



LAND RESOURCE MANAGEMENT

— Land Evaluation by Land Experts —

PO BOX 6058 ASHEVILLE NC 28916 438 271 1643 WWW.LANDRM.COM

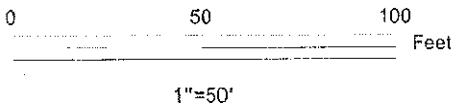
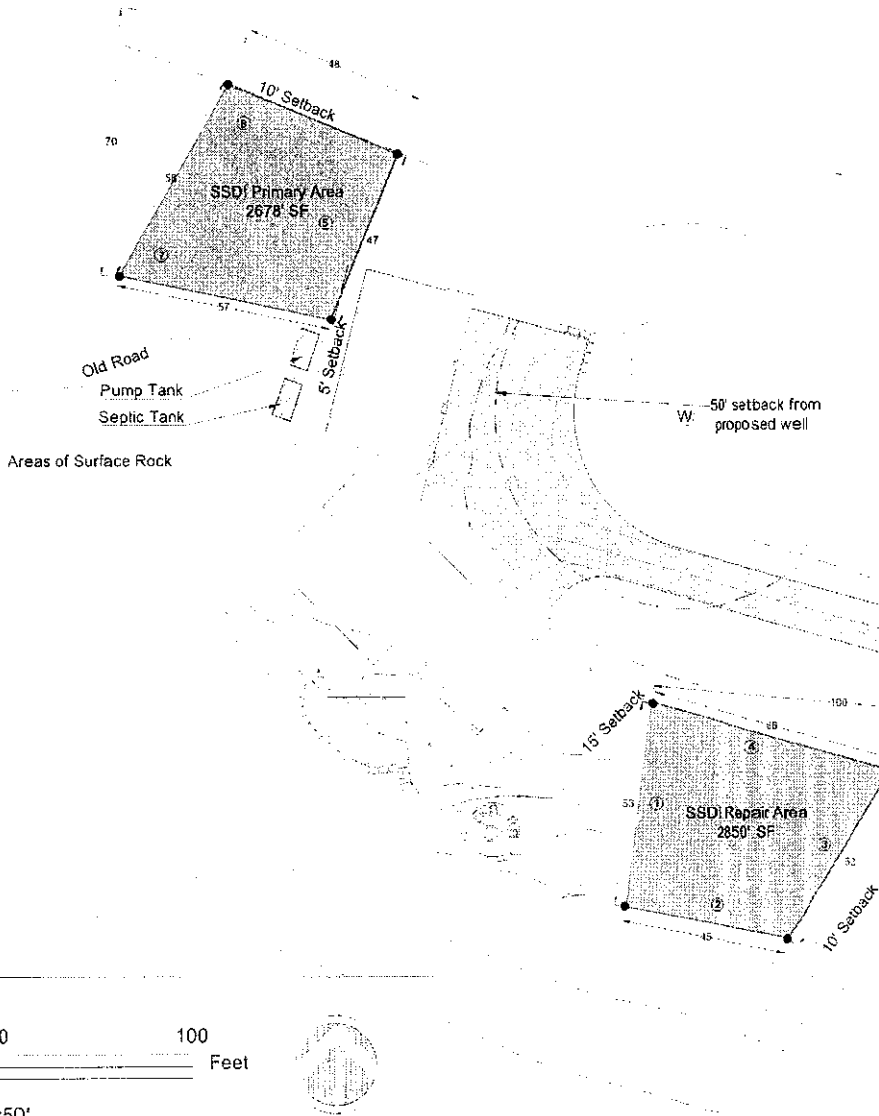
**BRADLEY STRANGE AND KRISTIN STRANGE
63 SUMMIT TRAIL DRIVE
SPROUT LOT #25
PIN 9672-51-9148
HENDERSON COUNTY, NC
LRM PROJECT #311623**

Client: Brad Strange

Contact: Brad Strange

Email: strangebrad@gmail.com

Permitting Authority: Henderson County Health Department



1 HAND AUGER SOIL BORING LOCATION

PRIMARY:
 System Kind: Anaerobic Subsurface Drip Irrigation
 LTAR: 0.25 4-Bedroom Design
 Trench Depth (in.): 6 Trench Width (in.): N/A

The primary area is flagged in the field and represents approximately 2,678 SF. The proposed primary and repair system requires 1,920 SF. Additional area is available if needed to account for blanking

REPAIR:
 System Kind: Anaerobic Subsurface Drip Irrigation
 LTAR: 0.25 4-Bedroom Design
 Trench Depth (in.): 6 Trench Width (in.): N/A

The repair areas is flagged in the field and represents approximately 2,850 SF. The proposed repair system requires 1,920 SF. Additional area is available if needed to account for blanking.

