

DRAFT Viable Utility Reserve Distressed Criteria Summary

Parameter	Weight	Description	Formula	Data Source
Criteria Required by Statute				
Service Population	1	Identifies smaller systems (less than 10,000 people served).		Varied
Transfers Out	1	Point scored when money is transferred out of the system's dedicated utility fund in 2 or more of last 5 years if the system also has a negative surplus and low debt service coverage ratio. (This indicates that money generated by the utilities is not being put back into the system for improvements.)		Calculated from LGC data
Transfers In	1	Indicates that the system is not generating enough money to cover expenses. Point scored when money is transferred into the primary water/sewer fund from other sources in 2 or more of the last 5 years.		Calculated from LGC data
Debt Service Coverage Ratio (DSCR)	1	Measures unit's ability to cover loan payments by looking at revenue, expenses, and loan payments (principal and interest). Threshold value is less than 1.1.	(Operating revenues - operating expenses excluding depreciation) / (principal + interest payments)	Calculated from LGC data
Established, operational, and adequately funded program for repair, maintenance, and management		This criterion is measured by other parameters that are identified by an asterisk (*) including compliance, flow moratorium, and UAL control issues.		
Infrastructure / Organizational Criteria				
DW Compliance (*)	1	Point scored for maximum contaminant level (MCL) and treatment technology violations.		NC DEQ-DWR
WW / CS Compliance (*)	1	Point scored for limit violations and inspection violations for wastewater treatment operations, and sanitary sewer overflows (SSOs) violations and systems with the highest SSOs per mile of collection system.		NC DEQ-DWR
Flow Moratorium (*)	4	Points scored when the system is under a moratorium preventing service expansion due to inability to treat wastewater or because the system has reached 90% of permitted capacity.		NC DEQ-DWR
Revenue Outlook	4	Reflects service unit's ability to generate income in the future. Points scored when the system has high rates AND declining population.		EFC rates; source of population varies
Affordability	1	Identifies economically disadvantaged communities by comparing the service area's population change rate, poverty rate, median household income, unemployment rate, and total appraised value of property to established state benchmarks. Point scored if 4 or 5 of these indicators are worse than the state benchmark.		Developed by DWI/SWIA
Rates	1	Point scored when rates are already high. Indicates that the system is unlikely to be able to increase rates to improve revenue. High rates thresholds are: > \$100/month for combined water and sewer service; > \$50/month for water service only; and > \$60/month for wastewater service only.	2019 inside rate for 5,000 gallons used	EFC

Parameter	Weight	Description	Formula	Data Source
DW Pop / Mile	1	Evaluates population density. Lower density areas tend to face more service challenges. Threshold value is less than 100.	Service Population/ Miles of drinking water pipe	LWSP (see above for population)
Sewer Pop / Mile	1	Evaluates population density. Lower density areas tend to face more service challenges. Note that there is a significant lack of data on miles of sewer line for small systems. Threshold value is less than 100.	Service Population/ Miles of sewer pipe	NC DEQ-DWR
UAL Control Issues - W/S only (*)	3	Points scored for systems that have been identified as medium risk (2) or high risk (1) of accounting control issues associated with water and/or sewer systems based on annual audits.		LGC
Financial Criteria				
UAL Missing Audit	3	If audit not submitted, then treat as if on the UAL for control issues (for FY 19 audits)		LGC
Surplus (deficit) w/ Debt	2	Identifies systems that are not generating enough revenue to cover expenses, asset depreciation, and debt payments. Threshold value is less than or equal to \$0.	Operating Revenues- ((Operating Expenses- Depreciation)+Long- term Debt Service)	Calculated from LGC data
No Debt DSCR Test	1	Similar to the DSCR calculated above but includes \$1 million "test" project if system has no debt to allow evaluation of the ability to finance a simple project. Threshold value is 1.1.		Calculated from LGC data
% Depreciated	1	Evaluates the financial impact of depreciation of water and sewer assets as they age. Threshold value is greater than 50%.		Calculated from LGC data
Operating Margin	1	Point scored if the system is not generating enough revenue to cover operating expenses. Threshold value is less than 0.	(Operating Revenue - Operating Expenses) / Operating Revenue Includes depreciation	Calculated from LGC data
Quick Ratio	1	Evaluates a system's ability to meet short-term financial obligations with cash or easily accessible funds. Threshold value is less than 1.1.	Current assets (excluding inventories and prepaids) / current liabilities	Calculated from LGC data
Receivables Ratio	1	Measures how well the system is collecting money from customers. Point scored for 3-year average greater than or equal to 2.3 or if there is an increase of greater than or equal to 0.2 in each of the last two years which demonstrates a declining trend in bill payment.	Days Receivables /billing period Days receivables=Net Customer Accounts Receivable/Charges for services /365	Calculated from LGC data

List of Acronyms		
CS = Collection System	DWR = Division of Water Resources	SSO = Sanitary Sewer Overflow
DEQ = Dept. of Environmental Quality	EFC = Environmental Finance Center	SWIA = State Water Infrastructure Authority
DSCR = Debt Service Coverage Ratio	LGC = Local Government Commission	WW = Wastewater (sewer)
DW = Drinking Water	LWSR = Local Water Supply Plan	UAL = Unit Assistant List generated by LGC to identify communities that may have problems with accounting procedures identified through audits
DWI = Division of Water Infrastructure	MCL = Maximum Contaminant Level	