

**Lake County Water Supply Plan**  
**Technical Memorandum #5**

September 2007

FINAL

Regional Monitoring Plan

Prepared by



# Lake County Water Supply Plan

## Regional Monitoring Plan

### 1.0 Introduction

Water Resource Associates (WRA) was selected by the Lake County Water Alliance (Alliance) to develop the “Lake County Water Supply Plan (Plan)” for its member governments. The Alliance is constituted of the following jurisdictions: the Cities of Clermont, Eustis, Fruitland Park, Groveland, Howey-In-The-Hills, Lady Lake, Leesburg, Mascotte, Minneola, Montverde, Mount Dora, Tavares and Umatilla. Originally, Lake County and Astatula were members of the Alliance but withdrew during the Plan process. The City of Leesburg, acting as an administrative arm of the Alliance, contracted with WRA in May of 2006 to complete the Plan. The St. Johns River Water Management District (SJRWMD) provided funding to the Alliance for the study and has been an active participant in providing data to the study and review of work-product.

Resource monitoring is a vital component for the protection of water resources. Monitoring involves the collection of both water quality, water level and water flow data, where appropriate, at strategically placed groundwater and surfacewater sites. These data are evaluated and reported upon by the monitoring agency to assess the health and quality of the resource and to identify areas where environmental degradation or impacts are occurring. These impacts could be related to Minimum Flows and Levels (MFLs) compliance, drawdown effects on wetlands and surfacewater bodies, and changes in groundwater quality.

The Scope of Work for the Plan included the development of a regional monitoring plan (RMP) that would assess the accuracy of the groundwater modeling conducted for the Plan. The factors to be addressed in the RMP included:

1. Identification of the presence, location, and quality of existing surfacewater and wetlands stage data;
2. Locations of features with existing and proposed Minimum Flows and Levels;
3. Estimate of the number of new sites needed, appropriate spatial density, and appropriate monitoring frequency;
4. Types of monitoring locations (e.g., lakes, wetlands, etc);
5. Appropriate monitoring methods (e.g. staff gauge, wells, etc); and
6. Statistical methods and modeling to be used for assessing the data collected.

The RMP that WRA accomplished for the Plan identifies existing surfacewater, wetlands, and groundwater stage data. It includes locations of features with existing and proposed MFLs. However, the groundwater modeling that was originally considered for the Plan was ultimately cut from the scope based on consensus of the Alliance, SJRMWD and WRA. Therefore, estimates of the number, type, and method for new groundwater monitoring sites are not applicable to this RMP.

It should also be noted that none of the proposed Alternative Water Supply (AWS) projects are located within Lake County and those that have been identified are conceptual in detail. It is not known how many of these projects will be implemented, or what their withdrawals will be. Due to these factors, designing a monitoring program to assess surfacewater impacts is difficult. Based on these groundwater and surfacewater uncertainties, a more general approach to the RMP was taken.

This RMP gives a brief overview of the types of monitoring currently underway by several agencies, including the United States Geological Survey (USGS), the Florida Department of Environmental Protection (FDEP), the St. Johns River Water Management District (SJRWMD), and the Southwest Florida Water Management District (SWFWMD). Data collected by the Lake County Water Authority (LCWA) was also considered. Other than compliance monitoring at permitted locations,<sup>1</sup> there is no systematic water-resource monitoring underway by local governments in Lake County. In anticipation of groundwater and AWS monitoring requirements in the future, the RMP discusses regional monitoring program development for groundwater and surfacewater sources.

## 2.0 Data Sources

Much of the information contained within this document has been obtained and modified from Internet resources. Each of the agencies listed above has an Internet website that can be queried for various environmental data. The SJRWMD website ([www.sjrwmd.com/programs/data.html](http://www.sjrwmd.com/programs/data.html)) provides access to environmental and regulatory data; however, some data must be requested directly from SJRWMD staff. The SWFWMD website ([www.swfwmd.state.fl.us/data](http://www.swfwmd.state.fl.us/data)) allows access to a host of environmental and regulatory data, including Geographic Information Systems (GIS) coverages that allow the rapid mapping of environmental data. USGS and FDEP data can be accessed via their respective websites ([www.usgs.gov](http://www.usgs.gov); [www.dep.state.fl.us](http://www.dep.state.fl.us)). In addition, the Lake County Water Atlas ([www.lake.wateratlas.usf.edu/](http://www.lake.wateratlas.usf.edu/)) provides a general overview of data collected by various agencies and can be used to identify data that may be available. The specific sources used here are listed in as references at the end of the document.

Monitoring of temperature, evapotranspiration and other meteorological phenomena can be important for modeling purposes, but were not reviewed for this investigation. These data are available from the SJRWMD and the SWFWMD, and in some cases, from the National Oceanic and Atmospheric Administration (NOAA) website ([www.noaa.gov](http://www.noaa.gov)). Additionally, compendiums of data from a variety of sources are available from the United States Environmental Protection Agency (USEPA)'s storage and retrieval website STORET ([www.epa.gov/storet](http://www.epa.gov/storet)).

## 3.0 Water Resource Monitoring

Water-resource monitoring in Lake County can be separated by water source: surfacewater (including lakes, streams, and wetlands) and groundwater (including the surficial, Upper and Lower Floridan aquifers). Effective monitoring of these sources will require characterization of physical and chemical parameters such as rainfall, water level, flow and water quality. Minimum Flows and Levels (MFLs) will dictate the viability of water supply from surface water bodies and groundwater by imposing limits to withdrawals, and monitoring of MFL water bodies will be important to understanding the ability of these water bodies to allow nearby withdrawals.

Figures 3-1 through 3-8 show the location of active water quantity, quality and rainfall monitoring sites in Lake County. Active sites are locations where data collection at a specific time-interval or frequency is ongoing. The major river systems currently under consideration for Alternative Water Supply (AWS) development are also shown. These include the Ocklawaha River, the St. Johns River, and the Withlacoochee River. Appendices A through E, respectively, list the groundwater and surfacewater data collected at these sites.

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<sup>1</sup> The SJRWMD regulates water use under Chapter 373, Florida Statutes (F.S).

It should be noted that inactive surfacewater and groundwater monitoring sites, where regularly scheduled monitoring is not ongoing but was conducted in the past, have also been developed on a project-specific basis by monitoring agencies. Updated lists of these sites are not generally maintained, but their data may be available upon request and may be relevant to specific water resource investigations. Since these sites are inactive, the physical site may have been abandoned or lost depending on its specific circumstances.

FDEP collects a variety of surfacewater quality data through its Integrated Water Resource Monitoring Program (IWRM), including the baseline data required for Total Maximum Daily Load (TMDL) development and the data tied to regulatory permits. Most of this data is collected on a temporary basis and was not reviewed for this RMP, but is available through STORET. FDEP also collected groundwater quality data from 1985 to 1995 as part of its Background Monitoring Network.

Water resource monitoring for groundwater and surfacewater, and associated MFLs, is discussed below.

