



SOIL SURVEY OLD UNION # 2 AREA

FOR

**DSM-DESIGN GROUP, LLC
JASPER, ALABAMA 35501**

Cleo Stubbs Registered Professional Soils Classifier – Reg. # 71

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Over View of Project Site

DSM requested Delta Natural Resource Services, Inc. to soil map several parcels of land being considered for other uses. Most of the 678 acres of land is located in southern part of Winston County, Alabama near the community of Poplar Springs. A small portion of the acreage being considered is just across the Winston County line in Walker County, Alabama.

The landscape is typical for the Cumberland Plateau Physiographic Region of the state. It consists of narrow undulating ridges and moderately steep to very steep side slopes. Rock out crop areas are a common feature in many areas where slopes are steep. Some areas within the project boundaries have been disturbed by previous mining activities. Most areas are woodland with a few non wooded areas scattered throughout the project boundaries. The forested areas are mainly loblolly pine and mixed hardwood. The steep side slopes are predominantly hardwood trees. The understory throughout consist of grasses, vines, and shrubs such as blue stem, honey suckle, wild grape, gallberry, sparkle berry and blackberry briars.

The geology of the area is mainly sandstone and shale of the Cumberland Plateau Physiographic Region; however, sandstone is the dominant parent rock where soils were mapped for this project. Typically, the soils are defined as moderately deep to shallow to bed rock. The surface soil is mainly sandy loam and the subsoil is primarily sandy clay loam with a few sub-horizons of sandy clay or clay loam. Soils in the area developed from shale parent material, have loam surfaces and silty clay or clay loam subsoils. The dominant soils in the area are Nauvoo, Sipsey and Bankhead on the upland and Kirkville soils along drainageways. The Nauvoo, Sipsey and Bankhead soils are well drained. The Kirkville soils are moderately well to somewhat poorly drained.

The soils in the project area were mapped according to the guidelines and standards stated in the National Soil Survey Handbook. Soil Scientist used aerial photographs and topographic quadrangle for reference and the placement of soil delineation boundaries. The soils within the project boundary occur in an orderly pattern that is related to geology, landform, and slope. Typically, each kind of soil is associated with a specific kind of geology and landscape or a segment of the landscape. The scientist digs holes to study the soil profile in several locations across the landscape/landform. The soil profiles are characterized and given a soil series name. During these observations, the scientist observes many soil properties including the boundaries between different soils. The identified boundaries are outlined on an aerial photograph or topographic quadrangle. Each boundary has unique characteristics such as soil slope, landform/landscape, surface thickness, etc. The soil boundary with a common set of characteristics is assigned to a "Soil Mapping Unit" taken from the county soil survey legend. The Soil Mapping Unit is a group of soils or similar soils with similar interpretations and use.

Soils have many uses, some of which are listed on the interpretive sheets contained in this document. These sheets summarize the various soil properties, uses, and limitations for each soil series mapped in the project area. Additional information is available on the USDA-NRCS Web soil Survey.

Representative Soil Profiles

Nauvoo Series Representative Soil Profile

A – 0 to 7 inches: dark brown (10YR 4/3) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Bt1 – 7 to 24 inches; yellowish red (5YR 4/6) sandy clay loam; weak medium subangular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Bt2 – 24 to 34 inches; yellowish red (10YR 5/4) clay loam; weak medium granular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Cr – 34" soft sandstone gravel mix

Representative Soil Profiles

Sipsey Series Representative Soil Profile

A – 0 to 5 inches: dark brown (10YR 3/3) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

E – 5 to 11 inches: dark brown (10YR 5/4) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Bt1 – 11 to 24 inches; yellowish brown (10YR 5/4) sandy clay loam; weak medium subangular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Bt2 – 24 to 33 inches; strong brown (7.5YR 5/8) sandy loam; weak medium granular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Cr – 33" soft sandstone

Representative Soil Profiles

Bankhead Series Representative Soil Profile

A – 0 to 5 inches: very dark grayish brown (10YR 3/3) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

BW1 – 5 to 17 inches: brownish yellow (10YR 6/6) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

BW2 – 17 to 25 inches; yellowish brown (10YR 5/4) sandy clay loam; weak fine subangular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

R– 25" soft sandstone

Representative Soil Profiles

Albertville Series Representative Soil Profile

A – 0 to 7 inches: dark brown (10YR 3/3) sandy loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Bt1 – 7 to 14 inches: brownish yellow (10YR 6/6) silty clay loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Bt2– 14 to 31 inches; strong brown (7.5YR 6/6) silty clay; moderate medium subangular blocky structure; firm; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Bt3 – 31 to 40 inches; strong brown (7.5YR 5/8) silty clay; common medium prominent yellow (10YR 7/6) mottles; moderate medium granular blocky structure; friable; few medium roots; few coarse fragments; strongly acid; gradual wavy boundary.

Representative Soil Profiles

Kirkville Series Representative Soil Profile

A – 0 to 5 inches: dark grayish brown (10YR 4/2) loam; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

BW1 – 5 to 14 inches: dark brown (10YR 4/3) loam; common medium distinct yellowish brown (10YR 5/4) mottles; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Bg1 – 14 to 44 inches: grayish brown (10YR 5/2) sandy loam; common medium distinct yellowish brown (10YR 5/4) mottles; weak fine granular structure; very friable; many medium and fine roots; strongly acid; clear wavy boundary.

Representative Soil Profiles

Brilliant Series Representative Soil Profile

Ap – 0 to 7 inches: very dark grayish brown (10YR 3/1) extremely channery sandy loam; massive; very friable; 70 percent coarse fragments; strongly acid; clear wavy boundary.

C– 7 to 48 inches: dark gray (5Y 5/1) extremely channery y loam; massive; very friable; 70 percent coarse fragments; strongly acid; clear wavy boundary.

Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 100C - Nauvoo and Sipsey soils, 6 to 10 percent slopes

Component: Nauvoo (50%)

The Nauvoo component makes up 50 percent of the map unit. Slopes are 6 to 12 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone and shale. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Sipsey (40%)

The Sipsey component makes up 40 percent of the map unit. Slopes are 6 to 12 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 100D - Nauvoo and Sipsey soils, 10 to 15 percent slopes

Component: Nauvoo (35%)

The Nauvoo component makes up 35 percent of the map unit. Slopes are 6 to 12 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone and shale. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Sipsey (50%)

The Sipsey component makes up 40 percent of the map unit. Slopes are 6 to 12 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 140D - Albertville and Sipsey soils, 6 to 15 percent slopes

Component: Albertville (50%)

The Albertville component makes up 50 percent of the map unit. Slopes are 6 to 15 percent. This component is on ridges and hillslopes. The parent material consists of loamy residuum weathered from sandstone and shale. Depth to a root restrictive layer, bedrock, paralithic, is 40 to 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Sipsey (40%)

The Sipsey component makes up 40 percent of the map unit. Slopes are 6 to 12 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 110F - Sipsey-Bankhead complex, 15 to 45 percent slopes

Component: Sipsey (55%)

The Sipsey component makes up 55 percent of the map unit. Slopes are 15 to 30 percent. This component is on hillslopes. The parent material consists of loamy residuum weathered from sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Component: Bankhead (30%)

The Bankhead component makes up 30 percent of the map unit. Slopes are 15 to 45 percent. This component is on hillslopes. The parent material consists of residuum weathered from sandstone. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 550F- Brilliant extremely channery loam, 6 to 45 percent slopes

Component: Brilliant (85%)

The Brilliant component makes up 85 percent of the map unit. Slopes are 6 to 40 percent. This component is on hillslopes. The parent material consists of alkaline coal extraction mine spoil. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 0 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

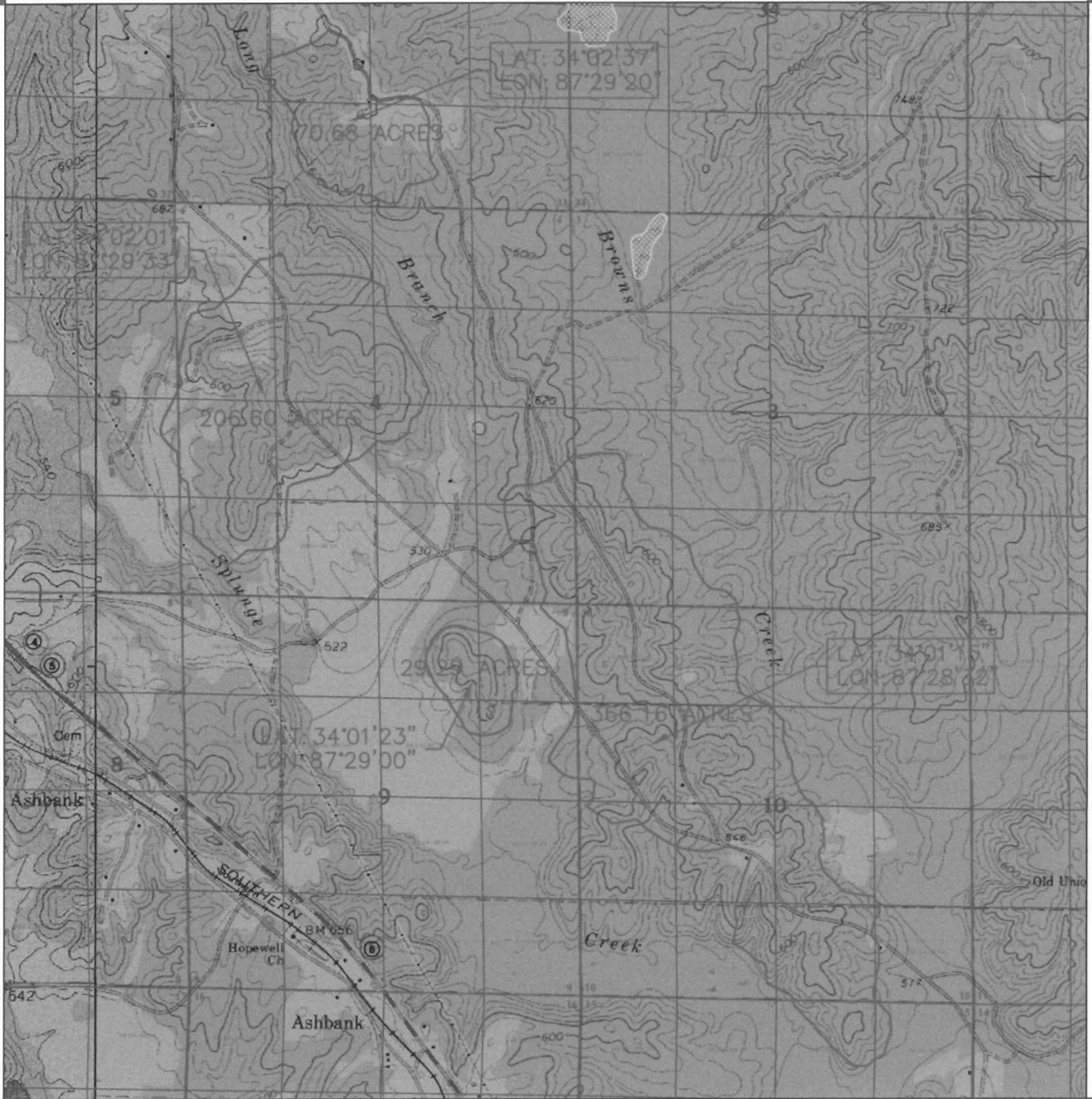
Map Unit Description

Winston County, Alabama

Minor map unit components are excluded from this report

Map unit: 210- Kirkville, frequently flooded, 0 to 2 percent slopes

Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium derived from sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria.



