Integrating Data from the South Carolina Department of Natural Resources into the National Ground-Water Monitoring Network



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# Table of Contents

| Background  | 3 |
|---|---|
| Existing DNR Groundwater Monitoring Networks  | 4 |
| Continuous Groundwater Level Monitoring Network   | 4 |
| Goals of the DNR Monitoring Network   | 5 |
| Potentiometric Mapping Well Network   | 6 |
| NGWMN Site Selection and Monitoring Category Classification                                 | 7 |
| NGWMN Subnetwork Classification   | 8 |
| Field Techniques for Water Level Data Collection1   | 3 |
| Site Visits1  | 3 |
| Automated Measurements1   | 3 |
| Manual Measurements1  | 4 |
| Groundwater Monitoring Network Data Processing and Storage1                                 | 4 |
| References1   | 6 |
| Appendix A: Sites Selected for inclusion in the National Groundwater Monitoring Network and |   |
| Selected Attributes1  | 9 |
| Appendix B: DNR Standard Operating Procedures for ADR Water Level Network Wells             | 0 |

## Background

On October 1, 2015 the South Carolina Department of Natural Resources (DNR) entered into a cooperative agreement with the United States Geological Survey (USGS) to become a new data provider for the National Ground-Water Monitoring Network (NGWMN). The award was for a one-year period to identify and classify wells in existing DNR networks that could be integrated into the NGWMN and to establish web services to provide the data to the NGWMN web portal. The award period ended on September 30, 2016. This report documents the activities undertaken by DNR during the award period.

The NGWMN "is a product of the Subcommittee on Ground Water of the Federal Advisory Committee on Water Information (ACWI). The NGWMN is a compilation of selected groundwater monitoring wells from Federal, State, and local groundwater monitoring networks across the nation. The NGWMN Data Portal provides access to groundwater data from multiple, dispersed databases in a web-based mapping application. The portal contains current and historical data including water levels, water quality, lithology, and well construction."

## Existing DNR Groundwater Monitoring Networks

### Continuous Groundwater Level Monitoring Network

DNR maintains a network of wells to monitor groundwater levels of the major aquifers in the State. Data from the network are used to assess groundwater availability, monitor drought conditions, and calibrate hydrologic models. Water levels in most network wells have been measured since the mid-to-late 1990s, and about one-third of the wells have water-level data going back more than 20 years, with one as far back as 1955. Measurements prior to the mid-1990s were made primarily by the USGS in wells that were originally maintained by that agency and which later became part of the DNR groundwater network.

Water levels are measured both manually and automatically. The majority of wells in the network are equipped with automated data recorders (ADRs), which measure and record water levels every hour. Data stored in these recorders are downloaded during periodic site visits, usually once every two months, at which time manual measurements are also made to verify the accuracy of the water-level recorders. Water levels in wells not equipped with ADRs are measured manually during periodic site visits, typically on a bimonthly basis, using an electric measuring tape or pressure gauge. Locations of wells in the South Carolina Groundwater Monitoring Network are identified in Figure 1.



Figure 1. Locations of wells in the South Carolina Groundwater Monitoring Network.

#### Goals of the DNR Monitoring Network

#### Increase the number of groundwater-level monitoring wells

An overall goal of the program is to have an adequate number of wells in the network to generate accurate, statewide potentiometric maps of each aquifer. Because there are currently not enough wells in the existing network, the development of potentiometric maps is dependent upon water-level data collected from wells that are owned by outside entities, such as municipalities, industries, and private citizens. These additional wells are not always available to be measured and can be permanently lost to abandonment over time. It is expected to take many years to accomplish this goal. Currently, about 135 wells are used to make a potentiometric map of the Middendorf aquifer, 100 to make a Black Creek map, and 200 to make a Floridan map. A shorter-term goal is to establish at least one complete well-cluster site in each of the 28 Coastal Plain counties. A complete cluster site is one that has a core, preferably to bedrock, and nearby wells screened in each of the major aquifers.

#### Develop a network of drought-assessment monitoring wells

Another long-term goal is to have a statewide, real-time drought-assessment network composed of relatively shallow monitoring wells that are linked to the office via telemetry systems. These wells should preferably be screened in the shallow (water-table) aquifer system, be located on higher ground between streams where groundwater levels are less directly influenced by surface water, and be located away from major pumping centers. The purpose of this network would be to provide near real-time groundwater levels to water managers, drought committee members, and the State Drought Coordinator before, during, and after droughts. Such information will be used, along with other hydrologic and meteorological data, to assess the severity of droughts. Six such sites have been established and five other sites are under construction.

#### Develop a network of saltwater-intrusion monitoring wells

Another long-term goal is to develop a saltwater-intrusion network composed of monitoring wells located along the coast that are equipped with conductivity probes. Water samples will be collected periodically to ground-truth the conductivity data, and fluid conductivity and temperature geophysical logs will be obtained annually or biennially from the wells. Initially, the goal will be to develop a network of wells that are completed in the shallow aquifer system and in the uppermost confined aquifer in the area. The uppermost confined aquifer is the Floridan aquifer in Jasper and Beaufort Counties (Upper and Middle Floridan aquifers), the lower part of the Tertiary sand aquifer in Colleton and Charleston Counties (Gordon aquifer), and the Black Creek aquifer in Georgetown

and Horry Counties (Crouch Branch aquifer). Over time, wells from deeper aquifers and wells farther inland will be added to the network. This network will provide information to water managers and planners about the occurrence and movement of saltwater into freshwater aquifers along the coast.

## Potentiometric Mapping Well Network

Given the sparse spatial distribution of monitoring sites in the DNR groundwater Monitoring Network it is necessary to utilize other existing wells in order to generate Potentiometric Maps of the Major Aquifers in South Carolina. This network of wells is referred to as the Potentiometric Well Network. These wells are not owned or maintained by DNR but are made available by the owners for gathering water level data. Measurements are typically taken on a three-year interval rotating between the major aquifers of the coastal plain. Measurements are made manually using and electric measuring tape, steel measuring tape or pressure gauge. Data are collected by the DNR, the Savannah River National Laboratory, the South Carolina Department of Health and Environmental Control (DHEC), and the USGS.

## NGWMN Site Selection and Monitoring Category Classification

Based on the Guidance provided by the NGWMN sites were selected from both the DNR Groundwater Monitoring Network and the Potentiometric Mapping Well Networks. Sites were selected based on their period of record, anticipated future monitoring, spatial distribution and value to answering trans-boundary issues. After sorting sites based on period of record and anticipated future availability of the monitoring sites, wells were evaluated for inclusion or exclusion in the NGWMN by a committee of hydrologist from DNR. Sites from the Groundwater Monitoring Network are considered Trend Sites for the frequency of data collection. Surveillance Sites were selected from wells in the Potentiometric Mapping Well Networks. The resulting selection identified 137 Trend and 301 Surveillance wells for inclusion into the NGWMN.



Figure 2. Sites selected for inclusion in the NGWMN.

## NGWMN Subnetwork Classification

Using the guidance provided from the NGWMN, the wells selected for inclusion in the National network were classified into Subcategories. A committee of hydrologists from DNR examined the data available for each well. Hydrographs were created and examined to identify wells that had documented anthropogenic changes. Potentiometric maps were used to identify wells that are located within a documented cone of depression. Additionally, water-use data collected from DHEC was examined to identify wells where changes in water levels may be anticipated.



Figure 3: Water use from DHEC is overlain on wells identified for inclusion in the NGWMN.

Wells located away from areas of high reported water use and where no documented declines in water levels were observed, were assigned to the Background Subnetwork. Wells that had data suggesting anthropogenic impacts or in areas of high water demand were assigned to the Suspected/ Anticipated Changes Subnetwork. Wells with documented declines or wells that were located within cones of depression identified by potentiometric mapping were assigned to the Documented Changes Subnetwork. The maps in figures 4 through 10 show the location and subnetwork classification of wells included in the NGWMN separated by local aquifer designation.



Figure 4. Surficial wells.



Figure 5. Floridan wells.



Figure 6. Tertiary Sand wells.



Figure 7. Black Creek wells.



Figure 8. Middendorf wells.



Figure 9. Cape Fear wells.



Figure 10: Crystalline rock wells and their classification.

## Field Techniques for Water Level Data Collection

#### Site Visits

All DNR monitoring network sites classified as Trend Sites in the NGWMN are currently visited at least six times per year. During each site visit and for every well, a manual water-level measurement is taken from the designated measuring point and recorded in a field book along with the date and time of the measurement. For wells equipped with ADRs, current or real-time readings are obtained from the ADRs (for both water-level sensors and barometric sensors, if applicable) and recorded in a field book. Data are downloaded from the ADRs and evaluated on site to check instrument performance. For pressure transducers, the sum of the sensor's current water-level reading (height of water above probe, corrected for barometric pressure, if applicable) and corresponding manual measurement (depth to water) is calculated during each site visit. This sum, called the cable length, should be the same value for each site visit. Comparing cable length values from consecutive site visits is a means of assessing transducer performance. A minor change in cable length (0.2 ft or less for most transducers) indicates that a potential instrument fault may exist, but the ADR is not typically replaced. When cable-length tolerances are exceeded repeatedly after additional site visits, either the ADR is recalibrated, or an instrument failure is confirmed, in which case the transducer is replaced and the associated records are not added to the groundwater database. For newer transducers, the cable-length variations observed between consecutive site visits typically have been less than 0.10 ft. Site maintenance includes replacing saturated desiccant packs at sites equipped with vented transducers; the desiccant prevents the buildup of moisture in the transducer's vent tube, which can cause faulty water-level readings and damage the equipment. Other maintenance procedures include checking for battery failure, communication errors, and spurious data spikes caused by lightning or other electromagnetic interference. Malfunctioning equipment, either ADRs or direct-read cables, are diagnosed and replaced or repaired as needed. Any issues with or changes to instrumentation are documented in a field book. A complete description of standard field operating procedures is included in Appendix B. ADR water-level probes used in the DNR network include: Schlumberger® Diver®, Solinst® Levelogger®, and In-Situ® AquaTroll®, which also measures conductivity.

