

Site

TN-CU-101

Site Summary

City of Chattanooga

Moccasin Bend WWTP

Site ID: TN-CU-101
Owners Name: Tony Bow Wendell Worthington
Address: 115 Bow Rd 841 Thurman Rd
 Crossville, TN 38588 Pikeville, TN 37367
Operator Address: Tony Bow
 115 Bow Rd
 Crossville, TN 38588
Phone: (931)335-6087

Fields	Total Acres	Spreadable Acres	Crop(s)	Biosolids (dT/Ac/Yr)	Predominant Soil Series	Latitude & Longitude
1	16.7	11.5	Fescue	4.4	Ramsey loam	35.86084, -85.01922
2	8.1	8.1	Fescue	4.4	Ramsey-Rock outcrop complex	35.85891, -85.01981
3	6.8	5.3	Fescue	4.4	Lily loam	35.85750, -85.01563
4	27.4	21.1	Fescue	4.4	Lily loam	35.85822, -85.01315
5	7.9	6.9	Fescue	4.4	Lily loam	35.86060, -85.01266
6	9.6	8.1	Fescue	4.4	Lily loam	35.85972, -85.01677
7	3.0	3.0	Fescue	4.4	Lily loam	35.86129, -85.01694
8	9.0	5.6	Fescue	4.4	Lily loam	35.85772, -85.01843
9	3.7	3.1	Fescue	4.4	Ramsey loam	35.85632, -85.02046
10	6.3	3.8	Fescue	4.4	Lily loam	35.85613, -85.01531
11	2.6	2.0	Fescue	4.4	Ramsey loam	35.85534, -85.01346
Totals:	101.1	78.5				

Notes:

Date: 06/26/23

SYNAGRO

1800 Bering Drive
Suite 1000
Houston, TX 77057
(717) 369-1700
www.synagro.com

REQUEST AND CONSENT FOR BIOSOLIDS

SOURCE: Chattanooga
FARM OPERATOR: Tony Bow
ADDRESS: 115 Bow Rd Crossville, TN
PHONE: (931) 335-6087
FARM LOCATION:

TOTAL ACREAGE: 300 COUNTY: Cumberland
CROPS: Fescue

I agree to be responsible for adhering to the following conditions, where applicable:

a. The soil pH will be adjusted to NA when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids.)

b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production shall not be allowed to graze on the land for 30 days after the application of biosolids.

c. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

d. Food crops with harvested parts below the surface of the land shall not be harvested for 26 months after the application of biosolids when the biosolids remain on the land surface \geq 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface $<$ 4 months prior to incorporation.

e. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

f. Public access to land with a low potential for public exposure shall be restricted for 30 days. Public access to land with a high potential for public exposure shall be restricted for 1 year.

g. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.

3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

OPERATOR'S SIGNATURE

Tony Bow

DATE

5-10-23

SYNAGRO

LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

The undersigned hereby agrees to the application of biosolids by Synagro at application rates in accordance with applicable laws and regulations.

OWNER NAME: Tony Bow

ADDRESS: 115 Bow Rd Crossville TN

PHONE: (931) 335-6087

OPERATOR NAME: Tony Bow

FARM LOCATION(S): Bow Rd,

TOTAL ACRES: 300 COUNTY: Cumberland

1. I understand that Synagro will coordinate biosolids deliveries with my farm operator hereinafter (leasee) unless otherwise advised by me.
2. I agree to allow Synagro and federal, state and local regulatory staff access to my land for the purposes of permitting the site, inspecting the site, applying biosolids, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. I understand that the following conditions apply to my land following biosolids applications and that my leasee has signed an agreement form with Synagro stating that my leasee will be responsible for following these conditions where applicable:
 - a. Animals shall not be grazed on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production shall not be allowed to graze on the land for 30 days after the application of biosolids.
 - b. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface ≥ 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
 - d. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - e. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year.
 - f. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
4. I have also read the "Information About Biosolids" which is on the reverse side and incorporated by reference in this Consent.
5. In the event that a private third party brings a claim against you and us related to the land application, we will defend and indemnify you to the extent of our insurance coverage except to the extent that such claim is the result of your breach of law or regulation or your failure to follow any instructions provided by us.
6. The term of this Consent shall continue until written notification is given by either party to terminate this agreement.
7. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.

Tony Bow
OWNER SIGNATURE (if signing as a representative, include title)

5-10-23
DATE



LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

The undersigned hereby agrees to the application of biosolids by Synagro at application rates in accordance with applicable laws and regulations.

