Section 4 Manure Storage, Agitation, and Handling Review Questions

1. List three types of manure storage structures.

2. What type of soil is needed for an earthen manure storage structure?

3. What two materials can be used to line the pit if the soil type in not suitable for an earthen structure?

4. List three factors which can influence the odor from an open manure storage structure?

5. List the four gases which can cause health risks when working around manure storage structures.

6. What should be inspected routinely to prevent manure from flowing back into livestock housing?

7. How many inches of freeboard space are required to prevent overtopping?

8. Explain why crust forms in a manure storage structure.

9. What two types of agitation equipment are available to properly mix manure in storage structures?

10. What is the benefit of building a platform into the manure storage unit?

Section 4 Manure Storage, Agitation, and Handling Review Answers

1. List three types of manure storage structures.

a. Earthen pits/lagoons, lined pits/lagoons, upright steel/glass

2. What type of soil is needed for an earthen manure storage structure?

a. clay

3. What two materials can be used to line the pit if the soil type in not suitable for an earthen structure?

a. Concrete, plastic

4. List three factors which can influence the odor from an open manure storage structure?

a. Size, location, topography, weather conditions, distance to other pits, or separation distance from residences or businesses

5. List the four gases which can cause health risks when working around manure storage structures.

a. carbon dioxide, ammonia, methane, and hydrogen sulfide

6. What should be inspected routinely to prevent manure from flowing back into livestock housing?

a. Valves

7. How many inches of freeboard space are required to prevent overtopping?

a. 12

8. Explain why crust forms in a manure storage structure.

a. Bedding and fibrous material is used for livestock comfort breaks down very slowly, or not at all, in a pit or upright structure. This non-degradable material leads to sludge buildup or the formation of crusts on the surface

9. What two types of agitation equipment are available to properly mix manure in storage structures?

a. high-horsepower, propeller-type agitators and recirculating high-capacity pumps

10. What is the benefit of building a platform into the manure storage unit?

a. Facilitate positioning of pumping and agitating equipment