

STATEMENT OF WORK
Waste Treatment (629)
Minnesota

These deliverables are the minimum requirements that apply to this individual practice. Service providers (TSP or other) shall prepare and document deliverables for the Design, Installation, and Checkout sections and submit deliverables to both the landowner and NRCS.

DESIGN

Deliverables:

1. Design documents that demonstrate criteria in practice standard have been met and are compatible with 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 503.0 through 503.6)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Objectives and outcomes of implementation
 - ii. Process diagram showing volumetric flow rates, waste load projections, unit process volumes and hydraulic retention times, projected air emissions, and projected nutrient fate
 - iii. Expected system performance
 - iv. Annual operating costs where appropriate
 - v. Quantities and fate of any byproducts
 - vi. Control system requirements
 - vii. Process monitoring requirements
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. Plans and specification shall be developed in accordance with the requirements of conservation practice standard Waste Treatment (Code 629).
3. Documentation showing the facility or process has achieved the intended purpose in similar situations and locations
4. Detailed operation and maintenance requirements including such things as loading rates, O&M manuals for specific components, start-up procedures, trouble shooting guide(s), and monitoring and reporting plans
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Part 501 Subpart A, or Part 505 Subpart A).
6. Design modifications during installation as required
7. Itemized Engineer's Cost Estimate

INSTALLATION

Deliverables

1. Documentation of 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. Application guidance as needed
5. Installation inspection
 - a. Actual materials used
 - b. Inspection records
6. Facilitate and implement required design modifications with client and original designer
7. System start-up assistance and initiate process monitoring
8. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation

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CHECK OUT/RECORDS OF IMPLEMENTATION

Deliverables

1. As-built documentation
 - a. Extent of practice units applied
 - b. Drawings
 - c. Final quantities
2. Start-up data showing facility or process is working as intended
3. Test results and interpretations as required
4. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Part 501 Subpart A, or Part 505 Subpart A).
5. Progress reporting

REFERENCES

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Waste Treatment, 629
- National Engineering Manual
- NRCS Agricultural Waste Management Field Handbook, 210-VI-NEH 651
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook