MOGS
per Cake + Linda

RECEIVED
MAR 17 2016
Water Protection Program

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

FORM W - CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) OPERATING PERMIT APPLICATION

FOR OFFICE USE ONLY	
CHECK NUMBER	1012
DATE RECEIVED	FEE SUBMITTED
3/17/16	$150.00

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for the appropriate permit fee to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 – PERMIT OWNERSHIP AND CONTACT INFORMATION

1.1 OPERATION NAME: Goodman Poultry LLC	CURRENT PERMIT NUMBER: MO-	COUNTY: Lawrence
PHYSICAL ADDRESS: 22833 Lawrence 2010	LEGAL DESCRIPTION: Sec. 3 Twn. 29 Rng. 25	TELEPHONE NUMBER WITH AREA CODE: 385-201-5342
CITY: Ash Grove	STATE: MO	ZIP CODE: 65604
1.2 OWNER (PROVIDE LEGAL NAME): Spencer William Goodman	EMAIL ADDRESS: Sgoodman024@gmail.com	
MAILING ADDRESS: 22833 Lawrence 2010		TELEPHONE NUMBER WITH AREA CODE: 385-201-5342
CITY: Ash Grove	STATE: Mo	ZIP CODE: 65604
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER):		
MAILING ADDRESS		TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE

PART 2 – PERMIT TYPE AND PERMIT ACTION

2.1 PERMIT TYPE

☐ NPDES Site Specific Permit
Request review of draft permit prior to public notice. ☐ Yes ☐ No

☐ NPDES General Permit (MOG01)

☐ State No-Discharge General Permit (MOGS1)

2.2 PERMIT ACTION*

☒ New Permit ☐ Renewal
☐ Modification ☐ Ownership Transfer

PREVIOUS OWNERS NAME

ADRESS

CITY STATE ZIP CODE

SIGNATURE DATE

*See instructions for additional requirements and documents for the request permit action.

PART 3 – DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR

List All Manure Storage Structures at each CAFO Feature		Dry Manure Handling System		Wet Manure Handling System			
CAFO Feature	Storage Structure Type(s)	Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal/yr.)	Days of Storage	Design Flow MGD
001	F	1146	365				
002	G	197	365				
003							
004							
005							

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	Jo	174,704				
002						
003						
004						
005						

PART 4 – OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS)
SIC Code(s) 0251 CAFO Class Size 1398

4.2 Is this an "Export Only" operation? ☒ Yes ☐ No

MO 780-2112 (06-14)

Completing PARTS 5 - 11 will meet the requirements of a Nutrient Management Plan (NMP) for an export only operation.

PART 5 – MANURE STORAGE

5.1 Do all manure storage structures have adequate storage, and operated and maintained as no discharge? ☒ Yes ☐ No

PART 6 – ANIMAL MORTALITY

6.1 PERMANENT METHOD OF DISPOSING OF ROUTINE ANIMAL MORTALITIES.

☒ Composting ☐ Rendering ☐ Send to a Landfill ☐ Incineration ☐ Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED) ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED IF APPLICABLE.

Mortality birds are composted within 24 hours of death. Mortalities are stored under a lean to on concrete under the stack shed. Compost material will remain under roof until exported for land use.

PART 7 – DIVERSION OF CLEAN WATER

7.1 Is clean storm water diverted from the production area? ☒ Yes ☐ No

7.2 IF YES, DESCRIBE CONTROLS AND MEASURES USED TO DIVERT STORM WATER

Flood dirt work allows water to run away from houses. Houses sit on a hill and allow water to run away from buildings. Grass will be planted on sides of houses.

7.3 IF NO, DESCRIBE HOW CONTAMINATED STORMWATER IS CONTAINED AND INCLUDE THE STORAGE CAPACITY OF THE CONTAINMENT IF NOT PREVIOUSLY PROVIDED.