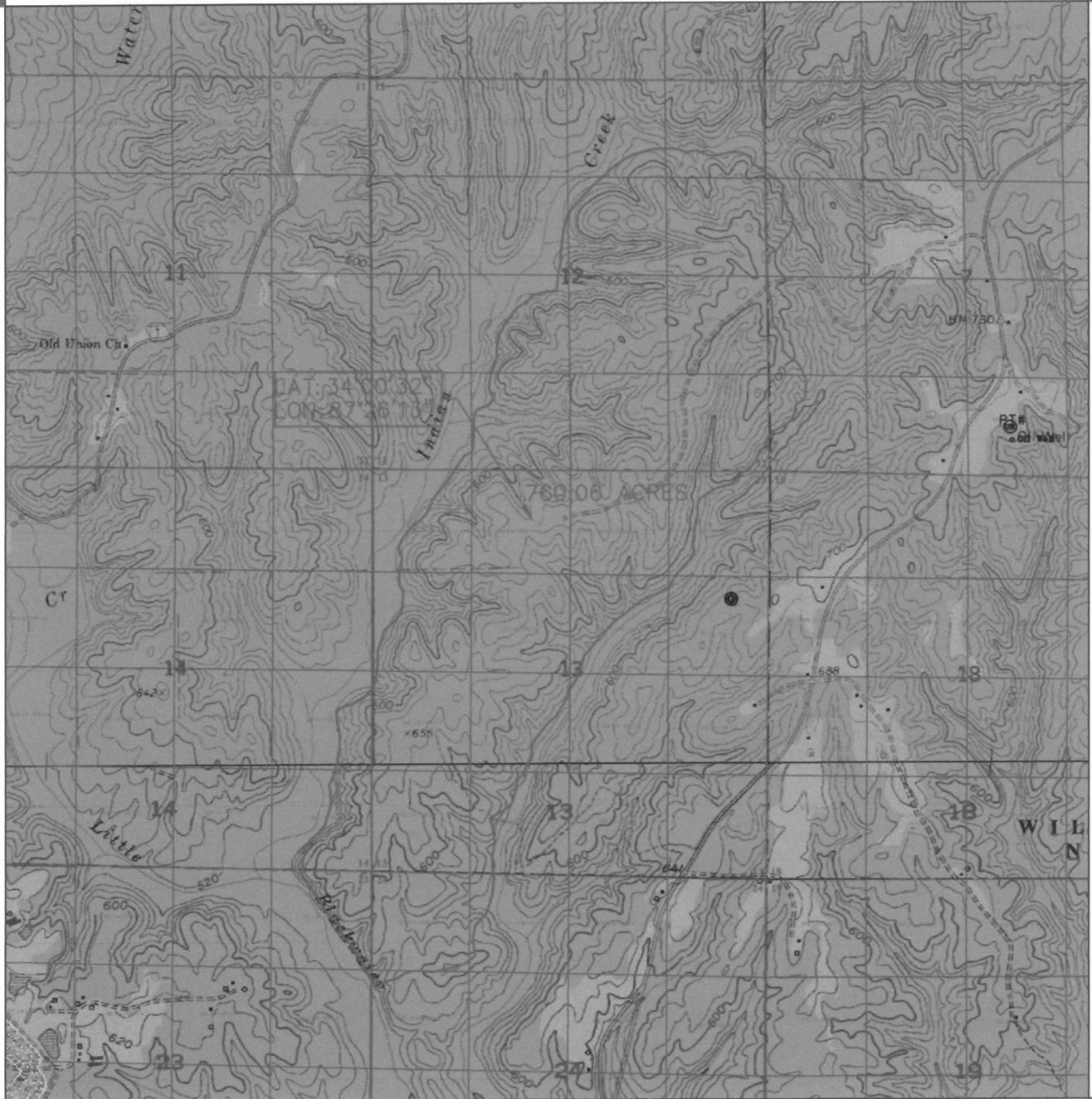
Birmingham Coal & Coke, Inc Old Union #2 Mine, P-39--

DRAWN BY: Z.B.W.	DATE: 06/04/09	T. 11 S., R. 9 W., SEC. 33 T. 12 S., R. 9 W. SEC. 3, 4, 5, 9, 10, 15 WINSTON CO., AL
APPROVED BY: J.D.M.	DATE: 06/04/09	
SCALE: 1" = 2000'	SHEET: 1 OF 2	LYNN & POPLAR SPRINGS USGS QUADRANGLES



DESIGN GROUP, LLC
ENGINEERING / SURVEYING

1400 VIKING DRIVE
JASPER, ALABAMA 35501
TELEPHONE: (205) 221-6262

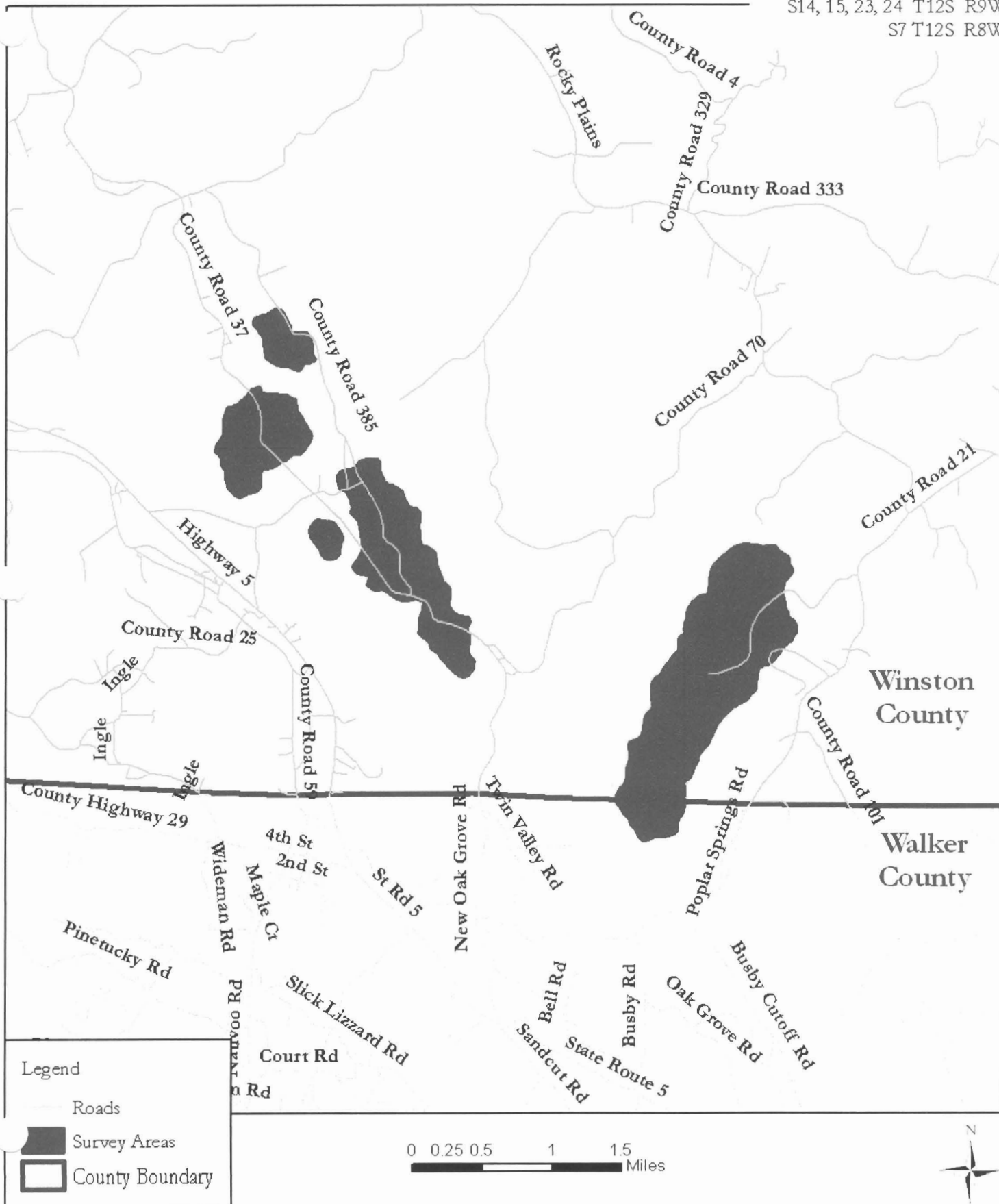


Birmingham Coal & Coke, Inc
Old Union #2 Mine, P-39--

DRAWN BY: Z.B.W.	DATE: 06/04/09	T. 12 S., R. 8 W., SEC. 7 T. 12 S., R. 9 W. SEC. 12, 13, 14, 23, 24 WALKER & WINSTON CO., AL
APPROVED BY: J.D.M.	DATE: 06/04/09	
SCALE: 1" = 2000'	SHEET: 2 OF 2	NAUVOO & POPLAR SPRINGS USGS QUADRANGLES

