

Westridge Dairy

IL 600.5 – EXHIBIT IL 1 CNMP Documentation Index (See CNMP Statement of Work for specific information)

1. Manure and Wastewater Handling and Storage

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Document
Narrative (brief description) of operation, existing & proposed	X	X	
Types of animals and phases of production that exist/will exist at the facility.	X	X	
Numbers of each animal type, average weight, and period of confinement for each phase of production.	X	X	
Total estimated manure, bedding and wastewater volumes produced at facility.	X	X	
Existing/planned manure storage type, volume, and length of storage. (Include appropriate geologic investigation reports for planned storage or transfer facilities. Include inspection reports and photographic evidence of physical state of existing facilities.)	X	X	
Existing/planned collection and transfer equipment, system, and procedures.	X	X	
Existing/planned mortality management	X	X	
Contour map of site showing sources and directions of clean water flow and polluted runoff through and around facilities	X	X	
Map showing location of 100 year floodplain, if known	X	X	
Animal waste system plan maps and sketches – existing and planned	X	X	
Animal waste system preliminary design information (include estimated quantities for proposed practices using NRCS payment scenarios and planned schedule of application.)	X		
Animal waste system practice designs		X	
Operation and maintenance requirements	X	X	
Emergency action plan to address spills and catastrophic events.	X	X	
Air quality and pathogen considerations			Operation info

→ curb at end of scrap alley

Waste storage area not contained.

→ Survey work needs to be completed.

→ pasture roads to be maintained

→ very high on banks of holding ponds

Comprehensive Nutrient Management Plan Certification Form

I, the undersigned, do hereby certify that a Comprehensive Nutrient Management Plan for the livestock management facility named below has been completed. The plan meets or exceeds all of the required criteria for the NRCS in the State of Illinois for each practice as signed below.

Facility Name: Westridge Dairy

Facility Location

County: Monroe

Township Name: Precint 9

Township #: 4S

Range: 9W

Section: 25

Practice	Technical Service Provider	TSP Certification #
Manure Wastewater Storage and Handling	<i>Frank J. West</i>	04-4217
Land Treatment Practice		
Nutrient Management		
Total CNMP Development		
I certify that I have read and understood this CNMP and agree with the contents contained in it.		
Name:	Signature:	Date:



FRANK & WEST
ENVIRONMENTAL ENGINEERS, INC.

FACSIMILE COVER LETTER

Date: 12-4-08

Time: 8:40 am

Fax Operator: WM

Name of Recipient: Alan Kollmann

Recipient's Fax Number: 217-347-7601

From: Wade E. Meteer, CCA
FRANK & WEST
ENVIRONMENTAL ENGINEERS, INC.
7226 North State Route 29
Springfield, IL 62707

Regarding: Westridge Dairy

Total number of pages including this cover letter: 2

Message: Call if you have any questions

Original will follow ☒ Yes ☐ No Via: ☐ Express Mail ☐ Regular Mail ☐ Hand Delivery

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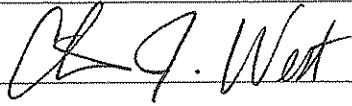
County: Monroe

Township Name: Precint 9

Township #: 4S

Range: 9W

Section: 25

Practice	Technical Service Provider	TSP Certification #
Manure Wastewater Storage and Handling		04-4217
Land Treatment Practice		
Nutrient Management		
Total CNMP Development		
<p>I certify that I have read and understood this CNMP and agree with the contents contained in it.</p> <p>Name: _____ Signature: _____ Date: _____</p>		

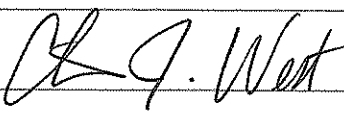
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 Township Name: Precint 9
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 Range: 9W
 Section: 25

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Land Treatment Practice		
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Total CNMP Development		
<p>I certify that I have read and understood this CNMP and agree with the contents contained in it.</p> <p> Name: Signature: Date: </p>		

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County: Monroe
Township Name: Precint 9
Township #: 4S
Range: 9W
Section: 25

Practice	Technical Service Provider	TSP Certification #
Manure Wastewater Storage and Handling		
Land Treatment Practice	Alan Kollmann	TSP-B-04-531
Nutrient Management	Alan Kollmann	TSPB-04-531
Total CNMP Development	Alan Kollmann	TSP-B-04-531
I certify that I have read and understood this CNMP and agree with the contents contained in it.		
Name: Mike Henry	Signature: Mike Henry	Date: 11/25/08

IL 600.5 - EXHIBIT IL 1 CNMP Documentation Index
(See CNMP Statement of Work for specific information)