PART 8 – PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

8.1 Do the animals have access to waters of the state within the production area? ☐ Yes ☒ No

8.2 LIST MEASURES USED TO PREVENT CONFINED ANIMAL FORM HAVING DIRECT CONTACT WITH WATERS OF THE STATE.

Animals are kept inside houses at all times. Earth floors will be kept dry.

PART 9 – CHEMICAL HANDLING

9.1 Check the appropriate boxed below to indicate method for handling and disposal of chemicals used by the operation:

☒ Chemicals are stored, handled, and disposed of according to manufacturer labels.

☐ Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas.

☐ Emergency procedures and equipment are in place to contain and clean up chemical spills.

☐ Equipment wash areas are designed and constructed to prevent contamination of surface waters.

☐ No chemicals are stored or handled in the production area.

PART 10 – MANURE ANALYSIS TESTING

10.1 LIST EACH TYPE OF MANURE SOURCE (i. e MANURE, LITTER, COMPOST WASTE WATER.)

LITTER & COMPOST

10.2 DESCRIBE PROCEDURES FOR ENSURING EACH MANURE SOURCE IS TESTED ANNUALLY

REQUIRED BY PERMIT. RECORDS MAINTAINED & KEPT TO ENSURE YEARLY COMPLIANCE

PART 11 – RECORD KEEPING

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? ☒ Yes ☐ No

PART 12 – SIGNATURE

NAME	Spencer Goodman	TITLE	Owner/operator
SIGNATURE		DATE	26 Feb. 2016

Part 13 - Engineer Certification

House Bill (HB) 28, which became effective on August 28, 2013 contained provisions that changed construction permitting requirements. Construction permits are required for the construction of an earthen storage structure to hold, convey, contain, store, or treat domestic, agricultural, or industrial process wastewater. Construction of all other point source systems designed to hold, convey, contain, store, or treat domestic, agricultural, or industrial process waste must be designed by a professional engineer registered in Missouri in accordance with design regulations.

Operation Name GOODMAN POULTRY, LLC	Engineer Firm ANDERSON ENGINEERING, INC
Address 22833 LAWRENCE 2010	Address 218 [illegible] STREET
City ASH GROVE, MO 65604	City State Zip [illegible] MO 65708

I, Project Engineer certify that above described systems have been designed in accordance with Missouri CAFO design regulations in 10 CSR 20-8.300

PROJECT ENGINEER SIGNATURE

ENGINEER SEAL

STATE OF MISSOURI
KEVIN RAY SPRENKLE
NUMBER PE-2009-022059
PROFESSIONAL ENGINEER
2/24/16

MO 780-2112 (06-14)