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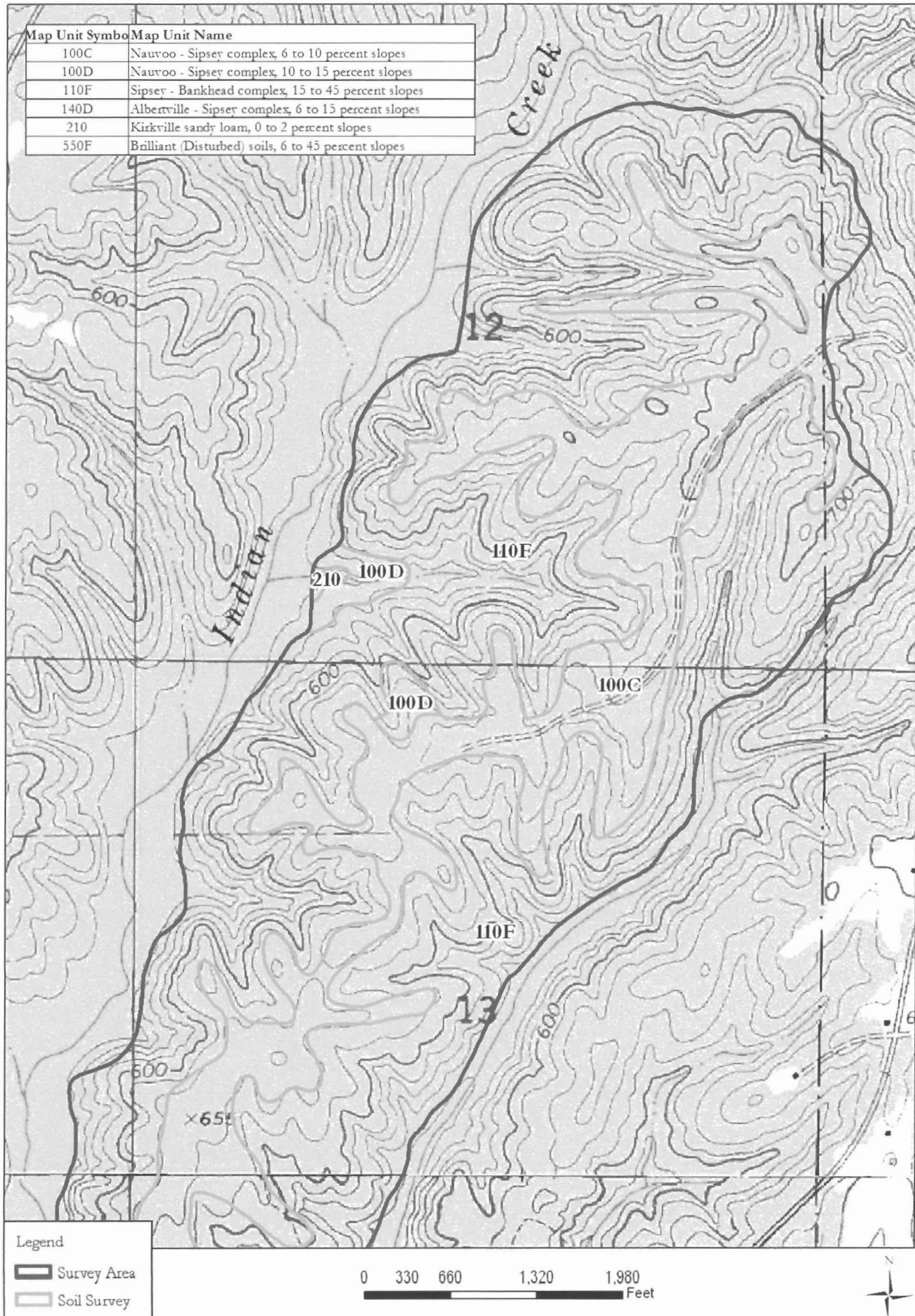
Poplar Springs SW DOQ
Poplar Springs SE DOQ
S33 T11S R9W
S3, 4, 9, 10, 12, 13 T12S R9W
S14, 15, 23, 24 T12S R9W
S7 T12S R8W



Alabama
Winston County
August 2009

Soil Survey
for
DSM Design Group, LLC
Old Union #2 Mine

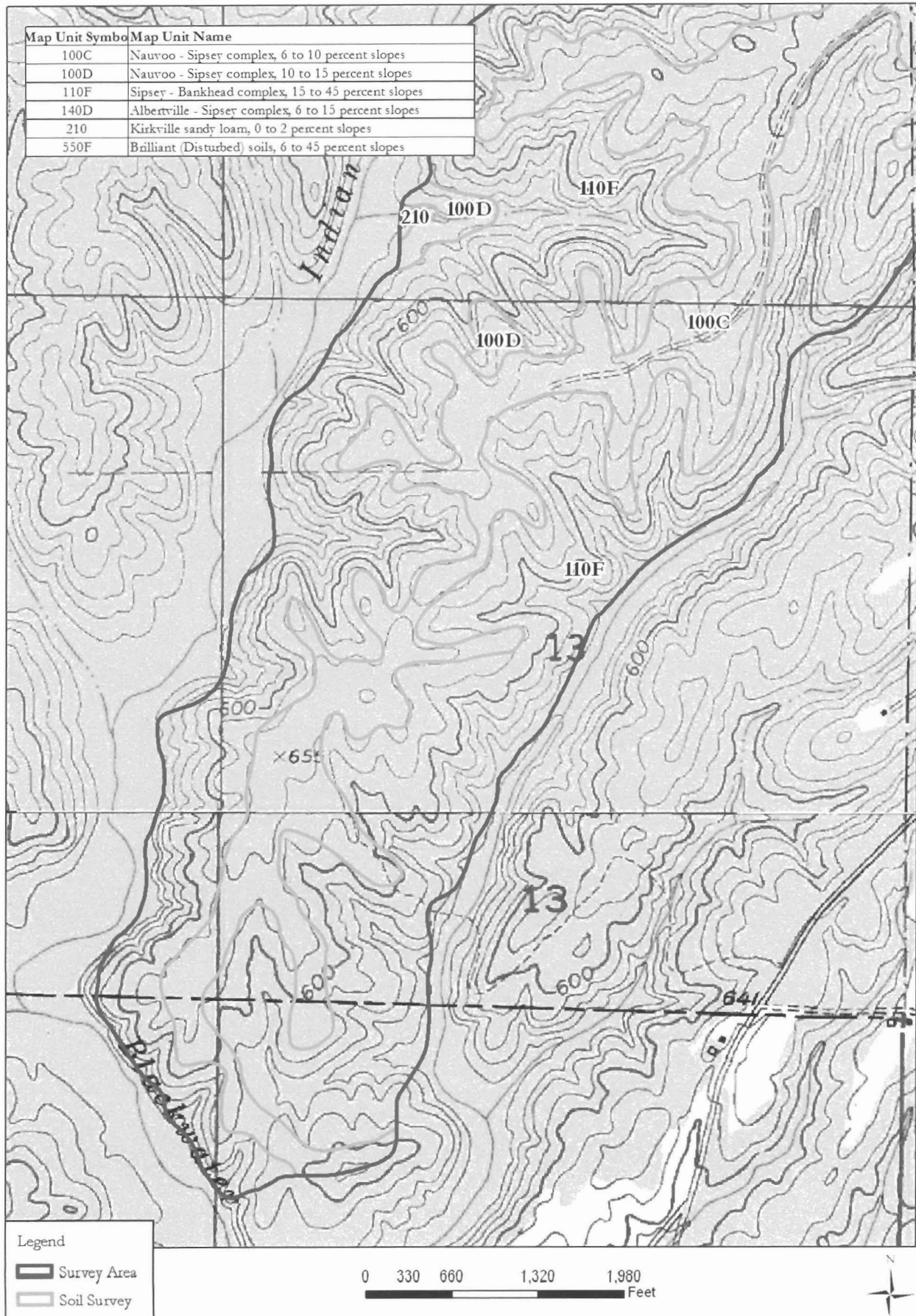
Poplar Springs SW DOQ
Poplar Springs SE DOQ
S12, 13 T12S R9W
S7 T12S R8W



Alabama
Winston County
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Poplar Springs SW DOQ
Poplar Springs SE DOQ
S12, 13, 14, 23, 24 T12S R9W



Alabama
Winston County
August 2009

Soil Survey
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Poplar Springs SW DOQ
Poplar Springs SE DOQ
S12, 13 T12S R9W
S7 T12S R8W

Map Unit Symbol	Map Unit Name
100C	Nauvoo - Sipsey complex, 6 to 10 percent slopes
100D	Nauvoo - Sipsey complex, 10 to 15 percent slopes
110F	Sipsey - Bankhead complex, 15 to 45 percent slopes
140D	Albertville - Sipsey complex, 6 to 15 percent slopes
210	Kirkville sandy loam, 0 to 2 percent slopes
550F	Brilliant (Disturbed) soils, 6 to 45 percent slopes



