

APPENDIX C Assessment Tools

The following assessment tools will determine livestock and poultry production/manure management needs and assist with the selection of a manure treatment system or alternative technology that meets the needs of a producer with an existing system or a producer selecting and implementing a new system. These tools provide actual experience in utilizing the information in the section on manure treatment options. These tools can also assist producers in complying with national needs and local regulations.

Table 25C-1. Needs assessment tool.

Do you have enough land to apply all manure at agronomic rates for each constituent?	
If the answer is yes , then answer the three questions on the right.	<ol style="list-style-type: none"> 1. Describe the odor and dust control techniques used in the production unit. Are they sufficient or what additional measures are needed? 2. Describe the odor control techniques for the manure management systems. Are they sufficient or what additional measures are needed? 3. Would a different utilization strategy or technology be more cost effective or desirable? Provide a comparative analysis.
If the answer is no , then answer the five questions on the right.	<ol style="list-style-type: none"> 1. What effluent constituents must be reduced? 2. What technologies can be added to the existing system to reduce each or all of these constituents? 3. What new system could be more cost effective to reduce each or all of these constituents? 4. How will the selected modified or new system control odor? 5. Will you select a utilization or destructive treatment system and why?

Table 25C-2. Performance assessment tool.

Current System	Technology Would Use	Why
If you had to remove the following constituents with your current system, what technology would you use and why? <ol style="list-style-type: none"> 1. Organics 2. Oxygen demand 3. Nitrogen 4. Phosphorus 5. Heavy metals 6. Pathogens 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____
New System	Technology Would Use for Individual Removal	Technology Would Use for Total Removal
If you installed a new system, what technologies would you use to remove the following constituents individually or in total? <ol style="list-style-type: none"> 1. Organics 2. Oxygen demand 3. Nitrogen 4. Phosphorus 5. Heavy metals 6. Pathogens 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 	_____ _____ _____ _____ _____ _____