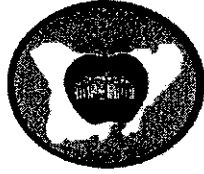
NOTE:

- 1) This LSS evaluation and AOWE design is being submitted under and meets the requirements of G.S. 130A-336.2
- 2) LRM's soil evaluation and recommendations have been made in accordance with NC Department of Environmental Health Onsite Wastewater Management: guidance material and 15A NCAC 18A .1900 rules.
- 3) Per 15A NCAC 18A .1952 (b)(2)(B) an approved 1000 gallon septic tank will be required.
- 4) Per 15A NCAC 18A .1952 (c)(1)(A) a minimum of a 750 gallon pump tank will be required. LRM recommends use of a 1250 gallon pump tank.
- 5) The primary and repair systems will need to be designed by either a certified designer or a Professional Engineer (PE) before Authorization to Construct can be issued.
- 6) The corners of the SSDI system areas are marked in the field with orange/pink wire flags with pink/black striped ribbon.
- 7) The septic areas were located in the field by Brooks Engineering Associates.
- 8) A pre-construction conference with NCOWCICB certified contractor is required prior to beginning septic system installation.
- 9) Please contact LRM 2 weeks prior to pre-construction conference and system installation to begin scheduling conference and installation inspections.

Sprout Lot 25
Bradley Strange and Kristin Strange
PIN 9672-51-9148

LRM
 LAND RESOURCE MANAGEMENT, PLLC
 P.O. BOX 9251
 ASHEVILLE, N.C. 28815
 Phone: (828) 231-1663
 www.landrm.com

DRAWN BY: GMG SCALE: 1"=50'
 CHECKED BY: WBF/JSE DATE: 5-31-2023
 PROJECT NO: 311623 REVISION: 0



Henderson County Environmental Health Owner Authorization Form

I, Bradley Strange (print your name) do
authorize Land Resource Management, PLLC (print name) to
act as my agent in obtaining the septic and/or well
permit(s) from the Henderson County Department of
Public Health.

Signed: Brad Strange
Brad Strange (May 23, 2023 19:12 EDT)

Date: May 23, 2023

NOTE: All blanks must be filled in or this form will not be accepted.

**Applications for permit are accepted at the
Henderson County Permit Center, 100 N King Street,
Ste 220
Permits are issued Monday-Friday 8:30 a.m-4:00 p.m.**



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North Carolina G.S. 130A - 336.2 Consent Form

I, Bradley Strange (owner/applicant) of 9672-51-9148 (parcel ID) in Henderson County, North Carolina understand that the Licensed Soil Scientist (LSS) Evaluation and Authorized On-site Wastewater Evaluator (AOWE) design attached to this application is to be used to produce design and construction features for permitting in accordance with G.S. 130A-336.2.

I, Bradley Strange , also relinquish Land Resource Management, PLLC (LRM) of all liability associated with the property identified above beyond the date of the sealed Licensed Soil Scientist (LSS) report. Any site alterations occurring after this date including, but not limited to, driveways, grading, drainage, basements, water supply, bedroom count, (etc.) are the responsibility of the owner and their contractor. LRM will be happy to consult on any modification, or changes upon request. A new dated sealed LSS report will be issued for all approved modifications.