### **3.1 Groundwater**

Groundwater, a traditional water source, is currently the main potable water supply source in Lake County, with fresh water from the Upper Floridan aquifer being the main source for public supply. The surficial aquifer, which overlies the Floridan in parts of the County, is rarely used as a potable water supply and is mainly tapped for small-scale irrigation and rural farm use. Refer to Technical Memorandum #2 for additional information on groundwater as a water supply source.

Monitoring of the Floridan aquifer has been extensive since the late 1960s with the establishment of the Water Management Districts (WMDs). This monitoring has involved the collection of groundwater levels from monitoring wells, springflow discharges, and the collection of water quality samples. Water level and flow data are relevant to water resource availability and can indicate the extent of aquifer drawdown or reductions in springflow due to groundwater withdrawals.

Water quality parameters vary with the purpose of the monitoring. In most cases, monitoring has focused on major ions (calcium, magnesium, chloride, sulfate, etc) and field analytes (pH and conductivity). These parameters are relevant to potable water quality and treatment, since the Lower Floridan and surficial aquifers can contain lower quality or brackish water, which does not meet potable standards due to its higher mineral content.<sup>2</sup> Water quality can deteriorate with increased groundwater withdrawals as areas of lower quality groundwater are accessed. Trace chemicals and contaminants such as nitrate may also be included in special monitoring projects.

### **3.2 Surface Water**

Surfacewaters, including lakes, wetlands, and streams, are not currently utilized for potable water supply in Lake County. Relative to groundwater supplies, surfacewater requires more sophisticated treatment to remove organic and chemical constituents for potable use. Due to variations in rainfall and a shorter residence time in comparison to groundwater, surfacewater

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<sup>2</sup>Chloride and sulfate concentrations greater than or equal to 250 milligrams per liter (mg/L), or total dissolved solids (TDS) greater than or equal to 500 mg/L.

also requires management of flow and level variations for use as a potable source. Refer to Technical Memorandum #2 for additional information on surfacewater as a water supply source. The monitoring of surfacewater in and around Lake County includes water level, flow, and water quality data.

Water level and flow data can indicate the extent of hydrologic impact to lakes, wetlands, and rivers from either groundwater or surfacewater withdrawals. They can also indicate the hydrologic relationship between connected ground- or surfacewaters. Due to the biological activity in surfacewater, a water withdrawal can also affect more than just the hydrology of the water body. Low water levels can facilitate consumption of dissolved oxygen in the water column, causing stress to fish and aquatic invertebrates. Freshwater withdrawals can cause downstream migration of the salinity interface, affecting the distribution of aquatic habitat.

Water quality data can describe an array of biological and chemical conditions, including alkalinity, salinity and trophic (or nutrient level) state. In many cases, water quality analytes are focused on the aesthetic and ecological characteristics of the water body with emphasis on parameters such as clarity, nutrients, dissolved oxygen, and pH. Some water quality parameters are relevant to potable water quality and treatment, as undesirable chemicals such as high levels of carbonate or sulfate must be adjusted or removed during treatment. The relationship between water quality, biology and a given surfacewater withdrawal must be developed on a case-by-case basis.

### **3.3 Minimum Flows and Levels**

MFLs are established by the WMDs as required under Florida Statute 373.042, and will dictate the viability of water supply from surface water bodies and groundwater by imposing limits to withdrawals. Monitoring of MFL locations is important to understanding the ability of these water bodies to allow nearby withdrawals. The MFLs of interest to Alliance Members are for surface water bodies and springs, although MFLs can be set for groundwater levels under some circumstances.

Existing or anticipated MFL locations are present within Lake County and along the Ocklawaha River, St. Johns River, and the Withlacoochee River systems. These major river systems are reviewed in the Plan as major potential alternative water supply sources. As such, MFLs will constrain water supply development both from traditional groundwater within Lake County and from alternative water supplies that may be imported from outside the County. Refer to Technical Memorandum #2 for more information on MFLs. Figure 3-9 shows the location of MFL priority water bodies within Lake County and along the major river systems. Monitoring locations associated with the water bodies are provided in Appendix F.

## **4.0 Regional Groundwater Monitoring**

As previously discussed, the RMP was originally designated to assess the accuracy of the groundwater modeling conducted for the Plan. However, the groundwater modeling that was originally considered for the Plan was subsequently cut from the scope. Since Alliance Members may be affected by the accuracy of regional groundwater modeling in the SJRWMD and SWFWMD water supply planning efforts, a general approach to regional groundwater monitoring is discussed in this section. Groundwater monitoring efforts already underway for Member CUPs and the effects of additional conservation, reuse, and AWS on groundwater modeling predictions are also discussed in this section.

Regional groundwater models are intended for planning purposes and thus have relatively coarse resolution in comparison to regulatory or withdrawal-specific models. For example, the cell length in the model grid for these types of models can be on the order of a ½ mile, so hydrogeologic features of smaller size end up incorporated to a larger, cell average. Although the models make efforts to include all applicable geologic data in their calibration, the accuracy of the representation in a given cell will be limited by the geologic data that is available for that cell. In addition, groundwater models are sensitive to their input data with respect to recharge and estimates/projections of water use. Generally, unadjusted water demands are input to these models and do not reflect additional water supplies achieved through conservation, reuse, or AWS. As these uncertainties can compound over time and space in the model results, groundwater level monitoring and comparison of model predictions to the monitoring results is essential to establishing the accuracy of the modeling. In confined settings, paired wells (one in the Upper Floridan and one in the surficial) are extremely valuable to these efforts.

When groundwater modeling results are developed, they are evaluated with respect to environmental impacts to lakes, wetlands, and springs within the model domain. This is to assess the potential for adverse impacts or harm (drawdown, reduction in springflow, etc) to these features due to the projected groundwater withdrawals. The harm analysis involves a general comparison of both the type of system and the soil and hydrogeologic setting in its vicinity. As shown in Table 4-1 below, SJRWMD drawdown constraints vary by wetland type, depending on the vegetative characteristics of the wetland system. The soil and hydrogeologic setting will affect the translation of drawdown effects to the wetland above.

**Table 4-1. Wetland Drawdown Constraints<sup>3</sup>**

<b>Wetland Type</b>	<b>Feet of Drawdown</b>
Bay Swamp	0.35
River / Lake Swamp	0.35
Cypress Swamp	0.55
Mixed Forest	0.35
Freshwater Marsh	0.55
Wet Prairie	0.35
Emergent Aquatic Vegetation	0.85
Submergent Aquatic Vegetation	1.20
Mixed Scrub-Shrub	0.75
Non-Vegetated Wetland	1.20

A wetland located in highly permeable soils will be more susceptible to drawdown effects than a comparable wetland located in soils that are less permeable. A wetland located in an unconfined setting will be more susceptible than a comparable wetland located in a confined setting, since the confinement provides some protection from the Upper Floridan aquifer drawdown. Based on a harm assessment that considers these factors, determinations of the need for restrictions in groundwater use will be made.