DNR sites that are classified in the NGWMN as Surveillance Sites are typically visited once every three years around November. These sites are manually measured using a variety of E-tapes, Steel Tapes and Pressure Gauges. Wells are required to be shut down and allowed to recover before measurements are taken. Measurements are recorded on field sheets provided by DNR.

#### Automated Measurements

Two types of water-level sensors—shaft encoders and pressure transducers historically have been used for automated monitoring stations whose readings are calibrated to manual measurements. By the summer of 2014, all shaft encoders were removed and replaced with pressure transducers. Shaft encoders measure depth to water and consist of a float, counterweight, cable, and pulley assembly. The float and counterweight hang freely inside the well, connected by a cable that runs over a pulley mounted near the top of the well. As the water level in the well changes, the float also moves, causing the pulley to rotate. The rotation of the pulley is measured optically or electronically, and that movement is translated into a measurement of the change in water level. Shaft encoders have a rated accuracy and resolution of 0.01 ft (feet).

Pressure transducers are installed in wells at fixed depths, below the expected range of water levels, and provide a measurement of the height of water above the sensor. The sensor contains a semiconductor strain gage: Changes in the height of water above the sensor changes the pressure on the sensor, which deforms the crystalline lattice of the sensor's silicon diaphragm, changing the sensor's electrical resistance (piezoresistive effect) to a constant input voltage, thus changing the output voltage. Water depth is computed from the output voltage measurement. Three brands of pressure transducers currently are utilized within the network: Schlumberger® Divers®, Solinst® Leveloggers®, and In-Situ® AquaTrolls®. Pressure transducers are deployed in wells using direct-read cables, which eliminates the need to remove the sensor from the well in order to download data. Most transducers in the network have a measurement range of 0-65 ft and an accuracy and resolution of less than 0.07 ft and 0.01 ft, respectively. Most transducers are not vented to the atmosphere and thus measure the combined pressure of both the water column and the atmosphere. Because unvented transducers require barometric compensation to remove the effect of atmospheric pressure, barometric data are collected at strategic sites throughout the State. Efforts are made to ensure that a barometric monitoring site is located within 20 miles of each unvented monitoring well. Vented transducers, which have sensors open to the atmosphere via a vent tube and thus require no barometric compensation, are installed in a few wells along the coast. Water-level and barometric transducers are synchronized with one another and record data every hour. Shaft encoders also recorded water levels every hour. A copy of the Standard Operating Procedures can be found in Appendix B

#### Manual Measurements

Manual water-level measurements or "tape downs" are typically made using an electric tape, which consists of a pair of wires set inside an insulated sheath, the outside of which is marked like a measuring tape. The wires are attached to a steel probe at the bottom of the tape, but the design of the probe is such that there is a small gap between the two wires, keeping an electric circuit open. The tape is lowered into the well until the probe reaches water, which completes the electrical circuit and sounds a buzzer, indicating that the tape has reached water. The operator then reads the depth measurement on the tape, indicating depth of water from the measuring point. Where well construction will not allow for the use of an electric tape a steel tape may be used. At some sites, the groundwater is under enough pressure to cause the water level in a well to rise above the height of the well casing, and if the well were uncapped, water would flow freely from the well. Water levels in these flowing artesian wells cannot be measured using the typical tape-down procedure; instead, a pressure gage is attached to the well and the water pressure inside the well is measured. The water pressure is then used to calculate to what height the water would rise if the well casing were high enough to contain it.

### Groundwater Monitoring Network Data Processing and Storage

Collected data is typically processed and further reviewed for quality assurance within one to two weeks after a site visit. All data that have passed quality assurance checks are entered into an Oracle database that uses Microsoft Access as a user interface. The instrumentation history of each well is documented in the database. Documentation includes the types and models of instruments deployed, dates of operation and performance history. In addition, the original field notes are kept and maintained for each well site, and copies are periodically produced in case field books are lost or damaged.

Data processing and storage for manual and automatically recorded data are as follows: Manual measurements, along with the date and time of the measurement, are entered into the Oracle database. These measurements indicate the depth to water from a specific measuring point on the well. The measuring point height (MPH) in feet above or below land surface for each well is stored in the database. An Access query is used to subtract the MPH from the raw manual measurement to compute a water level in feet below or above land surface. Changes in the MPH height, if any, are documented within the database. For ADR Data, the logged hourly measurements are stored in both raw-data and processed-data files. The raw-data files contain uncorrected (uncompensated) hourly measurements and reflect the readings and the performance of various sensors as they were originally stored in data loggers. Raw data are stored mainly "as is" and are archived at the DNR for insight into hardware conditions and for quality assurance. Processed data files consist of hourly water-level data that have been corrected (compensated) for barometric pressure (unvented transducers only). Computer software, specific to each brand of instrument deployed, is used to generate barometrically compensated files, which are also archived at the DNR. The software is also used to plot and review both the raw and compensated data at each ADR site as a final quality assurance check prior to entering the data in the database. When appropriate, data are winnowed of measurement anomalies and unreliable data thought to be the result of hardware failures. The real-time ADR reading (after barometric compensation, where applicable) is entered into the database and is used along with the corresponding manual measurement to compute a cable length value. The computed cable length value is confirmed to be within the allowed tolerance before any hourly data are added to the database (typically  $\pm$  0.20 ft). Logged hourly water-level measurements (after compensation, where appropriate) are imported into the Oracle database. These measurements reflect the height of the water column above the sensor and are permanently stored in the database. The well's MPH and the transducer's cable length value are used to convert the hourly readings to water levels in feet below or above land surface, which are also permanently stored in the database. Statistics Daily average water levels, in feet above or below land surface, are calculated from the hourly data for those days missing 7 or fewer hourly measurements. Monthly average water levels are calculated for each month having 5 or fewer days of missing record, while monthly high and low water-level values are recorded for each month having at least one day of data. Yearly averages are computed for each calendar year having 60 or fewer missing days of record, while yearly highs and lows are recorded for each year with at least one day of data. No statistics are calculated for wells that are manually measured owing to the relatively small number of data values available for such wells. Data collected from the network are available on the DNR website at http://www.dnr.sc.gov/water/hydro/groundwater/index.html.

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# Appendix A: Sites Selected for inclusion in the National Groundwater Monitoring Network and Selected Attributes

