

STATEMENT OF WORK

Waste Transfer (634)

Michigan

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

Specific responsibility for the deliverables depends on the source of engineering technical assistance to NRCS-Michigan customers. Responsibilities for the four available sources of engineering assistance are described in NRCS-Michigan [Roles and Responsibilities for Engineering Technical Assistance](#).

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. Impacts on adjacent properties and structures.
 - d. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
 - e. List of facilitating practices
 - f. 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. Transfer tank capacity
 - iii. Hydraulic calculations
 - iv. Structural and Mechanical Components
 - v. Environmental Considerations (e.g. air quality, biosecurity).
 - vi. 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. The Construction drawings must include the notes shown on page 2 of the NRCS-Michigan standard drawing cover sheet (8½ x 11).
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.

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

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- b. "Red-line" Drawings (NEM part 512, Constructions, Subpart F – As-builts, 512.60 through 512.52)
 - c. Final quantities
 - d. Documentation of system pressure test prior to waste transfer service.
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard Waste Transfer - 634.
- NRCS National Engineering Manual ([NEM](#)).
- [NRCS-Michigan Operation and Maintenance Plans](#)
- [NRCS-Michigan Construction Specifications](#)
- National Engineering Handbook ([NEH](#))
- NRCS Agricultural Waste Management Field Handbook ([AWMFH](#))
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- Midwest Plan Service Livestock Waste Facilities Handbook ([pumps](#))
- Ohio State University. Ohio Livestock Manure Management Guide. Chapter 10—Pathogens and Pharmaceuticals. Bulletin 604-06 ([OSU](#))
- Miner, R. July 1995. Reducing the Risk of Groundwater Contamination from Livestock Manure Management. Fact Sheet. EM 8597. Oregon State University. <http://extension.oregonstate.edu/catalog/pdf/em/em8597.pdf>