<sup>3</sup> Adapted from CH2M Hill (1998).

As with groundwater levels, monitoring and comparison of predictions of harm to field results is essential to establishing the accuracy of the assessment. This is particularly important for environmental impacts, which will be more variable than hydrologic data due to the complexity of the ecological systems under evaluation. Therefore, effective monitoring of environmental impacts will require many more locations in the area of interest than will direct monitoring of groundwater model output. Both the SJRWMD and the SWFWMD monitor selected wetland sites in certain areas in order to assess impacts due to groundwater withdrawals.

Historically, groundwater CUPs included monitoring requirements with respect to water quality, to ensure that withdrawals did not entrain lower quality groundwater from the surficial and Lower Floridan aquifers. As groundwater supplies become increasingly limited, nearly all groundwater CUPs now include environmental monitoring requirements also. These may include monitoring of nearby lakes, wetlands, or other features. Water quality, water level and environmental monitoring will continue to become increasingly important as groundwater supplies dwindle. The monitoring already in place for Member CUPs could be valuable when utilized on a regional basis.

## **5.0 Regional Surfacewater Supply Monitoring**

As previously discussed, it is possible that Alliance Members will participate in one or more large surfacewater withdrawals that have been contemplated from the major river systems in the region. Due to the biological activity and resource value of surfacewater systems, large withdrawals typically require development of a comprehensive environmental monitoring program as a condition of CUP approval. Since Alliance Members may participate in the development of such a program, a general approach to regional monitoring program development for surfacewater withdrawals is discussed in this section.

Since large river or lake systems must support recreational, navigation, environmental, and water supply functions, many stakeholders will be interested in the development of the monitoring program. A consensus-based approach including continuous review and oversight of program development by interested parties is important to achieving consensus approval of the monitoring program.

The SJRWMD's consumptive use permitting program requires that water withdrawals "will not cause adverse environmental impacts to wetlands, lakes, streams, estuaries, fish and wildlife, or other natural resources."<sup>4</sup> The general goal of the monitoring program is to ensure consistency with the CUP criteria. Specific performance standards include, at a minimum, that flows in the affected water body should not deviate from the normal rate and range of fluctuation to the extent that:

- Water quality, vegetation, and animal populations are adversely impacted in streams and estuaries;
- Salinity distributions in tidal streams and estuaries are significantly altered as a result of withdrawals;
- Recreational use or aesthetic qualities of the resource are adversely impacted

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<sup>4</sup> 40C-2.301(c), Florida Administrative Code (F.A.C).

Therefore, the environmental monitoring program must be of sufficient breadth and depth to ensure that these criteria are met throughout the implementation period of the project. General programmatic areas of interest include hydrology and water quality, biota and fauna, and habitat and vegetation. For each of these areas, key parameters can be identified and assessed for their applicability to the monitoring program. Data for the applicable parameters may be available through monitoring efforts underway elsewhere, or may need to be acquired specifically by the monitoring program. A list of key parameters is provided in Table 1-1 below.

**Table 5-1. Key Environmental Monitoring Parameters<sup>5</sup>**

Program Area of Interest		
Hydrology and Water Quality	Biota and Fauna	Habitat and Vegetation
<ul style="list-style-type: none"> <li>• Flow</li> <li>• Water level</li> <li>• Salinity and conductivity</li> <li>• Dissolved oxygen</li> <li>• Temperature</li> <li>• Secchi depth</li> <li>• Light transmission / photosynthetically active radiation</li> <li>• Chlorophyll-a</li> <li>• Color</li> <li>• Total and dissolved organic carbon</li> <li>• Total suspended solids</li> </ul>	<ul style="list-style-type: none"> <li>• Benthic macroinvertebrates</li> <li>• Aquatic invertebrates</li> <li>• Zooplankton / Ichthyoplankton (fish larvae)</li> <li>• Phytoplankton</li> <li>• Fish</li> <li>• Water-dependent birds</li> </ul>	<ul style="list-style-type: none"> <li>• Emergent aquatic vegetation</li> <li>• Submersed aquatic vegetation</li> <li>• Sediment grain size</li> <li>• Sediment organic content</li> </ul>

In addition to the consensus-based approach previously described, the diverse interests of multiple stakeholders essentially require that the monitoring program be scientifically rigorous and defensible. The monitoring plan should generate clear, scientifically-based conclusions that leave little uncertainty as to the actual effect of the withdrawal. The following elements should be present in the monitoring program:<sup>6</sup>

- Meaningful monitoring goals and objectives should be developed and clearly articulated;
- Baseline conditions and the area of interest should be identified;
- Sampling design should be technically sound and statistically valid, as applicable;
- Supporting research should be conducted where applicable to the goals and objectives of the program;
- Procedures for quality assurance should be identified and followed, included scientific peer review;

<sup>5</sup> Adapted from PBS&J (2000).

<sup>6</sup> Modified from National Research Council (1990)

- Adequate resources should be assigned to the program, including analysis, evaluation and reporting of data.

## **6.0 Conclusions**

The conclusions of the RMP are provided below.

- Many agencies including the SJRWMD, SWFWMD, and USGS conduct water resource monitoring in Lake County. Data gathered by these agencies includes ground- and/or surfacewater levels, flow, and quality.
- Water level, water quality, and environmental monitoring requirements in Member CUPs are a valuable source of data and could be utilized on a regional basis.
- Regional groundwater models are used for planning purposes to estimate groundwater availability. They require ongoing monitoring to assess the accuracy of their predictions over time.
- The projections of water use included in regional models do not generally include additional water supplies achieved through conservation, reuse, or AWS.
- Large surfacewater withdrawals will require development of a comprehensive environmental monitoring program as a condition of CUP approval. A consensus-based approach is important to achieving consensus approval of the monitoring program.

## **7.0 Recommendations**

Active monitoring by the SJRWMD, SWFWMD, USGS, and others is based on their goals and monitoring needs. While some of the existing monitoring will have clear applicability to water supply in Lake County, the need for monitoring for Alliance Members will depend on the specific goals and objectives of the Members. In addition, as traditional groundwater supplies become increasingly limited and AWS are developed, effective monitoring will be critical to accurately establishing the sustainable limits of both groundwater and surfacewater. With this in mind, the following recommendations are provided to both the Alliance and its Members.

- Develop data-sharing agreements, such as Memoranda of Understanding (MOUs), both internally among Members and externally with agencies such as the SJRWMD, SWFWMD, Lake County Water Authority (LCWA) and USGS, to share water resource data on a timely basis.
- Develop economies of scale within the Alliance for both monitoring and analysis of data. Utilize monitoring already underway for CUPs to help assess water resources on a Lake County-wide basis.
- Review and analyze water resource data within Lake County on a regular basis, at least annually.

