76-89	5Y 5/1 – 2.5Y 5/2	SiLo					banded
89-114	Gley1 3N	ClLo	firm				banded
114-122	Gley1 3/10Y	SiCl	firm				SHARP CONTACT
122-133	7.5YR 2.5/1	Peat	firm	X		X	organic rich – dewatered – wood fragments – petroleum smell – glass fragment
133-188	Gley1 4/N	SiCl	firm				200 cmbgs
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/WC Date 08/04/04

Unit No. A-2	Unit Type: Auger	Location: W of Christina River - S of I95
Vegetation: Grass / open forest (poplar)		
Drainage: poor		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
200-500	Gley1 4N	Cl	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT **PROJECT** DETERN2

Described By MT/WC

Date 08/04/04

Unit No. <u>A-3</u>	Unit Type: <u>Auger</u>	Location: <u>W of Christina River - S of I95</u>
Vegetation: <u>Grass / open forest (poplar)</u>		
Drainage: <u>poor</u>		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-2	2.5Y 4/1	LoSa	friable				
2-37	2.5Y 5/3	fSaLo	loose				
37-45	5Y 5/2	SiCl	firm				
45-67	5Y 4/1	SiCl	firm				organics/rootlets measured to 82 cmbgs
82-112	5Y 5/1	SiClLo	firm				banded (laminated) w/ layers of 5Y 6/1 and 5Y 5/6
112-122	5Y 3/1	SiClLo	firm				banded (laminated) w/ layers of 5Y 5/1 SHARP BOUNDARY
122-152	5Y 3/1	SiCl	very firm				massive
152-173	5Y 4/1	SiCl	firm				banded (laminated) w/ layers of 5Y 5/1 SHARP BOUNDARY
173-176	7.5YR 2.5/1	Peat	firm				organic/roots - dewatered
176-191	5Y 4/1	SiClLo	friable				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/WC Date 08/04/04

Unit No. A-3	Unit Type: Auger	Location: W of Christina River - S of I95
Vegetation: Grass / open forest (poplar)		
Drainage: poor		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
191-201	5Y 4/1	SiCl	firm				mottled w/ (Gley1) 4/N
201-300	Gley2 5/10B	SiCl	firm				
300-400	Gley2 5/10B	Cl	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT **PROJECT** DETERN2 **Described By** MT/KJ **Date** 08/05/04

Unit No. <u>A-4</u>	Unit Type: <u>Auger</u>	Location: <u>W of Christina River - S of I95 / 5 m W of phragmite</u>
Vegetation: <u>Grass / open forest</u>		
Drainage: <u>poor / standing water</u>		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-5	10YR 3/2	SiLo	loose	X			standing water at the surface
5-17	10YR 4/2	SiLo	firm	X			
17-36	5Y 5/2	SaLo	firm	X			banded (laminated) w/ 5Y 5/4 – flood/tidal?
36-62	5Y 4/2	SiCilo	firm	X			iron staining
62-70	2.5Y 4/1	SiCI	firm	X			
70-150	5Y 4/1	SiCilo	firm				
150-155	5Y 4/2	SiCilo	firm				
155-196	Gley1 4/10Y	SiCI	firm				
196-200	Gley1 3/N	SiCL	firm				
200-221	Gley2 3/5B	SiCI	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/KJ Date 08/05/04

Unit No. A-4	Unit Type: Auger	Location: W of Christina River - S of I95 / 5 m W of phragmites
Vegetation: Grass / open forest		
Drainage: poor / standing water		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
221-234	Gley2 2.5Y/5BG	Cl	firm				
234-288	5Y 3/1	SiClLo	firm				
288-400	Gley2 4/10B	Cl	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT **PROJECT** DETERN2

Described By MT/KJ **Date** 08/05/04

Unit No. <u>A-5</u>	Unit Type: <u>Auger</u>	Location: <u>15m N of Christina River - S of I95</u>
Vegetation: <u>Grass / open forest</u>		
Drainage: <u>poor / standing water</u>		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-10	5Y 4/1	SiLo	friable	X			
10-15	5Y 4/1	SiCilO		X			banded (laminated) w/ 5Y 6/1
15-52	5Y 5/1	CilO	firm	X			iron staining
52-59	5Y 4/1	CilO	firm	X			
59-63		peat	firm	X			organics – compacted and dewatered
63-73	5Y 4/1	CilO	firm				
73-91	5Y 2.5/2	SiCilO		X			organics (30%)
91-113	5Y 4/1	CilO	firm				
113-153	Gley2 4/5B	SiCl	firm				
153-400	Gley2 4/5B	Cl	firm				
Additional Notes:							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT PROJECT DETERN2 Described By MT/WC Date 08/04/04

Unit No. B-2	Unit Type: STU/ Bucket Auger	Location: E of Christina River - N of I95 - center of area
Vegetation: grass and weeds / open		
Drainage: poor / standing water		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-45							STU - fill with aggregate, macadam, and concrete and plastic trash
45-65							Bucket Auger - continued aggregate, macadam and concrete
Additional Notes: refusal due to large blocks of concrete							

GOUGE AUGER/ PISTON SAMPLER LOG

John Milner Associates, Inc.

CLIENT WRA/DeIDOT **PROJECT** DETERN2

Described By MT/KJ **Date** 08/05/04

Unit No. B-3	Unit Type: STU/ Bucket Auger	Location: S of Christina River - N of I95 – across from White Clay Creek
Vegetation: waist high grass and brush – N edge of landform		
Drainage: poor / standing water		

Depth (cm)	Color	Texture	Consistence	Roots	Shells	Artifacts	Comments
0-32	10YR 3/2	SaLo	friable				macadam and concrete blocks
32-70	10YR 3/4	SaLo	friable				concrete and plastic
70-88	10YR 4/2	CiLo					macadam mottled w/ 5Y 4/1 at base
88-101	10YR 5/4	SaCiLo	firm				mottled w/ 5Y 4/1
101-113	10YR 4/6	SaCiLo	firm				
113-180	10YR 5/6	SaCiLo	firm				mottled w/ 2.5YR 4/6 and 10YR 5/3
180+		gravel					tabular and rounded
Additional Notes: shovel test 0-75 cm and bucket auger to 180 cm – terminated due to gravel causing refusal of auger							