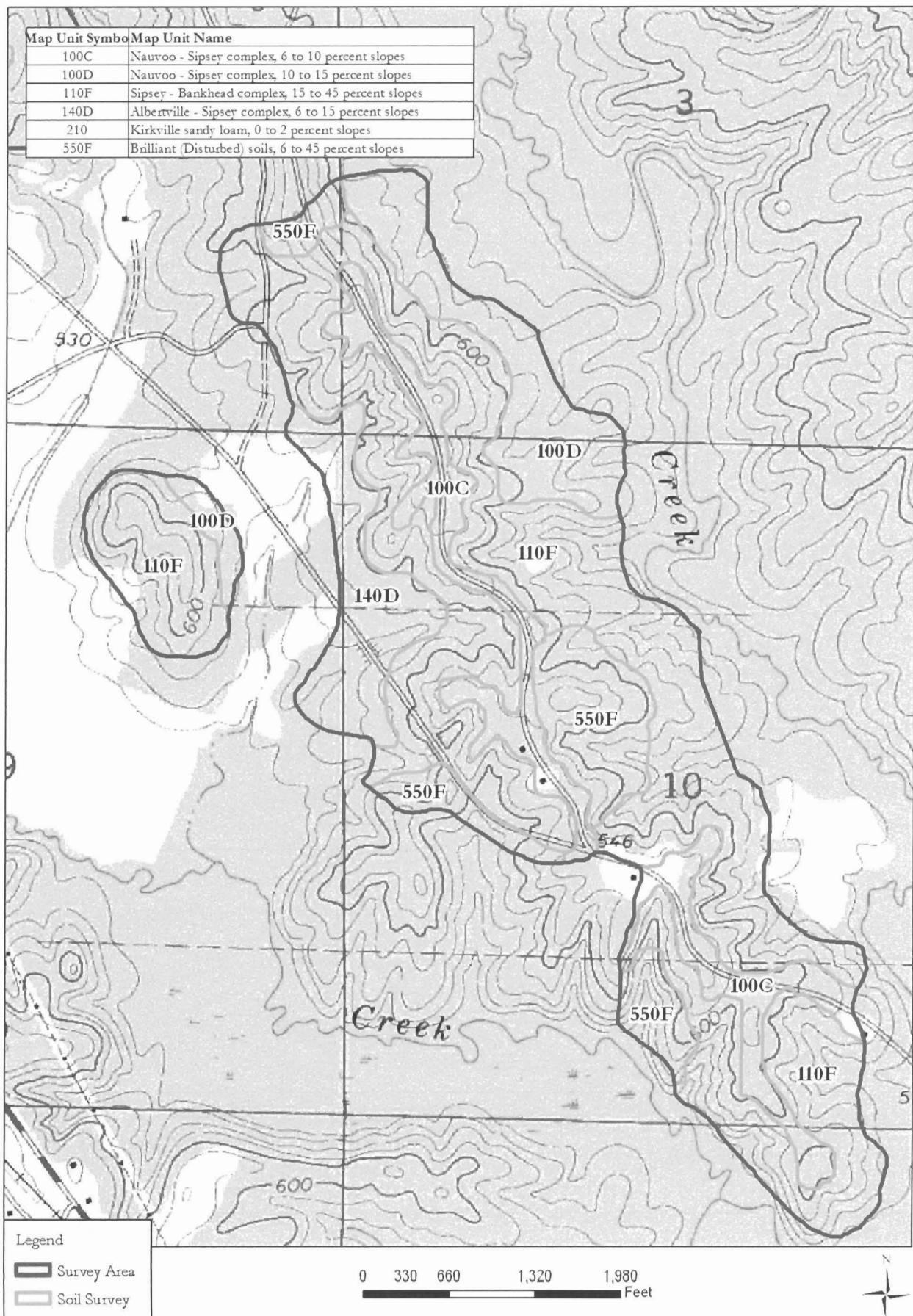
Legend

-  Survey Area
-  Soil Survey

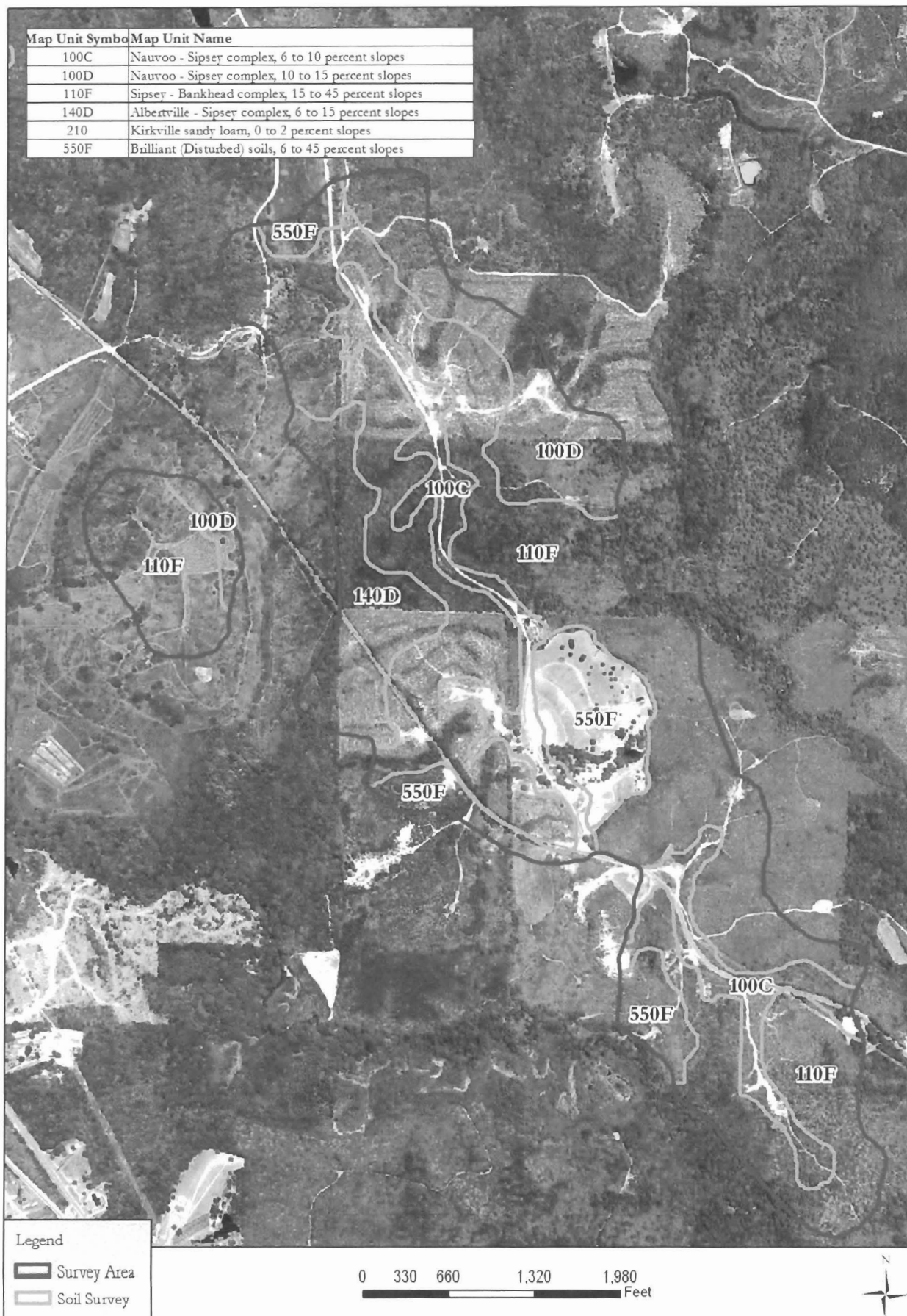
0 330 660 1,320 1,980
Feet



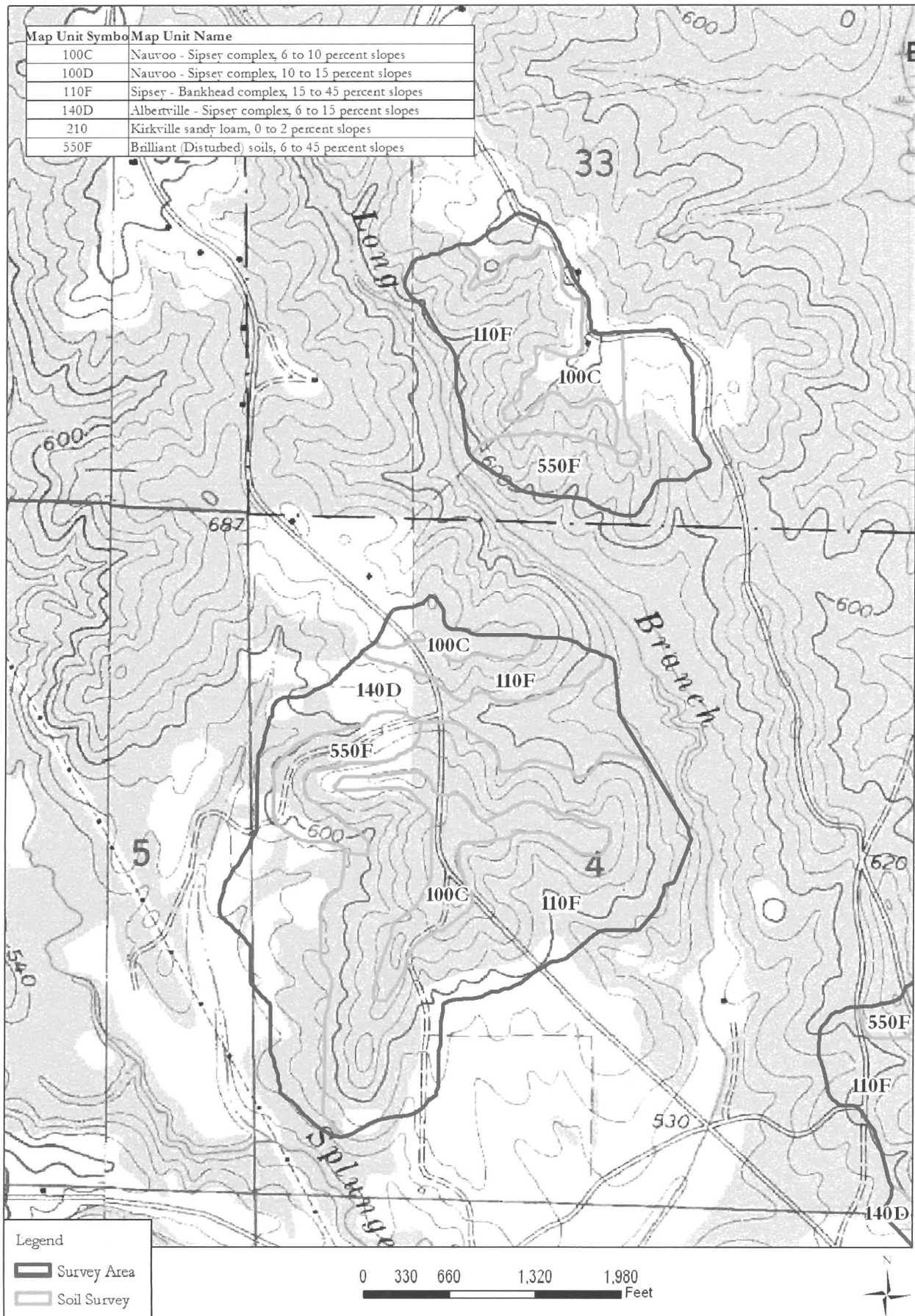
Soil Survey
for
DSM Design Group, LLC
Old Union #2 Mine



Soil Survey
for
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Old Union #2 Mine



Alabama
Winston County
August 2009

Soil Survey
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Old Union #2 Mine

Poplar Springs SW DOQ
S33 T11S R9W
S4 T12S R9W

Map Unit Symbol	Map Unit Name
100C	Nauvoo - Sipsey complex, 6 to 10 percent slopes
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210	Kirkville sandy loam, 0 to 2 percent slopes
550F	Brilliant (Disturbed) soils, 6 to 45 percent slopes



CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)WOODLAND SUITABILITY (C)WINTERFAXSWILDLIFE HABITAT SUITABILITY (D)

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

FOOTNOTES

F. ESTIMATES BASED ON DATA FROM ONE PEDON AND DATA FROM SIMILAR SOILS
F. RATINGS BASED ON NSP PART II SECTION 403.
C. RATINGS BASED ON SOILS MEMO-26 AND SIMILAR SOILS IN PROGRESS REPORT W-10.
C. RATINGS BASED ON SOILS MEMO-74.