- Identify environmentally sensitive areas and areas of need – such as assessing accuracy of groundwater modeling or the groundwater resource benefit provided by conservation, reuse, and AWS -- not covered by the regional monitoring networks of the SJRWMD and USGS. Seek funding sources to implement monitoring of specific areas of concern and/or encourage agencies to implement adequate monitoring, as applicable.
- Coordinate monitoring efforts and review of water resource data with the LCWA.

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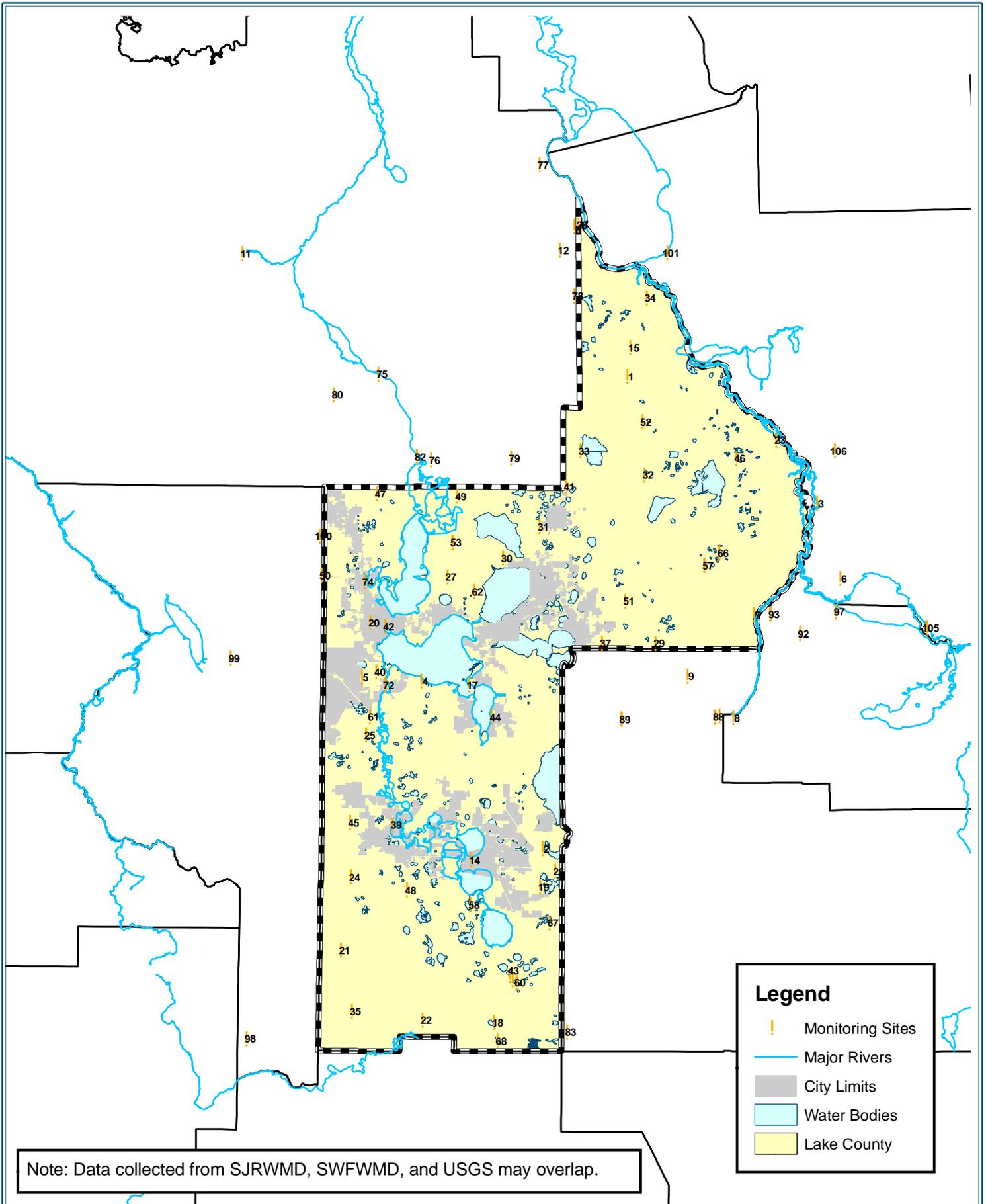
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## **List of Appendices**

- Appendix A: Active Groundwater Hydrologic Data Collection Sites
- Appendix B: Active Surfacewater Hydrologic Data Collection Sites
- Appendix C: Active Groundwater Quality Data Collection Sites
- Appendix D: Active Surfacewater Quality Data Collection Sites
- Appendix E: Active Rainfall Data Collection Sites
- Appendix F: MFL Priority Water Body Locations



Water Resource Associates, Inc.  
 Engineering - Planning - Environmental Science  
 4260 West Linebaugh Avenue  
 Phone: 813-265-3130  
 Fax: 813-265-6610  
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**Figure 3-1**  
**SJRWMD Groundwater**  
**Hydrologic Monitoring Locations**

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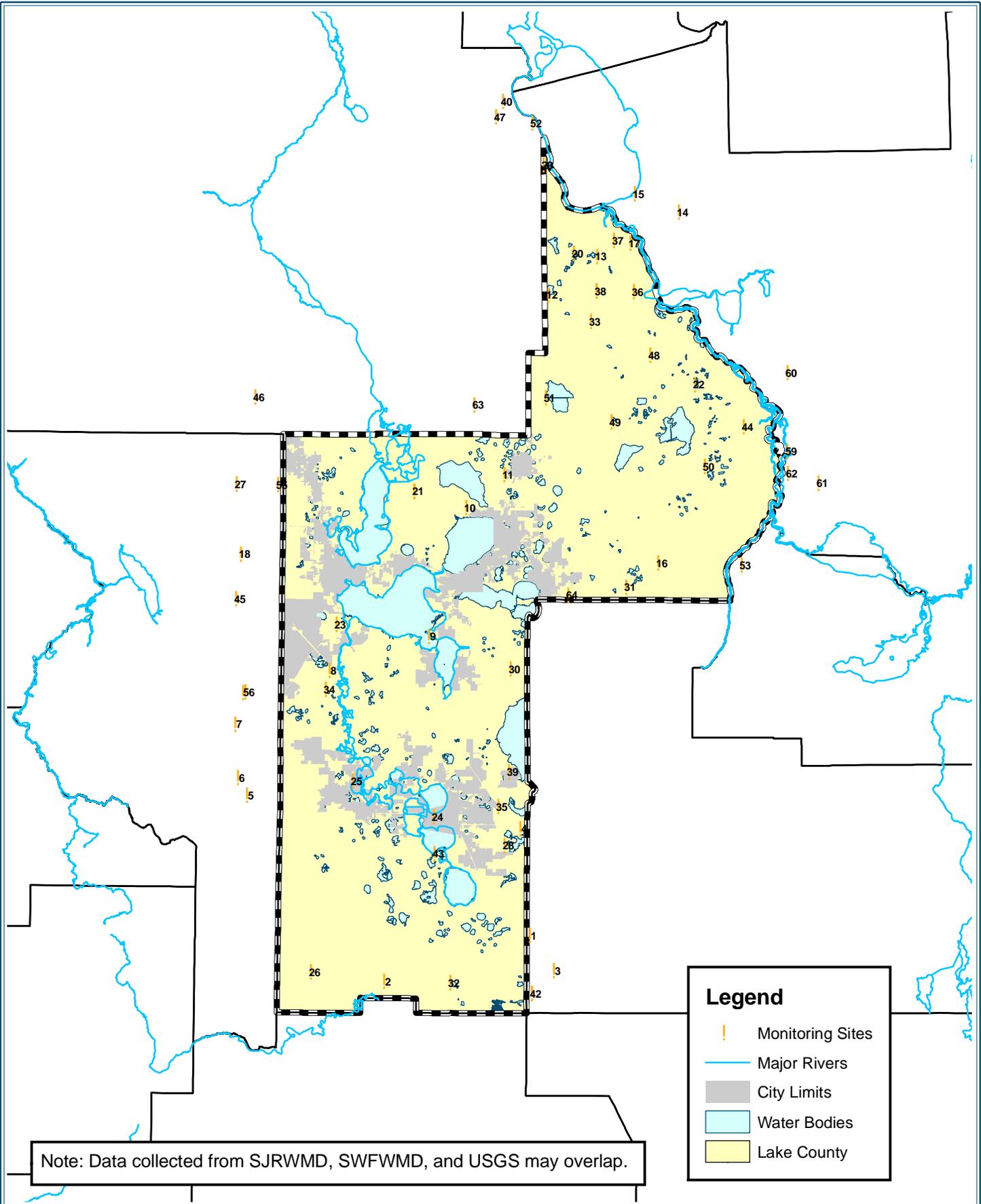
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GIS OPERATOR: DR





