Soil Profile Notes

FIELD 3

Tax Map #: 234-21.00-171.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 297

Date: 4/4/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-23

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

44 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

45 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: AQUIC MESIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 4/3	None	None	LS	1Fgr	VFR	
E	12-26	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt1	26-44	10YR 5/4	"	"	SCL	1FSBK	FR	
Bt2	44-52	10YR 5/4	10YR 7/1 10YR 6/8	F1,2P F1,2P	SCL+	1FSBK	FR-FI	
C	52-72	10YR 7/3	10YR 6/8 10YR 7/1	F1P F2F	LFS	M	FR	

Site Evaluator's Signature: [redacted]

Soil Profile Notes

FIELD 4

Tax Map #: 234-16.00-29.00

Job Number: 31-D520-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-24

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

34 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water** WET @ 72

40 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE /

Notes:

Soil Classification: AQUIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	None	None	LS	1 Fgr	VFR	
C1	12-34	2.5Y 7/3	"	"	LS	1 M	VFR	
C2	34-48	2.5Y 7/3	10YR 7/1 2.5Y 6/6 (B)	F1,2F F1,2P	LS	M	VFR	
2Cg1	48-62	10YR 7/1	10YR 6/8	C2P	SCL	M	FR	
2Cg2	62-72	10YR 6/1	10YR 6/8	C2P	CL	M	FR-FI	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 4

Tax Map #: 234-16.00-28.03

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-25

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

30 inch Depth to **Limiting Zone**

52 inch Depth to **Free Water**

20 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE /

Notes:

Soil Classification: AQUIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	None	None	LS	1FGR	VFR	
GB	12-30	2.5Y 7/3	"	"	LS	1FSBK	VFR	
Cg1	30-38	2.5Y 7/3	10YR 7/1, 2.5Y 6/6(B)	F,1,2F F,1,2P	LS	M	VFR	
Cg2	38-46	10YR 7/1	10YR 6/8	C,1,2P	LS+	M	VFR	
Cg3	46-64	10YR 6/1	None	None	LS	M	VFR	
Cg4	64-72	10YR 7/1	10YR 6/6(B)	C,1,2P	S	SG	LO	

Site Evaluator's Signatu

Soil Profile Notes

FIELD 4

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-26

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

34 inch Depth to **Limiting Zone**

WET @ 70

>72 inch Depth to **Free Water**

30 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	
E1	12-30	2.5Y 6/3 (LCM)	"		LS	1FSBK	VFR	
E2	30-34	2.5Y 7/3	"	"	LS	1FSBK	VFR	
Bt	34-42	2.5Y 6/4	10YR 7/1 10YR 6/8	C1,2D C1,2D	SL	1FSBK	FR	
C1	42-64	10YR 7/3	10YR 7/1 10YR 6/8	C2F C2P	LS	M	VFR	
Cg2	64-72	10YR 7/1	10YR 6/8	F1,2P	LS	M	VFR	
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	SB-27
CB	12-32	2.5Y 6/3 (LCM)	"	"	LS	1FSBK	VFR	LE=32; MPI=20
C1	32-48	10YR 7/3	10YR 6/8 10YR 7/2	F1,2P F1,2F	LS	M	VFR	FW=65" AG STUBBLE
C2	48-60	10YR 7/3	10YR 6/8 10YR 7/1	C2P C2F	LS	M	VFR	AQUIC QUARTZIPSAMMENTS
Cg3	60-72	10YR 6/1	10YR 6/8	F1P	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 4 & 5

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD; DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-28

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

28 inch Depth to **Limiting Zone**

64 inch Depth to **Free Water**

20 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes: SB 28: NEXT TO POND; SOME SPOIL MIXED IN MSA
SB 29: NEXT " " " " " " "

