



North Carolina Department of Environment and Natural Resources
Division of Water Quality

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Map Guidance for Residuals Land Application Fields (Non-dedicated)
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Minimum map submittal requirements for residuals land application permits are specified in [15A NCAC 02T .1104](#). The following guidance is intended to provide clarification of Division expectations for submitted maps in order to assist Applicants in preparing complete submittals.

All maps are to be originals or 1st generation copies to insure they are **clear and legible**, and should be labeled with the following information:

- Scale (appropriate scale shall be used to cover the objective)
- County where site is located
- Landowner's name
- Name of the Permittee and/or permit number
- Site identification number (if applicable)
- Map legend (if applicable)

The [15A NCAC 02T .1104](#) application requirements do not specify how many maps to submit or what required information must be submitted on each map. The Division recommends the Permittee divide the required information onto each of the following maps.

1. Vicinity map (road map):

- Field location(s) for the site to be permitted
- At least two geographic references (e.g., numbered roads, named streams/rivers)

2. Topographic Map:

- Field location(s)
- Topographic contour intervals not exceeding 10 feet or 25 percent of total site relief
- Show all facility related structures and fences within the treatment, storage and disposal areas

3. Soils Map:

- As explained in [15A NCAC 02T.1104\(c\)\(2\)\(A\)](#) and page 13 of the [Soil Scientist Evaluation Policy](#)
- Location(s) of pits or auger borings used for soil descriptions

4. Application Area & Setback Map:

- Total acreages
- Net applicable acreages
- Setback delineation in accordance with [15A NCAC 02T .1108](#)
- Features to include in the Application Area & Setback Map

Streams*	Drains*	Public road (include road name)
Surface water*	Fence	Private road
Storage area	Property line	Forested area
Application area	House	Unsuitable area
Outbuilding	Well	Area suitable for incorporation

* To include by definition - streams, waterbodies, channels, ditches or canals, found in [15A NCAC 02B .0233](#)

- [15A NCAC 02T .1104](#) requires that compliance and review boundaries be delineated on a map. The Application Area & Setback Map may include a note indicating the delineation of the compliance and review boundaries instead of the line drawn on the map [e.g., “The compliance boundary is established at _____ (either 250 feet from the residuals land application area or 50 feet within the property boundary, whichever is closest to the residuals land application area). The review boundary is established midway between the compliance boundary and the perimeter of the residuals land application area.”].
- The [15A NCAC 02L](#) rules prohibit water supply wells within the compliance boundary and require wells to be located 250 feet away from the disposal area. An alternative to this requirement can be approved in accordance with [15A NCAC 02T .0105\(h\)](#). **Upon the Permittee’s request**, the compliance boundary may be located closer to the waste disposal area due to an on-site water supply well. Maps showing wells with the re-established compliance boundary must delineate or include a footnote describing the redefined compliance and review boundaries (e.g. “A re-defined compliance boundary is proposed for this land application site. This re-defined compliance boundary is south of the field and shall be located at 100 feet from the water supply well on Harold Eldridge’s property”).

5. Critical Watershed Map:

- Clearly show that the proposed fields are not located within critical watershed areas. Include a critical watershed area map for each county where the proposed land application sites are located.
- Send a copy of this map to the County Manager along with the [County Manager Notification Form](#) (CMNA 08-09) prior to application submittal.
- Water Supply Watersheds Critical Areas maps may be downloaded at: <http://portal.ncdenr.org/web/wq/swp/ws/wswp/maps>

6. Aerial Map (if applicable):

- An aerial reference map may be included and is desirable if during a site review the field to be permitted has been planted in a row crop and cannot be easily evaluated.