

STATEMENT OF WORK
Waste Treatment Lagoon (359)
Ohio Template

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits to be obtained by the client.
 - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a).
 - ii. Storage and Treatment Volume.
 - iii. Maximum Operating Level.
 - iv. Structural, Mechanical and Appurtenances.
 - v. Maximize Clean Water Diversion.
 - vi. Environmental Considerations (e.g. liner failure, location, breaching, air quality).
 - vii. Safety Considerations (NEM Part 503- Safety, Subpart A, 503.06 through 503.12).
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. Engineering drawings shall meet the requirements stated in NEM 541.00 through 541.09, and Ohio supplement (OH541.00 (b)(4), pages 1 through 6) for the applicable practice:

(a) All Drawings

- Title block, name, practice, and county.
- Location map, township, section, roads, watercourses, etc.
- The location within construction area of all roads, fences, buildings, utilities, bridges, culverts, property lines, and landowners important to the project.
- Benchmarks and legends.
- Watershed boundary – where applicable.
- Underground utilities notification information and ‘Notice to Excavator’.
- Statement referring to attached construction standards.
- Soil types.
- Job class.
- Construction approval block.
- Delineated wetlands in area – where applicable.

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(b) Pond and Other Structures

- Plan view of structure layout.
- Topographic map (where applicable). Show low ground elevations at property lines near pooled water areas when they are near design high water level.
- Profiles of pipelines installed into the facility.
- Cross-section along centerline of proposed fill and core trench with soil boring 'Unified Classification' logs.
- Cross-section along centerline of foundation drain (where applicable).
- Soil boring or test pit locations and 'Unified Classification' logs.
- Borrow area location and 'Unified Classification' logs.
- Details of permanent appurtenances needed to fill or empty the facility.
- Fill cross-section showing side slopes, top width, elevations of top of fill, berms, ground line, core trench, etc.
- Erosion and sediment control measures.
- Seeding and fertilizing requirements.
- Quantities - bill of materials.
- Earth fill compaction requirements.
- Pond liner requirements where applicable
- Site preparation requirements (as necessary), i.e., topsoil scalping depth and stockpiling; waste material disposal; work limits.

(c) Animal Waste

- Plan view of system layout.
- Separation distance from the facility to the nearest well and neighboring residence
- Holding pond and lagoon requirements are same as for pond (see item 2 b).
- Structural details for all components.
- References to components supplied by others.
- Special safety requirements.
- Special surface water diversion considerations.
- Seeding, fertilizing, and mulching requirements.
- Roofing details.
- Gutter/downspout details.
- Quantities

3. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
4. Operation and Maintenance Plan.
5. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
6. Design modifications during installation as required.

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INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used.
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer.
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meet design and permit requirements.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied.
 - b. Drawings.
 - c. Final quantities.
 - d. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)).
2. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Waste Treatment Lagoon - 359, Ohio FOTG:
http://efotg.nrcs.usda.gov/efotg_locator.aspx?map=OH
- NRCS Agricultural Waste Management Field Handbook (AWMFH) and design software:
http://www.oh.nrcs.usda.gov/technical/engineering/engineering_software.html
- NRCS National Engineering Manual (NEM): <http://www.info.usda.gov/CED/ftp/CED/NEM.html>
- Ohio NRCS supplements to the NEM:
<http://www.oh.nrcs.usda.gov/intranet/NEM/supplements.html>
- NRCS National Environmental Compliance Handbook:
http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H_190_610_Content.htm
- NRCS Cultural Resources Handbook:
http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/H_190_601_Content.htm
- Ohio Department of Agriculture - Livestock Environmental Permitting Program Rules
<http://www.ohioagriculture.gov/pubs/divs/lepp/curr/rules/lepp-rl-front-021304.htm>