



February 4, 2016

TECHNICAL GUIDE NOTICE NO. 405

This notice transmits the following new or revised conservation practice standards and statements of work.

Conservation Practice Standards:

- New: **Denitrifying Bioreactor (Code 605)** - This new standard is based on the Interim Standards from Illinois and Iowa. These States have been using and refining this interim standard since 2009. A denitrifying bioreactor is: A structure that uses a carbon source to reduce the concentration of nitrate nitrogen in subsurface agricultural drainage flow via enhanced denitrification.
- New: **Emergency Animal Mortality Management (Code 368)** - This is a new conservation practice standard defined as a means or method for the management of animal carcasses from catastrophic mortality events.
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- Revised: **Animal Mortality Facility (Code 316)** - Criteria for catastrophic animal mortality has been removed and placed in the new standard Emergency Animal Mortality Management (368). The information provided on composting has been expanded. Language was changed to improve the readability of the standard.
- Revised: **Channel Bed Stabilization (Code 584)** - The changes provide additional clarification regarding the conditions where the practice applies, general criteria, considerations, and technical references.
- Revised: **Composting Facility (Code 317)** – Criteria for composting animal mortality has been removed from this standard and placed in Animal Mortality Facility (Code 316).
- Revised: **Heavy Use Area Protection (Code 561)** – The standard was revised to clarify the depth of aggregate/riprap needed for waterway equipment crossings. It also added language to include curbing on some concrete heavy use area protection sites.
- Revised: **Irrigation System, Microirrigation (Code 441)** - The purpose of reduced energy use has been removed. It would not be the primary purpose of planning a microirrigation system. There are some minor editing changes.
- Revised: **Karst Sinkhole Treatment (Code 527)** - The proposed changes provide additional clarification regarding the conditions where the practice applies, general criteria, sinkhole treatment/closing and considerations.

- Revised: **Pond (Code 378)** - The agency refined the definition, modified criteria, updated considerations, updated requirements for plans and specifications, and updated requirements for operation and maintenance.
- Revised: **Roofs and Covers (Code 367)** - The definition for the Roofs and Covers practice added agrichemical handling facilities to the waste management facilities specified. Criteria was added to include treated wood products and the type of associated fasteners and a table for geomembrane materials specified by cover purpose. Criteria was also added for appurtenant equipment associated with a cover over liquid manure storage facilities for the safe collection, conveyance, treatment or utilization of biogases.
- Revised: **Sprinkler System (Code 442)** – Added “in absence of manufacturer’s recommendations for pressure regulator operation, ensure line pressure upstream of regulators is at least 5 psi above rated regulator pressure”. There are also some minor editing changes.
- Revised: **Surface Drain, Field Ditch (Code 607)** – The agency changed the definition for clarity, along with a purpose and criteria added to allow use of this practice to collect irrigation tailwater for reuse.
- Revised: **Surface Drain, Main or Lateral (Code 608)** – The agency removed the reference to the ambiguous phrase ‘water management system’ in the purpose to improve clarity. Criteria was added allowing the use of this practice as a component to collect irrigation tailwater, for use in a Tailwater Recovery System, (Code 447) along with a reference to the two-stage channel design process in NRCS National Engineering Handbook, Part 654.1005 in areas where increased channel stability is required.
- Revised: **Vegetated Treatment Area (Code 635)** - This standard was edited to improve clarity. Additionally criteria was added to address pretreatment and erosion control measures and remove minimum flow length which affected design of small facilities.
- Revised: **Vertical Drain (Code 630)** – The agency incorporated plain language into this practice standard by adding verbiage to address potential negative effects on underground habitat, in conditions where practice applies. NRCS also added a statement in plans and specifications, focusing on documenting specific site characteristics, in relation to potential contamination sources. The agency also added a references section with National Engineering Handbook 633, Chapter 26, gradation Design of Sand and Gravel Filters.

Construction Specifications:

- Revised: **Waste Storage Facility CS (Code 313)** – The construction specification was revised to address the latest types of wood preservatives and fasteners.

Statements of Work:

- New: **Denitrifying Bioreactor (Code 605) SOW** – This is a new SOW developed for the Denitrifying Bioreactor standard.
- New: **Emergency Animal Mortality Management (Code 368) SOW** – This is a new SOW developed for the Emergency Animal Mortality Management standard.

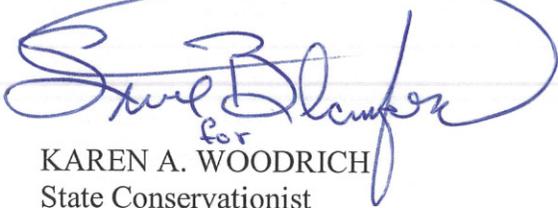
Archived:

Animal Mortality Facility (Code 316) – June 2011
Channel Bed Stabilization (Code 584) – August 2013
Composting Facility (Code 317) – June 2011
Heavy Use Area Protection (Code 561) – October 2011
Irrigation System, Microirrigation (Code 441) – March 2012
Karst Sinkhole Treatment (Code 527) – June 2011
Pond (Code 378) – March 2012
Roofs and Covers (Code 367) – February 2013
Sprinkler System (Code 442) – June 2011
Surface Drain, Field Ditch (Code 607) – November 2011
Surface Drain, Main or Lateral (Code 608) – April 2003
Vegetated Treatment Area (Code 635) – December 2008

These documents go into effect upon receipt of this notice. The documents have been reviewed by the KY State Technical Guide Committee and approved for posting to eFOTG in Section IV/Conservation Practices by Mark Ferguson, State Resource Conservationist.

ACTION

Access eFOTG and download the documents as needed. Discontinue use of Archived material for new planning and contracting.



for
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