LOCATION MAP

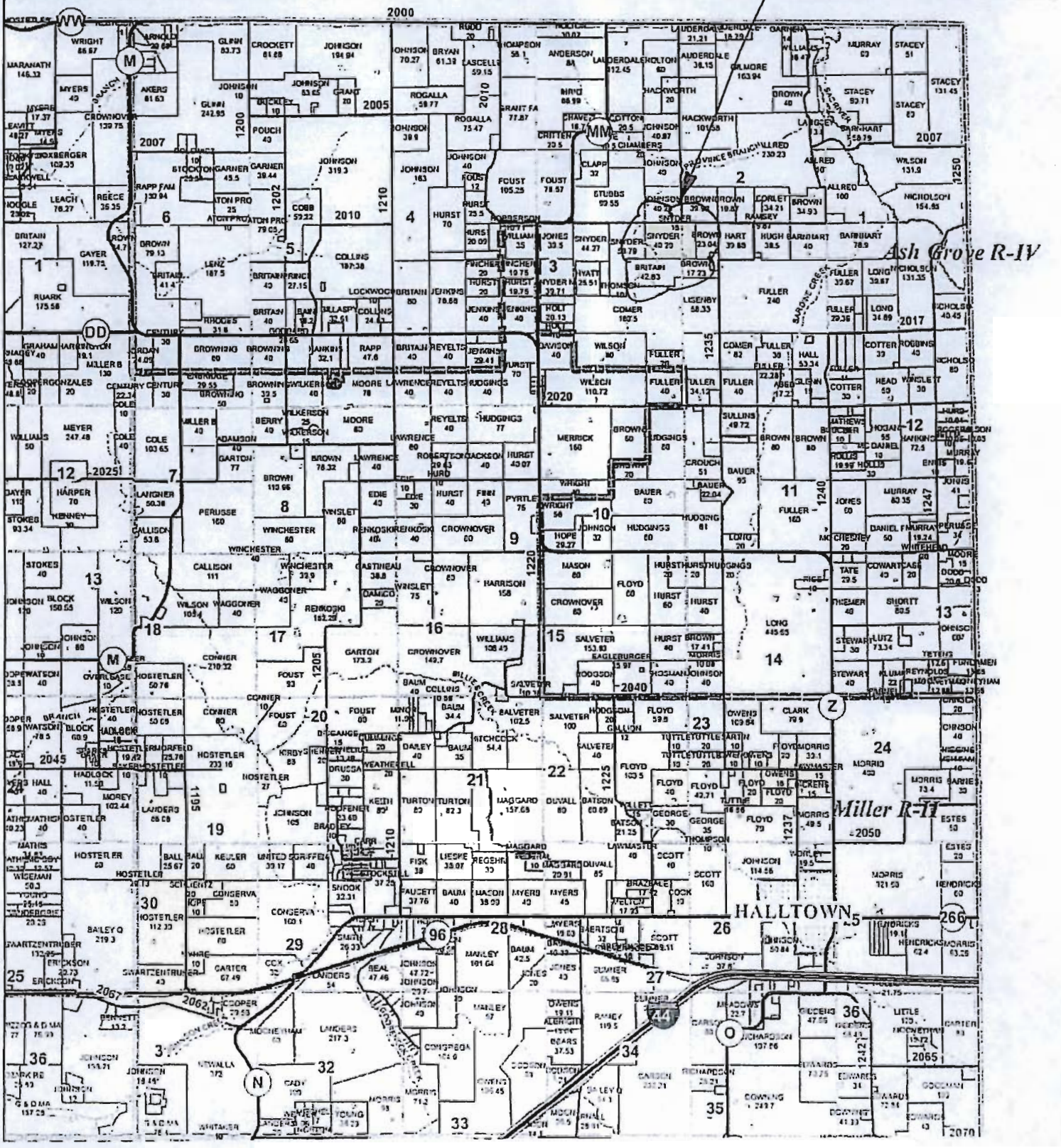
GOODMAN POULTRY, LLC

N

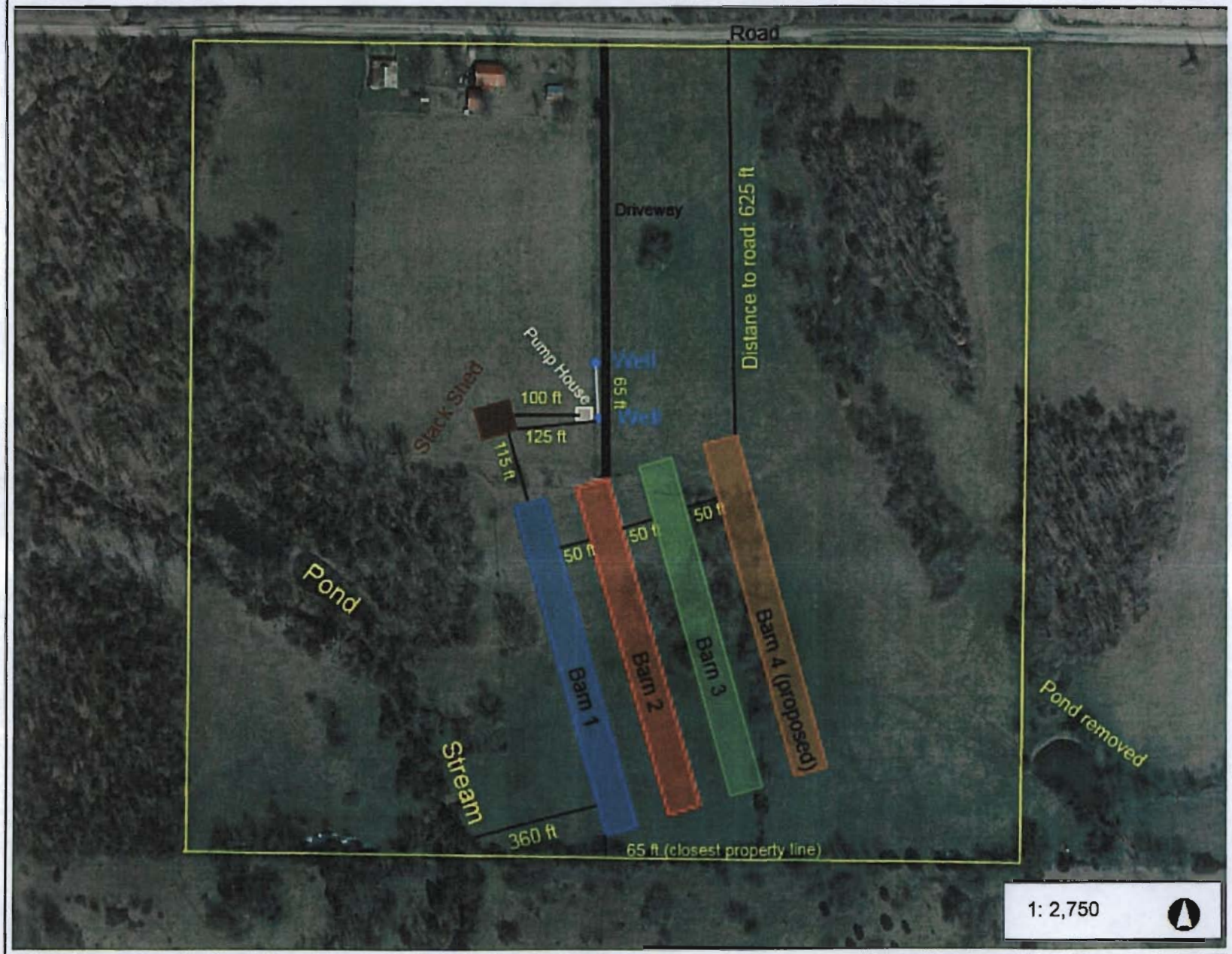
Lawrence County, MO

T29N-R25W

PROJECT LOCATION



Lawrence County, MO



Legend

SITE LAYOUT

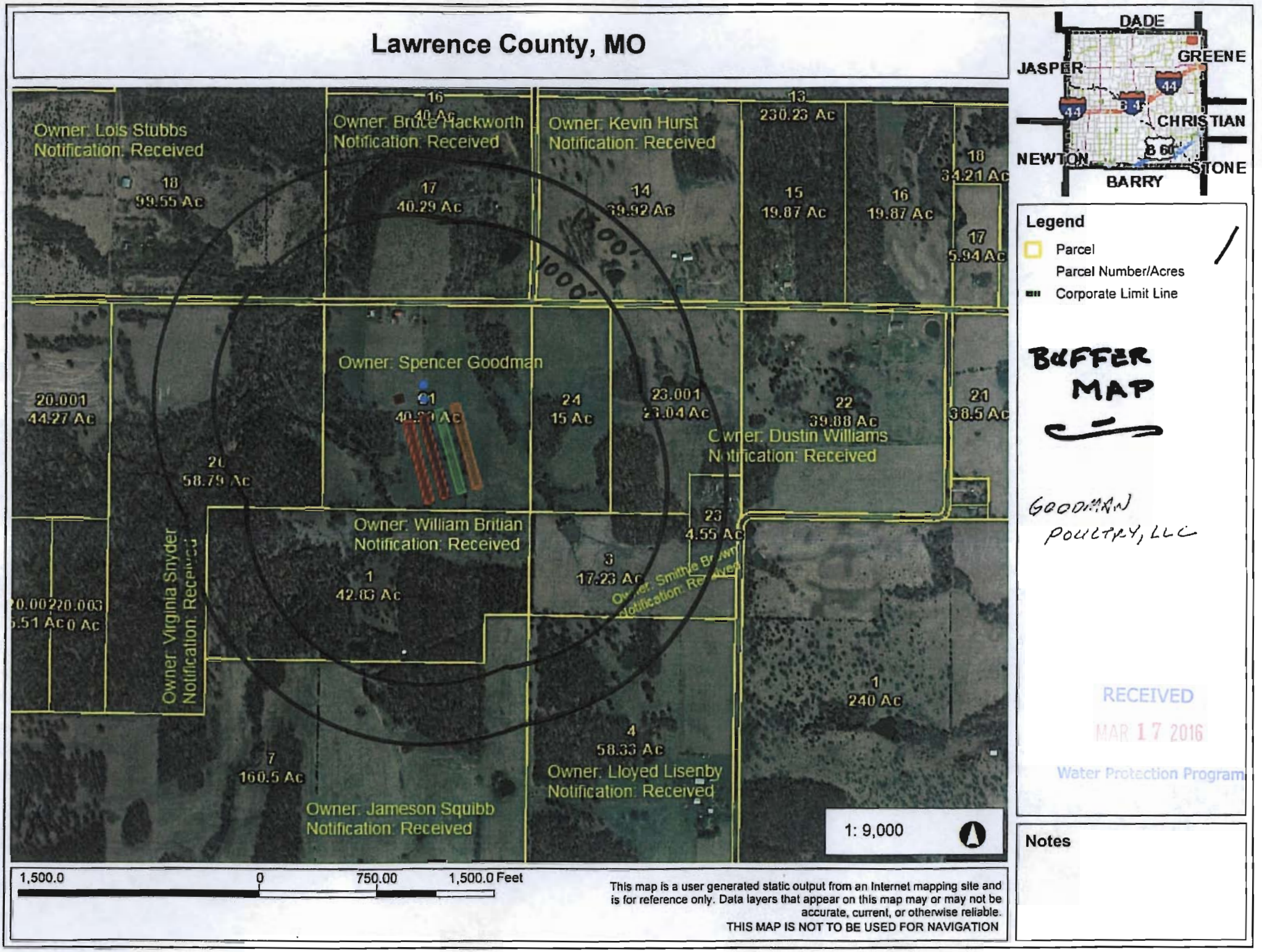
GOODMAN POULTRY, LLC

Notes

1: 2,750

458.3 0 229.17 458.3 Feet

Lawrence County, MO



Legend

- Parcel
- Parcel Number/Acres
- Corporate Limit Line

BUFFER MAP

GOODMAN POULTRY, LLC

Notes

WASTE MANAGEMENT PLAN
For Spencer Goodman
Lawrence County,
Missouri

FACILITIES:
This system is to manage the wastes from a Broiler chicken facility consisting of 4 (55' X 540') houses at Section 3, Township 29N, and Range 25W.

PRODUCTION:
There is a total facility capacity of 174,704 birds. Flock life is approximately 35 days or 5 weeks. Average weight is estimated at 2.5 lb. Average litter production (manure and bedding) is estimated at 1146 tons annually.

Waste from this system is approximately equal to 14,699 Human Population Equivalents.

Death losses are expected to average 4.0% for each flock. Average compost production is estimated at 197 tons annually. Loss percentage is average for industry.

COLLECTION:
Birds are confined in buildings at all times. Waterers are dry type so litter remains dry. Buildings have compacted earth floors. Litter accumulates fairly uniformly on floors. All manure and litter from the operation is collected in the houses.

Dead birds will be removed daily or oftener to the composting facility.

STORAGE/TREATMENT:
Litter will be stored inside the houses between cleanouts. Storage period is approximately 365 days. Ares around houses are graded so all stormwater drains away from houses. An additional runoff barrier is provided by one-foot concrete stem walls which hold wall trusses. Some decomposition takes place during storage due to composting action which reduces volume to some extent. Litter will not be stored outside of houses where exposed to rainfall.

Dead bird carcasses will be composted according to recommended guidelines. After the composting process is completed, the compost will be stored in the facility until spread.

TRANSPORT:
Waste (litter and/or compost) will be hauled to fields in spreader trucks owned by a custom operator. Spreader trucks commonly used, haul 6 to 8 tons of litter or from 350 to 450 cu.ft. per load. Litter is removed from houses with a loader and placed in spreader trucks for land application.

If custom operator or person other than the owner is spreading the litter, training will be provided to that person or operator. They will be made aware of requirements listed in the "Letter of Approval to Operate" or "Operating Permit".

UTILIZATION:
Owner will export all litter.

OPERATION AND MAINTENANCE:
The owner of the poultry farm is responsible for safe operation and maintenance of this nutrient management system. Concerns include health of the poultry flock as well as safety in the environment. Poultry companies, through their servicemen, may also have policies or recommendations concerning operations. The owner is responsible for safe management and application of his or her litter, even though some or all of it may be sold and applied on land not under his or her direct control. It is essential that records be kept of all litter applied and litter sold. Records will include name of person sold to, date, field number of application, volume and tons/acre, acres, and type of cover or forage crop. These records must be kept at the facility.

Plan written by Kendra Clift on 2/12/16.

1. DESIGN INFORMATION FOR: Spencer Goodman — WASTE MANAGEMENT PLAN BROILERS
2. DATE: 12-Feb-16 — COUNTY: Lawrence — POULTRY CALCULATIONS 12/18/2013
By: Kendra Clift — SINGLE STAGE BROILER HOUSE(S)

I. GENERAL INFORMATION:

3. Total Capacity	174,704	birds	1	New Houses
			3	Existing Houses
4. Market Weight	5.0	Pounds	43,676	Birds per House(existing)
			43676	Birds per House(new)
5. Death Loss Rate	4	%	167,716	# to market
6. flocks/year	7.0	number		
7. Days/flock	35	Days/flock	5.00	Weeks/flock
8. Spreader capacity	400	cu.ft.	6.8	tons
9. Litter Volume per 1000 weight	0.63	cu.ft.	34	Litter Unit Weight lbs./cu.ft.
10. Soil-plant Filter acres per 1000 weight	0.50	ac/1000 lbs.	45	Compost Unit Weight lbs./cu.ft.
11. Crop Nitrogen Uptake MPAN Method	135	lb/ac/yr		
12. Average bird weight:	2.50	lbs.		

II. CALCULATIONS:

13. 1000 weights		294	1000 wts			
14. Human Population Equivalents		14,699	HPE	50	Human Equivalent conversion Factor	
15. Litter Production per Year - Manure		67,414	cu.ft./yr.	1146	tons/yr.	
16. Litter Production per Year - Mortalities		8,735	cu.ft./yr.	197	tons/yr.	SPREADING AND SPF
17. Total Litter Production per Yer		78,149	cu.ft./yr.			REQUIREMENTS FOR ONE FLOCK
18. Number of Litter Loads		168.5	loads/yr.	0.5	hrs/load	24.1 loads/flock
19. Days Spreading per Year		10.5	days/yr.	8.0	hrs/day	1.5 days/flock
20. Litter Spread per Acre per Year	Consv.	115	cu.ft./yr.	1.9	tons/yr.	16.4 cu.ft./flock (consv.)
21. Compost Spread per Acre per Year	1/ Compost	179	cu.ft./yr.	4.0	tons/yr.	