Owner Signature

Brad Strange

Brad Strange (May 23, 2023 19:12 EDT)

***Note: Please provide a signed authorization document from the property owner if the applicant is not the current owner. ***



LAND RESOURCE MANAGEMENT

Land Evaluation by Land Experts

PROJECT NO. AND NAME: <u>Spunk</u>	
PIT: <u>Benj 1</u>	LOT: <u>25</u>
COUNTY: <u>Henderson</u>	DATE: <u>10/20/22</u>
PERCENT SLOPE (Rule .1940): <u>46%</u>	CLAY MINERALOGY (Rule .1941): N/A <u>SE</u> MX EX
LANDSCAPE POSITION (Rule .1940): <u>SS</u>	SOIL DEPTH (Rule .1943): <u>24</u>
TOPOGRAPHY (Rule .1940): <u>Uniform</u>	RESTRICTIVE HORIZON (Rule .1944): <u>24" to SBRF</u>
PARENT MATERIAL: AL <u>CO</u> RE A/C A/R C/R	SEASONAL HIGH WATER TABLE (Rule .1942): <u>707</u>
SOIL GROUP (Rule .1955): <u>3</u>	TYPE OF WATER TABLE (Rule .1942): <u>A</u>
SAPROLITE GROUP (Rule .1956): <u>NA</u>	CLASSIFICATION (Rule .1948): PS <u>US</u>
NOTES: <u>QTESL Pits may yield deeper soils</u>	RECLASSIFIED (Rule .1948): N/A <u>PS</u>
	6 inches = trench depth - inches = slope correction soil depth 12 inches = regulated soil depth + - inches = regulated saprolite depth 18 inches total depth needed
	Calculated for: <u>SSDI</u>

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
<u>A</u>	<u>0-4</u>	<u>10YR3/3</u>	<u>-</u>	<u>SL</u>	<u>G</u>	<u>VFA</u>	<u>-</u>	<u>0.9</u>	<u>0.6</u>
<u>B1</u>	<u>4-20</u>	<u>10YR5/2</u>	<u>-</u>	<u>SLL</u>	<u>B</u>	<u>FR</u>	<u>25</u>	<u>0.35</u>	<u>0.5</u>
<u>B2</u>	<u>20-24</u>	<u>6</u>	<u>MCS</u>	<u>SLL</u>	<u>B</u>	<u>FR</u>	<u>20</u>	<u>0.35</u>	<u>0.5</u>
	<u>24</u>	<u>SBRF</u>							

LRM- NC Revised 10/2012

MCA = Multicolored Alluvium
 MCC = Multicolored colluvium
 MCS = Multicolored saprolite

LTAR = Long Term Acceptance Rate in
 gallons per square foot per day
 RF = Rock fragments

RLHB = Restrictive layer - Hard bedrock
 RLWB = Restrictive layer - Weathered bedrock
 SBRF = Stopped by rock fragments

DESCRIBED BY:

CHECKED BY:



LAND RESOURCE MANAGEMENT

Land Evaluation by Land Experts

PROJECT NO. AND NAME: <i>Sprink</i>		COUNTY: <i>Henderson</i>		DATE: <i>10/26/07</i>
PIT: <i>Boris 3</i>	LOT: <i>25</i>	CLAY MINERALOGY (Rule .1941): N/A <i>(SE)</i> MX EX		
PERCENT SLOPE (Rule .1940): <i>4%</i>		SOIL DEPTH (Rule .1943): <i>27" SAP</i>		
LANDSCAPE POSITION (Rule .1940): <i>SS</i>		RESTRICTIVE HORIZON (Rule .1944): <i>32" RLWB</i>		
TOPOGRAPHY (Rule .1940): <i>Uniform</i>		SEASONAL HIGH WATER TABLE (Rule .1942): <i>22</i>		
PARENT MATERIAL: AL CO <i>(RE)</i> A/C A/R C/R		TYPE OF WATER TABLE (Rule .1942): <i>NA</i>		
SOIL GROUP (Rule .1955): <i>3</i>		CLASSIFICATION (Rule .1948): PS <i>(US)</i>		
SAPROLITE GROUP (Rule .1956): <i>0</i>		RECLASSIFIED (Rule .1948): N/A <i>(PS)</i>		
NOTES:		<ul style="list-style-type: none"> 6 inches = trench depth - inches = slope correction soil depth 12 inches = regulated soil depth + inches = regulated saprolite depth 18 inches total depth needed 		Calculated for: <i>SAP</i>