SERIES: 128, 129, 125, 117, 118, 119

REV. JHB, 3-82

LITHIC MAPLUDDULTS, LOAMY, SILICEOUS, THERMIC

THE GORGAS SERIES CONSISTS OF SHALLOW, WELL DRAINED, MODERATELY RAPIDLY PERMEABLE SOILS THAT FORMED IN SANDSTONE FSIQUUM ON RIDGETOPS AND SIDESLOPES. TYPICALLY, THE SURFACE LAYER IS DARK GRAYISH BROWN LOAMY SAND ABOUT 6 INCHES THICK. THE SUBSOIL IS YELLOWISH BROWN, SANDY LOAM ABOUT 8 INCHES THICK OVERLYING HARD SANDSTONE BEDROCK. SLOPES RANGE 2 TO 45 PERCENT.

ESTIMATED SOIL PROPERTIES (A)											
DEPTH: (IN.)	USDA TEXTURE	UNIFIED	ASHTO	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.	LIQUID LIMIT	PLASTICITY INDEX	PERCENT OF MATERIAL LESS THAN 0.075 MM	PERCENT OF MATERIAL LESS THAN 0.05 MM	PERCENT OF MATERIAL LESS THAN 0.025 MM	PERCENT OF MATERIAL LESS THAN 0.015 MM	PERCENT OF MATERIAL LESS THAN 0.0075 MM
0-6	SL, FSL, L	SM, ML, SM-SC, CL-ML	A-4, A-2	0-5	180-100	80-100	70-90	15-65	<30	NP-7	
0-6	GF-SL, GR-LS, GR-L	SM, ML, GM, GM-GC	A-4, A-2	0-10	160-85	50-85	40-65	14-65	<30	NP-7	
0-6	LS	SM-SC, SM, ML	A-4, A-2-4	0-10	160-85	50-75	40-65	14-65	<30	NP-7	
6-14	SL, GR-SL, L	SM, ML, GM, GM-GC	A-4, A-2	0-15	155-100	55-100	45-100	25-65	<30	NP-7	
14	TUWR										
DEPTH: (IN.)	MOISTURE DENSITY (G/CM ³)	BULK DENSITY (G/CM ³)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS	WIND ERODIBILITY	ORGANIC MATTER	CORROSIVITY STEEL (CONCRETE)
0-6	5-20	-	2.0-6.0	0.10-0.14	4.5-6.5	-	LOW	1.20	1	-	1.5-2
0-6	5-20	-	2.0-6.0	0.08-0.15	4.5-6.5	-	LOW	1.17	1	-	1.5-2
0-6	5-20	-	2.0-6.0	0.08-0.15	4.5-6.5	-	LOW	1.15	1	-	1.5-2
6-14	10-25	-	2.0-6.0	0.08-0.15	4.5-5.5	-	LOW	1.17	1	-	1.5-2
14											
FLOODING											
HIGH WATER TABLE											
FREQUENCY	DURATION	MONTHS	DEPTH (FT)	KIND	MONTHS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS	DEPTH (IN)	HARDNESS
NONE			>6.0					10-20	HARD		

SANITARY FACILITIES (B)											
CONSTRUCTION MATERIAL (P)											
SEPTIC TANK	2-15% SEVERE-DEPTH TO ROCK							2-25% POOR-AREA RECLAIM, THIN LAYER			
ABSORPTION FIELDS	15% SEVERE-DEPTH TO ROCK, SLOPE							25% POOR-AREA RECLAIM, THIN LAYER, SLOPE			
SEWAGE LAGOON AREAS	2-7% SEVERE-SEEPAGE, DEPTH TO ROCK							IMPROBABLE-EXCESS FINES			
	7% SEVERE-SEEPAGE, DEPTH TO ROCK, SLOPE										
SANITARY LANDFILL (TRENCH)	2-15% SEVERE-DEPTH TO ROCK, SEEPAGE							IMPROBABLE-EXCESS FINES			
	15% SEVERE-DEPTH TO ROCK, SEEPAGE, SLOPE										
SANITARY LANDFILL (AREA)	2-15% SEVERE-DEPTH TO ROCK, SEEPAGE							POOR-AREA RECLAIM, SMALL STONES, THIN LAYER			
	15% SEVERE-DEPTH TO ROCK, SEEPAGE, SLOPE										
DAILY COVER FOR LANDFILL	2-15% POOR-AREA RECLAIM, THIN LAYER										
	15% POOR-AREA RECLAIM, THIN LAYER, SLOPE										

BUILDING SITE DEVELOPMENT (F)											
WATER MANAGEMENT (E)											
SHALLOW EXCAVATIONS	2-15% SEVERE-DEPTH TO ROCK							SEVERE-THIN LAYER, PIPING			
	15% SEVERE-DEPTH TO ROCK, SLOPE										
SWELLINGS WITHOUT BASEMENTS	2-15% SEVERE-DEPTH TO ROCK							SEVERE-NO WATER			
	15% SEVERE-SLOPE, DEPTH TO ROCK										
SWELLINGS WITH BASEMENTS	2-15% SEVERE-DEPTH TO ROCK							DEEP TO WATER			
	15% SEVERE-DEPTH TO ROCK, SLOPE										
SMALL COMMERCIAL BUILDINGS	2-8% SEVERE-DEPTH TO ROCK							2-3% DROUGHTY, DEPTH TO ROCK			
	8% SEVERE-SLOPE, DEPTH TO ROCK							3% DROUGHTY, DEPTH TO ROCK, SLOPE			
LOCAL ROADS AND STREETS	2-15% SEVERE-DEPTH TO ROCK							2-8% DEPTH TO ROCK			
	15% SEVERE-DEPTH TO ROCK, SLOPE							8% SLOPE, DEPTH TO ROCK			
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	2-15% SEVERE-THIN LAYER							2-8% DROUGHTY, DEPTH TO ROCK			
	15% SEVERE-SLOPE, THIN LAYER							8% SLOPE, DROUGHTY, DEPTH TO ROCK			

REGIONAL INTERPRETATIONS

MLRA(S): 133A, 133B, 152B

REV. WMK, 7-85

AERIC FLUVAQUENTS, FINE-LOAMY, SILICEOUS, ACID, THERMIC

THE MANTACHIE SERIES CONSISTS OF SOMEWHAT POORLY-DRAINED, LOAMY SOILS ON FLOOD PLAINS. THESE SOILS HAVE FORMED IN LOAMY ALLUVIUM. TYPICALLY, THEY HAVE A DARK GRAYISH-BROWN LOAM SURFACE LAYER AND MOTTLED BROWN LOAM UPPER SUBSOIL, BECOMING GRAY WITH DEPTH. SLOPES ARE 0 TO 3 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES																													
ANNUAL AIR TEMPERATURE		FROST FREE DAYS		ANNUAL PRECIPITATION		ELEVATION (FT)		DRAINAGE CLASS		SLOPE (PCT)																			
								SP		0-3																			
ESTIMATED SOIL PROPERTIES (A)																													
DEPTH (IN.)		USDA TEXTURE		UNIFIED		AASHTO		FRACT. >10 IN		FRACT. 3-10 IN		PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.		CLAY (PCT)															
								(PCT)		(PCT)		4 10 40 200		(PCT)															
0-11		SIL		ML, CL-ML, CL		A-4		0		0		100 100 90-100 70-85		10-20															
0-11		CL		CL-ML, CL		A-4, A-6		0		0		100 100 90-100 70-80		28-32															
0-11		FSL, SL, L		CL-ML, SC-SM, SM, ML		A-4				0-5		95-100 90-100 60-85 40-60		18-20															
11-61		L, CL, SCL		CL, SC, SC-SM, CL-ML		A-4, A-6				0-5		95-100 90-100 80-95 45-80		18-34															
DEPTH (IN.)		LIQUID LIMIT		PLASTICITY INDEX		MOIST BULK DENSITY (G/CM3)		PERMEABILITY (IN/HR)		AVAILABLE WATER CAPACITY (IN/IN)		SOIL REACTION (PH)		SALINITY (MMHOS/CM)		SAR		CEC (ME/100G)		CACO3 (PCT)		GYPSUM (PCT)							
0-11		15-30		NP-10		1.40-1.50		0.6-2.0		0.16-0.20		4.5-5.5																	
0-11		20-40		5-15		1.50-1.60		0.6-2.0		0.10-0.15		4.5-5.5																	
0-11		15-20		NP-5		1.50-1.60		0.6-2.0		0.16-0.20		4.5-5.5																	
11-61		20-40		5-15		1.50-1.60		0.6-2.0		0.14-0.20		4.5-5.5																	
DEPTH (IN.)		ORGANIC MATTER		SHRINK-SWELL		EROSION FACTORS		WIND EROD.		WIND EROD.		CORROSIVITY																	
		(PCT)		POTENTIAL		K Kf T		GROUP		INDEX		STEEL CONCRETE																	
0-11		1-3		LOW		.37 .37 5						HIGH HIGH																	
0-11		1-3		LOW		.28 .28 5																							
0-11		1-3		LOW		.28 .28 5																							
11-61				LOW		.28 .28																							
FLOODING						HIGH WATER TABLE			CEMENTED PAN		BEDROCK		SUBSIDENCE		HYD		POTENTIAL												
						DEPTH			KIND		MONTHS		DEPTH		HARDNESS		DEPTH		HARDNESS		INIT. TOTAL GRP		FROST						
FREQUENCY						DURATION			MONTHS			(FT)			(IN)			(IN)			(IN)			(IN)			ACTION		
RARE-COMMON						BRIEF			JAN-MAR			1.0-1.5			APPARENT			DEC-MAR			>60						C		

SANITARY FACILITIES (B)		CONSTRUCTION MATERIAL (B)	
SEPTIC TANK ABSORPTION FIELDS	RARE: SEVERE-WETNESS COMMON: SEVERE-FLOODING, WETNESS	ROADFILL	FAIR-WETNESS
SEWAGE LAGOON AREAS	RARE: SEVERE-WETNESS COMMON: SEVERE-FLOODING, WETNESS	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	RARE: SEVERE-WETNESS COMMON: SEVERE-FLOODING, WETNESS	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	RARE: SEVERE-WETNESS COMMON: SEVERE-FLOODING, WETNESS	TOPSOIL	FAIR-TOO CLAYEY, SMALL STONES
DAILY COVER FOR LANDFILL	POOR-WETNESS	WATER MANAGEMENT (B)	
		POND RESERVOIR	MODERATE-SEEPAGE
BUILDING SITE DEVELOPMENT (B)		AREA	
SHALLOW EXCAVATIONS	SEVERE-WETNESS	EMBANKMENTS DIKES AND LEVEES	SEVERE-PIPING, WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-FLOODING, WETNESS	EXCAVATED PONDS AQUIFER FED	MODERATE-SLOW REFILL
DWELLINGS WITH BASEMENTS	SEVERE-FLOODING, WETNESS	DRAINAGE	RARE: FAVORABLE COMMON: FLOODING
SMALL COMMERCIAL BUILDINGS	SEVERE-FLOODING, WETNESS	IRRIGATION	CL, FSL, SL, L, RARE: WETNESS SIL, RARE: WETNESS, ERODES EASILY CL, FSL, SL, L, COMMON: WETNESS, FLOODING SIL, COMMON: WETNESS, ERODES EASILY, FLOODING
LOCAL ROADS AND STREETS	RARE: MODERATE-WETNESS, FLOODING COMMON: SEVERE-FLOODING	TERRACES AND DIVERSIONS	CL, FSL, SL, L: WETNESS SIL: ERODES EASILY, WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	RARE: MODERATE-WETNESS OCCAS: MODERATE-WETNESS, FLOODING FREQ: SEVERE-FLOODING	GRASSED WATERWAYS	CL, FSL, SL, L: WETNESS SIL: WETNESS, ERODES EASILY