**Legend**

- ! Monitoring Sites
- Major Rivers
- City Limits
- Water Bodies
- Lake County

Note: Data collected from SJRWMD, SWFWMD, and USGS may overlap.

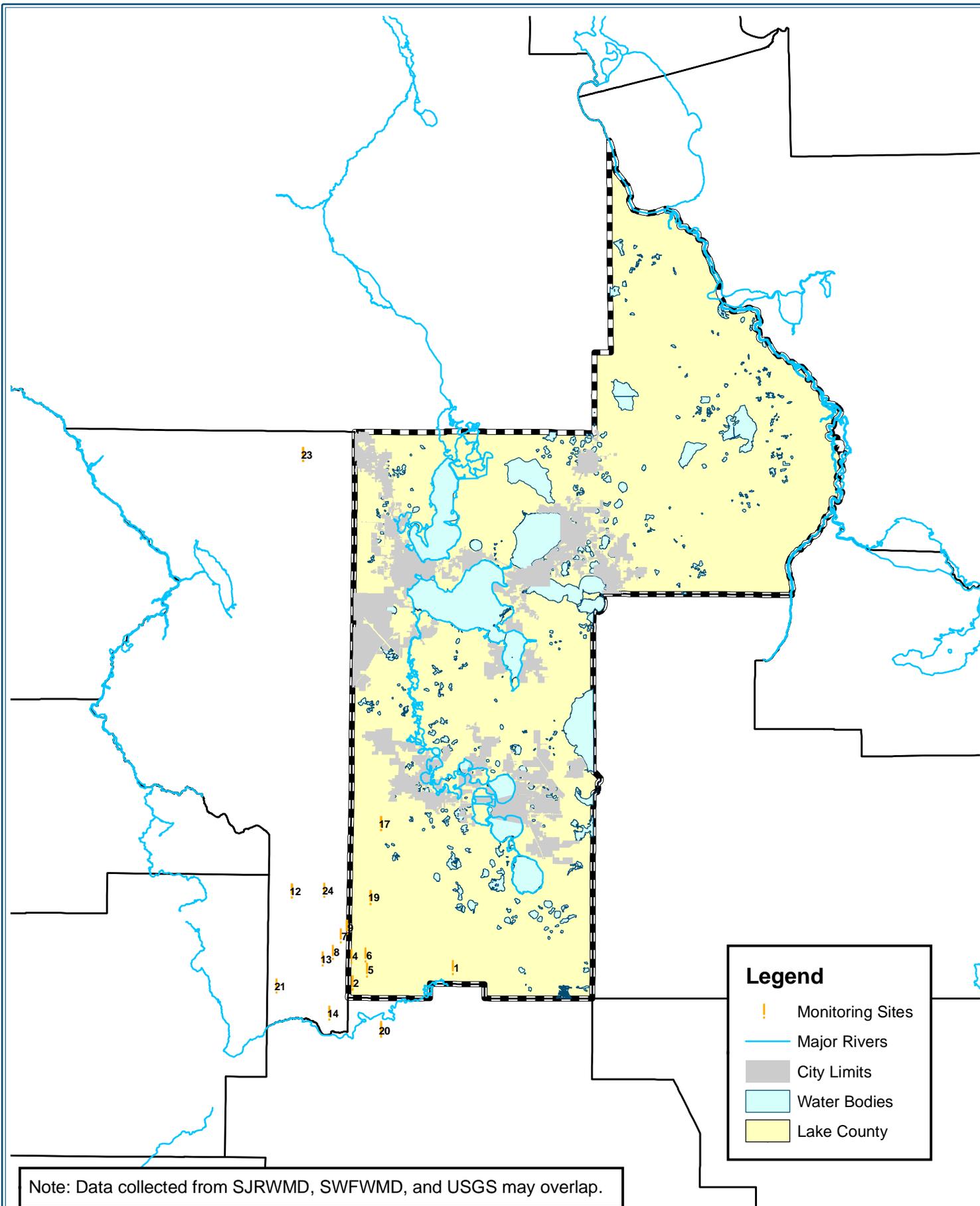


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 Engineering - Planning - Environmental Science  
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 Phone: 813-265-3130  
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Figure 3-2  
 USGS Groundwater  
 Hydrologic Monitoring Locations

ORIGINAL DATE: 08-31-07  
 REVISION DATE: NA  
 JOB NUMBER: 0216  
 FILE NAME: MonitoringSites.mxd  
 GIS OPERATOR: DR



**Legend**

- ! Monitoring Sites
- Major Rivers
- City Limits
- Water Bodies
- Lake County

Note: Data collected from SJRWMD, SWFWMD, and USGS may overlap.