OWNER NAME: Wendell Worthington

ADDRESS: 841 Thurman Rd Pikeville TN

PHONE: () _____

OPERATOR NAME: Tony Bow

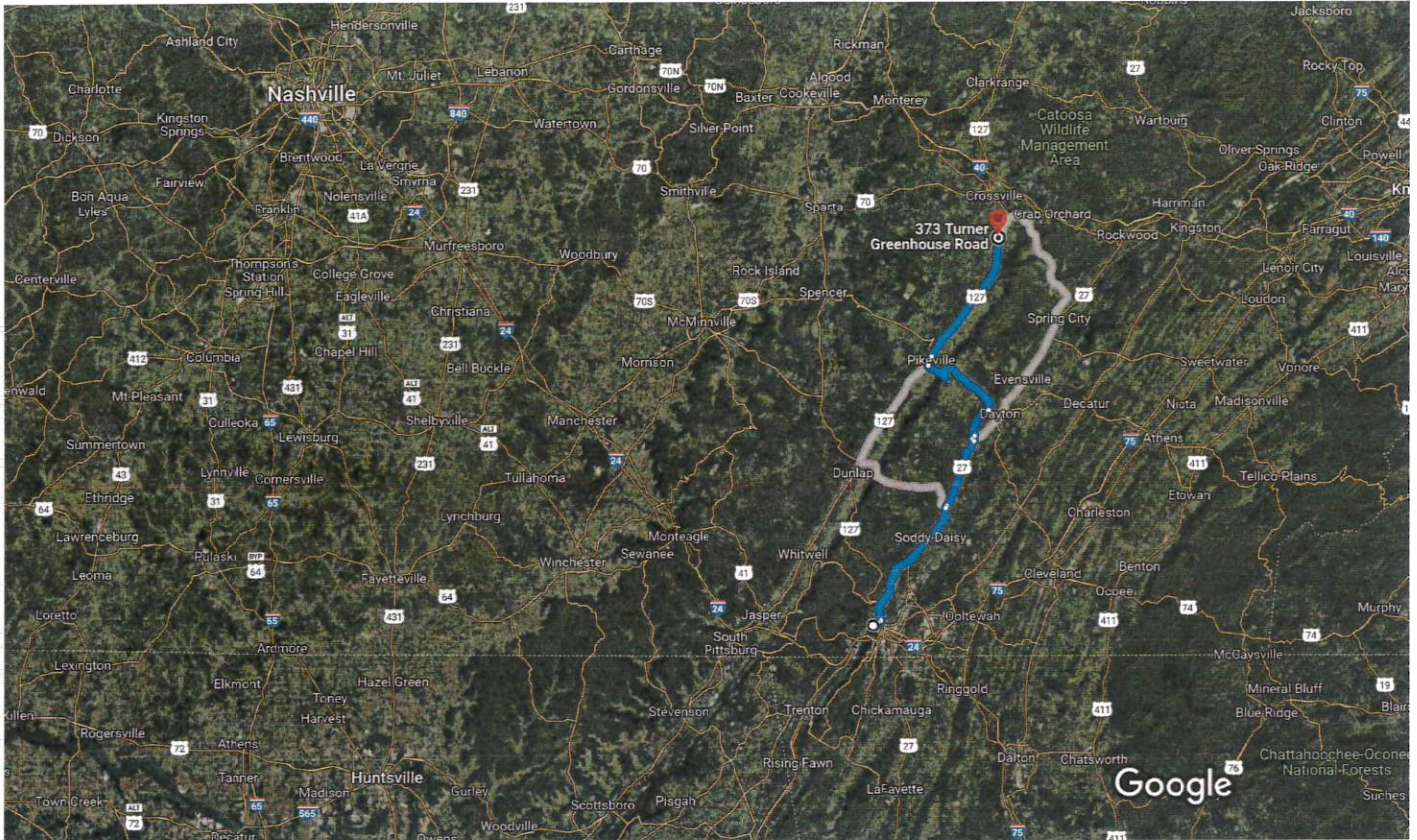
FARM LOCATION(S): Turner Greenhouse Rd

TOTAL ACRES: 118 COUNTY: Cumberland

1. I understand that Synagro will coordinate biosolids deliveries with my farm operator hereinafter (leasee) unless otherwise advised by me.
2. I agree to allow Synagro and federal, state and local regulatory staff access to my land for the purposes of permitting the site, inspecting the site, applying biosolids, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. I understand that the following conditions apply to my land following biosolids applications and that my leasee has signed an agreement form with Synagro stating that my leasee will be responsible for following these conditions where applicable:
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4. I have also read the "Information About Biosolids" which is on the reverse side and incorporated by reference in this Consent.
5. In the event that a private third party brings a claim against you and us related to the land application, we will defend and indemnify you to the extent of our insurance coverage except to the extent that such claim is the result of your breach of law or regulation or your failure to follow any instructions provided by us.
6. The term of this Consent shall continue until written notification is given by either party to terminate this agreement.
7. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.

Wendell Worthington
OWNER SIGNATURE (If signing as a representative, include title)

6-16-2023
DATE



Imagery ©2023 TerraMetrics, Map data ©2023 Google 10 mi

City of Your destination is in a different time zone.