|          |          |           |   |                    | Well Depth |              |                               |              |
|----------|----------|-----------|---|--------------------|------------|--------------|-------------------------------|--------------|
| Site ID  | Latitude | Longitude | National Aquifer Name                             | Local Aquifer Name | (Ft)       | Aquifer_Type | WL Well Characteristics       | WL_WELL_TYPE |
| AIK-0817 | 33.43806 | -81.77083 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 535        | Semiconfined | Suspected/Anticipated Changes | Trend        |
| AIK-0824 | 33.43778 | -81.77083 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 365        | Semiconfined | Suspected/Anticipated Changes | Trend        |
| AIK-0826 | 33.54306 | -81.48556 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 500        | Semiconfined | Suspected/Anticipated Changes | Trend        |
| AIK-0847 | 33.54278 | -81.48528 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 193        | Unconfined   | Suspected/Anticipated Changes | Trend        |
| AIK-0849 | 33.54222 | -81.48500 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 97         | Unconfined   | Suspected/Anticipated Changes | Trend        |
| AIK-2379 | 33.35278 | -81.81000 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 266        | Semiconfined | Suspected/Anticipated Changes | Trend        |
| AIK-2380 | 33.35278 | -81.80972 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 385        | Confined     | Suspected/Anticipated Changes | Trend        |
| AIK-2449 | 33.53944 | -81.85500 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 339        | Unconfined   | Suspected/Anticipated Changes | Trend        |
| AIK-2544 | 33.62528 | -81.85000 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 142        | Unconfined   | Suspected/Anticipated Changes | Trend        |
| AIK-2711 | 33.51389 | -81.92083 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 239        | Unconfined   | Suspected/Anticipated Changes | Trend        |
| ALL-0358 | 33.11333 | -81.50611 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 1123       | Confined     | Suspected/Anticipated Changes | Trend        |
| ALL-0363 | 33.11361 | -81.50611 | Floridan aquifer system                           | FLORIDAN           | 105        | Unconfined   | Background                    | Trend        |
| ALL-0365 | 33.11361 | -81.50611 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND      | 333        | Confined     | Background                    | Trend        |
| ALL-0367 | 33.11333 | -81.50611 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 566        | Confined     | Suspected/Anticipated Changes | Trend        |
| ALL-0371 | 33.02472 | -81.38472 | Floridan aquifer system                           | FLORIDAN           | 217        | Unconfined   | Background                    | Trend        |
| ALL-0372 | 33.02472 | -81.38444 | Floridan aquifer system                           | FLORIDAN           | 155        | Confined     | Background                    | Trend        |
| ALL-0373 | 33.02500 | -81.38417 | Floridan aquifer system                           | FLORIDAN           | 372        | Confined     | Suspected/Anticipated Changes | Trend        |
| ALL-0375 | 33.02500 | -81.38500 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND      | 583        | Confined     | Background                    | Trend        |
| ALL-0376 | 33.02500 | -81.38472 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK        | 994        | Confined     | Background                    | Trend        |
| ALL-0377 | 33.02472 | -81.38444 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 1199       | Confined     | Suspected/Anticipated Changes | Trend        |
| ALL-0378 | 33.06139 | -81.56389 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 1060       | Confined     | Suspected/Anticipated Changes | Trend        |
| AND-0326 | 34.62267 | -82.48188 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK   | 398        | Unconfined   | Background                    | Trend        |
| BFT-0101 | 32.16806 | -80.74056 | Floridan aquifer system                           | FLORIDAN           | 442        | Confined     | Known Changes                 | Trend        |
| BFT-0429 | 32.26417 | -80.82000 | Floridan aquifer system                           | FLORIDAN           | 300        | Confined     | Known Changes                 | Trend        |
| BFT-0563 | 32.37444 | -80.54722 | Floridan aquifer system                           | FLORIDAN           | 212        | Confined     | Known Changes                 | Trend        |
| BFT-1809 | 32.26750 | -80.72278 | Floridan aquifer system                           | FLORIDAN           | 890        | Confined     | Known Changes                 | Trend        |
| BFT-1813 | 32.23278 | -80.67722 | Floridan aquifer system                           | FLORIDAN           | 600        | Confined     | Known Changes                 | Trend        |
| BFT-1814 | 32.23278 | -80.67722 | Floridan aquifer system                           | FLORIDAN           | 210        | Confined     | Known Changes                 | Trend        |
| BFT-1820 | 32.20472 | -80.74917 | Floridan aquifer system                           | FLORIDAN           | 600        | Confined     | Known Changes                 | Trend        |
| BFT-1822 | 32.20472 | -80.74917 | Floridan aquifer system                           | FLORIDAN           | 260        | Confined     | Known Changes                 | Trend        |
| BFT-1845 | 32.28056 | -80.82167 | Floridan aquifer system                           | FLORIDAN           | 600        | Confined     | Known Changes                 | Trend        |
| BFT-1846 | 32.28056 | -80.82167 | Floridan aquifer system                           | FLORIDAN           | 180        | Confined     | Known Changes                 | Trend        |
| BFT-2055 | 32.19111 | -80.70417 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 3708       | Confined     | Suspected/Anticipated Changes | Trend        |
| BFT-2245 | 32.14806 | -80.83778 | Floridan aquifer system                           | FLORIDAN           | 250        | Confined     | Known Changes                 | Trend        |
| BFT-2247 | 32.09028 | -80.87194 | Floridan aquifer system                           | FLORIDAN           | 261        | Confined     | Known Changes                 | Trend        |
| BFT-2404 | 32.21306 | -80.71722 | Floridan aquifer system                           | FLORIDAN           | 261        | Confined     | Known Changes                 | Trend        |
| BFT-2408 | 32.28444 | -80.85139 | Floridan aquifer system                           | FLORIDAN           | 232        | Confined     | Known Changes                 | Trend        |
| BRK-0644 | 33.40417 | -79.93389 | Floridan aquifer system                           | FLORIDAN           | 93         | Unconfined   | Background                    | Trend        |
| BRN-0078 | 33.39972 | -81.42167 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF         | 775        | Confined     | Suspected/Anticipated Changes | Trend        |
| BRN-0349 | 33.17889 | -81.31417 | Floridan aquifer system                           | FLORIDAN           | 1045       | Confined     | Suspected/Anticipated Changes | Trend        |
| BRN-0351 | 33.17861 | -81.31472 | Floridan aquifer system                           | FLORIDAN           | 95         | Unconfined   | Background                    | Trend        |
| BRN-0352 | 33.17889 | -81.31472 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND      | 293        | Confined     | Background                    | Trend        |

| BRN-0353 | 33.17861 | -81.31500 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 588  | Confined     | Background                    | Trend |
|----------|----------|-----------|---|------------------|------|--------------|-------------------------------|-------|
| BRN-0358 | 33.32056 | -81.40778 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 847  | Confined     | Suspected/Anticipated Changes | Trend |
| BRN-0360 | 33.32083 | -81.40778 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND    | 140  | Unconfined   | Background                    | Trend |
| BRN-0365 | 33.32111 | -81.40750 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 537  | Confined     | Suspected/Anticipated Changes | Trend |
| BRN-0367 | 33.32111 | -81.40778 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND    | 285  | Confined     | Background                    | Trend |
| CAL-0192 | 33.59861 | -80.64778 | Surficial aquifer system                          | SHALLOW          | 49   | Unconfined   | Background                    | Trend |
| CAL-0193 | 33.59861 | -80.64778 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND    | 100  | Confined     | Suspected/Anticipated Changes | Trend |
| CAL-0194 | 33.59861 | -80.64778 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 254  | Confined     | Suspected/Anticipated Changes | Trend |
| CAL-0195 | 33.59861 | -80.64778 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 360  | Confined     | Suspected/Anticipated Changes | Trend |
| CHN-0044 | 32.79583 | -80.07056 | Floridan aquifer system                           | FLORIDAN         | 434  | Confined     | Known Changes                 | Trend |
| CHN-0101 | 33.04583 | -79.56250 | Floridan aquifer system                           | FLORIDAN         | 91   | Unconfined   | Background                    | Trend |
| CHN-0163 | 32.78806 | -79.87167 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 1919 | Confined     | Known Changes                 | Trend |
| CHN-0484 | 32.58194 | -80.30611 | Floridan aquifer system                           | FLORIDAN         | 560  | Confined     | Known Changes                 | Trend |
| CHN-0803 | 33.15583 | -79.36389 | Floridan aquifer system                           | FLORIDAN         | 112  | Unconfined   | Background                    | Trend |
| CHN-0989 | 32.73722 | -80.17778 | Floridan aquifer system                           | FLORIDAN         | 531  | Confined     | Suspected/Anticipated Changes | Trend |
| CHN-0990 | 32.94083 | -79.65694 | Floridan aquifer system                           | FLORIDAN         | 265  | Confined     | Background                    | Trend |
| CHN-0991 | 32.94056 | -79.65694 | Surficial aquifer system                          | SHALLOW          | 45   | Unconfined   | Background                    | Trend |
| CLA-0016 | 33.69389 | -80.21278 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 610  | Confined     | Known Changes                 | Trend |
| CLA-0020 | 33.70000 | -80.21361 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 650  | Confined     | Known Changes                 | Trend |
| COL-0030 | 32.89639 | -80.67833 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 1340 | Confined     | Background                    | Trend |
| COL-0097 | 33.04778 | -80.59778 | Floridan aquifer system                           | FLORIDAN         | 500  | Confined     | Background                    | Trend |
| COL-0301 | 32.51167 | -80.29944 | Floridan aquifer system                           | FLORIDAN         | 545  | Confined     | Suspected/Anticipated Changes | Trend |
| CRK-0074 | 35.15529 | -81.44278 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 265  | Unconfined   | Background                    | Trend |
| CTF-0081 | 34.64306 | -79.91167 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 193  | Unconfined   | Background                    | Trend |
| CTF-0221 | 34.42889 | -80.28278 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 260  | Confined     | Suspected/Anticipated Changes | Trend |
| CTF-0222 | 34.42889 | -80.28278 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 175  | Semiconfined | Suspected/Anticipated Changes | Trend |
| DAR-0228 | 34.45861 | -79.88000 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 186  | Confined     | Background                    | Trend |
| DIL-0121 | 34.32833 | -79.28306 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 294  | Confined     | Suspected/Anticipated Changes | Trend |
| DIL-0171 | 34.33028 | -79.28694 | Southeastern Coastal Plain Aquifer System         | CAPE_FEAR        | 555  | Confined     | Background                    | Trend |
| DIL-0172 | 34.33028 | -79.28694 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 175  | Semiconfined | Background                    | Trend |
| DIL-0173 | 34.33028 | -79.28694 | Southeastern Coastal Plain Aquifer System         | CAPE_FEAR        | 380  | Confined     | Background                    | Trend |
| DIL-0174 | 34.33028 | -79.28694 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 75   | Unconfined   | Background                    | Trend |
| DIL-0175 | 34.33028 | -79.28694 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 325  | Confined     | Suspected/Anticipated Changes | Trend |
| FLO-0128 | 34.19556 | -79.58056 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 695  | Confined     | Known Changes                 | Trend |
| FLO-0274 | 33.85556 | -79.76722 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 560  | Confined     | Known Changes                 | Trend |
| FLO-0276 | 33.85611 | -79.76667 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 250  | Confined     | Known Changes                 | Trend |
| GEO-0381 | 33.33583 | -79.24472 | Surficial aquifer system                          | SHALLOW          | 43   | Unconfined   | Background                    | Trend |
| GEO-0382 | 33.33583 | -79.24472 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 730  | Confined     | Known Changes                 | Trend |
| GEO-0383 | 33.33583 | -79.24472 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 560  | Confined     | Known Changes                 | Trend |
| GRV-0712 | 35.10655 | -82.62637 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 450  | Unconfined   | Background                    | Trend |
| GRV-2162 | 34.90461 | -82.26334 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 281  | Unconfined   | Background                    | Trend |
| GRV-2230 | 34.92440 | -82.44460 | Surficial aquifer system                          | SHALLOW          | 20   | Unconfined   | Background                    | Trend |
| GRV-2543 | 35.12633 | -82.57135 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 50   | Unconfined   | Background                    | Trend |
| GRV-3333 | 35.16612 | -82.47139 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 264  | Unconfined   | Background                    | Trend |

