

SUMMARY OF WAKE COUNTY SEPTIC SYSTEM INFORMATION

Type of System -->	I	II	III	IV	V	VI
Simple Description	All privy/toilet systems	Conventional septic systems	Larger conventional systems, conventional systems with special characteristics (such as a pump)	Low pressure pipe systems and systems with multiple pumps	Systems with pretreatment components	Larger systems with pretreatment and systems with reuse of wastewater
Regulatory Description	a. Privy b. Chemical Toilet c. Incinerating Toilet d. Other toilet system e. Grease trap	a. Conventional System (single family or 480GPD or less) b. Conventional System (750 linear feet line or less) c. Conventional system with shallow placement	a. Conventional system >480GPD (non-SF) b. System with single effluent pump or siphon c. Gravity fill system d. Dual gravity field system e. PPBPS system, gravity dosed f. Large diameter pipe system g. Other non-conventional trench system	a. System with Low Pressure Pipe (LPP) distribution b. System with > 1 pump or siphon	a. Sand filter pretreatment (also non-domestic waste, flow equalization & sand lined trenches) b. Any > 3,000GPD septic tank with nitrification field designed for >1,500GPD c. Aerobic Treatment Unit (ATU) d. Other mechanical, biological, or chemical pretreatment plant (< 3,000GPD)	a. Any > 3,000GPD system with mechanical, biological, or chemical pretreatment system plant b. Wastewater reuse/recycle
Current County Inspection Frequency (months)	N/A	N/A	N/A	36	12	N/A (none yet exist in Wake County)
Mandated County Inspection Frequency (months)	N/A	N/A	For Type IIIb Systems Only -- 60	36	12	6
Mandated County Operator's Report Review Frequency (months)	N/A	N/A	N/A	12	6	3
Certified Operator (CO) Inspection Frequency Requirement (months)	N/A	N/A	N/A	6	Frequency varies depending on system (from every 6 months to every week)	Frequency varies depending on system (from every month to 5 times per week)
Certified Operator (CO) Reporting Requirement Frequency (months)	N/A	N/A	N/A	12	6	3
Preferred Management/Maintenance Actions	Component specific maintenance, monitor residuals, component integrity, vector control.	Educate owner on proper use and maintenance, check access risers & tank integrity, evaluate for in/exfiltration, clean filter, monitor residuals & pump tank as required, monitor distribution device function (D-box, flow divider, etc.), monitor disposal field, maintain vegetation and landscaping (to shed water). Inspect every 5 years	All Type II Actions <i>Plus the following for pump systems:</i> Check pump tank & access riser integrity, evaluate for residuals & in/exfiltration, evaluate control panel/pump/float operation and settings, inspect piping/fittings for leaks, monitor distribution within manifold and deliver to trenches, flush pressure manifold/reset pressure/measure delivery rates (if so equipped), etc. Inspect every 5 years	All Type II and III Actions <i>Plus the Following for LPP (IVa) systems:</i> Flush laterals/manifolds, evaluate and reset pressures, monitor distribution within LPP system, determine pump delivery rate, and blockages/leaks, etc. Inspect at mandated frequency	All Type II, III & IV (if applicable) Actions <i>Plus Numerous Component Specific Activities.</i> In general these include: monitoring treatment performance via yearly influent and effluent sampling, monitoring delivery and distribution within the pretreatment unit, monitoring 7-day and 30-day water use/flow, assessing air delivery rate and distribution within the pretreatment unit, assessing and removing biomat and solids buildup on the media in pretreatment unit or in the solids accumulation zones, assess recirculation ratio, assess solids wasting needs. Inspect at mandated frequency	All Type II, III, IV and V (if applicable) <i>Plus Numerous Component Specific Activities:</i> In general includes assessment of food to microorganism levels, carbon availability or C/N ratio if denitrification is limited, solids buildup on membranes, assessment and replacement of clogged media, membrane tubes, etc. Inspect at mandated frequency
Approximate Number of Systems in unincorporated Wake County*	2 These are type Id	41,000 This is the number installed since 1975	11,600 6,623 are type IIIb and installed since July 1, 1992 (require County inspection)	1,360 900 were installed prior to July 1, 1992 (data from separate permit filing system) 460 of these were installed since July 1, 1992	48	0

*These estimated numbers are based on information contained in the current electronic permitting databases used by the County, which have been in use since ~1986. These figures do not include systems installed prior to 1986, or installed in the municipalities' jurisdictions.