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 Engineering - Planning - Environmental Science  
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 Phone: 813-265-3130  
 Fax: 813-265-6610  
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**Figure 3-3**  
**SWFWMD Groundwater**  
**Hydrologic Monitoring Locations**

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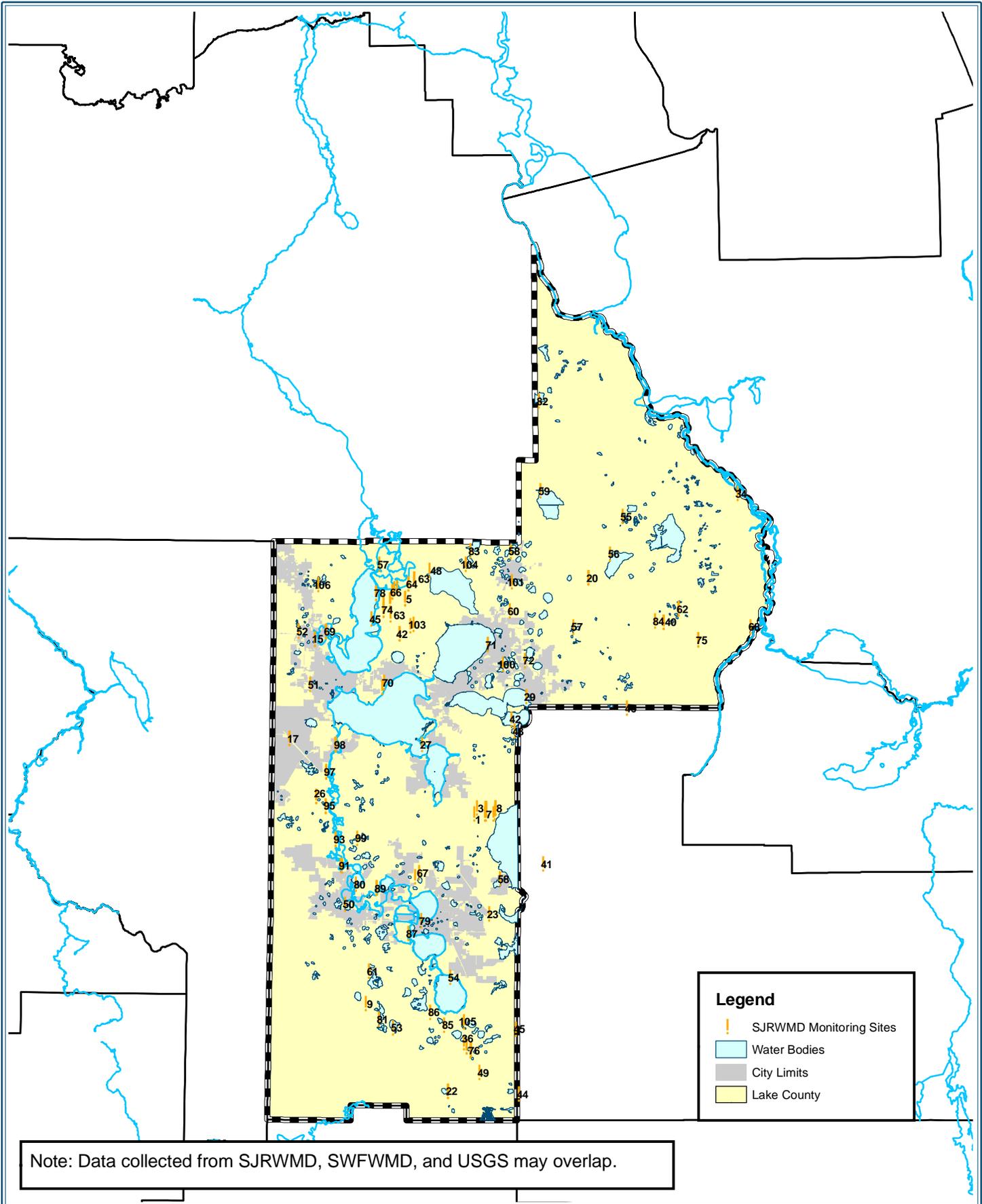
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GIS OPERATOR: DR





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- ! SJRWMD Monitoring Sites
- Water Bodies
- City Limits
- Lake County

Note: Data collected from SJRWMD, SWFWMD, and USGS may overlap.

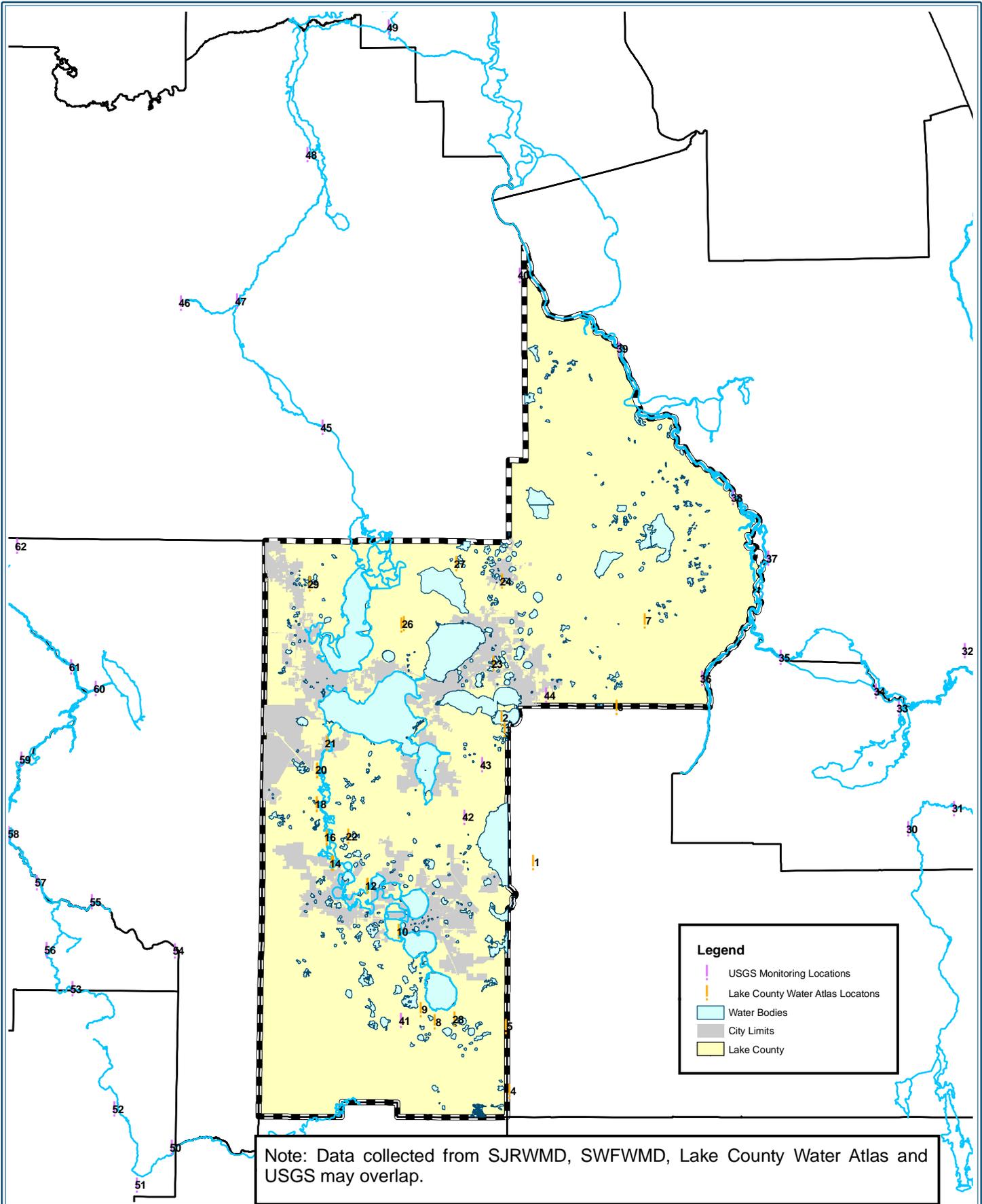


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 Engineering - Planning - Environmental Science  
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 Phone: 813-265-3130  
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Figure 3-4  
 SJRWMD Surface Water  
 Hydrologic Monitoring Locations