1. Manure and Wastewater Handling and Storage

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Narrative (brief description) of operation, existing & proposed	X	X	Waste System Analysis under the Operation Information tab
Types of animals and phases of production that exist / will exist at the facility.	X	X	Animal Inventory under the Facility Information tab
Numbers of each animal type, average weight, and period of confinement for each phase of production.	X	X	Animal Inventory under the Facility Information tab
Total estimated manure, bedding and wastewater volumes produced at facility.	X	X	Manure Calculations pages under the Operation Information tab
Existing / planned Manure storage type, volume, and length of storage. (Include appropriate geologic investigation reports for planned storage or transfer facilities. Include inspection reports and photographic evidence of physical state of existing facilities.)	X	X	Manure Storage Analysis under the Operation Information tab
Existing / planned collection and transfer equipment, system, and procedures.	X	X	Waste System Analysis under the Operation Information tab
Existing / planned mortality management	X	X	Waste System Analysis under the Operation Information tab
Contour map of site showing sources and directions of clean water flow and polluted runoff through and around facilities	X	X	Water Flow sketches under the Operation Information tab
Map showing location of 100 year floodplain, if known	X	X	
Animal waste system plan maps and sketches - existing and planned	X	X	Facility sketches under the Operation Information tab
Animal waste system preliminary design information (include estimated quantities for proposed practices using NRCS payment scenarios and planned schedule of application.)	X		Proposed Facility sketches and supporting documents under the Operation Information tab
Animal waste system practice designs		X	
Operation and maintenance requirements.	X	X	Documents located under the Recordkeeping Tab
Emergency action plan to address spills and catastrophic events.	X	X	Procedure for Reporting Livestock Waste Releases and Containment Plan under the Operation Information tab -- Footnote LMFA Section 18
Air quality and pathogen considerations.	X	X	Waste System Analysis under the Operation Information tab

2. Land Treatment Practices

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Planned Conservation System (Meets Quality Criteria for Soil Loss and Water Quality) including:			
Individual field maps for all fields the operator owns/controls and where manure application is planned / applied, showing ephemeral and gully erosion concerns, buffers, waterways, and locations of other existing / planned conservation practices.	X	X	Each individual field has a documentation section within the Field Details Information tab -- each field section begins with the Conservation Plan for that particular field
Soil maps and information such as features, limitations, soil loss calculations and capability for each field the operator owns / controls and where manure application is planned / applied.	X	X	Limitations for each field regarding manure applications is listed within the Conservation Plan for each particular field -- Soil Loss calculations are located in each individual Field Detail Numbered tab
Nitrogen and phosphorus risk assessments for each field the operator owns / controls and where manure application is planned / applied.	X	X	Completed NRCS Nitrogen and Phosphorus Risk Assessments are located last behind the individual field tabs.
Conservation practices needed to solve identified resource problems including: rotation, tillage, farming direction and soil erosion and water runoff control practices on all fields where manure application is planned (include estimated quantities for proposed practices using NRCS payment scenarios and planned schedule of application by field.)	X		CNMP Summary -- Project Recommendations, located in the front section of the CNMP.
Conservation practice design and implementation information for all fields where manure is applied.		X	
Identification of sensitive areas such as sinkholes, streams, springs, lakes, ponds, wells, gullies, and drinking water sources.	X	X	Identified on the Application Field Detail Sheet for each individual field as one or more of 6 application provisions and additionally on the field map that follows
Other site features of significance, such as property boundaries, residences and populated areas.	X	X	Identified on the Application Field Detail Sheet for each individual field as one or more of 6 application provisions and additionally on the field map that follows
Operation and Maintenance (O&M) Plans for practices and / or activities.	X	X	Documents located under the Recordkeeping Tab