| GRV-3335 | 35.12500 | -82.57371 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 110  | Unconfined   | Background                    | Trend |
|----------|----------|-----------|---|------------------|------|--------------|-------------------------------|-------|
| GRV-3336 | 35.12500 | -82.57371 | Surficial aquifer system                          | SHALLOW          | 20   | Unconfined   | Background                    | Trend |
| GRV-3341 | 35.16075 | -82.22469 | Surficial aquifer system                          | SHALLOW          | 80   | Unconfined   | Background                    | Trend |
| GRV-3342 | 35.16075 | -82.22469 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 334  | Unconfined   | Background                    | Trend |
| GRV-3533 | 34.92440 | -82.44460 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 243  | Unconfined   | Background                    | Trend |
| HAM-0050 | 32.68000 | -81.18889 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND    | 968  | Semiconfined | Suspected/Anticipated Changes | Trend |
| HAM-0083 | 32.69722 | -80.85083 | Floridan aquifer system                           | FLORIDAN         | 156  | Confined     | Known Changes                 | Trend |
| HAM-0314 | 32.83028 | -81.16583 | Floridan aquifer system                           | FLORIDAN         | 122  | Unconfined   | Suspected/Anticipated Changes | Trend |
| HAM-0315 | 32.83028 | -81.16583 | Floridan aquifer system                           | FLORIDAN         | 568  | Semiconfined | Suspected/Anticipated Changes | Trend |
| HOR-0290 | 33.67056 | -78.93972 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 459  | Confined     | Known Changes                 | Trend |
| HOR-0309 | 33.76778 | -78.96639 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 375  | Confined     | Known Changes                 | Trend |
| HOR-0973 | 33.72139 | -78.90278 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 1331 | Confined     | Background                    | Trend |
| HOR-1326 | 33.65722 | -78.92681 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 600  | Confined     | Known Changes                 | Trend |
| HOR-1327 | 33.65708 | -78.92686 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 440  | Confined     | Known Changes                 | Trend |
| JAS-0425 | 32.61778 | -80.99583 | Floridan aquifer system                           | FLORIDAN         | 225  | Confined     | Suspected/Anticipated Changes | Trend |
| JAS-0426 | 32.61833 | -80.99583 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 1994 | Confined     | Suspected/Anticipated Changes | Trend |
| JAS-0468 | 32.61778 | -80.99583 | Surficial aquifer system                          | SHALLOW          | 24   | Unconfined   | Background                    | Trend |
| JAS-0490 | 32.48167 | -80.97278 | Floridan aquifer system                           | FLORIDAN         | 558  | Confined     | Suspected/Anticipated Changes | Trend |
| JAS-0491 | 32.48167 | -80.97278 | Floridan aquifer system                           | FLORIDAN         | 220  | Confined     | Suspected/Anticipated Changes | Trend |
| JAS-0492 | 32.61806 | -80.99556 | Floridan aquifer system                           | FLORIDAN         | 600  | Confined     | Suspected/Anticipated Changes | Trend |
| KER-0263 | 34.55833 | -80.44361 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 455  | Unconfined   | Background                    | Trend |
| LEE-0075 | 34.20250 | -80.17444 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 356  | Confined     | Suspected/Anticipated Changes | Trend |
| LEE-0179 | 34.20222 | -80.17444 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 243  | Unconfined   | Background                    | Trend |
| LEE-0180 | 34.20222 | -80.17444 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 202  | Unconfined   | Background                    | Trend |
| LEE-0181 | 34.20222 | -80.17444 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 75   | Unconfined   | Background                    | Trend |
| LEX-0823 | 33.73556 | -81.10556 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 225  | Confined     | Background                    | Trend |
| LEX-0844 | 33.74611 | -81.10750 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 522  | Confined     | Suspected/Anticipated Changes | Trend |
| LRN-1705 | 34.49074 | -82.42902 | Surficial aquifer system                          | SHALLOW          | 39   | Unconfined   | Background                    | Trend |
| LRN-1706 | 34.57085 | -82.11377 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 168  | Unconfined   | Background                    | Trend |
| LRN-1707 | 34.38128 | -82.00628 | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 223  | Unconfined   | Background                    | Trend |
| MRN-0077 | 33.86194 | -79.33056 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 356  | Confined     | Known Changes                 | Trend |
| MRN-0078 | 33.86194 | -79.33056 | Southeastern Coastal Plain Aquifer System         | CAPE_FEAR        | 1038 | Confined     | Background                    | Trend |
| ORG-0079 | 33.41889 | -80.85194 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 979  | Confined     | Suspected/Anticipated Changes | Trend |
| ORG-0385 | 33.36889 | -81.03083 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 535  | Confined     | Suspected/Anticipated Changes | Trend |
| ORG-0393 | 33.50806 | -80.86500 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 463  | Confined     | Suspected/Anticipated Changes | Trend |
| ORG-0430 | 33.50806 | -80.86500 | Southeastern Coastal Plain Aquifer System         | TERTIARY SAND    | 275  | Confined     | Background                    | Trend |
| ORG-0431 | 33.50806 | -80.86500 | Floridan aquifer system                           | FLORIDAN         | 93   | Unconfined   | Background                    | Trend |
| ORG-0634 | 33.45444 | -80.71833 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 256  | Confined     | Suspected/Anticipated Changes | Trend |
| RIC-0543 | 33.87500 | -80.70222 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 420  | Confined     | Suspected/Anticipated Changes | Trend |
| RIC-0585 | 33.94889 | -80.84083 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 403  | Confined     | Suspected/Anticipated Changes | Trend |
| RIC-0775 | 33.83722 | -80.62528 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 607  | Confined     | Suspected/Anticipated Changes | Trend |
| RIC-0776 | 33.83722 | -80.62528 | Southeastern Coastal Plain Aquifer System         | BLACK_CREEK      | 107  | Confined     | Suspected/Anticipated Changes | Trend |
| SAL-0069 | 34.08786 | 81.66992  | Piedmont and Blue Ridge crystalline-rock aquifers | CRYSTALLINE_ROCK | 480  | Unconfined   | Background                    | Trend |
| SUM-0146 | 33.93611 | -80.34556 | Southeastern Coastal Plain Aquifer System         | MIDDENDORF       | 554  | Confined     | Known Changes                 | Trend |

| SUM-0153 | 33.86500 | -80.37667 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 643  | Confined     | Known Changes                 | Trend        |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| SUM-0355 | 34.01639 | -80.40194 | Surficial aquifer system                  | SHALLOW     | 47   | Unconfined   | Background                    | Trend        |
| SUM-0488 | 33.87444 | -80.43778 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 546  | Confined     | Known Changes                 | Trend        |
| SUM-0492 | 33.94556 | -79.98000 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 522  | Confined     | Known Changes                 | Trend        |
| SUM-0497 | 33.87444 | -80.43778 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 100  | Unconfined   | Background                    | Trend        |
| WIL-0012 | 33.67139 | -79.82778 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 525  | Confined     | Suspected/Anticipated Changes | Trend        |
| WIL-0355 | 33.40250 | -79.77833 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 869  | Confined     | Background                    | Trend        |
| AIK-0470 | 33.53000 | -81.70583 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 433  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-0497 | 33.55028 | -81.65722 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 290  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-0643 | 33.37722 | -81.64056 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 625  | Semiconfined | Background                    | Surveillance |
| AIK-0831 | 33.51000 | -81.73917 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 485  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-0859 | 33.37722 | -81.64083 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 390  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-0865 | 33.28667 | -81.72194 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 695  | Confined     | Background                    | Surveillance |
| AIK-0867 | 33.37722 | -81.64083 | Floridan aquifer system                   | FLORIDAN    | 56   | Unconfined   | Background                    | Surveillance |
| AIK-0869 | 33.37722 | -81.64083 | Floridan aquifer system                   | FLORIDAN    | 147  | Unconfined   | Background                    | Surveillance |
| AIK-0871 | 33.37722 | -81.64083 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 460  | Confined     | Background                    | Surveillance |
| AIK-0875 | 33.21444 | -81.75889 | Floridan aquifer system                   | FLORIDAN    | 135  | Unconfined   | Background                    | Surveillance |
| AIK-0877 | 33.21417 | -81.75889 | Floridan aquifer system                   | FLORIDAN    | 55   | Unconfined   | Background                    | Surveillance |
| AIK-0889 | 33.28667 | -81.72194 | Floridan aquifer system                   | FLORIDAN    | 195  | Unconfined   | Background                    | Surveillance |
| AIK-0892 | 33.33750 | -81.70861 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 710  | Confined     | Background                    | Surveillance |
| AIK-0894 | 33.33778 | -81.70861 | Floridan aquifer system                   | FLORIDAN    | 285  | Unconfined   | Background                    | Surveillance |
| AIK-0897 | 33.33778 | -81.70861 | Floridan aquifer system                   | FLORIDAN    | 105  | Unconfined   | Background                    | Surveillance |
| AIK-2450 | 33.52472 | -81.70889 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 430  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-2468 | 33.66028 | -81.36972 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 357  | Semiconfined | Background                    | Surveillance |
| AIK-2564 | 33.62806 | -81.30556 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 415  | Semiconfined | Background                    | Surveillance |
| AIK-2712 | 33.49722 | -81.74750 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 239  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| AIK-2720 | 33.65389 | -81.71556 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 115  | Unconfined   | Background                    | Surveillance |
| ALL-0330 | 33.02667 | -81.28667 | Floridan aquifer system                   | FLORIDAN    | 280  | Confined     | Background                    | Surveillance |
| ALL-0408 | 32.97500 | -81.45833 | Floridan aquifer system                   | FLORIDAN    | 296  | Confined     | Background                    | Surveillance |
| ALL-0442 | 32.86389 | -81.30556 | Floridan aquifer system                   | FLORIDAN    | 140  | Confined     | Background                    | Surveillance |
| BAM-0022 | 33.31583 | -81.13861 | Floridan aquifer system                   | FLORIDAN    | 302  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BAM-0026 | 33.10306 | -81.01278 | Floridan aquifer system                   | FLORIDAN    | 225  | Confined     | Background                    | Surveillance |
| BAM-0027 | 33.28833 | -81.04083 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 550  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BAM-0031 | 33.29667 | -81.03667 | Floridan aquifer system                   | FLORIDAN    | 172  | Confined     | Background                    | Surveillance |
| BAM-0033 | 33.18250 | -81.18500 | Floridan aquifer system                   | FLORIDAN    | 175  | Confined     | Background                    | Surveillance |
| BAM-0068 | 33.05583 | -81.09833 | Floridan aquifer system                   | FLORIDAN    | 326  | Confined     | Background                    | Surveillance |
| BAM-0077 | 33.30611 | -81.03556 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1010 | Confined     | Suspected/Anticipated Changes | Surveillance |
| BAM-0081 | 33.17639 | -80.91694 | Floridan aquifer system                   | FLORIDAN    | 160  | Confined     | Background                    | Surveillance |
| BFT-0010 | 32.32972 | -80.70778 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 3455 | Confined     | Known Changes                 | Surveillance |
| BFT-0011 | 32.35250 | -80.69028 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2796 | Confined     | Known Changes                 | Surveillance |
| BFT-0133 | 32.52361 | -80.71861 | Floridan aquifer system                   | FLORIDAN    | 110  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0181 | 32.30667 | -80.68250 | Floridan aquifer system                   | FLORIDAN    | 117  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0420 | 32.55278 | -80.72833 | Floridan aquifer system                   | FLORIDAN    | 262  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0441 | 32.24917 | -80.72778 | Floridan aquifer system                   | FLORIDAN    | 218  | Confined     | Known Changes                 | Surveillance |