Chattanooga
Moccasin Bend
Wastewater
Treatment
Facility
455 Moccasin
Bend Rd,
Chattanooga,
TN 37405

Get on TN-29 N from Hamm Rd and Manufacturers Rd

6 min (1.8 mi)

↑ 1. Head east

335 ft

↶ 2. Turn left

0.3 mi

- ↑ 3. Continue onto Hamm Rd
_____ 0.7 mi
- ↪ 4. Turn right onto Manufacturers Rd
_____ 0.5 mi
- ↶ 5. Turn left to merge onto TN-29 N
_____ 0.2 mi

Follow TN-29 N and US-27 N/US Hwy 27 N to TN-303 N/Dayton Ave in Rhea County

- ↶ 6. Merge onto TN-29 N
_____ 20.1 mi
- ↪ 7. Use the right 2 lanes to take the US-27 exit toward Dayton
_____ 0.3 mi
- ↑ 8. Continue onto US-27 N/US Hwy 27 N
_____ 10.3 mi

Follow TN-303 N/Cranmore Cove Rd and TN-30 W to US-127 BYP N in Pikeville

- ↶ 9. Turn left onto TN-303 N/Dayton Ave
_____ 28 min (20.7 mi)
- ↪ 10. Turn right onto Dayton Ave
_____ 0.4 mi
- ↶ 11. Turn left onto TN-303 N/Cranmore Cove Rd
_____ 0.5 mi
- ↶ 12. Turn left onto TN-30 W
_____ 4.8 mi
- ↪ 13. Turn right onto Main St
_____ 14.8 mi
- _____ 377 ft

Follow US-127 N to Turner Greenhouse Rd in Cumberland County

- ↑ 14. Continue onto US-127 BYP N
_____ 23 min (21.8 mi)
- _____ 1.5 mi
- ↑ 15. Continue onto US-127 N/Main St
 - i Continue to follow US-127 N
_____ 20.3 mi
- ↶ 16. Turn left onto Turner Greenhouse Rd
_____ 57 sec (0.5 mi)

