

Kallemeyn, Thomas

From: Terry Nguyen <terrymai@yahoo.com>
Sent: Tuesday, December 22, 2015 12:33 PM
To: Kallemeyn, Thomas
Cc: Rachal, Richard; Davis, John; Martin, Jeff; Larry Huynh
Subject: Re: follow up to last Friday's site visit.

Hi Tom

Following is my replies in "**red**" according to each of your point. If you have any question, please let me know. Thank you very much.

Regards
Terry

Site layout and construction

• The site is to be constructed in phases with the first four Chicken houses currently planned to be built out by February 2016. *At that time you plan to discuss finalization of the temporary litter storage barn design with the National Resources Conservation Services/FDA (NRCS). Final construction design has been delayed at the request of NRCS staff until final construction of at least some of the chicken houses were complete.*

[JTC]: The CNMP requested to NRCS in July 2015. Currently the land is still under timber production; therefore, no NMP is required. However, when the poultry farm are built, NRCS will developed a CNMP for our farm as soon as possible. Please see attached "Huynh Nguyen Nutrient Management Plan" for more detail. The tentative construction completion date of our first four houses is Feb 2016 & equipment installation in March 2016. When construction of the broiler houses is completed. We'll contact NRCS for CNMP. • The chicken houses are constructed in an East to West orientation based upon prevailing winds.

[JTC]: Correct

• No fill dirt was brought to the property, however dirt was contoured from existing material on-site to allow for the level build out of the chicken houses and the future litter storage barn. Additional contouring for the litter storage barn may be required depending on final design considerations. Some crushed lime rock was brought in for construction purposes.

[JTC]: Correct

• The wooded mined area located near the northern portion of the property will not be disturbed. A fence may possibly be constructed around this area.

Correct. We finished land clearing in September 2015. All buffer, gravefit (old phosphate mine pit) with its surrounding area will not be disturbed. Fence may be installed to protect these areas.

Site Operations

• The current contract with Pilgrim's Pride allows for between 4 and 5.5 flock turn overs per year.

[JTC]: JTC farm contracts with Pilgrim's for a projected 5.5 flock per year.

- When Pilgrim's Pride takes the mature chickens for processing you plan to make arrangements with the litter haulers at that time. This should allow for you to scrape the chicken houses and directly haul all litter offsite.

[JTC]: Correct.

- If additional time is needed the litter will be stored in the litter storage barn until the contracted litter haulers can remove all the litter and compost.

[JTC]: Correct.

- It was stated that no other litter or compost would be brought into the site and indicated that no crops will be grown on-site.

Correct. To prevent the corrosion, trees and grass will be planted on the farm. No commercial crops will be grown on-site .

Hen Houses

- The hen houses were under construction at the time of our visit and are laid out in East to West. Both the East and West walls will *have sliding style doors*. The houses will be constructed with exhaust fans to be placed on the western side of each house. This will allow for fresh air to be pulled in from the eastern side and exhausted to the west.

[JTC]: Correct. The style of main access doors will be selected between : sliding, roll - seal.

- The houses are constructed with side walls and roof. The floor of each house will be compacted soil with *5-6 inches* of sawdust on top.

[JTC]: Correct. The fresh sawdust layer is origin with 3-5 inches . The layer's thickness will be gradually changed due to accumulation of the bird's manure during staying period.

- On the East end of each barn a closed loop cooling system will be installed. Recirculated water through radiator type devices will allow for extra cooling during periods elevated temperatures. This will be a closed system (not a mist system) and will not have a discharge.

[JTC]: Correct.

- Each house will have an electronic control room for feed and watering operations. Feed will be automated and drop from feeder located on the ceiling. Water will be an on demand system requiring the chicken to peck at the nozzle for water. *An automatic shut off with alarm will be installed if the system detects a pressure loss due to malfunction.*

[JTC]: Correct.

- Silos located adjacent to each house will store feed which will be dropped from the ceiling of the house through an automated feed system.

