

Section 3. Farmstead Safety and Security

3.1. Emergency Response Plan

Located on the following pages

EMERGENCY ACTION PLAN

Contact Names & Numbers - Human Injury

Facility Name: KJMM Parnership

Facility Owner Info:

Name: Jared Schilling

Phone: 618/539-3031

Name: _____

Phone: _____

Facility Address (911) 3818 Klein School Road, New Athens, IL 62264

Livestock Manager Info *~if different than owner~*

Name: _____

Phone: _____

Certification Number: _____

Specific Directions to the facility:

From: Marissa, IL: Take IL-Rt 4 northbound 2.4 miles. Turn right onto Range Lane. Take slight right at fork in lane to arrive at 11405 Range Lane.

Ambulance Phone: **911**

Fire Department Phone: **911**

Illinois Poison Center Phone: **1/800-222-1222**

Doctor or Physician Name: Dr. Althoff

Phone: 618/539-0067

Hospital or Medical Clinic Name: Memorial Hospital

Phone: 618/257-5700

Other: _____

Phone: _____

County Sheriff Name: Tim Donnellon

Phone: 618/987-1700

Other Name: Generator Company-Alt. Power Systems Phone: 217/430-6120

Other Name: _____

Phone: _____

Other Name: _____

Phone: _____

EMERGENCY ACTION PLAN

Actions, Contact Names & Numbers - Partial System Failure

Electrician Name: Self Phone: _____

Electric Co. Name: Ameren IP Phone: 800/755-5000

LP/Natural Gas Name: Amerigas Phone: 800/243-4427

Plumbing Name: Self Phone: _____

Ventilation Name: Self Phone: _____

Heating Name: Self Phone: _____

Feed Name: Self Phone: _____

Veterinarian Name: Dr. Joe Rudolphi Phone: 618/752-7171

Mortality Disposal Name: Millstadt Rendering Phone: 618/538-5312

Insurance Carrier Name: Country Companies Phone: 618/487-7686

Engineering Company: Frank & West Environmental Engineers Phone: 217/487-7686

Other Name: _____ Phone: _____

Other Name: _____ Phone: _____

Other Name: _____ Phone: _____

Other Name: _____ Phone: _____

CATASTROPHIC DEATH LOSS

1. Contact renderer

- a. Arrange for pickup of deads
- b. Make sure that employees & cleanup use appropriate health protections (masks, etc.)

2. Contact your local vet

3. Be in contact with the State Dept. of Agriculture Bureau of Animal Health as needed. (24/7 # provided)

IL Dept of Ag, Bureau of Animal Health 24/7 #:

Phone: 217/782-4944

EMERGENCY ACTION PLAN

Actions, Contact Names & Numbers - Manure Release or Spill

In The Event of A Spill/Release

1. **Eliminate Source of Release/Spill.**
 - a. Stop the manure application or pumps
 - b. Repair defective component of earthen basin/lagoon and fill with compacted clay
2. **Contain the Release/Spill**
 - a. If material is in application field construct earthen berms capable of containing release/spill.
 - b. If material has reached roadside ditch, creek or stream, create containment dam in ditch or stream to contain the release/spill.
 - c. Construct a temporary holding basin down-gradient of release/spill. Take precautions to not damage the embankments while creating the temporary basin(s).
 - d. Cap or cover all tile intakes that are within or near site of the release/spill. (Note all covers should be pre-made.)
3. **Report Release/Spill to IEPA (*within 24 hours*) in the following cases:**
 - a. If more than 25 gallons of livestock waste are released/spilled and un-recovered, or
 - b. If a release/spill of livestock waste reaches waters of the state
4. **Document Records of Release/Spill**
 - a. Note the date and time of the release/spill.
 - b. Note the amount of livestock waste associated with the release/spill.
 - c. Note the amount of livestock waste recovered from the release/spill.
 - d. In the case where the release/spill is collected and land applied, document volumes, rates and locations of land applications.
5. **Illinois Environmental Protection Agency – Illinois Emergency Management Agency:**
24 Hr. Number: 1-800-782-7860
24 Hr. Number: 217-782-7860

CONTRACTORS:

Earth Moving Name: Self
Phone: _____

Local Custom Applicator Name (If applicable): _____
Phone: _____

Local Custom Applicator Name (If applicable): _____
Phone: _____

Irrigation and/or Pumping Equipment Name: Self
Phone: _____

Equipment Contractor Name: Self
Phone: _____

Other Name: _____
Phone: _____

Other Name: _____
Phone: _____

Other Name: _____
Phone: _____

Other Name: _____
Phone: _____

Other Name: _____
Phone: _____

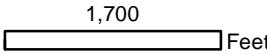
KJMM Range Farm

Emergency Route Map



Legend

- Facility Location
- Town
- Emergency Route



Frank & West
Environmental Engineers, Inc.
7326 N. State Route 29 Phone: 217/487-7686
Springfield, IL 62707 Fax: 217/487-7687

Spill Response Plan

- 1) Stop the spill immediately!!! Do whatever is necessary or available to use to stop the further flow of effluent as soon as possible.
- 2) Major effort should then be directed to containing the effluent, especially keeping it from entering surface water or other environmentally sensitive areas. Creating an effluent "pond" in a field can be a good thing.
- 3) Assess the extent of the spill and note any obvious damages.