Soil Classification: ADVIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	None	None	LS+	1Fgr	VFR	
CB	12-28	2.5Y 7/2(3)	"	"	LS	1Fsbk	VFR	
Cg1	28-50	10YR 7/1	10YR 4/6(C3)	F,2P	LS	M	VFR	
Cg2	50-72	10YR 6/1	10YR 4/6(C5)	C2P	LS	M	VFR	
Ap	0-12	10YR 3/3	None	None	LS+	1Fgr	VFR	SB-29
CB	12-30	2.5Y 7/3	"	"	LS	1Fsbk	VFR	LZ=30; FW=62" MPI=25
Cg1	30-50	10YR 7/1	2.5Y 6/6(C8)	F,2P	LS	M	VFR	0-1% FLAT AG STUBBLE
Cg2	50-60	10YR 6/1	2.5Y 6/8	C2P	LS+	M	VFR	ADVIC QUARTZIPSAMMENTS
Cg3	60-72	10YR 7/1	10YR 4/8	C2P	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 5

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-30 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

26 inch Depth to **Limiting Zone**

70 inch Depth to **Free Water**

25 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: ADVIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR3/3	NONE	NONE	LS	1FGR	VFR	
CB	12-26	2.5Y6/3(4)	"	"	LS	1FSBK	VFR	
C1	26-34	10YR7/3	10YR7/1, 2.5Y6/6(8)	F1,2F F1,2P	LS	1FSBK	VFR	
C2	34-46	2.5Y6/4	10YR7/1, 10YR6/6(8)	C1,2D C1,2D	LS+	1FSBK	VFR	
C3	46-64	10YR7/3	10YR7/1, 10YR6/8	C2F C2P	LS	M	VFR	
Cg4	64-72	10YR7/1(2)	10YR6/8	C2P	LS	M	VFR	
Ap	0-12	10YR3/3	NONE	NONE	LS	1FGR	VFR	SB-31
E1	12-18	2.5Y6/4	"	"	LS	1FSBK	VFR	LZ-30" FW-68 MPI-45
E1	18-30	10YR6/4	"	"	LS	1FSBK	VFR	0-1% FLAT NO STUBBLE
Bt1	30-36	10YR5/4(6)	10YR7/2 10YR6/8	F1,2P F1,2D	SCL	1FSBK	FR	ADVIC ARENIC INCLUSIONS
Bt2	36-50	10YR6/4	10YR7/1, 10YR6/8	C2D C2D	SCL+	1MSBK	FR	PROBABLY PERCHING
C	50-72	10YR7/3	10YR7/1(2) 10YR6/8	C1,2F F1,2P	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 5

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-32 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

36 inch Depth to **Limiting Zone**

62 inch Depth to **Free Water**

20 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/

Notes:

Soil Classification: AQUIC QUARTZIPSAMMENTS

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	
CB	12-36	2.5Y 6/3(4)	"	"	LS	1FSBK	VFR	
C1	36-50	10YR 7/3(4)	10YR 7/1, 10YR 6/8	F1,2F F1,2P	LS	M	VFR	
C2	50-66	10YR 7/3	10YR 7/1, 10YR 6/8	C2F C2P	LS	M	VFR	
Cg3	66-72	10YR 7/1	10YR 6/8	F2P	FSL	M	VFR	
Ap	0-10	10YR 7/3	NONE	NONE	LS	1FGR	VFR	SB-33
E	10-27	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ=37; FWD 72 MPI=45
Bt	27-37	10YR 6/6	"	"	SCL	1FSBK	FR	0-1% FLAT
C1	37-50	10YR 6/6	10YR 6/8 10YR 7/2	F1F F1,2P	LS	M	VFR	AG STUBBLE
Cg2	50-56	10YR 7/1	10YR 6/8	F1,2P	SCL+	M	FR-FI	AQUIC ARENIC HAPLUDULTS
C3	56-65	10YR 5/4	10YR 6/8 10YR 7/1	C2P F1,2P	SL	M	FR	
Cg4	65-72	10YR 7/1	10YR 6/8	C2P	CL	M	FI	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 5