3. Nutrient Management

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Individual field maps for all fields the operator owns / controls and where manure application is planned / applied, showing setbacks from wells, sinkholes, and open water areas, where application restrictions exist.	X	X	Each individual field has a documentation section within the Field Details Information tab -- each field section begins with the Conservation Plan for that particular field
Table or list of total field acres and acres for manure application, for all fields the operator owns / controls and where manure application is planned / applied.	X	X	Field Summary Sheet under the Application Fields tab
Current soil test results for pH, phosphorus, and potassium for all fields the operator owns / controls and where manure application is planned / applied.	X	X	Each individual field has a documentation section within the Field Details Information tab -- each field section begins with the Conservation Plan for that particular field -- current soil tests are a portion of the documentation
Manure and organic by-product source nutrient "book value" or test results (planned). Manure and organic by-product source testing results (applied). Indicate source of values used	X	X	Waste Application Worksheets under Waste App tabs - planned Manure Sample Results under Recordkeeping Tab - applied
A general nutrient budget that identifies number of acres needed for waste utilization. The budget should contain a separate calculation for nutrient uptake for each combination of crop rotation and yield the operator proposes.	X	X	Waste Application Worksheets for each field of each Application Year for 3 crop years -- Located in each Application Years tab
Nutrient budget for nitrogen, phosphorus, and potassium that includes all potential sources of nutrients for all fields the operator owns / controls and where manure application is planned / applied.	X	X	Nutrient Budget -- which includes N-P-K maintenance and buildup rates for targeted yield goals and the sources of the nutrients either via manure or commercial fertilizers -- Located in each Application Years tab
Supplemental nutrient needs when manure does not meet nutrient needs, for setbacks, and years when manure not applied	X		Nutrient Budget -- which includes N-P-K maintenance and buildup rates for targeted yield goals and the sources of the nutrients either via manure or commercial fertilizers -- Located in each Application Years tab
Form, source, amount, timing, and method of application of nutrients, by field.	X	X	Waste Application Worksheets for each field of each Application Year for 3 crop years -- Located in each Application Years tab
P buildup potential where nutrient applications are in excess of P use.	X		Waste Application Worksheets for each field of each Application Year for 3 crop years -- Located in each Application Years tab
Manure transfers planned / applied.	X	X	Waste Application Worksheets for each field of each Application Year for 3 crop years -- Located in each Application Years tab
Operation and maintenance activities (soil & manure tests, equipment calibration, etc.)	X	X	Documents located under the Recordkeeping Tab
Air quality, pathogen, and salt / heavy metal buildup considerations.	X	X	Waste System Analysis under the Operation Information tab

4. Recordkeeping

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Current soil test results, in accordance with Nutrient Management (Code 590) and Waste Utilization (Code 633).	X	X	Located in each individuals fields documentation section
Mortality disposal records.		X	Documents located under the Recordkeeping Tab
Records of storage containment structures operation and maintenance, including: Dates of emptying, levels before and after emptying, and discharge or overflow events, including level before and after event.		X	Documents located under the Recordkeeping Tab
For Each Application Event, Records of:			
Field(s) where manure or organic by-products are applied or will be applied.	X	X	Multiple Year Application Field Summary -- located behind the first Waste Application tab -- 3 year plan of applied acres
Amount applied per acre, source, and application method / equipment used.		X	Documents located under the Recordkeeping Tab
Time and date of application.		X	Documents located under the Recordkeeping Tab
Weather and general soil moisture conditions during nutrient application.		X	Documents located under the Recordkeeping Tab
For manure transferred off-site or to third parties:			
Source and nutrient content		X	Documents located under the Recordkeeping Tab
Amount and date of manure transferred.		X	Documents located under the Recordkeeping Tab
Recipient of manure.		X	Documents located under the Recordkeeping Tab
Copies of all reporting of waste releases filed with Illinois EPA.		X	Documents located under the Recordkeeping Tab
Forms for documenting inspections and maintenance	X		Documents located under the Recordkeeping Tab
Records of maintenance performed associated with operation and maintenance plans.		X	Documents located under the Recordkeeping Tab
Records of nutrient application equipment calibration.		X	Documents located under the Recordkeeping Tab
Changes made in CNMP.		X	Documents located under the Recordkeeping Tab

5. Feed Management

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Feed management plan.			

6. Other Utilization Activities

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
More efficient and cost-effective methods (such as the following):			
Improved systems for solids removal from liquid manure.			
Improved manure handling, storage, and treatment methods to reduce ammonia volatilization.			
Treatment systems that transform and / or capture nutrients, trace elements, and pharmaceutically active compounds from manure.			
Improved composting and other manure stabilization techniques.			
Treatment systems to remediate or replace anaerobic lagoons.			

7. Certification

Documentation	Required for CNMP Planned	Required for CNMP Applied	Location in CNMP Documentation
Producer's selection of alternatives (include written concurrence from producer on all planned practices)	X	X	CNMP Certification Form is first document in CNMP Proposed Facilities sketches and supporting documents located under the Operation Info tab
Signature(s) of CNMP developer(s)	X	X	CNMP Certification Form is first document in CNMP

NOTES:

CNMP Planned: The Comprehensive Nutrient Management Plan - a document record of producer's decision for manure and waste water handling and storage, land treatment and nutrient management.

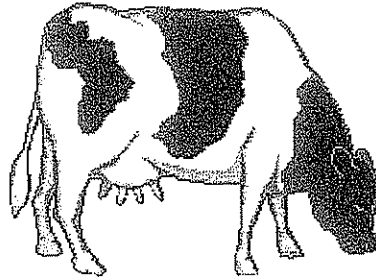
CNMP Applied: After the planned measures in the CNMP have been implemented - the documentation for CNMP Applied includes the CNMP + field specific nutrient management and land treatment designs; any applicable designs for facilities for manure and waste water handling and storage; necessary records; feed management plans and documentation of other utilization options.