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
<i>A</i>	<i>0-6</i>	<i>10YR3/3</i>	<i>-</i>	<i>SL</i>	<i>G</i>	<i>VAR</i>	<i>-</i>	<i>0.4</i>	<i>0.6</i>
<i>Bt</i>	<i>6-20</i>	<i>10YR5/1b</i>	<i>-</i>	<i>SL</i>	<i>B</i>	<i>FR</i>	<i>25</i>	<i>0.35</i>	<i>0.5</i>
<i>Bc</i>	<i>20-27</i>	<i>10YR4/1</i>	<i>Mb</i>	<i>SL</i>	<i>B</i>	<i>FR</i>	<i>20</i>	<i>0.35</i>	<i>0.5</i>
<i>C</i>	<i>27-32</i>	<i>Mb</i>	<i>-</i>	<i>SL</i>	<i>M</i>	<i>FR</i>	<i>-</i>	<i>0.35</i>	<i>0.5</i>
<i>CR</i>	<i>32</i>	<i>RLWB</i>	<i>-</i>						

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RLWB = Restrictive layer - Weathered bedrock
SBRF = Stopped by rock fragments

DESCRIBED BY:

CHECKED BY:



LAND RESOURCE MANAGEMENT

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65
60
75
3020
2552
3020

135
233

5.2 Mps. B. 1

PROJECT NO. AND NAME: Sprint

PIT: Boring 5 LOT: 25 COUNTY: Hickory DATE: 10/20/2008

PERCENT SLOPE (Rule .1940): 23% CLAY MINERALOGY (Rule .1941): N/A (SE) MX EX

LANDSCAPE POSITION (Rule .1940): SS SOIL DEPTH (Rule .1943): 21"

TOPOGRAPHY (Rule .1940): Uniform RESTRICTIVE HORIZON (Rule .1944): 21" SBRF

PARENT MATERIAL: AL CO (RE) A/C A/R C/R SEASONAL HIGH WATER TABLE (Rule .1942): 20"

SOIL GROUP (Rule .1955): 3 TYPE OF WATER TABLE (Rule .1942): 1

SAPROLITE GROUP (Rule .1956): MA CLASSIFICATION (Rule .1948): PS (U)

NOTES: RECLASSIFIED (Rule .1948): N/A (PS)

6 inches = trench depth
 - inches = slope correction soil depth
 10 inches = regulated soil depth
 + inches = regulated saprolite depth
 18 inches total depth needed

Calculated for: SSOE

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
<u>A</u>	<u>0-6</u>	<u>10YR 3/3</u>	<u>-</u>	<u>SL</u>	<u>G</u>	<u>HR</u>	<u>-</u>	<u>04</u>	<u>00</u>
<u>B₁</u>	<u>6-21</u>	<u>10YR 4/6</u>	<u>-</u>	<u>SL</u>	<u>B</u>	<u>HA</u>	<u>20</u>	<u>035</u>	<u>05</u>
	<u>21</u>	<u>SBRF</u>							

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 RF = Rock fragments

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 RLWB = Restrictive layer - Weathered bedrock
 SBRF = Stopped by rock fragments

DESCRIBED BY:

CHECKED BY:



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[Handwritten signature]

PROJECT NO. AND NAME: <i>Spruck</i>	
PIT: <i>Boring 7</i>	LOT: <i>25</i>
COUNTY: <i>Hudson</i>	DATE: <i>10/22/02</i>
PERCENT SLOPE (Rule .1940): <i>29%</i>	CLAY MINERALOGY (Rule .1941): N/A (SE) MX EX
LANDSCAPE POSITION (Rule .1940): <i>SS</i>	SOIL DEPTH (Rule .1943): <i>31"</i>
TOPOGRAPHY (Rule .1940): (Uniform)	RESTRICTIVE HORIZON (Rule .1944): <i>31" to RLWB</i>
PARENT MATERIAL: AL CO (RE) A/C A/R C/R	SEASONAL HIGH WATER TABLE (Rule .1942): <i>23"</i>
SOIL GROUP (Rule .1955): <i>3</i>	TYPE OF WATER TABLE (Rule .1942): <i>RF</i>
SAPROLITE GROUP (Rule .1956): <i>NA</i>	CLASSIFICATION (Rule .1948): PS (US)
NOTES:	RECLASSIFIED (Rule .1948): N/A (PS)
	<ul style="list-style-type: none"> <i>6</i> inches = trench depth <i>-</i> inches = slope correction soil depth <i>17</i> inches = regulated soil depth <i>+</i> inches = regulated saprolite depth <i>18</i> inches total depth needed
	Calculated for: <i>SSAE</i>