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-34

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

34 inch Depth to **Limiting Zone**

68 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 3/3	None	None	LS	1Fgr	VFR	
E	10-27	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt1	27-34	10YR 5/4	"	"	SL	1FSBK	FR	
Bt2	34-48	10YR 5/4(6)	10YR 7/2 10YR 6/8	F1,2P F1,2Z	SCL	1FSBK	FR	
C1	48-58	10YR 7/3	10YR 7/1 10YR 6/6	C2F C2P	LS	M	VFR	
Cg2	58-72	10YR 7/2	10YR 6/8 10YR 7/1	C2P C2P	LS	M	VFR	
Ap	0-10	10YR 4/3	None	None	LS	1Fgr	VFR	SB-35
E	10-26	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ=34, FW=62" MPI=75
Bt	26-34	10YR 5/4(6)	"		SL	1FSBK	VFR	0-1% FLAT
C1	34-38	10YR 7/2(3/4)	10YR 6/8 10YR 7/1	F1,2P F1,2F	LS	M	VFR	AG STUBBLE AQUIC ARENIC
Cg2	38-48	10YR 6/1	5YR 5/8	C1P	CL	M	FI	HAPLUDULTS
C3	48-64	10YR 7/2(3/4)	10YR 7/2 10YR 6/8	C2F F1,2P	LFS	M	VFR	
Cg4	64-72	10YR 6/1	5YR 5/8	C1P	CL	M	FI	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 5

Tax Map #: 234-16.00-28.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 306

Date: 4/7/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-36 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

24 inch Depth to **Limiting Zone**

48 inch Depth to **Free Water**

25 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/

Notes:

Soil Classification: AQUIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-8	10YR 3/3	NONE	NONE	LS	1FGR	VFR	SOME DISTURBANCE/ COMPACTION/ FILL
BC	8-24	10YR 5/4	"	"	LS	1FSBK	VFR	
C_1	24-44	10YR 6/4	10YR 7/2 10YR 6/8	C1,2D C1,2D	LS	M	VFR	
C_{g2}	44-58	10YR 7/2	10YR 7/1 10YR 4/8	C2F C2D	LS	M	VFR	
C_3	58-72	10YR 7/4	10YR 6/8 10YR 7/2	F1D F1F	S	SG	LO	

Site Evaluator's Signature: [redacted]

Soil Profile Notes

FIELD 6

Tax Map #: 234-16.00-23.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-37

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

66 inch Depth to **Limiting Zone**

>72 WET @ 72 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/GRASS

Notes:

Soil Classification: MUCK HAPLOSAPRIST

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 3/4	NONE	NONE	LS	1FGR	VFR	
E	10-18	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt	18-34	7.5YR 5/6	"	"	SCL	1FSBK	FR	
C1	34-56	10YR 6/6	"	"	SL	M	FR	
C2	56-66	10YR 7/4	"	"	LFS	M	VFR	
C3	66-72	10YR 7/3	10YR 7/2 10YR 6/8	F1,2F F1,2P	LS	M	VFR	
Ap	0-10	10YR 3/4	NONE	NONE	LS	1FGR	VFR	SB-38
E	10-26	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ=68 FW>72 MPI=35
E&Bt	26-46	2.5Y 6/4 / 10YR 5/6	COM, MED, 10YR 5/6 "	SCL LAMELL "	LS / SCL	1FSBK	VFR / FR	0-1%. FLAT/SLBK/SLP
C1	46-68	10YR 7/3	"	"	LFS	M	VFR	AG GRASS LAMELLIC
C2	68-72	10YR 7/3	10YR 7/(C2) 10YR 6/6(B)	F2F F1P	LFS	M	VFR	HAPLOSLTS

Site Evaluator's Signature: _____

Soil Profile Notes

FIELD 6

Tax Map #: 234-16.00-23.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-39

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

60 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

40 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/GRASSES

Notes:

Soil Classification: MESIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 3/4	NONE	NONE	LS	1FGR	VFR	
E	10-22	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt	22-34	7.5YR 5/6	"	"	SCL	1MSBK	FR	
C1	34-46	10YR 6/6	"	"	LFS	M	VFR	
C2	46-54	10YR 7/3	10YR 5/6 FEW, THIN SCL LAMELLA		SCL	M	FR	
C3	54-60	10YR 7/3 (4)	NONE	NONE	LS	M	VFR	
C4	60-72	10YR 7/3	10YR 6/6 (6) 10YR 7/1 (12)	F 1,2P F 1,2F	LS	M	VFR	
Ap	0-10	10YR 3/4	NONE	NONE	LS	1FGR	VFR	SB-40
E	10-20	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ>72, MPI=40 FW>72
Bt	20-34	7.5YR 5/6	"	"	SCL	1MSBK	FR	0-1% NO GRASS
C1	34-46	10YR 6/6	"	"	LS	M	VFR	SOME COMPACTION ~18"
C2	46-64	10YR 7/4	"	"	LS	M	VFR	MESIC HAPLUDULTS
C3	64-72	10YR 7/3	"	"	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 6

Tax Map #: 234-16.00-23.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-41

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

>72 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

25 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE / GRASSES

Notes:

Soil Classification: TYPIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 4/3	none	none	LS	1FGR	VFR	
CB	10-28	2.5Y 6/4	"	"	LS	1FSBK	VFR	
C_1	28-38	10YR 5/6	"	"	LS+	1FSBK	VFR	
C_2	38-62	10YR 6/6(6)	"	"	LS	M	VFR	
C_3	62-72	10YR 7/3	"	"	LS	M	VFR	
Ap	0-10	10YR 4/3	NONE	NONE	LS	1FGR	VFR	SB-42
E	10-24	2.5Y 6/4	"	"	LS	1FSBK	VFR	L2=64; FW>72 MPI=35 WET@72"
Bt	24-34	10YR 5/6	"	"	SCL	1FSBK	FR	0-1% BRUSLOPE AG GRASS
C_1	34-50	10YR 6/6	"	"	LS	M	VFR	MUNIC HARDWARE
C_2	50-64	10YR 7/3	"	"	LS	M	VFR	
C_3	64-72	10YR 7/3	10YR 7/1(2) 10YR 6/6(8)	F1,2F F1,2P	LS	M	VFR	

Site Evaluator's Signature: _____

Soil Profile Notes

FIELD 6

Tax Map #: 234-16.00-23.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-43

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

27 inch Depth to **Limiting Zone**

50 inch Depth to **Free Water**

75 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 3/3	NONE	NONE	LS+	1FGR	FR	
E	10-20	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt1	20-27	10YR 5/6	"	"	SCL+	1FSBK	FR-F	
Bt2	27-34	10YR 5/6	10YR 7/1, 10YR 5/8	C,2P C,2F	CL	1MABK	FI	PEELING
Btg	34-54	10YR 7/1	10YR 6/8	C2P	CL	1MABK	FI	
Cg1	54-60	10YR 7/1	10YR 6/8	C2P	LFS	M	FR	
Cg2	60-72	10YR 7/1	10YR 6/8	F1P	LS	M	VFR	
Ap	0-10	10YR 4/3	NONE	NONE	LS	1FGR	VFR	SB-44
E	10-22	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ=55; FW>72 WET@72
Bt	22-34	10YR 5/6	"	"	SL	1FSBK	FR	MPI=30 0-1% FMT
C1	34-58	10YR 7/3(4)	"	"	LFS	M	VFR	MICA/GLASS ARENIC
C2	58-72	10YR 7/3	10YR 7/1(2) 10YR 6/6(5)	C,2F C,2P	LS	M	VFR	HAPLUDULTS

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 6

Tax Map #: 234-16-00-23.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD; DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-45 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

30 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

75 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE / GRASS

Notes:

Soil Classification: AQUIC MONIC HAPLUDULTS

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 4/3	None	None	LS	1FGR	VFR	
E	10-24	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt1	24-30	10YR 5/4	"	"	SCL	1FSBK	FR	
Bt2	30-38	10YR 5/4(6)	10YR 7/1 10YR 6/8	C1,2P C1,2D	CL	M	FI	— PERCHING
Btg3	38-46	10YR 6/1	10YR 6/8	C2P	CL	M	FI	
C1	46-54	10YR 7/3(4)	7.5YR 5/8	C2P	LS/SL	M	VFR/FR	
Cg3	54-64 64-72	10YR 6/1	10YR 6/8	C2P	CL	M	FI	
Ap	0-10	10YR 4/3	None	None	LS	1FGR	VFR	SB-46
CB	10-30	10YR 6/4	"	"	LS	1FSBK	VFR	LZ=52; FW>72 MPI = 75
C1	30-52	10YR 7/3	"	"	LS	M	VFR	0-1% - SLI BKSLP AG GRASS
C2	52-58	10YR 5/4(6)	10YR 7/1 10YR 5/8	C1,2P C1,2F	SCL	M	FR-FI	TYPIC QUARTZIPSAMMENTS
C3	58-72	10YR 6/6	10YR 6/1 10YR 5/8	C1,2P C1,2D	CL	M	FI	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 7

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-47 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

62 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

75 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 3/3	NONE	NONE	LS+	1FGR	VFR	
E	10-18	2.5Y 6/4	"	"	LS+	1FSBK	VFR	
Bt1	18-34	10YR 5/6	"	"	SCL	1MSBK	FR	
Bt2	34-40	10YR 5/6	10YR 5/8	F1,2F	CL	1MABK	FI	→ MAYBE OCCASIONAL SLOW/PERCH?
C1	40-62	10YR 5/4	NONE	NONE	LS+	M	VFR	
C2	62-72	10YR 7/3	10YR 7/1, 10YR 6/8	F1,2F F1,2P	LS	M	VFR	
Ap	0-10	10YR 4/3	NONE	NONE	LS	1FGR	VFR	SB-48
E	10-22	2.5Y 6/4	"	"	LS	1FSBK	VFR	22-66; FW>72 MPI=50
Bt1	22-34	10YR 5/6	"	"	SCL	1FSBK	FR	0-1% FLAT AG STUBBLE
Bt2	34-46	10YR 5/6	"	"	SCL+	1MSBK	FR-FI	ARENIC HAPLUDULTS
C1	46-66	10YR 6/4(6)	"	"	SL	M	FR	
C2	66-72	10YR 7/3	10YR 7/1(2) 10YR 6/8	F1,2F F1,2P	LS	M	VFR	

Site Evaluator's Signature: [redacted]

Soil Profile Notes

FIELD 7

Tax Map #: 234-16.00-906.00

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: 49

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

70 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 4/3	NONE	NONE	LS	1FGR	VFR	
E	10-24	10YR 5/4	"	"	LS	1FSBK	VFR	
Bt	24-30	10YR 5/6	"	"	SCL	1FSBK	FR	
C_1	30-56	10YR 5/4	"	"	SL	M	FR	
C_2	56-70	10YR 7/3	"	"	LS	M	VFR	
C_3	70-72	10YR 7/3	10YR 6/8 10YR 7/2	F1,2P F1,2F	LS	M	VFR	

Site Evaluator's Signature: _____

Soil Profile Notes

FIELD 7

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-50

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

>72 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

50 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: ARENIC HAPLAQUODS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 4/3	NONE	NONE	LS	1FGR	VFR	
E	10-20	10YR 5/4	"	"	LS	1FSBK	VFR	
Bt_1	20-28	10YR 5/6	"	"	SCL	1FSBK	FR	
Bt_2	28-38	10YR 5/6	"	"	SCL+	2MSBK	FR-FI	
C_1	38-46	10YR 5/4	"	"	SL	M	FR	
C_2	46-56	10YR 7/3(4)	"	"	LS	M	VFR	
C_3	56-72	10YR 7/3	"	"	LS	M	VFR	

Site Evaluator's Signature: _____

Soil Profile Notes

FIELD 7&8

Tax Map #: 234-16.00-906.00 & 21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/10/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-51 906.00

Soil Boring or Test Pit

Relief: FLAT

Slope: 0-1%

>72 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE / GRASS

Notes:

Soil Classification: MESIC HAPLUDULTS

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc.: Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-10	10YR 4/3	None	none	LS	1FGR	VFR	
E	10-23	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt	23-35	10YR 5/6	"	"	SCL	1FSBK	FR	
C_1	35-46	10YR 6/6	"	"	SL	M	FR	
C_2	46-60	10YR 7/4	"	"	LS	M	VFR	
C_3	60-72	10YR 7/3	"	"	LS	M	VFR	
Ap	0-10	10YR 4/3	None	none	LS	1FGR	VFR	SB-52 21.01
E	10-24	10YR 5/4	"	"	LS	1FSBK	VFR	LZ>72; MPI=35 FW>72
Bt	24-35	10YR 5/6	"	"	SCL	1FSBK	FR	0-1% SLT BLKSLT
C_1	35-46	10YR 5/4 (6)	"	"	SL	M	FR	AG STUBBLE
C_2	46-56	10YR 7/4	"	"	LS	M	VFR	MESIC HAPLUDULTS
C_3	56-72	10YR 7/3	"	"	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 8

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/11/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-53 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

24 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

75 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	
E	12-24	2.5Y 7/3	"	"	LS	1FSBK	VFR	
Bt	24-36	10YR 5/6	10YR 5/8 10YR 7/1	F1,2F F1,2P	SCL	1FSBK	FR	
Cg1	36-58	10YR 6/1	10YR 5/8	C1,2P	CL	M	FI	- PISLCHING
C2	58-72	10YR 6/4	10YR 7/2 10YR 6/8	F1,2D F1,2D	LS	M	VFR	
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	SB-54
C1	12-44	2.5Y 7/3	"	"	LS	1FSBK	VFR	LZ=SL; FW>72 MPI=5
C2	44-52	10YR 5/4(6)	"	"	LS+	1FSBK	VFR	LAMELLIC QUARTZIPSAMMENTS
C3	52-64	10YR 7/3	10YR 7/1 10YR 6/8	F1F F1P	LS	M	VFR	
C4	64-72	10YR 7/3	10YR 7/1 10YR 6/8	C2F C1,2P	LS	M	VFR	
								FEW, THIN 10YR 5/4 LS LAMELLAE

Site Evaluator's Signature: _____

Soil Profile Notes

FIELD 8

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/11/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD; DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-55 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

27 inch Depth to **Limiting Zone**

62 inch Depth to **Free Water**

50 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/3	None	None	LS	1FGR	VFR	
E	12-27	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt1	27-38	10YR 5/6	10YR 5/8 10YR 7/1	F1F F1P	SCL	1FSBK	FR	
Bt2	38-52	10YR 6/4(6)	10YR 7/1 10YR 6/8	C1,2P C1,2D	SCL+	1FSBK	FR-FI	
C1	52-59	10YR 7/3	10YR 7/1 10YR 6/8	C2F C2P	LFS	M	VFR	
Cg2	59-72	10YR 7/2	10YR 6/8	C2P	LFS	M	VFR	
Ap	0-12	10YR 3/3	None	None	LS	1FGR	VFR	SB-56
E	12-34	2.5Y 6/4	"	"	LS	1FSBK	VFR	LZ=52; FW>72 MPI=35
E & Bt	34-42	2.5Y 6/4 & 10YR 5/6	COMPMED, 10YR 5/6 "	SL LAMELL "	LS & SL	1FSBK	VFR & FR	2-3% BACKSLOPE AG STUBBLE
Bt	42-52	10YR 5/6	None	NONE	SCL	1FSBK	FR	ARENIC HAPLUDULTS
C1	52-68	10YR 7/3	10YR 7/2 10YR 6/8	C2F F1,2P	LS	M	VFR	
C2	68-72	10YR 6/6	10YR 5/8	F1,2D	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 8

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR303

Date: 4/11/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-57 | Soil Boring or Test Pit | Relief: FLAT | Slope: 0-1%

62 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

20 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE

Notes:

Soil Classification: TYPIC QUARTZIPSAMMENTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 4/3	none	none	LS	1FGR	VFR	
CB	12-36	2.5Y 6/4	"	"	LS	1FSBK	VFR	
C_1	36-62	10YR 7/3	"	"	LS	M	VFR	
C_2	62-68	10YR 6/6	10YR 5/8 10YR 6/1	C2D C2P	SCL++	M	FR-FI	
C_3	68-72	10YR 7/1	10YR 6/8	C2P	LS	M	VFR	