RECREATIONAL DEVELOPMENT (C)

	SEVERE-FLOODING, WETNESS			RARE, OCCAS: SEVERE-WETNESS	
CAMP AREAS			PLAYGROUNDS	FREQ: SEVERE-WETNESS, FLOODING	
	RARE, OCCAS: MODERATE-WETNESS			RARE, OCCAS: MODERATE-WETNESS	
PICNIC AREAS	FREQ: MODERATE-FLOODING, WETNESS		PATHS AND TRAILS	FREQ: MODERATE-WETNESS, FLOODING	

REGIONAL INTERPRETATIONS

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

[illegible]

WOODLAND SUITABILITY (C)

[illegible]

WINDBREAKS

CLASS-DETERMIN'G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (D)

CLASS-	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
DETERMINING PHASE	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
RARE, OCCAS	FAIR	GOOD	GOOD	GOOD			FAIR	FAIR	GOOD	GOOD	FAIR	
FREQ	POOR	FAIR	FAIR	GOOD			FAIR	FAIR	FAIR	GOOD	FAIR	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

	PLANT	PERCENTAGE COMPOSTION (DRY WEIGHT) BY CLASS DETERMINING PHASE										
COMMON PLANT NAME	SYMBOL (NLSPN)	ALL										
LONGLEAF UNIOLA	CHSE2	35										
PINEHILL BLUESTEM	SCSCD	20										
OTHER PERENNIAL GRASSES	PPGG	10										
OTHER PERENNIAL FORBS	PPFF	20										
OTHER SHRUBS	SSSS	15										

POTENTIAL PRODUCTION (LBS./AC. DRY WT):												
	FAVORABLE YEARS											
	NORMAL YEARS	2000										
	UNFAVORABLE YEARS											

FOOTNOTES

- A BASED ON LAB DATA FROM LEE AND ITAWAMBA CO'S, MS; GREENE CO, ALA;
 B RATINGS BASED ON NATIONAL SOILS HANDBOOK PART 603.
 C RATINGS BASED ON NATIONAL FORESTRY MANUAL.
 D WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN. 1972.
 * SITE INDEX IS A SUMMARY OF 5 OR MORE MEASUREMENTS ON THIS SOIL.
 * SITE INDEX IS A SUMMARY OF 5 OR MORE MEASUREMENTS ON THIS SOIL.
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MLRA(S): 128, 129
 REV. PGM, 11-94
 TYPIC HAPLUDULTS, CLAYEY, MIXED, THERMIC

THE ALBERTVILLE SERIES CONSISTS OF DEEP, WELL DRAINED SOILS ON UPLANDS. IN A REPRESENTATIVE PROFILE THE SURFACE LAYER IS YELLOWISH BROWN SILT LOAM, ABOUT 6 INCHES THICK. THE SUBSOIL IS BROWNISH YELLOW SILTY CLAY LOAM, STRONG BROWN SILTY CLAY AND CLAY AND YELLOW SILTY CLAY, ABOUT 41 INCHES THICK. THE SOIL IS UNDERLAIN BY HORIZONTALLY BEDDED SHALE AT 47 INCHES. SLOPES RANGE FROM 2 TO 25 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES																							
ANNUAL AIR TEMPERATURE		FROST FREE DAYS		ANNUAL PRECIPITATION		ELEVATION (FT)		DRAINAGE CLASS		SLOPE (PCT)													
58-65		190-210		48-56		600-1800		W		2-25													
ESTIMATED SOIL PROPERTIES (A)																							
DEPTH (IN.)		USDA TEXTURE		UNIFIED		AASHTO		FRACT. >10 IN		FRACT. 3-10 IN		PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.		CLAY (PCT)									
								(PCT)		(PCT)		4 10 40 200		(PCT)									
0-6 SIL, L				CL-ML, ML		A-4		0		0		95-100 80-96 75-94 60-90		8-25									
0-6 SL, FSL				SM, ML, SC-SM		A-4				0-5		95-100 80-95 75-90 40-70		7-20									
6-15 SIL, SICL, CL				CL		A-6		0		0		95-100 80-95 75-94 50-85		20-40									
15-47 SICL, SIC, C				CL, CH		A-6, A-7		0		0		95-100 80-100 75-100 70-99		35-55									
47-66 WB																							
DEPTH (IN.)		LIQUID LIMIT		PLASTICITY INDEX		MOIST BULK DENSITY (G/CM3)		PERMEABILITY (IN/HR)		AVAILABLE WATER CAPACITY (IN/IN)		SOIL REACTION (PH)		SALINITY (MMHOS/CM)		SAR		CEC (ME/100G)		CACO3 (PCT)		GYPSUM (PCT)	
0-6		0-30		NP-7		1.30-1.50		0.6-2.0		0.15-0.24		4.5-5.5		0-0		0-0				0-0		0-0	
0-6		0-30		NP-7		1.30-1.50		0.6-2.0		0.10-0.15		4.5-5.5		0-0		0-0				0-0		0-0	
6-15		30-40		11-16		1.35-1.55		0.6-2.0		0.16-0.24		4.5-5.5		0-0		0-0				0-0		0-0	
15-47		35-70		14-40		1.35-1.55		0.2-0.6		0.12-0.22		4.5-5.5		0-0		0-0				0-0		0-0	
47-66								0.00-0.06															
DEPTH (IN.)		ORGANIC MATTER		SHRINK-SWELL		EROSION FACTORS		WIND EROD.		WIND EROD.		CORROSIVITY											
		(PCT)		POTENTIAL		K Kf		T		GROUP		INDEX		STEEL		CONCRETE							
0-6		.5-2		LOW		.28 .28		4 5		56		MODERATE		HIGH									
0-6		.5-2		LOW		.20 .20		4 3		86													
6-15		.5-1		LOW		.32 .32																	
15-47		0-.5		MODERATE		.37 .37																	
47-66																							
		FLOODING						HIGH WATER TABLE		CEMENTED PAN		BEDROCK		SUBSIDENCE		HYD		POTENT'L					
FREQUENCY		DURATION		MONTHS		(FT)				(IN)		(IN)		(IN)		(IN)		ACTION					
NONE						>6.0						40-60		SOFT				C		NONE			

SANITARY FACILITIES (B)		CONSTRUCTION MATERIAL (B)	
SEPTIC TANK ABSORPTION FIELDS	2-15%:SEVERE-PERCS SLOWLY 15-25%:SEVERE-PERCS SLOWLY,SLOPE	ROADFILL ***	2-15%:FAIR-DEPTH TO ROCK 15-25%:FAIR-DEPTH TO ROCK,SLOPE
SEWAGE LAGOON AREAS	2-7%:MODERATE-SEEPAGE,DEPTH TO ROCK,SLOPE 7-25%:SEVERE-SLOPE	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	2-15%:SEVERE-DEPTH TO ROCK,TOO CLAYEY 15-25%:SEVERE-DEPTH TO ROCK,SLOPE,TOO CLAYEY	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	2-8%:MODERATE-DEPTH TO ROCK 8-15%:MODERATE-DEPTH TO ROCK,SLOPE 15-25%:SEVERE-SLOPE	TOPSOIL	2-15%:POOR-TOO CLAYEY 15-25%:POOR-TOO CLAYEY,SLOPE
DAILY COVER FOR LANDFILL	2-15%:POOR-TOO CLAYEY,HARD TO PACK 15-25%:POOR-TOO CLAYEY,HARD TO PACK,SLOPE	WATER MANAGEMENT (B)	
		POND RESERVOIR	2-3%:MODERATE-DEPTH TO ROCK 3-8%:MODERATE-DEPTH TO ROCK,SLOPE 8-25%:SEVERE-SLOPE
BUILDING SITE DEVELOPMENT (B)		AREA	
SHALLOW EXCAVATIONS	2-8%:MODERATE-TOO CLAYEY 8-15%:MODERATE-TOO CLAYEY,SLOPE 15-25%:SEVERE-SLOPE	EMBANKMENTS DIKES AND LEVEES ***	MODERATE-HARD TO PACK,PIPING
DWELLINGS WITHOUT BASEMENTS	2-8%:MODERATE-SHRINK-SWELL 8-15%:MODERATE-SHRINK-SWELL,SLOPE 15-25%:SEVERE-SLOPE	EXCAVATED PONDS AQUIFER FED	SEVERE-NO WATER
DWELLINGS WITH BASEMENTS	2-8%:MODERATE-SHRINK-SWELL 8-15%:MODERATE-SLOPE,SHRINK-SWELL 15-25%:SEVERE-SLOPE	DRAINAGE	DEEP TO WATER
SMALL COMMERCIAL BUILDINGS	2-4%:MODERATE-SHRINK-SWELL 4-8%:MODERATE-SHRINK-SWELL,SLOPE 8-25%:SEVERE-SLOPE	IRRIGATION	2-3%SIL,L:FAVORABLE 3-25%SIL,L:SLOPE 2-3%SL,FSL:SOIL BLOWING 3-25%SL,FSL:SLOPE,SOIL BLOWING
LOCAL ROADS AND STREETS	2-15%:SEVERE-LOW STRENGTH 15-25%:SEVERE-LOW STRENGTH,SLOPE	TERRACES AND DIVERSIONS	2-8%SIL,L:ERODES EASILY 8-25%SIL,L:SLOPE,ERODES EASILY 2-8%SL,FSL:ERODES EASILY,SOIL BLOWING 8-25%SL,FSL:SLOPE,ERODES EASILY,SOIL BLOWING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	2-8%:SLIGHT 8-15%:MODERATE-SLOPE 15-25%:SEVERE-SLOPE	GRASSED WATERWAYS	2-8%:ERODES EASILY 8-25%:SLOPE,ERODES EASILY

RECREATIONAL DEVELOPMENT (B)

	2-8%:MODERATE-PERCS SLOWLY		2-6%:MODERATE-SLOPE, SMALL STONES, PERCS SLOWLY
	8-15%:MODERATE-SLOPE, PERCS SLOWLY		6-25%:SEVERE-SLOPE
CAMP AREAS	15-25%:SEVERE-SLOPE	PLAYGROUNDS	

	2-8%:MODERATE-PERCS SLOWLY		2-15%:SLIGHT
	8-15%:MODERATE-SLOPE,PERCS SLOWLY	PATHS	15-25%:MODERATE-SLOPE
PICNIC AREAS	15-25%:SEVERE-SLOPE	AND	
		TRAILS	

REGIONAL INTERPRETATIONS

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CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT) (2)

[illegible]

WOODLAND SUITABILITY (C)

[illegible]

WINDBREAKS

CLASS-DETERMIN'G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (D)

CLASS-	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
DETERMINING PHASE	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
2-5%	GOOD	GOOD	GOOD	GOOD	GOOD		POOR	V. POOR	GOOD	GOOD	V. POOR	
5-15%	FAIR	GOOD	GOOD	GOOD	GOOD		V. POOR	V. POOR	GOOD	GOOD	V. POOR	
15-25%	POOR	FAIR	GOOD	GOOD	GOOD		V. POOR	V. POOR	FAIR	GOOD	V. POOR	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSTION (DRY WEIGHT) BY CLASS DETERMINING PHASE										

POTENTIAL PRODUCTION (LBS./AC. DRY WT):												
FAVORABLE YEARS												
NORMAL YEARS												
UNFAVORABLE YEARS												

FOOTNOTES

A THE 15-47 INCH LAYER INCLUDES ML UNIFIED CLASS.

B BASED ON NSH, PART 603, JULY 1983.

C BASED ON NFM, PART 537, JULY 1987.

D BASED ON SOILS MEMORANDUM 74, JAN. 1972.

2 YIELD ESTIMATES FOR TOMATOES REFLECT YIELD FOR THE FRESH MARKET.

SITE INDEX IS A SUMMARY OF LESS THAN 8 MEASUREMENTS ON THIS SOIL.

***THIS IS A RATING OVERRIDE. SEE THE INTERPRETATION OVERRIDE FILE FOR AN EXPLANATION OF THIS OVERRIDE.

AL0127

SOIL INTERPRETATIONS RECORD

SIPSEY SERIES

MLRA(S): 12B, 129
REV. RMS, GLH, 1-90

TYPIC RAPLUDULTS, FINE-LOAMY, SILICEOUS, THERMIC

THE SIPSEY SERIES CONSISTS OF MODERATELY DEEP, WELL DRAINED SOILS. THEY ARE ON GENTLY SLOPING TO STEEP UPLANDS FORMING IN RESIDUUM FROM SANDSTONE. TYPICALLY, THEY HAVE A BROWN LOAMY SAND SURFACE LAYER ABOUT 4 INCHES THICK. THE SUBSURFACE LAYER AND UPPER SUBSOIL IS YELLOWISH BROWN LOAMY SAND TO A DEPTH OF 16 INCHES. THE LOWER SUBSOIL IS STRONG BROWN SANDY CLAY LOAM TO A DEPTH OF 31 INCHES. THE UNDERLYING MATERIAL IS SOFT, WEATHERED SANDSTONE. SLOPES RANGE FROM 4 TO 30 PERCENT.

LANDSCAPE AND CLIMATE PROPERTIES						
ANNUAL AIR TEMPERATURE	FROST FREE DAYS	ANNUAL PRECIPITATION	ELEVATION (FT)	DRAINAGE CLASS	SLOPE (PCT)	
58-63	198-218	50-60	400-800	W	4-30	

ESTIMATED SOIL PROPERTIES (R)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	WASHTO	FRACT. 1/10 IN	FRACT. 1/20 IN	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO.	CLAY (PCT)
1	1	1	1	1 (PCT)	1 (PCT)	1 4 1 10 1 40 1 200	1 (PCT)
0-4	JFSL, SL	1SM, SM-SC	1A-2, A-4	1 0-5	1 0-10	185-100 85-100 70-95 26-45	1 6-20
4-16	JLS	1SM	1A-2	1 0-5	1 0-10	185-100 85-100 50-75 15-30	1 2-10
16-31	JSL, LS	1SM, SM-SC	1A-2	1 0-5	1 0-10	185-100 85-100 50-95 15-40	1 2-10
31-60	JSL, L, SCL	1SM-SC, SC, CL-ML	1A-4, A-6	1 0-5	1 0-15	185-100 65-100 60-95 35-60	1 15-35
60-100	JWB	1	1	1	1	1	1

DEPTH (IN.)	LIQUID LIMIT	PLASTICITY INDEX	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (CM/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SAR	CEC (ME/100G)	CACO3 (PCT)	GYPSUM (PCT)
1	1	1	1	1	1	1	1	1	1	1	1
0-4	1 <30	1 MP-7	1 1.35-1.50	1 2.0-6.0	1 0.10-0.16	1 4.5-6.0	1	1	1	1	1
4-16	1	1 MP	1 1.35-1.50	1 6.0-20.0	1 0.05-0.12	1 4.5-6.0	1	1	1	1	1
16-31	1 <30	1 MP-7	1 1.35-1.50	1 6.0-20.0	1 0.05-0.12	1 4.5-6.0	1	1	1	1	1
31-60	1 <35	1 MP-15	1 1.40-1.60	1 0.6-2.0	1 0.14-0.18	1 4.5-6.0	1	1	1	1	1
60-100	1	1	1	1	1	1	1	1	1	1	1

DEPTH (IN.)	ORGANIC MATTER	SHRINK-SWELL FACTORS	EROSION INDEX	WIND EROD.	CORROSTIVITY
1	1	1	1	1	1

1	1 (PCT)	1 POTENTIAL	1 K	1 Y	1 GR	1 PI INDEX	1 STEEL	1 CONCRETE
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0-4	1 .5-2	1 VERYLOW	1.24	2	1 3	1 86	1 MODERATE	1 HIGH
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0-4	1 .5-2	1 VERYLOW	1.15	2	1 2	1 134	1	1
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4-16	1 .5-2	1 VERYLOW	1.15	1	1	1	1	1
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16-31	1 .5-2	1 VERYLOW	1.15					
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31-60	1 <.5	1 VERYLOW	1.32					
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60-100	1	1	1					
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1	FLOODING	1	HIGH WATER TABLE	1	CEMENTED PAN	1	BEDROCK	1	SUBSIDENCE	1	HYDIPOTENTIAL
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1	1	1	1	1	1	1	1	1	1	1	1
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1	FREQUENCY	1	DURATION	1	MONTHS	1	DEPTH (IN)	1	HARDNESS	1	DEPTH (IN)	1	HARDNESS	1	INIT.	1	TOTAL	1	ORP	1	FROST	1	ACTION
---	-----------	---	----------	---	--------	---	------------	---	----------	---	------------	---	----------	---	-------	---	-------	---	-----	---	-------	---	--------

1	1 NONE	1	1	1	1 >6.0	1	1	1	1 -	1	1 120-40	1	1 SOFT	1	1 -	1	1 B	1	1	1	1	1
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SIPSEY SERIES

8L0127

SANITARY FACILITIES (B)

CONSTRUCTION MATERIAL

SEPTIC TANK ABSORPTION FIELDS	4-15Z: SEVERE-DEPTH TO ROCK 15-Z: SEVERE-DEPTH TO ROCK, SLOPE	ROADFILL	4-25Z: POOR-DEPTH TO ROCK 25-Z: POOR-DEPTH TO ROCK, SLOPE
SEWAGE LAGOON AREAS	4-7Z: SEVERE-SEEPAGE, DEPTH TO ROCK 7-Z: SEVERE-SEEPAGE, DEPTH TO ROCK, SLOPE	SAND	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (TRENCH)	4-15Z: SEVERE-DEPTH TO ROCK 15-Z: SEVERE-DEPTH TO ROCK, SLOPE	GRAVEL	IMPROBABLE-EXCESS FINES
SANITARY LANDFILL (AREA)	4-15Z: SEVERE-DEPTH TO ROCK 15-Z: SEVERE-DEPTH TO ROCK, SLOPE	TOPSOIL	4-15Z: POOR-SMALL STONES 15-Z: POOR-SMALL STONES, SLOPE
DAILY	4-15Z: POOR-DEPTH TO ROCK 15-Z: POOR-DEPTH TO ROCK, SLOPE	WATER MANAGEMENT	
COVER FOR LANDFILL		POND RESERVOIR	4-8Z: MODERATE-SEEPAGE, DEPTH TO ROCK, SLOPE 8-Z: SEVERE-SLOPE
BUILDING SITE DEVELOPMENT		AREA	
SHALLOW EXCAVATIONS	4-8Z: MODERATE-DEPTH TO ROCK 8-15Z: MODERATE-DEPTH TO ROCK, SLOPE 15-Z: SEVERE-SLOPE	EMBANKMENTS DIKES AND LEVEES	SEVERE-PIPING
DWELLINGS WITHOUT BASEMENTS	4-8Z: SLIGHT 8-15Z: MODERATE-SLOPE 15-Z: SEVERE-SLOPE	EXCAVATED PONDS AQUIFER FED	SEVERE-NO WATER
DWELLINGS WITH BASEMENTS	4-8Z: MODERATE-DEPTH TO ROCK 8-15Z: MODERATE-DEPTH TO ROCK, SLOPE 15-Z: SEVERE-SLOPE	DRAINAGE	DEEP TO WATER
SMALL COMMERCIAL BUILDINGS	4-8Z: MODERATE-SLOPE 8-Z: SEVERE-SLOPE	IRRIGATION	SL, FSL: DEPTH TO ROCK, SLOPE LS: FAST INTAKE, SLOPE, DROUGHTY
LOCAL ROADS AND STREETS	4-8Z: SLIGHT 8-15Z: MODERATE-SLOPE 15-Z: SEVERE-SLOPE	TERRACES AND DIVERSIONS	4-8Z: DEPTH TO ROCK 8-Z: SLOPE, DEPTH TO ROCK
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	4-8Z SL, FSL: MODERATE-LARGE STONES 8-15Z SL, FSL: MODERATE-LARGE STONES, SLOPE 4-8Z LS: MODERATE-LARGE STONES, DROUGHTY 8-15Z LS: MODERATE-LARGE STONES, DROUGHTY, SLOPE 15-Z: SEVERE-SLOPE	GRASSED WATERWAYS	4-8Z SL, FSL: DEPTH TO ROCK 8-Z SL, FSL: SLOPE, DEPTH TO ROCK 4-8Z LS: DROUGHTY, DEPTH TO ROCK 8-Z LS: SLOPE, DROUGHTY, DEPTH TO ROCK

SIPSEY SERIES

AL0127

RECREATIONAL DEVELOPMENT

	4-8Z: SLIGHT		4-6Z: MODERATE-SLOPE, SMALL STONES.
	8-15Z: MODERATE-SLOW		DEPTH TO ROCK
CAMP AREAS	15-2Z: SEVERE-SLOPE	PLAYGROUNDS	6-7Z: SEVERE-SLOPE
	4-8Z: SLIGHT		4-15Z: SLIGHT
	8-15Z: MODERATE-SLOW	PATHS	15-25Z: MODERATE-SLOPE
PICNIC AREAS	15-2Z: SEVERE-SLOPE	AND	25-2Z: SEVERE-SLOPE
		TRAILS	

REGIONAL INTERPRETATIONS

1. The first part of the document is a list of names and addresses, which are arranged in two columns. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list includes names such as "John Smith", "Mary Jones", and "Robert Brown", along with their respective addresses in various cities and states.