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**Legend**

- USGS Monitoring Locations
- Lake County Water Atlas Locations
- Water Bodies
- City Limits
- Lake County



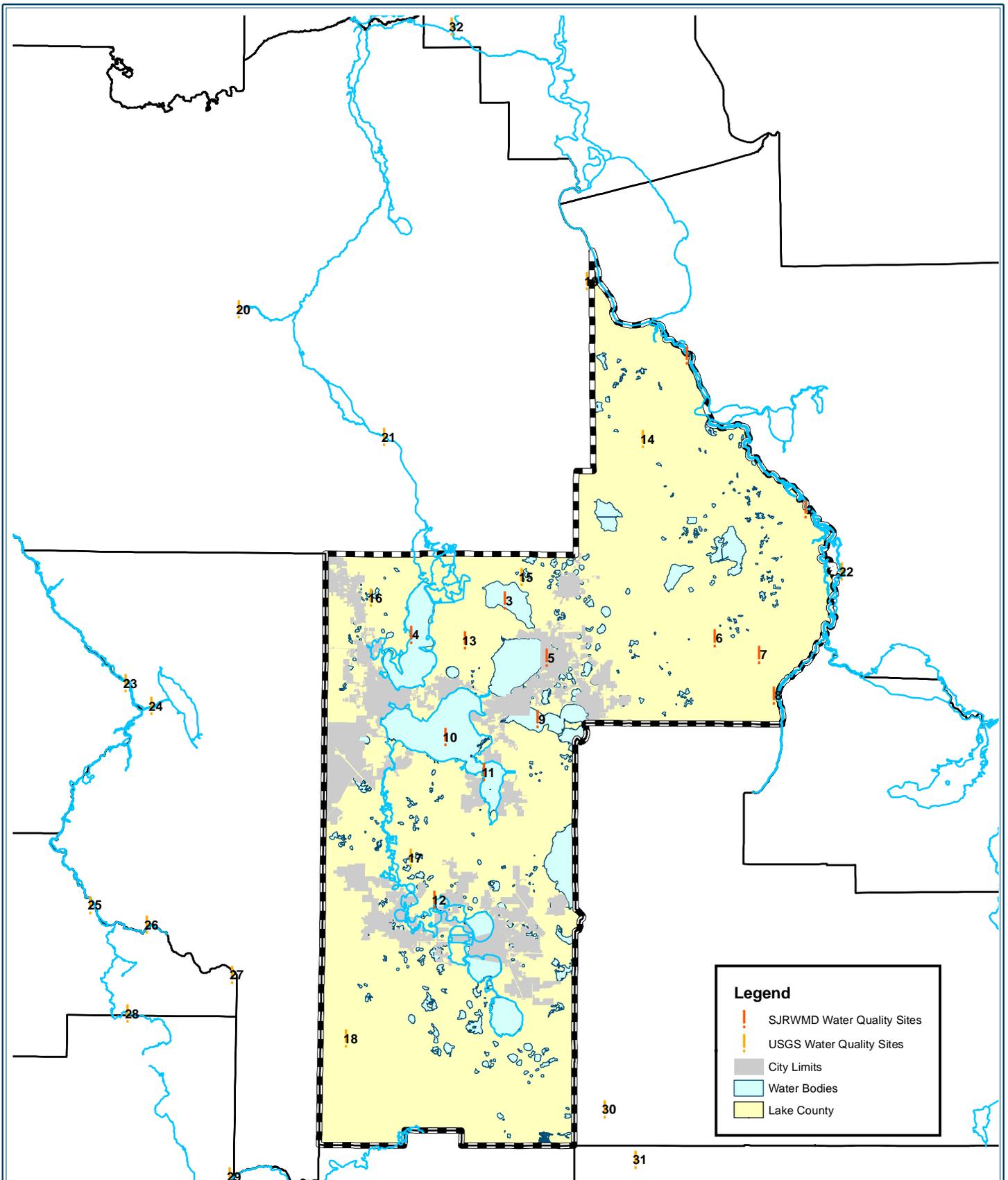
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 Engineering - Planning - Environmental Science  
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 Phone: 813-265-3130  
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Figure 3-5 Water Atlas and USGS  
 Surface Water  
 Hydrologic Monitoring Locations

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 REVISION DATE: NA  
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1 inch equals 10 miles



**Legend**

- ! SJRWMD Water Quality Sites
- o USGS Water Quality Sites
- City Limits
- Water Bodies
- Lake County

Note: Data collected from SJRWMD, SWFWMD, and USGS may overlap.