| BFT-0452 | 32.39806 | -80.43750 | Floridan aquifer system                   | FLORIDAN    | 103  | Confined     | Suspected/Anticipated Changes | Surveillance |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| BFT-0454 | 32.24861 | -80.73139 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 3114 | Confined     | Known Changes                 | Surveillance |
| BFT-0455 | 32.33139 | -80.46750 | Floridan aquifer system                   | FLORIDAN    | 102  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0488 | 32.40861 | -80.51333 | Floridan aquifer system                   | FLORIDAN    | 100  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0559 | 32.43111 | -80.67333 | Floridan aquifer system                   | FLORIDAN    | 62   | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0564 | 32.33556 | -80.62361 | Floridan aquifer system                   | FLORIDAN    | 207  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0566 | 32.35222 | -80.69333 | Floridan aquifer system                   | FLORIDAN    | 232  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-0570 | 32.30139 | -80.97056 | Floridan aquifer system                   | FLORIDAN    | 334  | Confined     | Known Changes                 | Surveillance |
| BFT-0709 | 32.13167 | -80.79444 | Floridan aquifer system                   | FLORIDAN    | 204  | Confined     | Known Changes                 | Surveillance |
| BFT-0787 | 32.24889 | -80.69917 | Floridan aquifer system                   | FLORIDAN    | 240  | Confined     | Known Changes                 | Surveillance |
| BFT-0844 | 32.33694 | -80.85500 | Floridan aquifer system                   | FLORIDAN    | 160  | Confined     | Known Changes                 | Surveillance |
| BFT-1736 | 32.40750 | -80.77111 | Floridan aquifer system                   | FLORIDAN    | 100  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-1925 | 32.46944 | -80.74111 | Floridan aquifer system                   | FLORIDAN    | 123  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BFT-2309 | 32.17611 | -80.76806 | Floridan aquifer system                   | FLORIDAN    | 248  | Confined     | Known Changes                 | Surveillance |
| BFT-2314 | 32.22167 | -80.77833 | Floridan aquifer system                   | FLORIDAN    | 226  | Confined     | Known Changes                 | Surveillance |
| BRK-0035 | 33.14000 | -79.79639 | Floridan aquifer system                   | FLORIDAN    | 110  | Confined     | Suspected/Anticipated Changes | Surveillance |
| BRK-0046 | 33.40556 | -79.92611 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1265 | Confined     | Known Changes                 | Surveillance |
| BRK-0048 | 33.17056 | -80.29167 | Floridan aquifer system                   | FLORIDAN    | 394  | Confined     | Background                    | Surveillance |
| BRK-0089 | 33.28528 | -79.69500 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 894  | Confined     | Known Changes                 | Surveillance |
| BRK-0141 | 33.34694 | -79.81444 | Floridan aquifer system                   | FLORIDAN    | 44   | Unconfined   | Background                    | Surveillance |
| BRK-0166 | 33.27194 | -79.96444 | Floridan aquifer system                   | FLORIDAN    | 102  | Semiconfined | Background                    | Surveillance |
| BRK-0174 | 33.03056 | -79.96806 | Floridan aquifer system                   | FLORIDAN    | 248  | Confined     | Background                    | Surveillance |
| BRK-0523 | 33.15750 | -80.02500 | Floridan aquifer system                   | FLORIDAN    | 220  | Confined     | Background                    | Surveillance |
| BRK-0595 | 32.97306 | -79.77639 | Floridan aquifer system                   | FLORIDAN    | 185  | Confined     | Background                    | Surveillance |
| BRK-0647 | 33.26167 | -79.65750 | Floridan aquifer system                   | FLORIDAN    | 80   | Unconfined   | Background                    | Surveillance |
| BRK-0654 | 33.00611 | -79.87639 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1790 | Confined     | Known Changes                 | Surveillance |
| BRN-0062 | 33.22722 | -81.36083 | Floridan aquifer system                   | FLORIDAN    | 271  | Confined     | Background                    | Surveillance |
| BRN-0243 | 33.20222 | -81.57778 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 940  | Confined     | Background                    | Surveillance |
| BRN-0246 | 33.21250 | -81.62417 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 896  | Confined     | Background                    | Surveillance |
| BRN-0295 | 33.12694 | -81.22917 | Floridan aquifer system                   | FLORIDAN    | 200  | Confined     | Background                    | Surveillance |
| BRN-0303 | 33.24583 | -81.61611 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 775  | Confined     | Background                    | Surveillance |
| BRN-0312 | 33.34444 | -81.50028 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 865  | Confined     | Background                    | Surveillance |
| BRN-0313 | 33.25306 | -81.67250 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 855  | Confined     | Background                    | Surveillance |
| BRN-0314 | 33.19111 | -81.51306 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 960  | Confined     | Background                    | Surveillance |
| BRN-0322 | 33.21361 | -81.62222 | Floridan aquifer system                   | FLORIDAN    | 209  | Confined     | Background                    | Surveillance |
| BRN-0323 | 33.20222 | -81.57778 | Floridan aquifer system                   | FLORIDAN    | 323  | Confined     | Background                    | Surveillance |
| BRN-0324 | 33.31056 | -81.60611 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 570  | Confined     | Background                    | Surveillance |
| BRN-0325 | 33.31056 | -81.60611 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 505  | Confined     | Background                    | Surveillance |
| BRN-0328 | 33.20222 | -81.57778 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 655  | Confined     | Background                    | Surveillance |
| BRN-0331 | 33.21417 | -81.62361 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 625  | Confined     | Background                    | Surveillance |
| BRN-0335 | 33.14667 | -81.60750 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 820  | Confined     | Background                    | Surveillance |
| BRN-0341 | 33.20222 | -81.57778 | Floridan aquifer system                   | FLORIDAN    | 223  | Semiconfined | Background                    | Surveillance |
| BRN-0345 | 33.21417 | -81.62306 | Floridan aquifer system                   | FLORIDAN    | 164  | Semiconfined | Background                    | Surveillance |
| BRN-0362 | 33.34444 | -81.50028 | Floridan aquifer system                   | FLORIDAN    | 145  | Semiconfined | Background                    | Surveillance |