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

[illegible]

WOODLAND SUITABILITY (C)

1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	CLASS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49</																																																			

PSEY SERIES

ALU127

WINDBREAKS

CLASS-DETERMINING PHASE	SPECIES	INT	SPECIES	INT	SPECIES	INT	SPECIES	INT
	NONE							

WILDLIFE HABITAT SUITABILITY (D)

CLASS	POTENTIAL FOR HABITAT ELEMENTS	POTENTIAL AS HABITAT FOR:
DETERMINING PHASE	GRAIN & GRASS SEED LEGUME	WILD HERB. HARDWOOD TREES CONIFER PLANTS SHRUBS WETLAND PLANTS SHALLOW WATER WOODLAND WETLAND RANGELAND
14-18Z	FAIR GOOD	GOOD GOOD GOOD IV. POOR IV. POOR GOOD GOOD IV. POOR
110-15Z	FAIR GOOD	GOOD GOOD GOOD IV. POOR IV. POOR GOOD GOOD IV. POOR
115-34Z	POOR FAIR	GOOD GOOD GOOD IV. POOR IV. POOR FAIR GOOD IV. POOR

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE
	SPR 10L (10 SPM)	
BLUESTEM	AN RDZ	
LITTLE BLUESTEM	SC C	
BROOKSEDGE BLUESTEM	AN I2	
PANICUM	PH IC	
WILDRYE	EL MU	
JAPANESE HONEYSUCKLE	LI A	
BLUEBERRY	VA C1	
GREENBRIER	SC LA2	
BLACK CHERRY	PI EZ	
FLOWERING DOGWOOD	CO L2	
HICKORY	CH YA	
POST OAK	QU T	
SOUTHERN RED OAK	QU A	

POTENTIAL PRODUCTION (LBS./AC. DRY MATTER)

FAVORABLE YEARS	
NORMAL YEARS	
UNFAVORABLE YEARS	

FOOTNOTES

- A ESTIMATE BASED ON TEST DATA OF SIMILAR SOILS, AND ON DATA FROM 1 PEDON FROM WALKER COUNTY, AL.
B RATINGS BASED ON NATIONAL SOILS HANDBOOK, PART 603, JULY 1983.
C RATINGS BASED ON NATIONAL FOREST SERVICE MANUAL, SEC. 537, JULY 1987.
D RATINGS BASED ON SOILS MEMORANDUM 74, JANUARY 1972.
* SITE INDEX IS A SUMMARY OF LESS THAN 8 MEASUREMENTS ON THIS SOIL.

RECREATIONAL DEVELOPMENT (R)											
CAMP AREAS	5-15% CNV: MODERATE-SLOPE, SMALL STONES	PLAYGROUNDS				5-15% SEVERE-SMALL STONES					
	15-25% CNV: SEVERE-SLOPE					6-15% SEVERE-SLOPE, SMALL STONES					
	15-25% CNV, CNX: SEVERE-SMALL STONES										
	15-25% CNV, CNX: SEVERE-SLOPE, SMALL STONES										
PICNIC AREAS	15-25% CNV, CNX: SEVERE-SLOPE, SMALL STONES	PATHS AND TRAILS				5-15% CNV: SLIGHT					
	15-25% CNV: MODERATE-SLOPE					15-25% CNV: MODERATE-SLOPE					
	15-25% CNV: MODERATE-SLOPE, SMALL STONES					25-35% CNV: SEVERE-SLOPE					
	15-25% CNV: MODERATE-SLOPE, SMALL STONES					5-25% CNV, CNX: SEVERE-SMALL STONES					
CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (WITH LEVEL MANAGEMENT)											
CLASS- DETERMINING PHASE	CULTIV (AUM)	PASTURE (TONS)	TALL (AUM)	FESCUE (AUM)	HODAGRASS (AUM)	COMMON BE- (AUM)	BARIAGRASS (AUM)	WHEAT (RU)			
5-15%	65	4.5	3.0	4.5	4.0	4.5		20			
15-60%	75	-	-	-	-	-	-	-	-	-	-
WOODLAND SUITABILITY (C)											
CLASS- DETERMINING PHASE	CULTIV (AUM)	PASTURE (TONS)	TALL (AUM)	FESCUE (AUM)	HODAGRASS (AUM)	COMMON BE- (AUM)	BARIAGRASS (AUM)	WHEAT (RU)			
5-15%	65	4.5	3.0	4.5	4.0	4.5		20			
15-60%	75	-	-	-	-	-	-	-	-	-	-
WILDLIFE HABITAT SUITABILITY (D)											
CLASS- DETERMINING PHASE	CULTIV (AUM)	PASTURE (TONS)	TALL (AUM)	FESCUE (AUM)	HODAGRASS (AUM)	COMMON BE- (AUM)	BARIAGRASS (AUM)	WHEAT (RU)			
5-15%	65	4.5	3.0	4.5	4.0	4.5		20			
15-60%	75	-	-	-	-	-	-	-	-	-	-
POTENTIAL PRODUCTION (EBS, 7AC, 10Y 27Y)											
CLASS- DETERMINING PHASE	CULTIV (AUM)	PASTURE (TONS)	TALL (AUM)	FESCUE (AUM)	HODAGRASS (AUM)	COMMON BE- (AUM)	BARIAGRASS (AUM)	WHEAT (RU)			
5-15%	65	4.5	3.0	4.5	4.0	4.5		20			
15-60%	75	-	-	-	-	-	-	-	-	-	-

A BASED ON ONE PECTEN FROM MARION COUNTY, ALA. INCLUDES CNV-SICL IN SURFACE AND SUBSURFACE.
 B BASED ON NSH, PART 603, JULY 1987.
 C WOODLAND RATINGS BASED ON NFM, PART 537, SEPT. 1980.
 D WILDLIFE RATINGS BASED ON SOILS MEMO-74, JAN. 1972.
 E ANTICIPATED DIFFERENTIAL SETTLING MAY IMPOSE SEVERE LIMITATIONS. PACKING ADVISED FOR BUILDING SITES.

AL0089

SOIL INTERPRETATIONS RECORD

REFILLANT SE

MLR(S): 128, 129
PEV, GLH, RGM, 11-86

TYPIC UNDERMENTS, LOAMY-SKELETAL, MIXED, NONACID, THERMIC

THE BRILLIANT SERIES CONSISTS OF SOMEWHAT EXCESSIVELY-DRAINED UPLAND SOILS THAT ARE FORMING IN THE SPOIL REMAINING FROM STRIP MINE OPERATIONS. THESE SOILS HAVE VERY DARK GRAY, EXTREMELY CHANNERY SANDY LOAM SURFACE LAYERS AND A DARK GRAY EXTREMELY CHANNERY LOAM SUBSTRATUM. SLOPES RANGE FROM 5 TO 60 PERCENT.

ESTIMATED SOIL PROPERTIES (A)											
DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	PERCENT OF MATERIAL LESS THAN 3 IN. (75 MM) PASSING SIEVE NO. 40	PERCENT OF MATERIAL LESS THAN 2.0 MM (75 MM) PASSING SIEVE NO. 20	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200
0-7	CL-SL, CL, CL-SL	SM, SC, SP	A-2-4, A-2-6, A-1	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
0-7	CL-SL, CL-SL, CL-SL	SM, SC, SP	A-2-4, A-2-6, A-1	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
0-7	CL-SL, CL-SL, CL-SL	SM, SC, SP	A-2-4, A-2-6, A-1	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
7-72	CL-SL, CL-SL, CL-SL	SM, SC, SP	A-2-4, A-2-6, A-1	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
DEPTH (IN.)	DENSITY (G/CM ³)	WATER CAPACITY (CM ³ /CM ³)	SHRINKAGE (CM/CM)	PERCENT OF MATERIAL LESS THAN 3 IN. (75 MM) PASSING SIEVE NO. 40	PERCENT OF MATERIAL LESS THAN 2.0 MM (75 MM) PASSING SIEVE NO. 20	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200	PERCENT OF MATERIAL LESS THAN 0.075 MM (75 MICRONS) PASSING SIEVE NO. 200
0-7	1.40-1.60	2.0-6.0	0.04-0.10	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
0-7	1.40-1.60	2.0-6.0	0.04-0.10	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
0-7	1.40-1.60	2.0-6.0	0.04-0.10	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10
7-72	1.40-1.60	2.0-6.0	0.04-0.10	15-30	10-20	5-10	5-10	5-10	5-10	5-10	5-10

SEPTIC TANK ABSORPTION FIELDS				CONSTRUCTION MATERIAL (B)			
5-15% SEVERE-SLOPE	ROADFILL	5-15% FAIR-LARGE STONES	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	ROADFILL	5-15% FAIR-LARGE STONES	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	SAND	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	SAND	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	GRAVEL	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	GRAVEL	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	TOPSOIL	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	TOPSOIL	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	POOR RESERVOIR AREA	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	POOR RESERVOIR AREA	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	EMBANKMENTS, Dikes and Levees	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	EMBANKMENTS, Dikes and Levees	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	EXCAVATED PONDS, AQUIFERS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	EXCAVATED PONDS, AQUIFERS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	DRAINAGE	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	DRAINAGE	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	IRRIGATION	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	IRRIGATION	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	TERACES AND DIVERSIONS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	TERACES AND DIVERSIONS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE
5-15% SEVERE-SLOPE	GRASSED WATERWAYS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE	5-15% SEVERE-SLOPE	GRASSED WATERWAYS	5-15% SEVERE-SLOPE	15-25% FAIR-LARGE STONES, SLOPE