373 Turner Greenhouse Rd
Crossville, TN 38572

Google Earth Pro Legend



Property Line



Buffer – Line or Circle



Field Boundary



Storage Location



Pond/wetland



Trees



Ditch/Creek/River



House



Places of Public Assembly

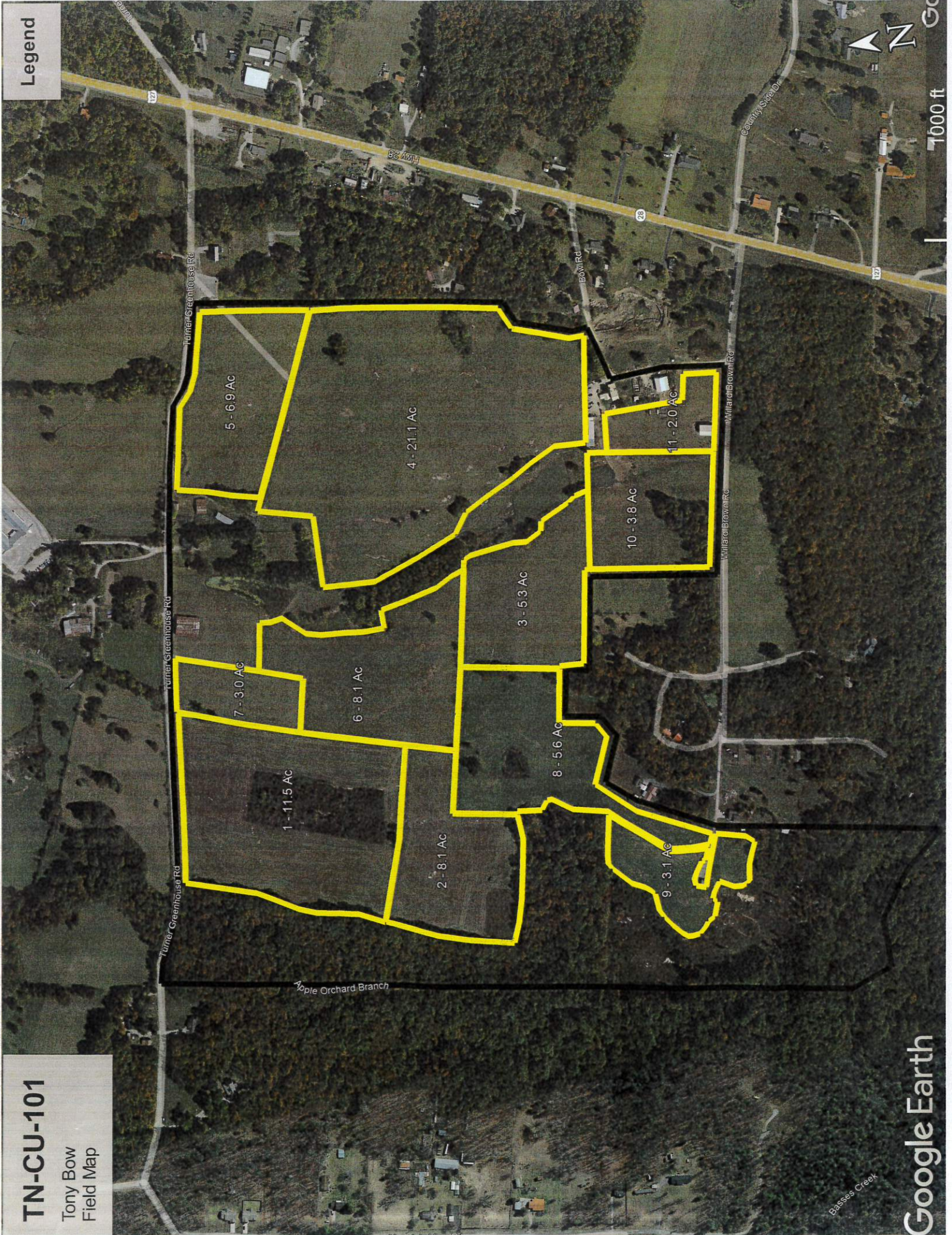
Sinkhole – Labeled on map

Well – Labeled on map

TN-CU-101

Tony Bow
Field Map

Legend



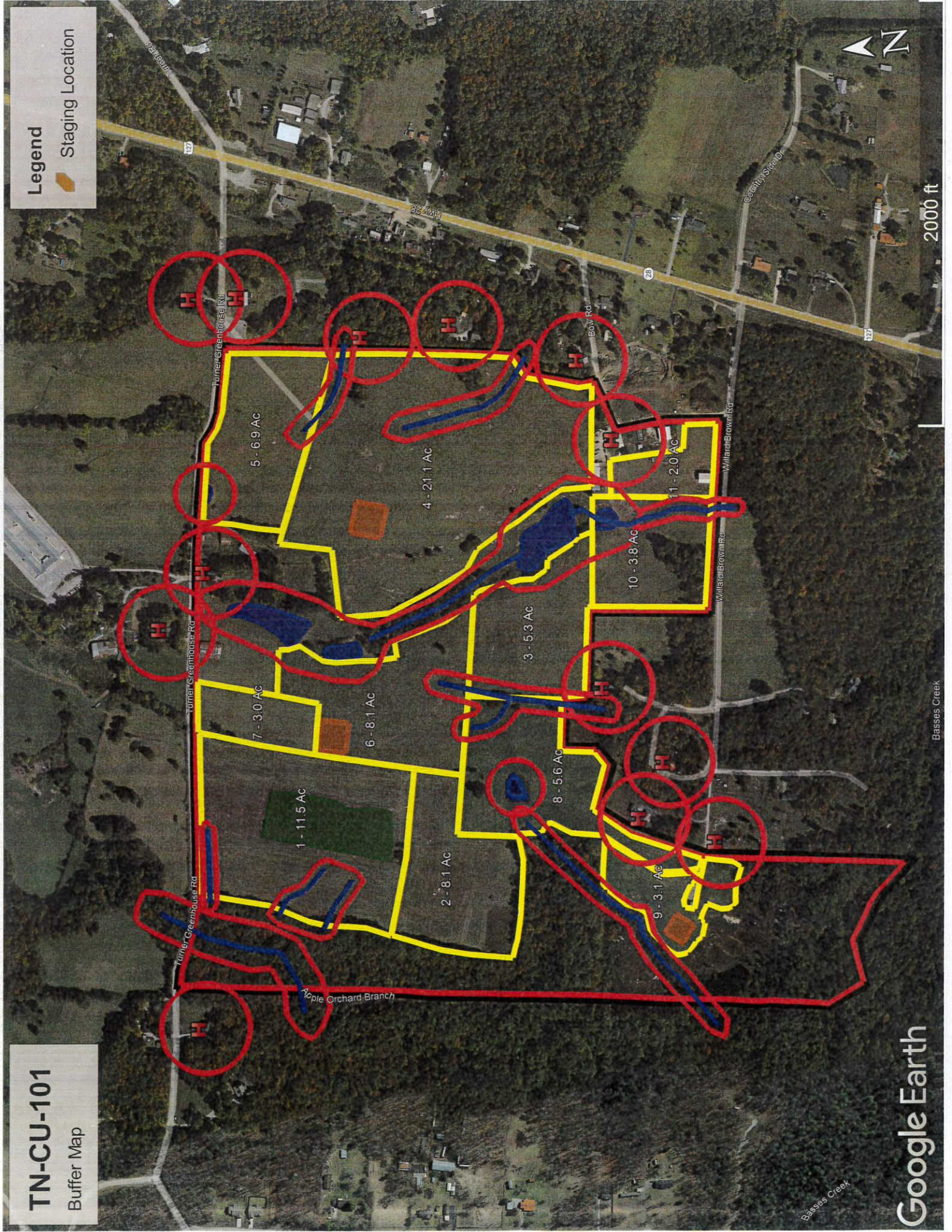
Google Earth

TN-CU-101

Buffer Map

Legend

Staging Location

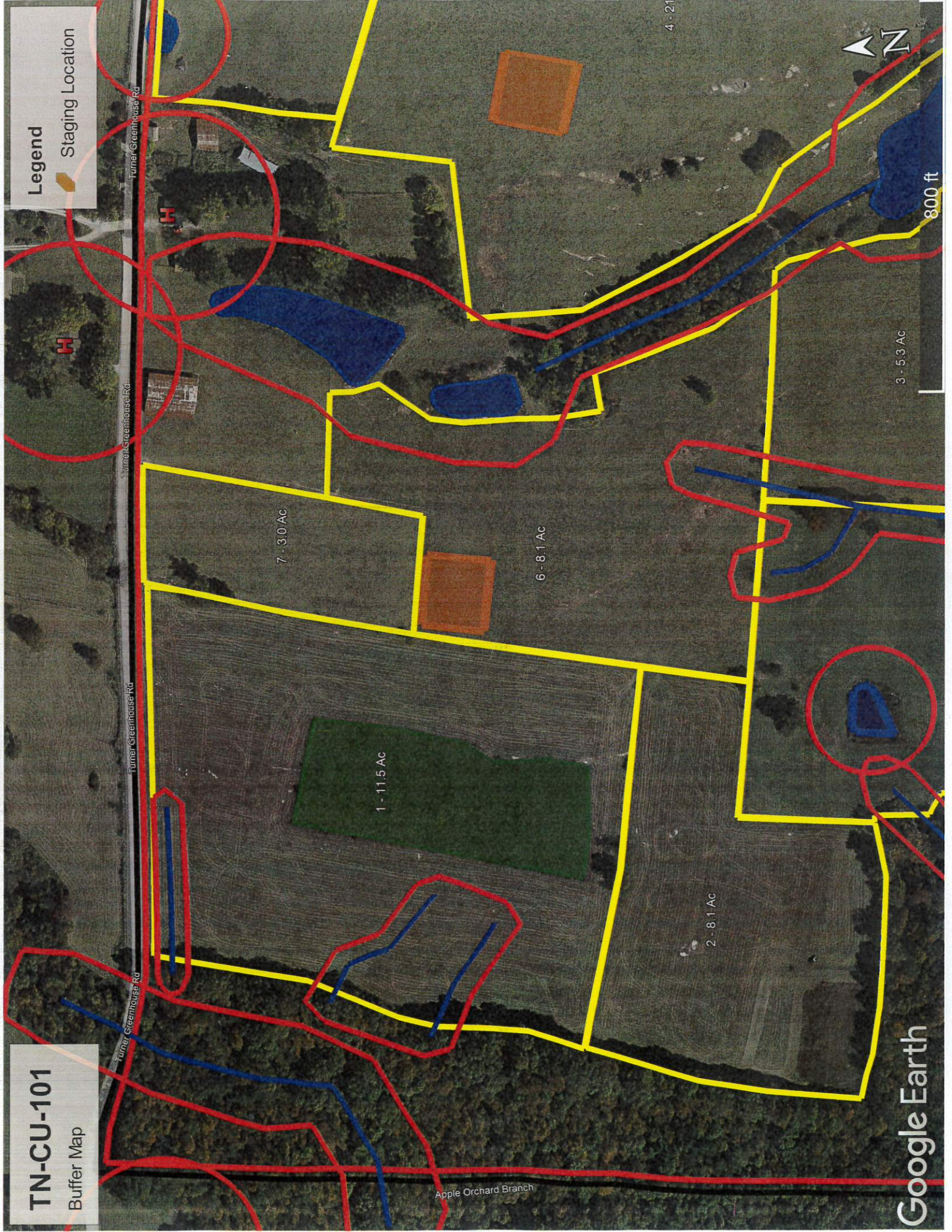


TN-CU-101

Buffer Map

Legend

Staging Location



TN-CU-101

Buffer Map

6 - 8.1 AC

3 - 5.3 AC

10 - 3.8 AC

4 - 21.1 AC

5 - 6.9 AC

11 - 2.0 AC

Turner Greenhouse Rd

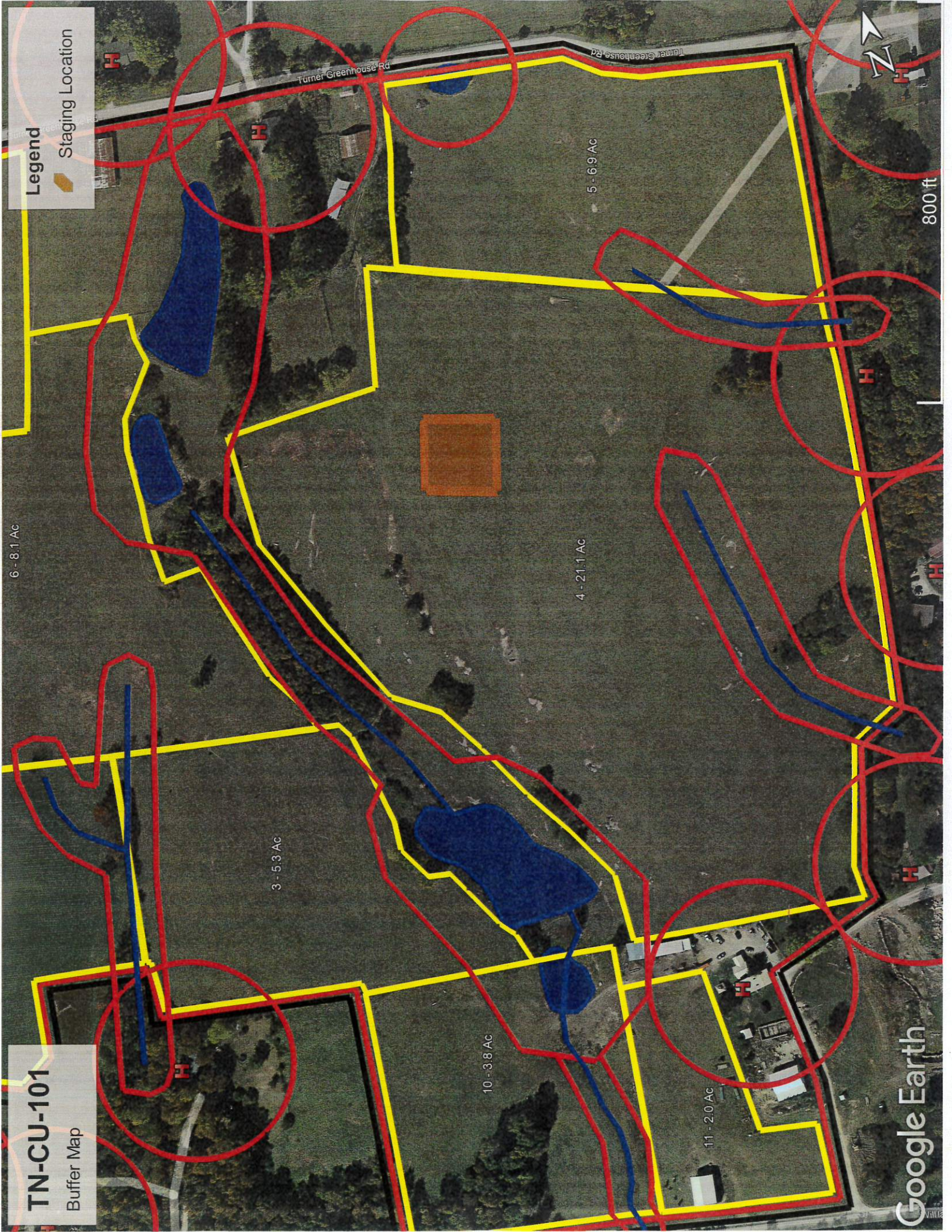
Legend

Staging Location



Google Earth

800 ft

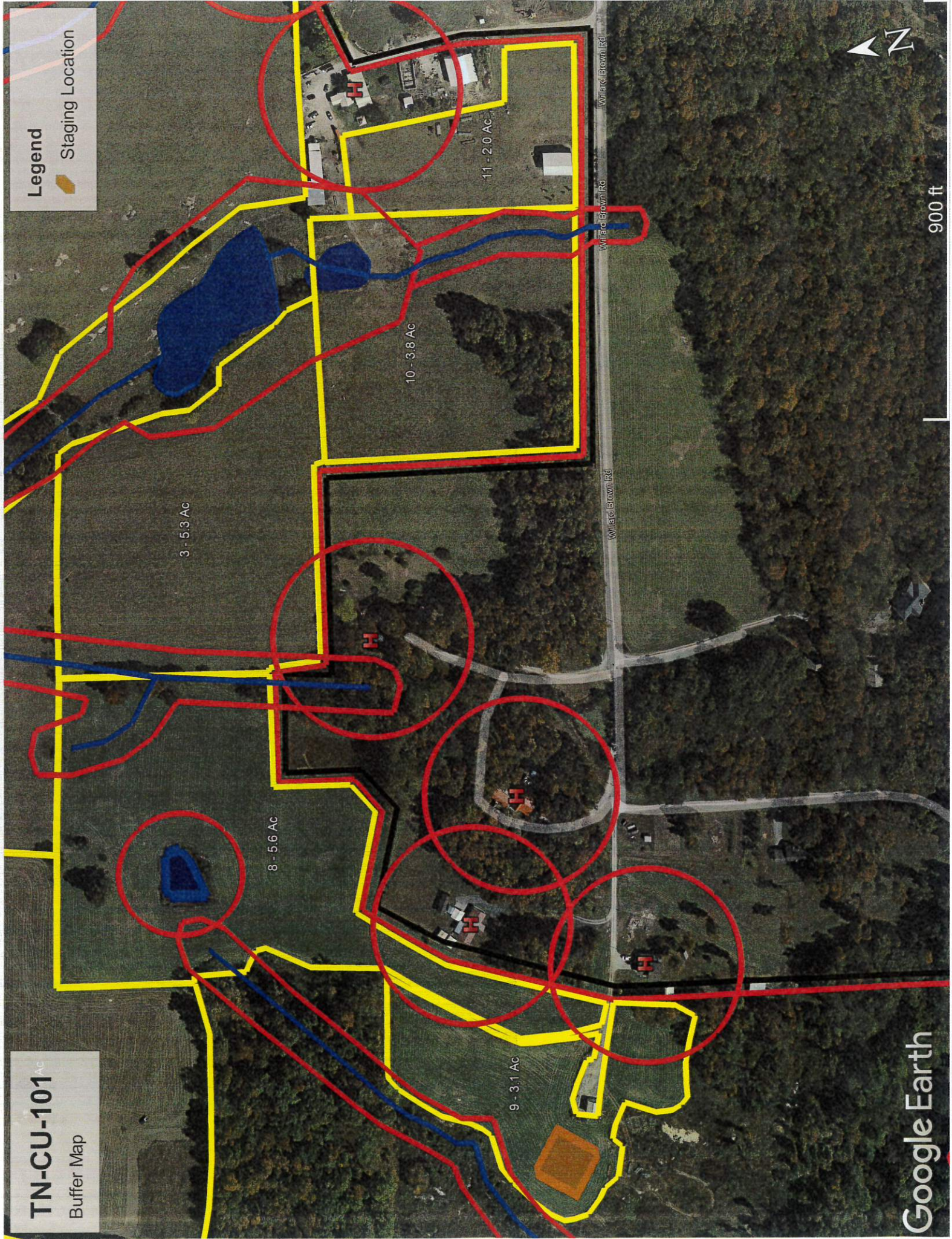


