## Poultry Farm Waste Management Odor Control Checklist

<table>
<thead>
<tr>
<th>Source</th>
<th>Cause</th>
<th>BMPs to Minimize Odor</th>
<th>Site Specific Practices</th>
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| Farmstead                   | • Poultry production              | ☑ Vegetative or wooded buffers  
                            | | ☑ Recommended best management practices  
                            | | ☑ Good judgment and common sense  
| Floor surfaces (walk aisles)| • Wet dirty surfaces              | ☑ Scrape manure, dust, feathers into collection alleys  
                            | | ☑ Splash boards along upper ends of collection alleys  
                            | | ☑ Proper ventilation  
| Cage manure dropping boards| • Manure-covered surfaces         | ☑ Scrape manure into collection alleys  
| Manure collection alleys   | • Partial microbial decomposition | ☑ Frequent manure removal by flush or scrape  
                            | | ☑ Frequent checks and maintenance on waterers and water pipes  
| Ventilation exhaust fans   | • Volatile gases                  | ☑ Fan maintenance  
                            | | ☑ Efficient air movement  
| Indoor surfaces             | • Dust                            | ☑ Vacuum or washdown between flocks  
| Manure conveyors            | • Partial microbial decomposition | ☑ Keep mechanical equipment in good repair  
                            | | ☑ Remove manure accumulations promptly  
| Storage tank or basin surface | • Partial microbial decomposition  | ☑ Bottom or midlevel loading  
                            | | ☑ Tank covers  
                            | | ☑ Basin surface mats of solids  
                            | | ☑ Proven biological additives or oxidants  
| Manure slurry or sludge spreader outlets | • Agitation when spreading  
                                           | ☑ Soil injection of slurry/sludges  
                            | | ☑ Wash residual manure from spreader after use  
                            | | ☑ Proven biological additives or oxidants  

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| Uncovered manure slurry or sludge on field surfaces | • Volatile gas emissions while drying | ☐ Soil injection of slurry/sludges  
☐ Soil incorporation within 48 hours | |
| Outside drain collection or junction boxes | • Agitation during wastewater conveyance | ☐ Box covers | |
| Lift stations | • Agitation during sump tank filling and drawdown | ☐ Sump tank covers | |
| End of drainpipes at lagoon | • Agitation during wastewater conveyance | ☐ Extend discharge point of pipes underneath lagoon liquid level | |
| Lagoon surfaces | • Volatile gas emissions  
• Biological mixing  
• Agitation | ☐ Proper lagoon liquid capacity  
☐ Correct lagoon startup procedures  
☐ Minimum surface area-to-volume ratio  
☐ Minimum agitation while pumping  
☐ Mechanical aeration  
☐ Proven biological additives | |
| Irrigation sprinkler nozzles | • High pressure agitation  
• Wind drift | ☐ Irrigate on dry days with little or no wind  
☐ Minimum recommended operating procedure  
☐ Pump intake near lagoon liquid surface  
☐ Pump from second-stage lagoon | |
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<tr>
<td>Dead birds</td>
<td>Carcass decomposition</td>
<td>✗ Proper disposition of carcasses</td>
<td></td>
</tr>
<tr>
<td>Dead bird disposal pits</td>
<td>Carcass decomposition</td>
<td>✗ Complete covering of carcasses in burial pits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>✗ Proper location/construction of disposal pits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>✗ Disposal pit covers tight fitting</td>
<td></td>
</tr>
<tr>
<td>Standing water around facilities</td>
<td>Improper drainage</td>
<td>✗ Grade and landscape such that water drains away from facilities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microbial decomposition of organic matter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mud tracked onto public roads from farm access</td>
<td>Poorly maintained access roads</td>
<td>✗ Farm access road maintenance</td>
<td></td>
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</tbody>
</table>

### Additional Information:

- Poultry Manure Management; .0200 Rule/BMP Packet
- Poultry Layer Production Facility Manure Management: High Rise, Deep Pit; EBAE 131-88
- Poultry Layer Production Facility Manure Management: Undercage Flush—Lagoon Treatment; EBAE 130-88
- Lagoon Design and Management for Livestock Manure Treatment and Storage; EBAE 103-83
- Calibration of Manure and Wastewater Application Equipment; EBAE Fact Sheet
- Proper Disposal of Dead Poultry; PS&T Guide No. 19
- Nuisance Concerns in Animal Manure Management: Odors and Flies; PRO107, 1995 Conference Proceedings
- Available From:
  - NCSU, County Extension Center
  - NCSU—BAE
  - NCSU—BAE
  - NCSU—BAE
  - NCSU—BAE
  - NCSU—Poultry Science
  - Florida Cooperative Extension