| BRN-0363 | 33.40306 | -81.43944 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 455  | Confined     | Background                    | Surveillance |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| BRN-0379 | 33.21056 | -81.65722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 875  | Confined     | Background                    | Surveillance |
| BRN-0380 | 33.28583 | -81.63500 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 395  | Confined     | Background                    | Surveillance |
| BRN-0384 | 33.18250 | -81.67861 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 705  | Confined     | Background                    | Surveillance |
| BRN-0388 | 33.34444 | -81.50000 | Floridan aquifer system                   | FLORIDAN    | 303  | Confined     | Background                    | Surveillance |
| BRN-0389 | 33.34444 | -81.50028 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 625  | Confined     | Background                    | Surveillance |
| BRN-0390 | 33.25278 | -81.67222 | Floridan aquifer system                   | FLORIDAN    | 93   | Unconfined   | Background                    | Surveillance |
| BRN-0394 | 33.24611 | -81.61611 | Floridan aquifer system                   | FLORIDAN    | 341  | Confined     | Background                    | Surveillance |
| BRN-0396 | 33.24583 | -81.61611 | Floridan aquifer system                   | FLORIDAN    | 189  | Unconfined   | Background                    | Surveillance |
| BRN-0398 | 33.27500 | -81.57333 | Floridan aquifer system                   | FLORIDAN    | 265  | Confined     | Background                    | Surveillance |
| BRN-0399 | 33.27500 | -81.57333 | Floridan aquifer system                   | FLORIDAN    | 155  | Unconfined   | Background                    | Surveillance |
| BRN-0402 | 33.14667 | -81.60722 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 683  | Confined     | Background                    | Surveillance |
| BRN-0404 | 33.14667 | -81.60722 | Floridan aquifer system                   | FLORIDAN    | 296  | Confined     | Background                    | Surveillance |
| BRN-0405 | 33.14667 | -81.60750 | Floridan aquifer system                   | FLORIDAN    | 86   | Unconfined   | Background                    | Surveillance |
| BRN-0406 | 33.19111 | -81.51333 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 647  | Confined     | Background                    | Surveillance |
| BRN-0408 | 33.19111 | -81.51333 | Floridan aquifer system                   | FLORIDAN    | 255  | Confined     | Background                    | Surveillance |
| BRN-0409 | 33.19111 | -81.51306 | Floridan aquifer system                   | FLORIDAN    | 141  | Semiconfined | Background                    | Surveillance |
| BRN-0415 | 33.18250 | -81.67861 | Floridan aquifer system                   | FLORIDAN    | 143  | Confined     | Background                    | Surveillance |
| BRN-0416 | 33.18250 | -81.67861 | Floridan aquifer system                   | FLORIDAN    | 60   | Unconfined   | Background                    | Surveillance |
| BRN-0417 | 33.22944 | -81.57528 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 975  | Confined     | Background                    | Surveillance |
| BRN-0418 | 33.22944 | -81.57528 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 600  | Confined     | Background                    | Surveillance |
| BRN-0419 | 33.22972 | -81.57528 | Floridan aquifer system                   | FLORIDAN    | 320  | Confined     | Background                    | Surveillance |
| BRN-0420 | 33.22972 | -81.57528 | Floridan aquifer system                   | FLORIDAN    | 235  | Semiconfined | Background                    | Surveillance |
| BRN-0424 | 33.21083 | -81.65750 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 590  | Confined     | Background                    | Surveillance |
| BRN-0427 | 33.21083 | -81.65750 | Floridan aquifer system                   | FLORIDAN    | 190  | Confined     | Background                    | Surveillance |
| BRN-0429 | 33.21056 | -81.65750 | Floridan aquifer system                   | FLORIDAN    | 66   | Unconfined   | Background                    | Surveillance |
| BRN-0430 | 33.28583 | -81.63472 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 830  | Confined     | Background                    | Surveillance |
| BRN-0431 | 33.28583 | -81.63500 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 575  | Confined     | Background                    | Surveillance |
| BRN-0432 | 33.28583 | -81.63500 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 495  | Confined     | Background                    | Surveillance |
| BRN-0433 | 33.28583 | -81.63500 | Floridan aquifer system                   | FLORIDAN    | 205  | Confined     | Background                    | Surveillance |
| BRN-0434 | 33.28583 | -81.63472 | Floridan aquifer system                   | FLORIDAN    | 140  | Semiconfined | Background                    | Surveillance |
| BRN-0436 | 33.25278 | -81.67250 | Floridan aquifer system                   | FLORIDAN    | 235  | Confined     | Background                    | Surveillance |
| BRN-0437 | 33.25306 | -81.67250 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 570  | Confined     | Background                    | Surveillance |
| CAL-0002 | 33.55750 | -80.71667 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 285  | Confined     | Known Changes                 | Surveillance |
| CAL-0115 | 33.81222 | -80.98194 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 341  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| CAL-0196 | 33.48583 | -80.65972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 870  | Confined     | Background                    | Surveillance |
| CHN-0002 | 32.85583 | -79.96139 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2026 | Confined     | Known Changes                 | Surveillance |
| CHN-0172 | 32.84778 | -80.06417 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1843 | Confined     | Known Changes                 | Surveillance |
| CHN-0173 | 32.84528 | -79.82694 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1870 | Confined     | Known Changes                 | Surveillance |
| CHN-0174 | 32.58056 | -80.15972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2261 | Confined     | Known Changes                 | Surveillance |
| CHN-0178 | 32.78417 | -79.94306 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2013 | Confined     | Known Changes                 | Surveillance |
| CHN-0182 | 33.20056 | -79.43556 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 801  | Confined     | Known Changes                 | Surveillance |
| CHN-0183 | 32.86806 | -79.76556 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1840 | Confined     | Known Changes                 | Surveillance |
| CHN-0185 | 32.82056 | -79.83750 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1980 | Confined     | Known Changes                 | Surveillance |

| CHN-0186 | 32.59972 | -80.10583 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2220 | Confined     | Known Changes                 | Surveillance |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| CHN-0187 | 32.78750 | -79.78722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2023 | Confined     | Known Changes                 | Surveillance |
| CHN-0219 | 32.80444 | -79.73361 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1990 | Confined     | Known Changes                 | Surveillance |
| CHN-0363 | 32.81056 | -80.40194 | Floridan aquifer system                   | FLORIDAN    | 406  | Confined     | Known Changes                 | Surveillance |
| CHN-0366 | 32.67361 | -80.36306 | Floridan aquifer system                   | FLORIDAN    | 610  | Confined     | Known Changes                 | Surveillance |
| CHN-0387 | 32.66028 | -80.14583 | Floridan aquifer system                   | FLORIDAN    | 557  | Confined     | Known Changes                 | Surveillance |
| CHN-0460 | 32.88167 | -79.98861 | Floridan aquifer system                   | FLORIDAN    | 325  | Confined     | Known Changes                 | Surveillance |
| CHN-0601 | 32.75944 | -79.84889 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1955 | Confined     | Known Changes                 | Surveillance |
| CHN-0603 | 32.77694 | -79.80972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2030 | Confined     | Known Changes                 | Surveillance |
| CHN-0604 | 32.80111 | -79.75417 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2200 | Confined     | Known Changes                 | Surveillance |
| CHN-0635 | 32.76444 | -79.83278 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2018 | Confined     | Known Changes                 | Surveillance |
| CHN-0801 | 32.61444 | -80.05250 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2154 | Confined     | Known Changes                 | Surveillance |
| CHN-0849 | 32.79167 | -79.89861 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 2033 | Confined     | Known Changes                 | Surveillance |
| CLA-0025 | 33.59417 | -80.35472 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 750  | Confined     | Known Changes                 | Surveillance |
| CLA-0027 | 33.68833 | -80.19389 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 670  | Confined     | Suspected/Anticipated Changes | Surveillance |
| CLA-0030 | 33.88556 | -80.01000 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 420  | Confined     | Background                    | Surveillance |
| CLA-0033 | 33.65111 | -80.28028 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 216  | Confined     | Background                    | Surveillance |
| CLA-0036 | 33.58111 | -80.39444 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 491  | Confined     | Background                    | Surveillance |
| CLA-0061 | 33.82833 | -79.94833 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 393  | Confined     | Suspected/Anticipated Changes | Surveillance |
| CLA-0063 | 33.89222 | -80.07806 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 475  | Confined     | Suspected/Anticipated Changes | Surveillance |
| CLA-0146 | 33.63528 | -80.26694 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 750  | Confined     | Suspected/Anticipated Changes | Surveillance |
| CLA-0148 | 33.73833 | -80.35833 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 242  | Confined     | Background                    | Surveillance |
| CLA-0213 | 33.58861 | -80.20611 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 210  | Confined     | Background                    | Surveillance |
| COL-0049 | 32.95083 | -80.63444 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1670 | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0050 | 32.91167 | -80.64722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1768 | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0073 | 33.00083 | -80.78222 | Floridan aquifer system                   | FLORIDAN    | 720  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0092 | 32.66167 | -80.65722 | Floridan aquifer system                   | FLORIDAN    | 610  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0096 | 32.73583 | -80.45222 | Floridan aquifer system                   | FLORIDAN    | 604  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0170 | 32.61083 | -80.55361 | Floridan aquifer system                   | FLORIDAN    | 561  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0232 | 33.06722 | -80.95389 | Floridan aquifer system                   | FLORIDAN    | 510  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0255 | 32.93694 | -80.48111 | Floridan aquifer system                   | FLORIDAN    | 400  | Confined     | Background                    | Surveillance |
| COL-0269 | 32.86389 | -80.65333 | Floridan aquifer system                   | FLORIDAN    | 500  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0273 | 32.87750 | -80.77833 | Floridan aquifer system                   | FLORIDAN    | 500  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0788 | 32.96694 | -80.69528 | Floridan aquifer system                   | FLORIDAN    | 460  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0789 | 32.73528 | -80.59111 | Floridan aquifer system                   | FLORIDAN    | 560  | Confined     | Background                    | Surveillance |
| COL-0792 | 32.82972 | -80.56639 | Floridan aquifer system                   | FLORIDAN    | 430  | Confined     | Background                    | Surveillance |
| COL-0793 | 33.11361 | -80.70333 | Floridan aquifer system                   | FLORIDAN    | 125  | Confined     | Background                    | Surveillance |
| COL-0794 | 32.98083 | -80.85306 | Floridan aquifer system                   | FLORIDAN    | 475  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0795 | 32.74889 | -80.69556 | Floridan aquifer system                   | FLORIDAN    | 540  | Confined     | Background                    | Surveillance |
| COL-0796 | 32.85250 | -80.84556 | Floridan aquifer system                   | FLORIDAN    | 560  | Confined     | Suspected/Anticipated Changes | Surveillance |
| COL-0797 | 32.99250 | -80.55639 | Floridan aquifer system                   | FLORIDAN    | 400  | Confined     | Suspected/Anticipated Changes | Surveillance |
| CTF-0044 | 34.56333 | -80.03083 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 130  | Unconfined   | Background                    | Surveillance |
| CTF-0056 | 34.62667 | -79.94056 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 23   | Unconfined   | Background                    | Surveillance |
| CTF-0080 | 34.51528 | -80.10361 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 335  | Semiconfined | Background                    | Surveillance |

