

North Carolina State University Water Restriction/Drought Action Plan

Stage 2 – (Meets or Exceeds City of Raleigh Stage 1A) - Effective October 19, 2007

Fines	<ul style="list-style-type: none"> City of Raleigh 1st Violation - \$1,000 2nd Violation - Interruption of Service
Grounds Management	<ul style="list-style-type: none"> Cease all non-essential watering including drip irrigation systems. Essential plant vegetation watering to be pulled from Lake Raleigh (non-potable). Convert additional truck(s) to use non-potable Lake Raleigh water for plant material instead of City of Raleigh water. Cease all vehicle washing except for sanitary reasons. All decorative fountains campus wide stopped and water drained for reuse.
Building Maintenance & Operations	<ul style="list-style-type: none"> All leaks Code 1 should be repaired within 24 hrs. Write work requests to check conductivity controllers and water control valves on cooling towers. Convert high-flow to low-flow toilets at DH Hill Library and Harrelson Hall. Cease all vehicle washing except for sanitary reasons. Eliminate fire pump testing. Eliminate water flow in testing of sprinkler systems. Review procedures at animal washing rooms for water saving opportunities. Review process cooling applications and eliminate once through cooling.
University Dining	<ul style="list-style-type: none"> Water served only upon request. Use disposable products instead of washing wherever possible. Distribute NCSU water conservation awareness flyers targeting all building users within the Dining area of operation. Cease all vehicle washing except for sanitary reasons.
University Housing	<ul style="list-style-type: none"> All Leaks Code 1 and should be repaired within 24 hrs. Create and distribute a water conservation awareness flyer targeting all building users within the Housing area of operation. Raise building temperature and set points on air handlers if applicable. Complete conversion of all hand sinks to .5 gpm faucet aerators within 30 days. Complete conversion of all appropriate showers to 1.5 gpm shower heads within 60 days. Cease all vehicle washing except for sanitary reasons.
Housekeeping	<ul style="list-style-type: none"> Cease all washing of areas such as sidewalks, driveways, and patios except for sanitary reasons. No window or power washing. Cease all vehicle washing except for sanitary reasons. Install alcohol based hand sanitizers in restrooms. Reduce water where appropriate for cleaning and mopping operations. Turn off non-essential ice makers. Report all leaks immediately.
Athletics	<ul style="list-style-type: none"> Cease all non essential outdoor watering. Install new control valve for urinals at Carter Finley to conserve water. Complete conversion of all appropriate showers to 1.5 gpm shower heads within 60 days. Cease all vehicle washing except for sanitary reasons. Convert additional truck(s) to use non-potable Lake Raleigh water for plant material instead of City of Raleigh water. Complete conversion of all hand sinks to .5 gpm faucet aerators within 60 days.
Talley Student Center	<ul style="list-style-type: none"> Create and distribute a water conservation awareness flyer targeting all building users within the Talley Student Center area of operation. Complete conversion of all hand sinks to .5 gpm faucet aerators within 60 days. Cease all vehicle washing except for sanitary reasons. All student activities requiring water usage will be cancelled or restructured for no water usage. Perform daily checks on leaks, sensors, and operation of fixtures. Raise building temperature and set points on air handlers.
Utilities & Engineering Services	<ul style="list-style-type: none"> Write work requests to check conductivity controllers and water control valves on cooling towers. Suspend fire hydrant flushing. Convene NCSU Conservation Awareness Team (CAT) to update conservation strategies and educational outreach with the City of Raleigh. Shut down steam driven chiller at Yarbrough Building. Raise chilled water set points. Raise set points on cooling towers. Examine fines or penalty system for non-compliance with water restrictions. Investigate ultra-low flow urinal installations at Mann Hall, CVM #301, Carmichael Gymnasium, and other buildings. Coordinate and disseminate the NCSU water conservation plan throughout campus in response to the City of Raleigh and the Governor's mandates on water conservation. Monitor consumption levels to measure progress. Produce and publish daily updates of water conservation progress in the Technician and online at www.ncsu/energy Pursue permitting and digging of wells for utility plants for cooling tower make-up. Shut down any water-cooled bearing equipment that is non-essential or can be sourced elsewhere. Cease all vehicle washing except for sanitary reasons. Complete conversion of all hand sinks to .5 gpm faucet aerators in the thermal plants within 60 days.
Carmichael Gymnasium	<ul style="list-style-type: none"> Reduce backwash timing and/or frequency for Carmichael pool. Wash only full loads of laundry, and consider adjusting water temperature set point to reduce steam required to heat the water. Investigate replacing laundry equipment with more water efficient models. Install ultra-low flow urinals provided from Energy Management. Complete conversion of all hand sinks to .5 gpm faucet aerators within 30 days. Complete conversion of all appropriate showers to 1.5 gpm shower heads within 60 days. Cease watering practice fields.
Other	<ul style="list-style-type: none"> Follow all rules above and those from City of Raleigh. Cease all vehicle washing except for sanitary reasons.

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