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 9

Tax Map #: 234.16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/11/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-58 | Soil Boring or Test Pit | Relief: FLAT/ | Slope: 0-1%

56 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE/

Notes:

Soil Classification: MONIC HAPLOUDOLLS

Horizon	Depth	Colors: Matrix	Colors: Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/4	NONE	NONE	LS	1FGR	VFR	
E	12-36	2.5Y 6/4	"	"	LS	1FSBK	VFR	
Bt	36-44	10YR 5/6	"	"	SCL	1FSBK	FR	
C1	44-56	10YR 6/4	"	"	LS	M	VFR	
C2	56-64	10YR 7/3	10YR 7/6 10YR 5/8	C2F C2P	SCL++	M	FI-FR	
Cg3	64-72	10YR 6/1	10YR 6/8	MIP	SCL++	M	FI-FR	
Ap	0-12	10YR 3/3	NONE	NONE	LS	1FGR	VFR	SB-59
CB	12-24	2.5Y 6/3(4)	"	"	LS	1FSBK	VFR	LZ=24, FW>72 MPI=75
C1	24-38	10YR 7/3	10YR 7/1 10YR 6/8	F1,2F F1,2P	LS	M	VFR	1-2% BK SLOPE AG STUBBLE
Cg2	38-72	10YR 6/1	5YR 5/8 10YR 5/8	C1,2P C1,2P	CL	M	PERCHING? FI	AQUIC QUARTZ IPSAMMENTS

Site Evaluator's Signature: [signature]

Soil Profile Notes

FIELD 9

Tax Map #: 234-16.00-21.01

Job Number: 31-DS20-SHWT

Client / Location: WRA / CR 303

Date: 4/11/2020

Accent Environmental, LLC
PO Box 788
Millsboro, DE 19966
www.aedelmarva.com

Evaluated by or under the supervision of William Gangloff, PhD;
DE license # D-4455; ARCPACS CPSS/CPAg # 24747; VA CPSS

Profile #: SB-60 | Soil Boring or Test Pit | Relief: FLAT / | Slope: 0-1%

44 inch Depth to **Limiting Zone**

>72 inch Depth to **Free Water**

35 **MPI** Estimated Permeability

OH Utilities: **Y** / **N**

Vegetation: AG STUBBLE /

Notes:

Soil Classification: AQUIC ARENIC HAPLUDULTS

Horizon	Depth	Colors Matrix	Colors Redox	Redox Desc. Ab. S. Con.	Texture	Structure	Consistence	Notes
Ap	0-12	10YR 3/4	None	None	LS	1FGR	VFR	
E	12-38	2.5Y 6/4	"		LS	1FSBK	VFR	
Bt1	38-44	10YR 5/6	"		SCL	1FSBK	FR	
Bt2	44-48	10YR 5/4	10YR 7/1 10YR 6/8	F1,2P F1,2P	SCL	1FSBK	FR	
C1	48-54	10YR 7/3	10YR 7/1 10YR 6/8	C1,2F F1P	LS	M	VFR	
Cg2	54-66	10YR 7/1	10YR 6/8	C2P	SCL	M	FR	
Cg3	66-72	10YR 6/1	10YR 6/8	C2P	CL	M	FI	
Ap	0-12	10YR 3/4	None	None	LS	1FGR	VFR	SB-61
E1	12-24	2.5Y 6/4	"	"	LS	1FSBK	VFR	L2-36; FW>72 MPI=50
E2	24-36	10YR 7/3	"	"	LS	1FSBK	VFR	0-1% FLAT AG STUBBLE
Bt	36-40	10YR 5/6	10YR 7/1 10YR 5/8	F1P F1F	SCL	1FSBK	FR	AQUIC ARENIC HAPLUDULTS
Cg1	40-54	10YR 6/1	10YR 6/8	C2P	SCL+	M	FR-FI	
Cg2	54-72	10YR 7/1	10YR 6/8	C2P	LS	M	VFR	

Site Evaluator's Signature