| CTF-0189 | 34.51806 | -80.28972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 90   | Unconfined   | Background                    | Surveillance |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| CTF-0197 | 34.65194 | -80.27917 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 130  | Unconfined   | Background                    | Surveillance |
| CTF-0224 | 34.49167 | -80.26500 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 228  | Unconfined   | Background                    | Surveillance |
| CTF-0313 | 34.41667 | -80.30056 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 271  | Semiconfined | Background                    | Surveillance |
| DAR-0094 | 34.37194 | -80.07333 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 316  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DAR-0096 | 34.50583 | -79.85611 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 380  | Semiconfined | Background                    | Surveillance |
| DAR-0098 | 34.16944 | -80.06722 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 220  | Unconfined   | Background                    | Surveillance |
| DAR-0118 | 34.28778 | -79.74667 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 110  | Unconfined   | Background                    | Surveillance |
| DAR-0212 | 34.36083 | -80.19472 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 517  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DAR-0221 | 34.28806 | -79.74167 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 430  | Confined     | Background                    | Surveillance |
| DAR-0230 | 34.17306 | -80.07056 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 425  | Confined     | Background                    | Surveillance |
| DAR-0231 | 34.41528 | -80.08194 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 317  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DIL-0028 | 34.32944 | -79.26472 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 104  | Unconfined   | Background                    | Surveillance |
| DIL-0070 | 34.47278 | -79.40167 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 147  | Unconfined   | Background                    | Surveillance |
| DIL-0079 | 34.34500 | -79.16833 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 302  | Confined     | Background                    | Surveillance |
| DIL-0129 | 34.46833 | -79.33167 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 307  | Confined     | Background                    | Surveillance |
| DIL-0132 | 34.48250 | -79.31500 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 278  | Confined     | Background                    | Surveillance |
| DIL-0170 | 34.36333 | -79.53417 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 272  | Confined     | Background                    | Surveillance |
| DOR-0030 | 33.18306 | -80.55278 | Floridan aquifer system                   | FLORIDAN    | 550  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0049 | 32.96389 | -80.27500 | Floridan aquifer system                   | FLORIDAN    | 350  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0051 | 33.20694 | -80.64472 | Floridan aquifer system                   | FLORIDAN    | 370  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0058 | 33.11083 | -80.28556 | Floridan aquifer system                   | FLORIDAN    | 344  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0068 | 33.21333 | -80.44944 | Floridan aquifer system                   | FLORIDAN    | 295  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0088 | 32.95944 | -80.20194 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1760 | Confined     | Known Changes                 | Surveillance |
| DOR-0155 | 33.14972 | -80.42722 | Floridan aquifer system                   | FLORIDAN    | 306  | Confined     | Suspected/Anticipated Changes | Surveillance |
| DOR-0221 | 32.95889 | -80.16278 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1764 | Confined     | Known Changes                 | Surveillance |
| DOR-0228 | 32.98472 | -80.21972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1830 | Confined     | Known Changes                 | Surveillance |
| DOR-0240 | 33.03083 | -80.20556 | Floridan aquifer system                   | FLORIDAN    | 390  | Confined     | Known Changes                 | Surveillance |
| FLO-0085 | 34.13500 | -79.94194 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 535  | Confined     | Known Changes                 | Surveillance |
| FLO-0095 | 34.23694 | -79.81306 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 379  | Confined     | Known Changes                 | Surveillance |
| FLO-0146 | 34.16972 | -79.78833 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 660  | Confined     | Known Changes                 | Surveillance |
| FLO-0148 | 33.83111 | -79.44444 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 506  | Confined     | Known Changes                 | Surveillance |
| FLO-0153 | 34.13694 | -79.93861 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 480  | Confined     | Suspected/Anticipated Changes | Surveillance |
| FLO-0156 | 33.93306 | -79.93972 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 225  | Confined     | Suspected/Anticipated Changes | Surveillance |
| FLO-0207 | 34.04722 | -79.78611 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 218  | Confined     | Suspected/Anticipated Changes | Surveillance |
| FLO-0209 | 34.21972 | -79.78833 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 720  | Confined     | Known Changes                 | Surveillance |
| FLO-0298 | 34.17222 | -79.78889 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 198  | Confined     | Suspected/Anticipated Changes | Surveillance |
| FLO-0317 | 33.99444 | -79.60139 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 474  | Confined     | Background                    | Surveillance |
| FLO-0474 | 34.01861 | -79.75472 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 140  | Confined     | Suspected/Anticipated Changes | Surveillance |
| FLO-0475 | 34.03556 | -79.66194 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 190  | Confined     | Suspected/Anticipated Changes | Surveillance |
| GEO-0077 | 33.40417 | -79.29306 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 748  | Confined     | Known Changes                 | Surveillance |
| GEO-0078 | 33.42389 | -79.44917 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 585  | Confined     | Known Changes                 | Surveillance |
| GEO-0095 | 33.33944 | -79.36250 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 680  | Confined     | Known Changes                 | Surveillance |
| GEO-0153 | 33.36333 | -79.22833 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 567  | Confined     | Known Changes                 | Surveillance |

| GEO-0154 | 33.34972 | -79.19472 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 594 | Confined     | Known Changes                 | Surveillance |
|----------|----------|-----------|---|-------------|-----|--------------|-------------------------------|--------------|
| GEO-0232 | 33.23444 | -79.38917 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 840 | Confined     | Known Changes                 | Surveillance |
| GEO-0233 | 33.24806 | -79.40222 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 874 | Confined     | Known Changes                 | Surveillance |
| GEO-0249 | 33.66194 | -79.24667 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 739 | Confined     | Suspected/Anticipated Changes | Surveillance |
| GEO-0296 | 33.22750 | -79.20500 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 707 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0051 | 32.56167 | -81.28806 | Floridan aquifer system                   | FLORIDAN    | 130 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0072 | 32.97806 | -81.11278 | Floridan aquifer system                   | FLORIDAN    | 551 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0073 | 32.89917 | -81.00528 | Floridan aquifer system                   | FLORIDAN    | 200 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0076 | 32.80583 | -80.90972 | Floridan aquifer system                   | FLORIDAN    | 216 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0079 | 32.78528 | -81.05806 | Floridan aquifer system                   | FLORIDAN    | 219 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0174 | 32.82333 | -81.28306 | Floridan aquifer system                   | FLORIDAN    | 220 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0180 | 32.76167 | -81.25750 | Floridan aquifer system                   | FLORIDAN    | 299 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0181 | 32.73361 | -81.36111 | Floridan aquifer system                   | FLORIDAN    | 120 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HAM-0261 | 32.68278 | -81.25583 | Floridan aquifer system                   | FLORIDAN    | 205 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HOR-0207 | 33.71750 | -78.85972 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 745 | Confined     | Known Changes                 | Surveillance |
| HOR-0225 | 33.99861 | -79.20222 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 355 | Confined     | Known Changes                 | Surveillance |
| HOR-0304 | 33.69083 | -78.89583 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 620 | Confined     | Known Changes                 | Surveillance |
| HOR-0305 | 33.58611 | -79.00972 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 716 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HOR-0307 | 33.84944 | -79.05750 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 438 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HOR-0332 | 33.71194 | -78.88528 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 766 | Confined     | Known Changes                 | Surveillance |
| HOR-0409 | 33.68806 | -78.98194 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 611 | Confined     | Known Changes                 | Surveillance |
| HOR-0419 | 33.62972 | -78.96528 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 756 | Confined     | Known Changes                 | Surveillance |
| HOR-0548 | 33.68139 | -78.99583 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 421 | Confined     | Known Changes                 | Surveillance |
| HOR-0666 | 33.68833 | -79.11917 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 585 | Confined     | Known Changes                 | Surveillance |
| HOR-1041 | 33.86417 | -79.16361 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 583 | Confined     | Suspected/Anticipated Changes | Surveillance |
| HOR-1325 | 33.72111 | -78.90306 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 800 | Confined     | Known Changes                 | Surveillance |
| JAS-0298 | 32.45917 | -80.89667 | Floridan aquifer system                   | FLORIDAN    | 170 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0351 | 32.52028 | -81.15222 | Floridan aquifer system                   | FLORIDAN    | 160 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0397 | 32.52611 | -80.86806 | Floridan aquifer system                   | FLORIDAN    | 140 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0402 | 32.46361 | -81.10750 | Floridan aquifer system                   | FLORIDAN    | 200 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0403 | 32.60500 | -81.16278 | Floridan aquifer system                   | FLORIDAN    | 180 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0406 | 32.59333 | -81.05861 | Floridan aquifer system                   | FLORIDAN    | 200 | Confined     | Suspected/Anticipated Changes | Surveillance |
| JAS-0420 | 32.29778 | -81.12028 | Floridan aquifer system                   | FLORIDAN    | 220 | Confined     | Known Changes                 | Surveillance |
| JAS-0421 | 32.13139 | -81.05667 | Floridan aquifer system                   | FLORIDAN    | 270 | Confined     | Known Changes                 | Surveillance |
| JAS-0499 | 32.17306 | -81.07639 | Floridan aquifer system                   | FLORIDAN    | 256 | Confined     | Known Changes                 | Surveillance |
| KER-0098 | 34.35417 | -80.47833 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 95  | Unconfined   | Background                    | Surveillance |
| KER-0100 | 34.16833 | -80.79444 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 232 | Unconfined   | Suspected/Anticipated Changes | Surveillance |
| LEE-0036 | 34.29028 | -80.34167 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 263 | Semiconfined | Known Changes                 | Surveillance |
| LEE-0060 | 34.11000 | -80.22611 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 470 | Confined     | Background                    | Surveillance |
| LEE-0073 | 34.07167 | -80.22111 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 458 | Confined     | Background                    | Surveillance |
| LEE-0079 | 34.21111 | -80.27361 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 347 | Confined     | Background                    | Surveillance |
| LEE-0178 | 34.20972 | -80.41250 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 406 | Confined     | Background                    | Surveillance |
| LEX-0838 | 33.86806 | -81.40722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 185 | Unconfined   | Background                    | Surveillance |
| MLB-0027 | 34.56333 | -79.53528 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 128 | Unconfined   | Background                    | Surveillance |

