

Emergency Manure Management Plan

| | |
|---|--|
| Farm Name | |
| Physical Address | |
| Farm Phone | |
| DIRECTIONS TO FARM | |
| EMERGENCY PHONE NUMBERS | |
| Farm Owner | |
| Farm Manager | |
| Fire or Ambulance | 911 |
| Equipment: | |
| | |
| | |
| | |
| | |
| CONTACTS TO BE MADE WITHIN 24 HOURS | |
| Regional Water Board | |
| County Environmental Health Office | |
| County Sheriff's Office | |
| Department of Transportation | |
| California Department of Fish and Game | Office of Spill Prevention & Response: (916)445-9338 Regional Office: _____ |
| Office of Emergency Services | |

Failure of manure storage area

| |
|--|
| A. Liquid or slurry basin overflow |
| <ul style="list-style-type: none"> • Stop all additional flow into the structure from surface water, watering devices and flushing systems. • Begin a planned emergency utilization of manure by pumping it onto fields at acceptable agronomic rates. • Call a pumping contractor, if necessary. • If approved to do so, add soil to the berm to increase basin capacity. • Consider maintaining some grassland near the storage for emergency manure application. |
| B. Leaking or broken pit wall or liquid storage berm |
| <ul style="list-style-type: none"> • Stop all additional flow into the pit or liquid storage. • Dig a holding area, or construct a berm, to catch leaking waste water. • Use a submersible pump to pump liquid back into the storage. • If holes were caused by burrowing animals, trap or remove animals. • Temporarily repair earthen storage berms with clay soil. • Consult an experience liquid storage design professional to permanently repair liquid storage leaks. |
| C. Manure Pit Access |
| <ul style="list-style-type: none"> • Never enter an enclosed pit without proper ventilation and an air-supplied respirator or self-contained breathing apparatus. • Anyone entering the pit should wear a safety harness attached to a rope attended by two people at the pit's entrance. |
| D. Leakage from a broken flush system or solids separator |
| <ul style="list-style-type: none"> • Stop recycle or flushing system pump. • Close valves to eliminate further discharge. • If siphoning is taking place, separate pipes to creating an air gap and stop flow. • Repair all leaks prior to restarting system. |

Emergency Procedures

In Case of a **Storage Facility Spill, Leak, or Failure Emergency:**

- Stop all other activities to address the emergency.
- Attend to any injuries to farm or other personnel.
- Stop all flow into the storage.
- Assess the extent of the emergency and determine how much help is needed.
- Use skid loader or tractor with blade to contain or divert spill or leak, if possible.
- If containment material is needed, excavate soil from the area located south of the storage facility.
- If possible, begin pumping manure and spreading in the prescribed fields at the prescribed application rates.
- Call for help and an excavator if needed.
- Evaluate the impact of the emergency.
- Prepare a summary of the events and actions taken.
- Notify the appropriate authorities and agencies listed on first page.
- Complete the clean up and make necessary repairs as directed.
- Prepare and submit reports to Regional Water Quality Control Board, County Environmental Health and California Department of Fish and Game, as required.

In Case of a **Land Application Manure/Waste Discharge Emergency:**

- Stop all other activities to deal with the emergency.
- Attend to any injuries to farm or other personnel.
- Stop manure pumps and irrigation equipment. Close valves. Separate pipes to create air gap if necessary to stop siphon manure flow.
- Assess the extent of the emergency and determine how much help is needed. If spilled on road, call the sheriff's office for traffic control and immediately clean the spill from the road and roadside as needed.
- Contain the spill or runoff from entering the stream or waterway using straw bales, saw dust, or soil material. If flow is coming from a tile, plug the tile with a tile plug immediately.
- Call for help if needed.
- Evaluate the impact of the emergency. Prepare a summary of the events and actions taken.
- Notify the appropriate authorities and agencies listed on first page.
- Complete the clean up and make necessary repairs as directed.
- Prepare and submit reports to Regional Water Quality Control Board, County Environmental Health and California Department of Fish and Game, as required.

Provide the following information when contacting authorities:

- Your Name
- Farm Identification
- Description of emergency
- Estimate of the amounts, area covered, and distance traveled.
- Has manure reached surface waters or major field drains?
- Is there any obvious damage such as employee injury, fish kill, or property damage?
- What is currently in progress to contain situation?
- **Initiate additional containment measures, corrective measures, or property restoration measures as directed by emergency agency officials.**

Manure Handling and Transport Emergencies and Actions

| |
|--|
| A. Leakage from a broken pipe in an irrigation or transfer system |
| <ul style="list-style-type: none">• Stop the transfer or irrigation pump.• Close valves to eliminate further discharge.• If siphoning is taking place, separate the pipes to create an air gap and stop flow.• Repair all leaks prior to restarting pump. |
| B. A spreader tank leak or overturn |
| <ul style="list-style-type: none">• Stop the additional spill of material.• Contain the material that has spilled.• Begin clean-up procedures.• Notify the appropriate agencies, informing them if the waste is on or off the farm or if there is surface or ground water impact. |
| C. Pump failure |
| <ul style="list-style-type: none">• |
| D. Power failure |
| <ul style="list-style-type: none">• |

Manure Application Area Emergencies and Actions

| |
|---|
| A. Runoff from manure application field |
| <ul style="list-style-type: none">• Immediately stop application.• Create a temporary diversion or berm to contain manure on the field.• Incorporate manure to help reduce further runoff.• Evaluate the application rates for the field(s) where runoff occurred and make rate adjustments if needed. |
| B. Manure leakage or discharge from field tile drains |
| <ul style="list-style-type: none">• Contain manure by damming the field drain.• Plug the tile outlet, forcing manure infiltration into the field. |

Production Area Emergencies and Actions

| |
|--|
| A. Runoff from production area (stormwater) |
| <ul style="list-style-type: none">• Create a temporary diversion or berm to contain manure within the production area.• |

Information in this document assembled from Grandle, G.F., L.B. Moody, R.T. Burns and R.W. Anderson. 2003. Experiences in preparing a CNMP Emergency Response Plan for a Tennessee Dairy Farm. Ninth International Animal, Agricultural and Food Processing Wastes Proceedings of the 12-15 October 2003 Symposium. Research Triangle Park. ASAE Publication number 701P1203.

Sheffield, R. 2001. Lesson 50 Emergency Response Plan. Livestock and Poultry Environmental Stewardship Curriculum. Midwest Plan Service, Ames, IA.