Westridge Dairy -- CNMP Summary -- Project Recommendations

Location	Needs	Anticipated Project Date	Special Notes
Fields 1, 2, 3, 4, 7, 8, 9, 11, 16, 19	Application Restriction	2008 and future years	A residence, non-farm business, or common place of assembly is located within a 1/4 mile of these fields and incorporation of manure is required within 24 hours after application.
Fields 1, 2, 5, 8, 12, 13, 14, 17	Application Restriction	2008 and future years	A pond or stream is located near these fields and requires a 200 foot setback. Manure application should not be applied in the 200 foot watershed area.
Fields 1, 2, 3, 4, 7, 9, 11, 12, 13, 14, 16, 19	Application Restriction	2008 and future years	A waterway or drainage ditch is located in this field. Manure application should not be applied in these areas.
Fields 1, 2, 3, 4, 5, 7, 9, 11, 13, 14, 16, 17, 19	Application Restriction	2008 and future years	These fields contain slopes greater than 5% and should not have manure applied to those areas when the ground is frozen or snow covered.
Fields 1, 2, 3, 5, 8, 12, 13, 14, 17	Application Restriction	2008 and future years	These fields are located in a 10 year flood plain. Manure should not be applied unless the injection or incorporation method is used.
Field 3, 7, 11, 16	Soil Test	2008	These fields are due to have soil tests completed before manure can be applied to these fields.
Fields 1, 2, 4, 5, 9, 12, 13, 14, 17, 19	Phosphorus Levels > 70 lbs/acre	2007	These fields exceed a P1 value of 70 lbs per acre which is an adequate phosphorus level for the yield goals and crop rotation desired by the operation -- no buildup or maintenance commercial fertilizer should be applied.
Fields	Additional acres for manure application	2009	Based off of the manure volumes, nutrient content, and yield goals, it will be necessary for this operation to obtain additional acres for manure application. Approximately 270 acres are needed each year for manure application.
Facility	Certified Livestock Manager Certification	2008	Each livestock operation in Illinois is required by the Illinois Department of Agriculture to certify ever 3 years the compliance with Livestock Management Facilities Act Section 30
Mortality Management Station	Dead Animal Disposal	2009	The current mortality management is not acceptable by current regulations and needs to be brought up to specs. A more permanent option would be to establish a modern mortality station as outlined in the CNMP in the Operation Information tab.

Westridge Dairy -- CNMP Summary -- Project Recommendations

Location	Needs	Anticipated Project Date	Special Notes
Facility	Curbing	2009	To ensure the prevention of any clean water from entering the waste stream and potential for any waste water from exiting the facility curbing needs to be installed. Approximately 150' of rounded curbing and 40' of square curbing need to be added.
Facility	Manure Bunker 106	2009	In order to contain the waste water that is collected in Bunker 106, the operation needs to add more permanent waste holding walls to the bunker to prevent any waste water that is collected from exiting to the water stream.
Facility	Pasture Lot	2009	To improve the health and vigor of the pasture areas it is recommended that the producer implement a prescribed grazing and seeding practice to those areas of need.
Facility	Waste Holding Pond and Lagoon	2009	To protect the embankments from the potential of soil and wind erosion the producer needs to manage the vegetation on those embankments, with selective seeding and mowing.



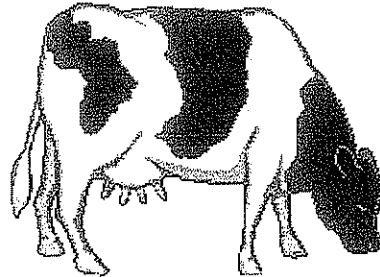
Livestock Waste Management Plan

Westridge Dairy

2114 Ames Rd.
Red Bud, IL 62278

Prepared By: Effingham Equity
Effingham, IL 62401





Livestock Waste Management Plan

Westridge Dairy

2114 Ames Rd.
Red Bud, IL 62278

Prepared By: Effingham Equity
Effingham, IL 62401



Westridge Dairy

Table of Contents

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- Location and Directions
- Certified Livestock Manager Responsibilities
- Procedures for Reporting Livestock Waste Releases
- Written Release Report Form
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- Total Facility Nitrogen and Required Land Area

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4. 2009 Waste Application Plans

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- Waste Application Worksheets

5. 2010 Waste Application Plans

- Nutrient Budget
- Waste Application Worksheets

6. 2011 Waste Application Plans

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8. Field Detail Information

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- Farm Maps
- Plat Book Maps

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- Application Field Detail Sheets
- Field Maps with Setbacks if applicable
- Soil Type Maps
- Soil Tests
- Phosphorus and Nitrogen Risk Assessments

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