| MLB-0031 | 34.66889 | -79.54333 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 104  | Unconfined   | Background                    | Surveillance |
|----------|----------|-----------|---|-------------|------|--------------|-------------------------------|--------------|
| MLB-0110 | 34.49306 | -79.71944 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 115  | Unconfined   | Background                    | Surveillance |
| MLB-0112 | 34.62639 | -79.68944 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 320  | Unconfined   | Background                    | Surveillance |
| MLB-0139 | 34.56778 | -79.67944 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 142  | Unconfined   | Background                    | Surveillance |
| MLB-0140 | 34.56611 | -79.68583 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 135  | Unconfined   | Background                    | Surveillance |
| MRN-0009 | 34.18472 | -79.40611 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 633  | Confined     | Suspected/Anticipated Changes | Surveillance |
| MRN-0068 | 34.24667 | -79.50028 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 420  | Confined     | Background                    | Surveillance |
| MRN-0070 | 34.19389 | -79.29333 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 464  | Confined     | Suspected/Anticipated Changes | Surveillance |
| ORG-0009 | 33.32306 | -80.41139 | Floridan aquifer system                   | FLORIDAN    | 265  | Confined     | Background                    | Surveillance |
| ORG-0048 | 33.46667 | -80.86111 | Floridan aquifer system                   | FLORIDAN    | 127  | Confined     | Background                    | Surveillance |
| ORG-0108 | 33.34861 | -80.67972 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 955  | Confined     | Background                    | Surveillance |
| ORG-0383 | 33.36806 | -81.03111 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 946  | Confined     | Suspected/Anticipated Changes | Surveillance |
| ORG-0389 | 33.36250 | -81.03306 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 966  | Confined     | Suspected/Anticipated Changes | Surveillance |
| ORG-0461 | 33.24722 | -80.81944 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1015 | Confined     | Background                    | Surveillance |
| ORG-0509 | 33.55194 | -80.95389 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 410  | Confined     | Background                    | Surveillance |
| ORG-0548 | 33.68639 | -81.03528 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 445  | Confined     | Background                    | Surveillance |
| ORG-0635 | 33.45694 | -80.59500 | Floridan aquifer system                   | FLORIDAN    | 220  | Confined     | Background                    | Surveillance |
| ORG-0636 | 33.39389 | -80.54250 | Floridan aquifer system                   | FLORIDAN    | 205  | Confined     | Background                    | Surveillance |
| ORG-0637 | 33.58194 | -80.81639 | Floridan aquifer system                   | FLORIDAN    | 260  | Confined     | Background                    | Surveillance |
| ORG-0638 | 33.43278 | -80.42861 | Floridan aquifer system                   | FLORIDAN    | 295  | Confined     | Background                    | Surveillance |
| ORG-0639 | 33.30944 | -80.27944 | Floridan aquifer system                   | FLORIDAN    | 110  | Confined     | Background                    | Surveillance |
| ORG-0640 | 33.33222 | -80.60556 | Floridan aquifer system                   | FLORIDAN    | 250  | Confined     | Background                    | Surveillance |
| ORG-0641 | 33.28556 | -80.71889 | Floridan aquifer system                   | FLORIDAN    | 330  | Confined     | Background                    | Surveillance |
| ORG-0642 | 33.45222 | -81.13694 | Floridan aquifer system                   | FLORIDAN    | 210  | Confined     | Background                    | Surveillance |
| RIC-0293 | 33.87889 | -80.89333 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 152  | Unconfined   | Background                    | Surveillance |
| RIC-0729 | 34.08278 | -80.91722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 22   | Unconfined   | Background                    | Surveillance |
| SUM-0119 | 33.91750 | -80.32111 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 620  | Confined     | Suspected/Anticipated Changes | Surveillance |
| SUM-0230 | 33.73694 | -80.46944 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 760  | Confined     | Suspected/Anticipated Changes | Surveillance |
| SUM-0288 | 33.98583 | -80.21333 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 325  | Semiconfined | Suspected/Anticipated Changes | Surveillance |
| SUM-0296 | 33.71056 | -80.53222 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 625  | Confined     | Background                    | Surveillance |
| SUM-0297 | 33.71056 | -80.53222 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 189  | Confined     | Background                    | Surveillance |
| WIL-0016 | 33.72667 | -79.54944 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 465  | Confined     | Background                    | Surveillance |
| WIL-0037 | 33.74889 | -79.45083 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 891  | Confined     | Known Changes                 | Surveillance |
| WIL-0051 | 33.78750 | -79.80417 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 257  | Confined     | Background                    | Surveillance |
| WIL-0118 | 33.67250 | -79.83694 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 953  | Confined     | Known Changes                 | Surveillance |
| WIL-0177 | 33.52556 | -79.89278 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 694  | Confined     | Background                    | Surveillance |
| WIL-0193 | 33.72167 | -79.51000 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 610  | Confined     | Background                    | Surveillance |
| WIL-0196 | 33.50083 | -79.76944 | Southeastern Coastal Plain Aquifer System | BLACK_CREEK | 248  | Confined     | Background                    | Surveillance |
| WIL-0203 | 33.70417 | -79.81389 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1072 | Confined     | Known Changes                 | Surveillance |
| WIL-0207 | 33.57639 | -79.93639 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1129 | Confined     | Suspected/Anticipated Changes | Surveillance |
| WIL-0208 | 33.58361 | -79.87083 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1052 | Confined     | Suspected/Anticipated Changes | Surveillance |
| WIL-0211 | 33.68167 | -79.55722 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1005 | Confined     | Background                    | Surveillance |
| WIL-0212 | 33.65361 | -79.50194 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 1025 | Confined     | Background                    | Surveillance |
| WIL-0213 | 33.77278 | -79.44806 | Southeastern Coastal Plain Aquifer System | MIDDENDORF  | 886  | Confined     | Known Changes                 | Surveillance |

# Appendix B: DNR Standard Operating Procedures for ADR Water Level Network Wells

1. Site visits should be made a minimum of 6 times per year, approximately once every two months. Additional site visits may be necessary to repair/replace malfunctioning equipment or do perform additional site maintenance.

2. Appropriate quality control and quality assurance measures should be implemented during each site visit:

a. For sites with pressure transducers, cable length values should be determined during the time of visit and compared to previous cable length estimates to evaluate the sensor's performance. The cable length value is the sum of 1) the depth of water above probe as measured by the transducer and 2) the depth to water from the measuring point (manual measurement).

b. For sites with unvented pressure transducers and no barometric instrument installed on site, a measurement must be taken from a spare barometric instrument that is transported from site to site. This measurement will allow an estimate of the depth of water above probe, and thus, an estimate of the cable length value during each site visit.

c. For transducers with pressure ranges rated at 65 feet (20 meters) or less, ADRs should be replaced if cable length values deviate by more than  $\pm 0.20$  ft for two consecutive downloads.

d. For transducers with pressure ranges rated at 210 meters, ADRs should be replaced if cable length values deviate by more than  $\pm 0.70$  ft. for two consecutive downloads.

e. Clock accuracy should be checked during each site visit for each ADR instrument. In most cases, a one or two minute error is acceptable. Clocks off by more than a few minutes should be reset.

f. For wells that are tidally influenced, the manual measurement and the real-time ADR reading must be collected simultaneously in order to compute accurate cable length values.

3. Model numbers and serial numbers should be documented for all installed ADRs and associated equipment (direct read cables, for example). Any changes to instrumentation must be clearly documented (date and time of change, model and serial numbers of any instrumentation removed along with model and serial numbers of any instrumentation added).

4. Efforts should be made to ensure that enough inventory is immediately available to replace faulty ADR equipment in the field to avoid the additional loss of data.

5. Under normal circumstances, data collected during a site visit should be checked for quality control and quality assurance or sent to the Columbia office for review within two weeks of the site visit.

6. If ADR instrumentation at a given site is determined to be malfunctioning while reviewing data in the office, efforts should be made to replace or repair the ADR instruments as soon as possible. This may require additional site visits.

7. Clocks for all instrumentation will be programmed in Eastern Standard Time. Do not correct for Daylight Savings.

8. For sites with unvented pressure transducers, desiccant packs must be replaced once every 6–8 weeks to prevent moisture from accumulating in the transducer's vent tube. Excess moisture can cause faulty ADR readings and can potentially damage the transducer.

9. Site maintenance, such as clearing vegetation and ensuring site security, should be performed as necessary during each visit.