TN-CU-101^{Ac}

Buffer Map

Legend

Staging Location



Google Earth

900 ft

TN-CU-101

Tony Bow
Topo Map

Legend








































Soil Map—Cumberland County, Tennessee



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
- Soils**
-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points
- Special Point Features**
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads
- Background**
-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cumberland County, Tennessee
 Survey Area Data: Version 22, Sep 15, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 22, 2021—Sep 24, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LIB	Lily loam, 2 to 6 percent slopes	5.2	3.9%
LIC	Lily loam, 6 to 12 percent slopes	60.6	45.7%
LwB	Lonewood loam, 2 to 5 percent slopes	7.1	5.3%
RaC	Ramsey loam, 5 to 12 percent slopes	19.5	14.7%
RaD	Ramsey loam, 12 to 20 percent slopes	25.5	19.2%
RrD	Ramsey-Rock outcrop complex, 12 to 20 percent slopes	12.4	9.3%
W	Water	2.2	1.7%
Totals for Area of Interest		132.5	100.0%

Report Number: 23-132-0601

Account Number: 90051

Send To: Synagro SW LLC/ Technical SVCS
 C Simmons/56-2149
 501 Woodall Road
 Decatur AL 35601



"Every acre...Every year."™

7621 Whitepine Road, Richmond, VA 23237
 Main 804-743-9401 • Fax 804-271-6446
 www.waypointanalytical.com

Grower: Tony Bow

Farm: TN-CU-101

SOIL ANALYSIS REPORT

Date Received: 05/12/2023

Date of Analysis: 05/15/2023

Date of Report: 05/15/2023

Analytical Method(s): SMP Buffer, pH Mehlich 3 Loss On Ignition Water pH