SOIL-PLANT FILTER:

22. Conservative Management Approach:			
23. Acres Needed for Litter-Manure	587.9	acres	84.0 acres/flock
24. Acres Needed for N from Compost	48.9	acres	7.0 acres/flock
25. Total Acres Needed	636.9	acres	91.0 acres/flock

COMPOSTER/INCINERATOR DESIGN:

Primary Bin Requirements — From design formula in SCS-313a

26. Primary Volume Needed: 2495.8 cu.ft.

27. Bin Size: Width	8	Standard bin size, 8ft. wide, 6 ft. long, 5 ft. deep.
28. Length	6	
29. Depth	4	

30. Primary Bins Needed: 192.0 cu.ft; 13.0 use → 13 Primary Bins

Secondary Bin Requirements

31. Secondary Volume Needed: 2495.8 min. cu.ft. — 13 Secondary Bins

32. Carcasses per year: 61.1 tons/yr

33. Incinerator Estimator: 1,198 lb charge capacity based on 1% per week average death loss at mature weigl

STACKING SHED DESIGN FOR EXISTING FACILITIES WHERE QUANTITY OF LITTER IS KNOWN

Cake Cleanout Estimate

34. Number of cake cleanouts to be stored: 3 Cake Cleanouts

35.	Number of loads for single house cake cleanout	8	Loads
36.	Average size of EACH load	3	Tons
37.	Number of houses to be cleaned	1	Houses
38.	Total cake storage required	4235	Cubic Feet

Litter Cleanout Estimate

39.	Total Litter Storage Required (Line 15 above)	67414	Cubic Feet
40.	Percentage of Litter to be stored in StackShed	0	percent
41.	Total Litter Storage Required	0	Cubic Feet

42. Total Maximum Storage Needed = Cake Cleanout Plus Litter Cleanout — 4,235 cubic feet

STACKING SHED DESIGN FOR NEW FACILITIES OR WHERE QUANTITY OF LITTER IS NOT KNOWN BASED ON PREVIOUS LANDOWNER EXPERIENCE

Cake Cleanout Estimate

43.	Length of building to be cleaned		Feet
44.	Width of Cake Cleanout within the building		Feet
45.	Estimated depth of cake cleanout (in inches)		Inches
46.	Number of houses to be cleaned		Houses
	Total cake storage required	0	Cubic Feet

Note: If unknown, insert the dimensions of the house for Length and Width and use a depth of 4 Inches

Choose Desired Shed Size: 50 x 80' x 5' = 20,000 Cubic Feet

Shed Size must match one of the sizing options shown abo

PREPARED BY Kendra Clift

TITLE DC

DATE: 12-Feb-16

Neighbor Notification

To whom it may concern,

This letter is to inform you of a proposed addition to the Goodman Poultry Farm. As of 2/12/16 there are currently three (3) broiler chicken houses under construction. These three (3) houses will house 125,000 chickens during each 5 week grow out period. The state requires what is called a CAFO permit in order for any poultry operation to house 126,000 or more birds. With the proposed addition of a fourth (4th) poultry house, I am required to inform you.

Location of Operation

The physical address of the location is: 22833 Lawrence 2010 Ash Grove, Mo 65604

Name, Address, and Phone Number of Owner

Spencer Goodman

22833 Lawrence 2010 Ash Grove, Mo 65604

Cell: 385-201-5342

Facilities

This system is to manage the wastes from a broiler chicken facility consisting of 4 (55'X540') houses at Section 3, Township 29N and Range 25W.

Production

There is a total facility capacity of 174,704 birds. Flock life is approximately 35 days or 5 weeks. Average weight is estimated at 2.5 lb. Average litter production (manure and bedding) is estimated at 1146 tons annually.

Collection

Birds are confined in buildings at all times. Waterers are dry type so litter remains dry. Buildings have compacted earth floors. Liter accumulates fairly uniformly on floors. All manure and litter from the operation is collected in the houses.

Other Information

The Missouri Department of Natural Resources will accept **Written** comments for 30 Days. The address to send your comments to is:

Greg Caldwell

Environmental Specialist

Missouri Department of Natural Resources

Water Protection Program

P.O Box 176

Jefferson City, Mo 65102

Thank you,

Spencer Goodman