

NEW MEXICO ENVIRONMENT DEPARTMENT  
WASTEWATER TECHNICAL ADVISORY COMMITTEE  
SUBMITTAL REQUIREMENTS

February 2007

The items listed below, as appropriate, shall be submitted for all products, or product modifications, to be reviewed for approved use in New Mexico. One original and six copies shall be submitted at least 30 days prior to the quarterly WTAC meeting for which review is requested. Submissions shall be delivered to Tom Brandt, Liquid Waste Engineer, NMED Field Operations Division, 525 Camino de Los Marquez, Suite 1, Santa Fe, NM 87505, 505-476-8609. **Specific proprietary issues, and claims for proprietary confidentiality, must be identified as such.**

Submissions that do not provide the required information specified below will be rejected without further review. Submissions that contain the required information will be reviewed on a first-come, first-serve, basis. There is no guarantee that products will be scheduled for the quarterly WTAC meeting for which review is requested. Once scheduled for a WTAC meeting, company representatives will be invited to make a presentation **not to exceed 20-minutes.**

- 1. Cover sheet.**
- 2. Name of company, contact person, what is being requested.**
- 3. Claims being made, and approval(s) being requested.**
- 4. Claims NOT being made.**
- 5. Process summary.**
- 6. Process discussion to substantiate performance claims.** (Written at about the level of a patent application.)
- 7. Performance and process data.**

Required data for drainfield products

Information on failure rates and causes of failure.  
Performance data in New Mexico.

Required information for septic system additives

Product treatment mechanism, supported by chemical composition and test data  
Material Safety Data Sheet (MSDS) for the product

The protocol for product application  
 Claims being made  
 Claims not being made  
 Laboratory test results for volatile organic compounds (VOCs) by gas chromatography/mass spectrometry (GCMS) for a sample of the product

Required Information for Secondary and Tertiary Treatment Certification

Applications for secondary and tertiary treatment certification that do not contain the required information will be rejected without further consideration.

Required Sampling – **A minimum of twelve consecutive samples, no more than 2/month, over 6-24 month period from a private residence will be required. All manufacturers are encouraged to submit additional sampling data such as generated by NSF (National Sanitation Foundation) 40 or ETV (Environmental Technology Verification) testing.**

Properly calibrated field instruments shall be used to measure pH, conductivity, temperature, and DO, as applicable, at the time of sample collection. All other tests shall be conducted using the most current version of one of the following methods:

- a. Standard Methods for the Examination of Water and Wastewater, a joint publication of the American Public Health Association, the American Water Works Association, and the Water Environment Federation, <http://www.standardmethods.org/>.
- b. Methods and Guidance for the Analysis of Water, U.S. Environmental Protection Agency, <http://www.ntis.gov/products/bestsellers/epa-water-methods.asp?loc=4-2-0>.
- c. Techniques of Water-Resources Investigations, U.S. Geological Survey, <http://infotrek.er.usgs.gov/pubs/>.

Other appropriate methods as approved by NMED. Manufacturer to specify which testing methods used to gather data submitted. If EPA or Standard Method is used, short-term methods are acceptable, otherwise, the method used must be justified. Either BOD<sub>5</sub> or CBOD are acceptable, but the same method must be used for both influent and effluent data.

Required Analytical Parameters for All Advanced Treatment

Influent	Effluent
pH	pH
	Temp
	DO
BOD	BOD
TSS	TSS

<i>Additional Parameters for Tertiary Treatment</i>	
Ammonia	Ammonia
TKN	TKN
	Nitrate + Nitrite (as N)

It is the manufacturers responsibility to provide all data necessary to demonstrate how the treatment system works, and that it treats to the levels required for certification.

Additional Parameters that may be useful:

- Fecal coliform bacteria (required for systems requesting certification for disinfection)
- Alkalinity (strongly recommended for Tertiary certification)

Required Treatment Levels for WTAC Certification

- Secondary treatment – average 30/30 mg/L BOD/TSS, with no sample greater than 60
- Tertiary treatment – in addition to 30/30 mg/L BOD/TSS, demonstration for secondary, average 20 total nitrogen (sum of TKN, nitrate, nitrite)

Scope of WTAC Recommendation

The WTAC shall issue recommendations for application in a single family home unless otherwise requested, demonstrated by presented data, and approved by the WTAC for other applications.

- 8. Installation, Operation, and Maintenance (O&M) manuals for the system.**
- 9. Engineering quality drawings of the product.**
- 10. Materials list.**
- 11. Disclosure of product limitations , if any, in terms of appropriate applications.** (Include limitations due to siting/installation conditions, influent water quality, climate/temperature, and periodic flow.)
- 12. Product performance or evaluation reports, if any, prepared by entities other than the manufacturer.**
- 13. Articles in peer-reviewed professional publications, if any, that address the specific product.**

**14. All handouts and slide/Powerpoint presentations to be used during the WTAC meeting.**

In addition to the required information listed above, the submitter may include other material as deemed appropriate for WTAC review.