Did the waste reach any surface waters?
Approximately how much was released and for what duration?
Any damage noted, such as employee injury, fish kills, or property damage?

- 4) Contact appropriate agencies.

In Illinois, the Illinois Emergency Management Agency is the contact if the spill leaves your property or enters waters of the state.

IERMA Phone in Illinois call (800) 782-7860. Outside of Illinois call (217) 782-7860 - 24 hours per day, seven days a week.

Contact your IL EPA Regional Ag Engineer:

Name _____ Phone _____

IERMA will notify the Illinois Environmental Protection Agency and the Illinois Department of Agriculture. Your phone call should be made within 24 hours **(immediately if to waters of the State)** and include:

- your name
- facility name
- telephone number
- the details of the incident (realistic # of gallons involved)
- the exact location of the facility and or spill
- the location or direction of movement of the spill
- weather and wind conditions (i.e. rain forecast, pre-spill and post-spill)
- what corrective measures have been taken
- and the seriousness of the situation (threat to surface or ground water, spill under control, need for assistance).

For other contacts see the Emergency Phone Number list in the Emergency Action Plan.

- 5) **Start cleanup activities, even if state or federal agency staff has not arrived on the scene. DO NOT WAIT!!!**
- As soon as possible begin clean-up procedures
 - Notify agencies and local authorities including the local county public health department and appropriate public/private water supplies.
 - Attempt application of spilled wastes on cropland
 - Assess environmental impact of fish kill, surface water pollution, well or groundwater impact, and amount of waste released and for what duration.
- 6) A written report (form optional) to the Illinois EPA confirming information provided by telephone is required within 5 days after discovery of the release. Blank report for filing written report is provided.

Send Written Reports to:
Illinois EPA Bureau of Water, Compliance Assurance Section
P.O. Box 19276 Springfield, IL 62794-9276
Send Faxes to: (217) 557-1407

All responses to emergencies should be documented and kept with the manure management plan as required in the Livestock Facilities Management Act and Illinois EPA NPDES General Permit. This documentation should include all agency and local authority contacts made during the response phase. This information can be used to assess response to the emergency, prepare for future problems, and train employees.

- 7) Implement procedures to prevent similar occurrences. Seek professional assistance if problem is berm or structure related.

The State of Illinois requires an owner or operator of a livestock waste handling facility to report any release of 25 gallons or more of livestock waste within 24 hours after discovery of the release into the environment. This reporting requirement includes releases from livestock waste handling facilities and releases from the transportation of livestock waste.

Releases of any quantity that enter surface waters (including releases to sinkholes, drain inlets, broken subsurface drains or other conduits to groundwater or surface water) must be reported immediately, except when immediate notification would impede the owner's or operator's efforts to correct the cause of the release or contain the livestock waste. In such cases, the report must be made as soon as possible but no later than 24 hours after discovery. In addition to the reporting requirement, the owner or operator is responsible for correcting the cause of the release as soon as possible in order to minimize environmental damage.

The reporting requirement applies to waste storage, handling facilities, piping, pumps, and transportation equipment. Reporting is not required for releases of less than 25 gallons provided no quantity is released to waters of the state or from a controlled and recovered release during field application. A release does not include the normal application of livestock waste to cropland at established agronomic rates.

Failure to report a release could result in fines of up to \$1,000 for the first violation, \$2,500 for a second violation, and up to \$5,000 for a third or subsequent violations. Any environmental damage resulting from the release (such as a fish kill) may subject the owner or operator to additional fines and require him/her to reimburse the state for the value of the damage.

Inquiries concerning the release reporting requirements may be directed to:
Illinois EPA, Bureau of Water, Field Operations Section, (217) 782-3362.

**Illinois Environmental Protection Agency
Livestock Waste Release
Required Report Information Form**

Send written reports to:
Illinois EPA, Bureau of Water, Compliance Assurance Section
P.O. Box 19276, Springfield, Illinois 62794-9276

Report any release of livestock waste in Illinois by phone within 24 hours after discovery of the release. In Illinois call (800) 782-7860, outside of Illinois call (217) 782-7860. A written report (form optional) to the Illinois EPA confirming information provided by telephone is required within 5 days after discovery of the release. Attach additional pages if more space is required to answer questions.

Name of Person Reporting Release: _____ Telephone Number: _____

Release Source: _____ County: _____
(Where Release Occurred)

Date & Time Release Began: _____ Duration of the release: _____

Cause of Release: _____

Give distance and direction of the release from nearest town, village or municipality.
If possible give legal description down to quarter section.

Estimate the quantity that was released and the flow rate if the release is ongoing.

Quantity: _____ Gallons Flow Rate: _____ Gallons/Day

Circle appropriate area(s) into which the release occurred: Field Ditch Stream Other
If other please describe:

Estimated Release Extent: _____ Sq. Ft _____ Sq. Yd _____ Acres

What are the apparent environmental impacts of the release?

Contact Person for Additional Information: Name: _____

Telephone number: _____

Describe any dangers to health or the environment resulting from the release.

Describe all actions taken to respond to, contain and mitigate the release.

Facility Name: _____

Mailing Address: _____

City, State, Zip: _____

Signature: _____ Date: _____

The Illinois EPA is authorized to request this information under the Environmental Protection Act, Illinois Compiled Statutes ("ILCS"), 1999, as amended, Chapter 415 ILCS Sections 5/4(b) and 5/4(h). Use of this reporting format is voluntary, as long as the information required by the Livestock Management Facilities Act, Chapter 510 ILCS Section 77/18 concerning the release is reported in a timely manner.

Facility Safety Recommendations

1. Waste storage facilities must be considered "High Hazard Areas". The biodegradation of waste forms noxious gases such as methane (CH₄), Hydrogen sulfide (H₂S), ammonia (NH₃) and carbon dioxide (CO₂). This can be fatal to both animals and human beings.

HYDROGEN SULFIDE PARALYZES THE DIAPHRAGM AND THE VICTIM WILL NOT START BREATHING AGAIN WITHOUT ARTIFICIAL RESPIRATION, EVEN AFTER BEING REMOVED FROM THE NOXIOUS GASSES.

2. Some of these gases can be explosive with the proper gas to air ratio. Use caution with open flames, welding torches and arcs, electrical motors with brushes that spark (skillsaws, electric drills, shop vacs, etc.) when working near waste storage facilities. Be sure the work area is well ventilated.
3. Agitation of liquid manure can release large volumes of these noxious gases. Special care must be taken to provide adequate ventilation during agitation and emptying of the storage facility. If there is a question regarding the adequacy of ventilation, the livestock should be evacuated from the building and the operator should wear an oxygen mask.
4. Operators should avoid working alone during agitating and emptying the facility.
5. A reception pit, tank or other storage facility that has contained liquid/slurry manure should not be entered because gases may remain in the structure. When it is necessary for someone to enter one of the structures for repairs, the following precautions must be taken:
 6. The reception pit shall be ventilated by the use of fans, blowers, etc.
 7. There should be at least two people; one to remain on the outside and one to enter the facility.
 8. The one entering the structure must have a safety line attached so that the "outside" person can pull the victim to safety without entering the facility.
 9. The one entering must have an air mask, which furnishes outside air through an airline and compressor, scuba equipment with air tanks or other means of positively furnished outside air.
 10. Gas masks must not be used because they operate on the principle of chemically removing unwanted gases from air so the wearer can breathe safely. In manure facilities, the air has been displaced by the noxious gases and when the gases are removed by the gas mask, the wearer will suffocate because there is no air to breathe.
11. All lids, gates, hatch covers, shields and safety grates to prevent unauthorized entry by people or livestock must be securely in place when tanks and pit openings are left unattended and must be repair immediately when damaged.
12. Never leave a ladder that stands against an above ground waste storage facility unattended.
13. All waste storage facilities must be posted with signs with the following or similar warning:

DANGER - KEEP OUT

THIS IS A WASTE STORAGE FACILITY AND PROLONGED EXPOSURE MAY BE HAZARDOUS TO YOUR HEALTH.

14. Inspect and repair/replace, as needed, all warning and hazard signs.

3.2. Biosecurity Measures

Biosecurity is critical to protecting livestock and poultry operations. Visitors must contact and check in with the producer before entering the operation or any production or storage facility.

3.3. Catastrophic Mortality Management

1. Contact renderer

- a. Arrange for pickup of deads
- b. Make sure that employees & cleanup use appropriate health protections (masks, etc.)

2. Contact your local vet

3. Be in contact with the State Dept. of Agriculture Bureau of Animal Health as needed. (24/7 # provided)

IL Dept of Ag, Bureau of Animal Health 24/7 #: Phone: 217/782-4944

3.4. Chemical Handling

This facility currently stores only industry standard chemicals and supplies. These may consist of but are not necessarily limited to disinfectants, cleaning solutions, veterinary approved medicines, small container lawn tractor fuel storage, etc. All of these items are stored inside the facility buildings. None are exposed to precipitation.

The following measures are to be taken to ensure the proper storage and handling of facility chemicals and supplies.

- All chemicals are stored in proper containers.
- Expired chemicals and empty containers are properly disposed of in accordance with state and federal regulations.
- Pesticides and associated refuse are disposed of in accordance with the FIFRA label.
- Chemical storage areas are within the building and behind locked doors.
- Emergency procedures and equipment, if necessary, are in place to contain and clean up chemical spills.
- Chemical handling and equipment wash areas, if necessary, are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.