Sample ID Field ID	Lab Number	OM %	Percent Base Saturation		W/V	ENR lbs/A	Phosphorus			Potassium K ppm Rate	Magnesium Mg ppm Rate	Calcium Ca ppm Rate	Sodium Na ppm Rate	pH		Acidity H meq/100g	C.E.C meq/100g
			Mg %	Ca %			ppm	Rate	ppm					Rate	Soil pH		
1	13621	4.2 M	5.8	83.8		124	5	VL	40	VL	1156	H	6.4		0.6	6.9	
2	13622	3.4 M	5.5	82.9		109	2	VL	30	VL	1011	H	6.3		0.6	6.1	
3	13623	3.0 M	7.4	67.1		104	5	VL	73	M	577	M	5.7	6.84	0.9	4.3	
4	13624	3.7 M	7.0	74.6		117	4	VL	67	L	761	H	6.0	6.85	0.8	5.1	
5	13625	4.0 M	3.8	89.2		119	4	VL	46	VL	1320	VH	6.6		0.4	7.4	

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ N ppm Rate	Sulfur S ppm Rate	Zinc Zn ppm Rate	Manganese Mn ppm Rate	Iron Fe ppm Rate	Copper Cu ppm Rate	Soluble Salts	
	K %	Mg %	Ca %	Na %							Boron B ppm Rate	SS ms/cm Rate
1	1.5	5.8	83.8									
2	1.3	5.5	82.9									
3	4.4	7.4	67.1									
4	3.4	7.0	74.6									
5	1.6	3.8	89.2									