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		FIELD ESTIMATES					LTAR	
		MATRIX	MOTTLES	TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)	
<i>A</i>	<i>0-5</i>	<i>10-A300</i>	<i>-</i>	<i>SL</i>	<i>G</i>	<i>DR</i>	<i>-</i>	<i>0.4</i>	<i>0.2</i>	
<i>BL</i>	<i>5-24</i>	<i>10-A416</i>	<i>-</i>	<i>SLL</i>	<i>B</i>	<i>FR</i>	<i>25</i>	<i>0.35</i>	<i>0.5</i>	
<i>BC</i>	<i>24-31</i>	<i>↓</i>	<i>MIS</i>	<i>SLL</i>	<i>A</i>	<i>FR</i>	<i>20</i>	<i>0.35</i>	<i>0.5</i>	
<i>cR</i>	<i>31-32</i>	<i>RLWB</i>								

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DESCRIBED BY:

CHECKED BY:



LAND RESOURCE MANAGEMENT

Land Evaluation by Land Experts

PROJECT NO. AND NAME: <u>Spur 2</u>	
PIT: <u>Boring 6</u>	LOT: <u>25</u>
COUNTY: <u>H. de Surr</u>	DATE: <u>10/20/20</u>
PERCENT SLOPE (Rule .1940): <u>2%</u>	CLAY MINERALOGY (Rule .1941): N/A <u>(SE)</u> MX EX
LANDSCAPE POSITION (Rule .1940): <u>SS</u>	SOIL DEPTH (Rule .1943): <u>22"</u>
TOPOGRAPHY (Rule .1940): <u>Uniform</u>	RESTRICTIVE HORIZON (Rule .1944): <u>22" SBRF</u>
PARENT MATERIAL: AL CO <u>(RE)</u> A/C A/R C/R	SEASONAL HIGH WATER TABLE (Rule .1942): <u>22"</u>
SOIL GROUP (Rule .1955): <u>3</u>	TYPE OF WATER TABLE (Rule .1942): <u>N</u>
SAPROLITE GROUP (Rule .1956): <u>NA</u>	CLASSIFICATION (Rule .1948): PS <u>(US)</u>
NOTES:	RECLASSIFIED (Rule .1948): N/A <u>(PS)</u>
	6 inches = trench depth inches = slope correction soil depth 12 inches = regulated soil depth + inches = regulated saprolite depth 18 inches total depth needed
	Calculated for: <u>SSAE</u>

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
<u>A</u>	<u>0-5</u>	<u>10-R3:4</u>		<u>SL</u>	<u>G</u>	<u>WFA</u>	<u>-</u>	<u>0.4</u>	<u>0.6</u>
<u>Bt</u>	<u>5-22</u>	<u>10-R4:6</u>		<u>SLC</u>	<u>B</u>	<u>HR</u>	<u>75</u>	<u>0.35</u>	<u>0.5</u>
	<u>22</u>	<u>SBRF</u>							

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DESCRIBED BY:

CHECKED BY:



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PROJECT NO. AND NAME: Spruce													
PIT: Bonny 4	LOT: 25												
COUNTY: Henderson	DATE: 10/20/22												
PERCENT SLOPE (Rule .1940): 35%	CLAY MINERALOGY (Rule .1941): N/A (SE) MX EX												
LANDSCAPE POSITION (Rule .1940): SS	SOIL DEPTH (Rule .1943): 21"												
TOPOGRAPHY (Rule .1940): Uniform	RESTRICTIVE HORIZON (Rule .1944): 21" to RLWB												
PARENT MATERIAL: AL CO (RE) A/C A/R C/R	SEASONAL HIGH WATER TABLE (Rule .1942): > 2'												
SOIL GROUP (Rule .1955): ?	TYPE OF WATER TABLE (Rule .1942): SA												
SAPROLITE GROUP (Rule .1956): SA	CLASSIFICATION (Rule .1948): PS (US)												
NOTES:	RECLASSIFIED (Rule .1948): N/A (PS)												
	<table border="0"> <tr> <td>6</td> <td>inches = trench depth</td> <td rowspan="4">Calculated for: 5.5'</td> </tr> <tr> <td>7</td> <td>inches = slope correction soil depth</td> </tr> <tr> <td>10</td> <td>inches = regulated soil depth</td> </tr> <tr> <td>+</td> <td>inches = regulated saprolite depth</td> </tr> <tr> <td>16</td> <td>inches total depth needed</td> <td></td> </tr> </table>	6	inches = trench depth	Calculated for: 5.5'	7	inches = slope correction soil depth	10	inches = regulated soil depth	+	inches = regulated saprolite depth	16	inches total depth needed	
6	inches = trench depth	Calculated for: 5.5'											
7	inches = slope correction soil depth												
10	inches = regulated soil depth												
+	inches = regulated saprolite depth												
16	inches total depth needed												

