**HAROLD LONDON CERTIFICATION REQUEST REQUIRED DOCUMENTATION**

Mr. London has a beef operation located in Loyalsock Township, Lycoming County.

Currently, there are 18 mature cows, 18 calves, 4 heifers, 1 bull, 6 horses, and 4 miniature horses. The beef cows and equine animals are on pasture from May through the end of October. They are confined the rest of the year. Bed pack manure from both animal types is used only on the home farm.

**CERTIFICATION REQUEST DOCUMENTATION RQUIREMENTS**

1. **Baseline and Threshold (25 Pa Code 96.8)**

The London farm meets baseline requirements of 025 PA Code 96.8 by having the following required items:

1. Manure Management Plan for all tracts receiving manure (025 PA 83 Subchapter D)
2. Conservation Plans for all tracts (025 PA 102)

The London farm is in full compliance of the requirements of its Conservation Plans and Manure Management Plan.

The London farm meets the threshold needed to generate credits by the requirement states as, “Manure is not mechanically applied within 100 feet of a perennial or intermittent stream with a defined bed or bank, a lake or a pond”. The London farm also applies commercial fertilizer at or below agronomic rates contained in the current *Penn State University Agronomy Guide* published by Pennsylvania State University.

**Credit Generation**

The London farm is a no-till operation. In addition to tillage credits, The London farm generates credits by planting cover crops on all corn silage acres and as many corn grain acres as it can every year. RUSLE2 calculations were run for each field over the entire operation. All credits generated by The London farm are generated by going beyond the baseline tillage and/cover cropping requirements to meet the tolerable soil loss rate and through pasture related BMPs.

**Credit Calculation Method**

All credits for this certification request will be for Nitrogen (N) credits only. To do this, the current version of the Nonpoint Source Nitrogen Calculation Spreadsheet found on the PA DEP Nutrient Trading Webpage was used. The manure figures used include the manure application rates and manure analysis found in the original certification.

All cropland associated with this certification lies within Watershed Segment 70. The watershed segment has a Nitrogen delivery ratio of 0.941. The Nitrogen Edge of Stream Ratios for this watershed is 45% for conventional tillage, 45% for conservation tillage, 86% for hay, and 13% for pasture.

1. **Location Maps of the Proposed Prevention Reduction Activity (PRA)**

The following maps have been submitted to show the locations of the proposed PRA for each tract:

1. An FSA map showing the farm boundaries, the field boundaries of tracts that generate credits, adjacent or nearby road names, and any visible receiving streams.
2. A soil map showing the soils in the fields generating credits. A chart with all of the operation’s soil type symbols and their names is also attached with this proposal.
3. A topographic map showing the general area, topography of the tract, and a latitude and longitude reading for the center of the PRA activity.
4. **Details on the Timing of Credits**

Credits will be verified twice annually. The first time credits will be verified is as soon after April 15th as possible for fields that had a cover crop. To receive credit for having a successful cover crop, there must be a minimum of 50% ground cover by April 15th of that year. The second verification will take place after the spring crops have been planted. Animal numbers and pasture movement information will also be collected during this visit.

1. **Water Quality Uses Under Chapter 93**

|  |  |  |  |
| --- | --- | --- | --- |
| Tract number(s) | Local Watershed Name | Watershed Name | Major Basin |
| 1223, 1231, 1232 & 3434 | Graffius Run | West Branch Susquehanna River | Susquehanna River |
| 3434 | UNT to W. Branch Susquehanna River | West Branch Susquehanna River | Susquehanna River |

All of the receiving streams are listed in Chapter 93 as having a designated use of WWF Warm Water Fishes). All receiving streams segments are listed as having impairments. The impairment is listed as Small Residential Runoff - Cause Unknown; Flow Regulation/Modification - Water/Flow Variability.

1. **Funding Source Information**

The London farm has received public funding sources to generate these credits through participation in the USDA’s CREP Program. The contract is set to expire in 2021 and the London’s have no intention of taking out the credit generating BMPs. All credits are free and clear financially.