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.
 Analysis prepared by: Waypoint Analytical, Virginia, Inc.
 by: *Brandi Watson*

Brandi Watson

Report Number: 23-132-0601

Account Number: 90051

Send To: Synagro SW LLC/ Technical SVCS
 C Simmons/56-2149
 501 Woodall Road
 Decatur AL 35601



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 Main 804-743-9401 o Fax 804-271-6446
 www.waypointanalytical.com

Grower: Tony Bow

"Every acre...Every year."™

Farm: TN-CU-101

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

SOIL ANALYSIS REPORT

Date of Report: 05/15/2023

Date of Analysis: 05/15/2023

Date Received: 05/12/2023

Sample ID Field ID	Lab Number	OM %	W/V Soil Class	ENR lbs/A	Phosphorus			Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	pH		Acidity H meq/100g	C.E.C meq/100g
					M3 ppm	Rate	Rate					Soil pH	Buffer Index		
6	13626	2.7 M		98	15 L		54 L	55 M	530 M			5.6	6.83	1.0	4.2
7	13627	2.9 M		99	48 M		59 L	33 VL	1091 H			6.4		0.6	6.5

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ ppm	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts	
	K %	Mg %	Ca %	Na %								SS ms/cm	Rate
6	3.3	10.9	63.1		23.8								
7	2.3	4.2	83.9		9.2								

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analyst prepared by: Waypoint Analytical Virginia, Inc.

by: *Brandi Watson*

Brandi Watson

Report Number: 23-143-1019

Account Number: 90051

Send To: Synagro SW LLC/ Technical SVCS
 C Simmons/56-2149
 501 Woodall Road
 Decatur AL 35601



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 www.waypointanalytical.com

Grower: Tony Bow
 Cumberland, TN

Farm: TN-CA-101

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

SOIL ANALYSIS REPORT

Date Received: 05/23/2023 Date Of Analysis: 05/24/2023

Date Of Report: 05/24/2023

Sample ID Field ID	Lab Number	OM %	Percent Base Saturation		W/V	ENR lbs/A	Phosphorus			Potassium K ppm Rate	Magnesium Mg ppm Rate	Calcium Ca ppm Rate	Sodium Na ppm Rate	pH		Acidity H meq/100g	C.E.C meq/100g
			Mg %	Ca %			Na %	H %	Soil pH					Buffer Index			
8	17003	4.8 M	10.9	81.9		135	13	VL	42	98	1228	H	6.6		0.4	7.5	
9	17004	6.9 H				150	22	L	48	125	7419	VH	7.4		0.0	38.3	
10	17006	8.0 VH				150	130	VH	338	174	2823	VH	7.2		0.0	16.4	
11	17007	7.4 VH				150	116	VH	220	117	2785	VH	7.2		0.0	15.5	

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ N ppm Rate	Sulfur S ppm Rate	Zinc Zn ppm Rate	Manganese		Iron Fe ppm Rate	Copper Cu ppm Rate	Boron		Soluble Salts	
	K %	Mg %	Ca %	Na %				Mn ppm Rate	Fe ppm Rate			B ppm Rate	SS ms/cm Rate		
8	1.4	10.9	81.9	5.3											
9	0.3	2.7	96.9	0.0											
10	5.3	8.8	86.1	0.0											
11	3.6	6.3	89.8	0.0											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.
 Analyst prepared by: Waypoint Analytical Virginia, Inc.

by: *Brandi Watson*

Brandi Watson

Exhibit B: Agronomic Application Rate Calculations Based on N

* Values in square need to be provided by the user.

* Values in red are computed by the spreadsheet.

WWTP Name: Moccasin Bend WWTP
Site Name: TN-CU-101
E.A.C
Laboratory Name: Moccasin Bend WWTP

WWTP NPDES Permit Number: TN0024210
County: Cumberland
Site Tracking Number: N/A
Date of Analysis: 12/27/2022

Sludge Biosolids Analysis :

TKN = mg/kg
NH4-N = mg/kg
(NO3-N+NO2-N) = mg/kg

Crop Type =
Crop N Requirement = lbs N/acre/year

1 Available N from Biosolids :

a. TKN = 85.6 lbs/ton
b. NH4-N = 7.4 lbs/ton
c. NO3-N+NO2-N = 0 lbs/ton
d. Kv =
Total Inorganic N = 3.7 lbs/ton
e. Organic N in Biosolids = 78.2 lbs/ton
f. Fm =
Available Org. N in 1st Year = 23.5 lbs/ton
g. Total N Available from Biosolids = 27.2 lbs/ton

2 Available N in Soil :

Total N (Soil Test Result) = mg/kg
Total N Available in Soil = 0 lbs/ton

3 N Supplied from Other Sources :

lbs/ton

4 Total N Available from Existing Sources : 0 lbs/ton

5 Total N Requirement of Crop : 120 lbs N/acre/year

6 Supplemental N Needed from Biosolids : 120 lbs N/acre/year

7 Agronomic Loading Rate : 4.4 Dry tons biosolids/acre/year