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
A	0-5	10YR 7/3	-	SL	G	VFA	-	04	02
B ₁	5-18	10YR 6/4	-	SLC	B	FR	20	035	05
BL	18-21	6	MCS	SL	B	FA	-	035	05
	21	SBRF							

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DESCRIBED BY:

CHECKED BY:



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Land Evaluation by Land Experts

PROJECT NO. AND NAME: <u>Sprint</u>								
PIT: <u>Bony 2</u>	LOT: <u>25</u>							
COUNTY: <u>Henderson</u>	DATE: <u>10/20/20</u>							
PERCENT SLOPE (Rule .1940): <u>50%</u>	CLAY MINERALOGY (Rule .1941): N/A <u>(SE)</u> MX EX							
LANDSCAPE POSITION (Rule .1940): <u>SS</u>	SOIL DEPTH (Rule .1943): <u>76" to S1P</u>							
TOPOGRAPHY (Rule .1940): <u>Uniform</u>	RESTRICTIVE HORIZON (Rule .1944): <u>30" RLWB</u>							
PARENT MATERIAL: AL CO <u>(RE)</u> A/C A/R C/R	SEASONAL HIGH WATER TABLE (Rule .1942): <u>730</u>							
SOIL GROUP (Rule .1955): <u>3</u>	TYPE OF WATER TABLE (Rule .1942): <u>A</u>							
SAPROLITE GROUP (Rule .1956): <u>2</u>	CLASSIFICATION (Rule .1948): <u>PS US</u>							
NOTES:	RECLASSIFIED (Rule .1948): <u>N/A PS</u>							
	<table border="0"> <tr> <td>6 inches = trench depth</td> <td rowspan="4">Calculated for: <u>SSAE</u></td> </tr> <tr> <td>inches = slope correction soil depth</td> </tr> <tr> <td>10 inches = regulated soil depth</td> </tr> <tr> <td>+ inches = regulated saprolite depth</td> </tr> <tr> <td>18 inches total depth needed</td> <td></td> </tr> </table>	6 inches = trench depth	Calculated for: <u>SSAE</u>	inches = slope correction soil depth	10 inches = regulated soil depth	+ inches = regulated saprolite depth	18 inches total depth needed	
6 inches = trench depth	Calculated for: <u>SSAE</u>							
inches = slope correction soil depth								
10 inches = regulated soil depth								
+ inches = regulated saprolite depth								
18 inches total depth needed								

HORIZON (Rule .1939)	DEPTH (inches)	MOIST COLOR		TEXTURE (Rule .1941)	STRUCTURE (Rule .1941)	CONSISTENCE (Rule .1941)	CLAY (%)	LTAR	
		MATRIX	MOTTLES					AEROBIC DRIP (Rule .1969)	CONV. (Rule .1955)
<u>A</u>	<u>0-6</u>	<u>10YR3/1</u>	<u>-</u>	<u>SL</u>	<u>G</u>	<u>VHR</u>	<u>-</u>	<u>0.4</u>	<u>06</u>
<u>Bt</u>	<u>6-18</u>	<u>10YR5/2</u>	<u>-</u>	<u>SCL</u>	<u>B</u>	<u>HR</u>	<u>25</u>	<u>035</u>	<u>05</u>
<u>Bc</u>	<u>18-26</u>	<u>10</u>	<u>MIS</u>	<u>SCL</u>	<u>B</u>	<u>HR</u>	<u>20</u>	<u>035</u>	<u>05</u>
<u>C</u>	<u>26-30</u>	<u>MIS</u>	<u>-</u>	<u>SCL</u>	<u>B</u>	<u>HR</u>	<u>-</u>	<u>035</u>	<u>05</u>
<u>CR</u>	<u>30-34</u>	<u>RLWB</u>							

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DESCRIBED BY: AGH

CHECKED BY: LBK