1. **Risk Reduction Plan**

Provisions have been put into place to minimize the operator from not producing the credits through a contract with him, the Lycoming County Conservation District, and the County of Lycoming. The contract states that if the operator is under contract for future credits, he must supply them or provide the money required to pay the Lycoming County Nutrient Trading Program the amount it would cost to buy the amount of credits he did not generate. In most cases, we recommend that our producers sign one year contracts for practices that are not permanent like the CREP BMPs. In addition to this provision, the Lycoming Nutrient Trading Program has a fund set aside equal to 25%-30% of all previously sold credits in case there is a credit generator who defaults on contracted credits by no fault of his own. This fund could also be used to produce contracted credits for a generator instead of having a generator purchase them if he defaults depending on the circumstance of the credit default.

1. **Preservation and Conservation Easement Information**

All tracts farmed by Mr. London are enrolled in the Loyalsock Township Ag Security Area. None of the tracts are enrolled in the Lycoming County Ag Preservation Program.

1. **Confidential Business Information**

N/A

1. **Submitting Person and PRA Participants**

**Submitter’s Information**

Submitting Agency: Lycoming County Conservation District

Address: 542 County Farm Road, Suite 202

Montoursville, PA 17754

Contact Name: Rod Morehart, Chesapeake Bay Technician

Contact Phone #: 1(570) 329-1619

**PRA Participants Information**

Operation Information: Harold London farm

Address: 223 Seitzer Road

Williamsport, PA 17701

Contact Name: Harold London

Other PRA Participants: None

1. **Professional Qualifications**

Rod Morehart received a B.S.in Wildlife Management from Delaware State University in 2001. He has worked in the conservation field full time since May 2001. He has been nutrient management certified in Maryland, Delaware or Pennsylvania since 2002. He is also a certified conservation planner through the NRCS’s training program. Rod has been involved with the Lycoming County Nutrient Trading Program since its inception. He has written most of the proposals that have been submitted to date. He has completed all of the annual field verification and credit verification submission work since the program started selling credits.

1. **Verification Plan**

Credit verification will start with a cover crop field check in the spring of every year. Successful cover crop fields will have their credits generated and sent in once all of the cover crop credit work is completed for all program participants. Another field verification visit will be made to inspect the tillage used on all fields that can generate tillage related credits after the spring planting has occurred. This visit will also be used to collect animal numbers and pasture rotation information. The tillage and pasture credits will be sent in as a separate verification request after the credit calculation work is completed.

**Attachments to Supplement the Certification Request Form and**

**Certification Request Required Documentation**

1. **Maps Folder (Each folder listed below contains an FSA map, Soil Map, and a Topographic Map)**

Tract 1223 Tract 1231 Tract 1232 Tract 3434

An Aerial Map or FSA map showing the farm boundaries, the field boundaries of tracts that generate credits, adjacent or nearby road names, and any visible receiving streams.

A soil map showing the soils in the fields generating credits.

A topographic map which shows a tract’s general location, topography, and a latitude and longitude coordinate of the center of the tract’s PRA activities.

1. **RUSLE2 Folder**

**This folder contains the following RULSE2 PDFs:**

Tract 1223 F 1,P2, P3, P 6 & 7, P 8, P 10 & P 11

Tract 1231 F 1 & (3&8) Tract 1232 F 2, (3 & 4), 6, & 7 Tract 3434 F 1

1. **Spreadsheet Folder**

**This folder contains the following spreadsheets:**

London T 1223 F 1 corn with cow manure

London T 1223 F 1 corn with horse manure

London T 1223 F 1 corn with P 9 manure

London T 1223 2, 3 & 11 London T 1223 P 6 London T 1223 P 7

London T 1223 P 8 London T 1223 P 10 London T 1231 F 1 London T 1231 F 2 and 8 London T 1232 F 3-4 & 6-7 London T 3434 F 1

1. **BMP Summary Spreadsheet**
2. **Spreadsheet Summary**