[JTC]: Correct.

Temporary Litter Storage House

- As stated above the litter storage house final design is anticipated to be developed February 2016. The litter house is planned to be built with a cement floor, roof and walls. The North facing wall will have **sliding type access doors**. As per NRCS requirements, the litter storage house will minimally have enough storage for an entire clean out **of one chicken house**.

[JTC]: There is no door on the litter storage barn because the litter need good ventilation . NRCS will provide the guideline and size of the litter storage barn . Typical adequate for 1 total clean out.

Composter

- The selected composter for the facility will be an ECOdrum rotating composter.

[JTC]: Drum composter is considered by not finalize yet . We're waiting for NRCS's approval .

- Only dead chickens will be composted with fresh saw dust as an organic carbon source. The composter will be attached to the litter storage house. No composting of litter is planned.

[JTC]: Correct if the drum composter is used .

- **The final composted material will exit onto the concrete floor of the litter storage** house where it will be hauled off site with the litter. The composter will have a free standing metal type roof structure without walls.

[JTC]: The composted material will exit into a bin, which will be empty inside the litter storage barn .

- It is not anticipated that excess moisture would be created within the composter. If excess moisture must be relieved from the composter for proper operation, the water will be collected and hauled offsite to an approved wastewater recovery facility.

[JTC]: Correct

In addition to confirming or correcting the above descriptions, please answer the following questions.

1. What is the maximum total volume of compost, both processing in the composter and final compost waiting to be hauled off at any one time? This calculation should not include litter scraped from the barns and stored in the litter barn prior to being hauled offsite.

[JTC]: The compost material will be hauled away with chicken manure. Separate hauling of compost and manure is not likely and very unusual practice in broiler industry; therefore, we do not plan to separate them. My approximation is 15 tons of compost

2. You mentioned that you have litter hauler businesses lined up to haul all of the litter off-site once the farm is operational. Do you have contracts at this time and can you provide the names of these businesses?

[JTC]: We will sell our chicken litter to Boyd Brothers Organic Fertilizers . Since we do not "product " (chicken litter) yet, there is no official contract; but we - Boyd Brothers and JTC verbally agree . Following is contact info :

Boyd Brothers Organic Fertilizers
Office: 386- 935 - 0120
Cell: 386-208-3117
Email: boydbro@windstream.net

Again, thank you for your time to meet with us and answer our questions. We look forward to your prompt response.

Thank you,

Tom Kallemeyn
Environmental Administrator
Water Resource Management
FDEP – Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, FL 32256
Tom.Kallemeyn@dep.state.fl.us
Office: 904.256.1616

On Wednesday, December 16, 2015 12:43 PM, "Kallemeyn, Thomas" <Thomas.Kallemeyn@dep.state.fl.us> wrote:

Ms. Nguyen,

Thank you and Mr. Huynh for taking the time to meet with me and NED permitting staff last Friday. We appreciate the tour of the partially constructed site. As discussed during the site visit I have attempted to document the information we discussed. Please review the below descriptions and either concur with or add clarifying remarks to any items I may have described incorrectly. Any clarifying information will help us make decisions on permitting actions for solid waste or wastewater.

Site layout and constructio

The site is to be constructed in phases with the first four Chicken houses currently planned to be built out by February 2016. *At that time you plan to discuss finalization of the temporary litter storage barn design with the National Resources Conservation Services/FDA (NRCS). Final construction design has been delayed at the request of NRCS staff until final construction of at least some of the chicken houses were complete.*

[JTC]: The CNMP requested to NRCS in July 2015. Currently the land is still under timber production; therefore, no NMP is required. However, when the poultry farim are built, NRCS will developed a CNMP for our farm as soon as possible. Please see attached " Huynh Nguyen Nutrient Management Plan" for more detail. The tentative construction completion date of our first four houses is Feb 2016 & equipment installation in March 2016 . When construction of the broiler houses is completed. We'll contact NRCS for CNMP .