

- Information is displayed on a large chart which includes 45 columns.
- Row one lists the state [Groundwater Standard found in 15A NCAC 02L .0202.](#)
- Row two lists the [Federal Maximum Contaminant Level \(MCL\)](#)
- Row three lists the [DHHS Screening level](#)
- NA stands for 'not analyzed,' NS stands for 'no standard'
- ug/L = Microgram per liter. Corresponds to a single penny in \$10,000,000.
- mg/L = Milligram per liter. Corresponds to a single penny in \$10,000.
- FAQ's on [well testing near coal ash ponds](#)

Flag Definitions:

- B Detected in method blank (MB)
- J Estimated result between PQL and MDL
- J2 Spike recovery outside quality assurance limits @ 135%
- Zb Sample was clear but contained sand-like particles
- Zc Well depth was 635 feet per well tag
- J8 Temperature of the sample was exceeded during storage due to
- BH Method Blank (MB) greater than one half of the Reporting Level (RL), but the sample concentrations are greater than 10x the MB.
- ** Alkalinity = carbonate + bicarbonate
- S1 The matrix spike and / or the matrix spike duplicate sample recovery was not within control limits due to matrix interference. The Laboratory Control Sample (LCS) was within control limits.
- Z Sample was re-digested and re-analyzed with similar sample and spike results.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- PQL Each analytical procedure has a Practical Quantitation Limit, which is defined as "the lowest level achievable among laboratories within specified limits during routine laboratory operation". The PQL is about three to five times the calculated Method Detection Limit (MDL) for the analytical procedure, and represents a practical and routinely achievable reporting limit with a relatively good certainty that any reported value is reliable
- MDL method detection limit
- < Measurement limited by threshold (cannot detect measureable amount below this number). Actual detectable amount below threshold is unknown

Working through the table:

North Carolina groundwater standards are established in accordance with 15A NCAC 02L and are known as the 2L standards. These standards may differ from the federal Safe Drinking Water Act standards (MCLs)

Federal maximum contaminant levels (MCLs), as part of the Safe Drinking Water Act, are the drinking water standards that regulate public drinking water standards.

For some constituents, there is no federal or state standard. In these cases, DHHS has developed health protective screening levels.

15A NCAC 02L .0202 Groundwater Standard:	NS
Federal MCL [* denotes secondary standard]	*50 to 200 ug/L
DHHS Screening Level	3500 ug/l

In this case there is no 2L standard (NS), but there is a Federal MCL standard (secondary), and a health protective screening level.

Coal Ash Facility	Property Address	Public or Private	Well Owner ID	No. of Wells on Property	Notes	Aluminum (ug/L)
Allen Steam Station	2730 South Point Road Belmont, NC 28012	Private	AL40	1		13J
Allen Steam Station	2738 South Point Road Belmont, NC 28012	Private	AL42	1		<40
Allen Steam Station	2649 South Point Road Belmont, NC 28012	Private	AL45	1		<40
Allen Steam Station	2625 South Point Road Belmont, NC 28012	Private	AL47	1		<50
Allen Steam Station	2621 South Point Road Belmont, NC 28012	Private	AL48	1		<50
Allen Steam Station	2330 South Point Road Belmont, NC 28012	Private	AL5	1		45J
Allen Steam Station	106 Wildlife Road Belmont, NC 28012	Private	AL51	1		3.6J
Allen Steam Station	107 Wildlife Road Belmont, NC 28012	Private	AL52	1		20J
Allen Steam Station	108 Wildlife Road Belmont, NC 28012	Private	AL53	1		<50

In some cases, laboratories have analytical limitations on how small or low constituents can be accurately quantified. In these instances data is only quantified to a threshold "below" or "less than" the respective number

Name of coal ash facility near well test location.

Each well owner is assigned a unique ID. In some cases multiple wells are contained on one owner's property.

Results for constituents tested are displayed in the measurement 'microgram per liter' or 'ug/L' or which is 'one part per billion' or 'ppb'.

The table includes a column for 39 different measurements