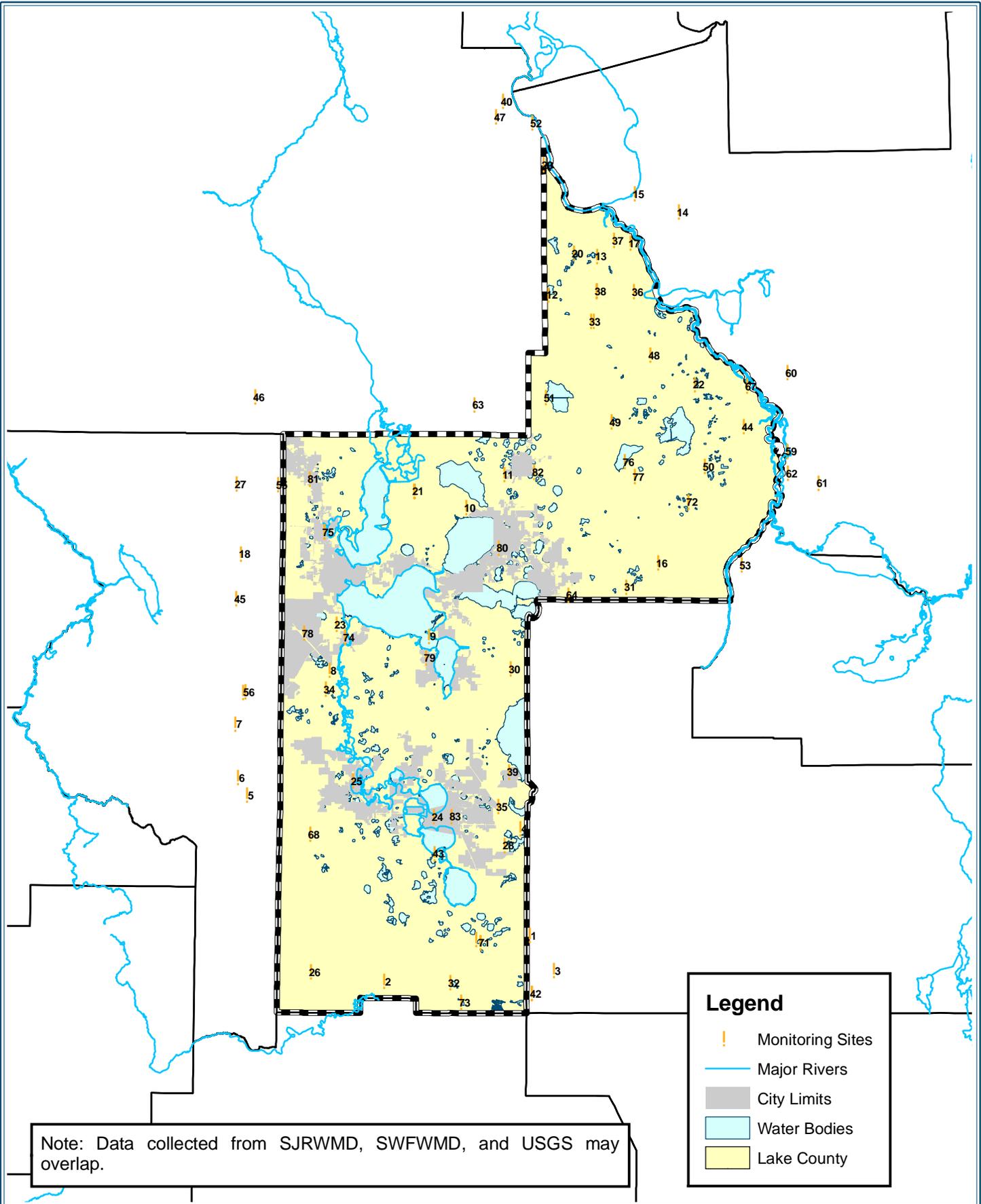
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Figure 3-6  
 Surface Water Quality  
 Monitoring Locations

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 GIS OPERATOR: LEF

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**Legend**

- ! Monitoring Sites
- Major Rivers
- City Limits
- Water Bodies
- Lake County

Note: Data collected from SJRWMD, SWFWMD, and USGS may overlap.



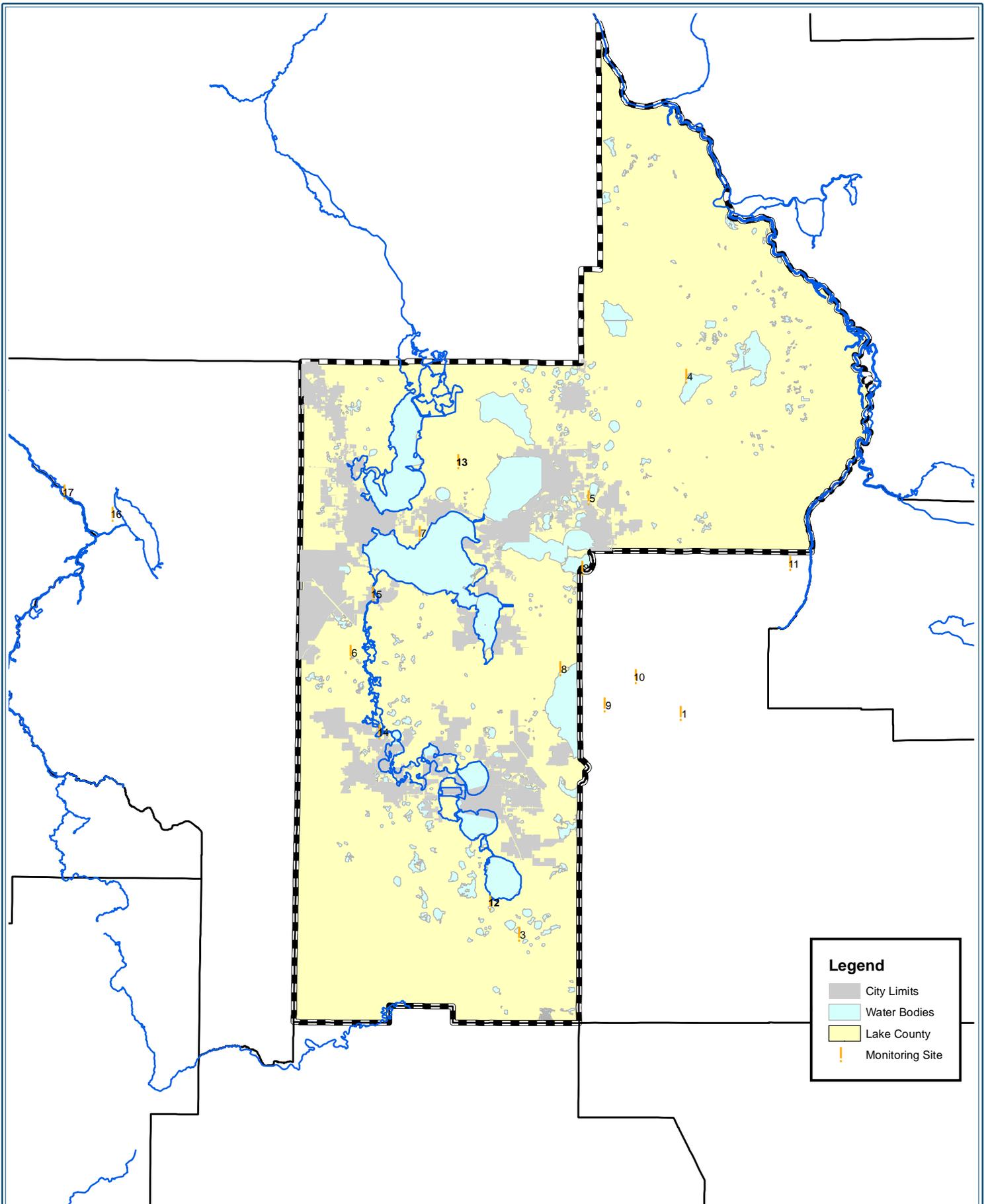
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 Engineering - Planning - Environmental Science  
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**Figure 3-7**  
**SJRWMD & USGS**  
**Groundwater Quality Locations**

ORIGINAL DATE: 08-31-07  
 REVISION DATE: NA  
 JOB NUMBER: 0216  
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1 inch equals 9 miles



**Legend**

- City Limits
- Water Bodies
- Lake County
- ! Monitoring Site



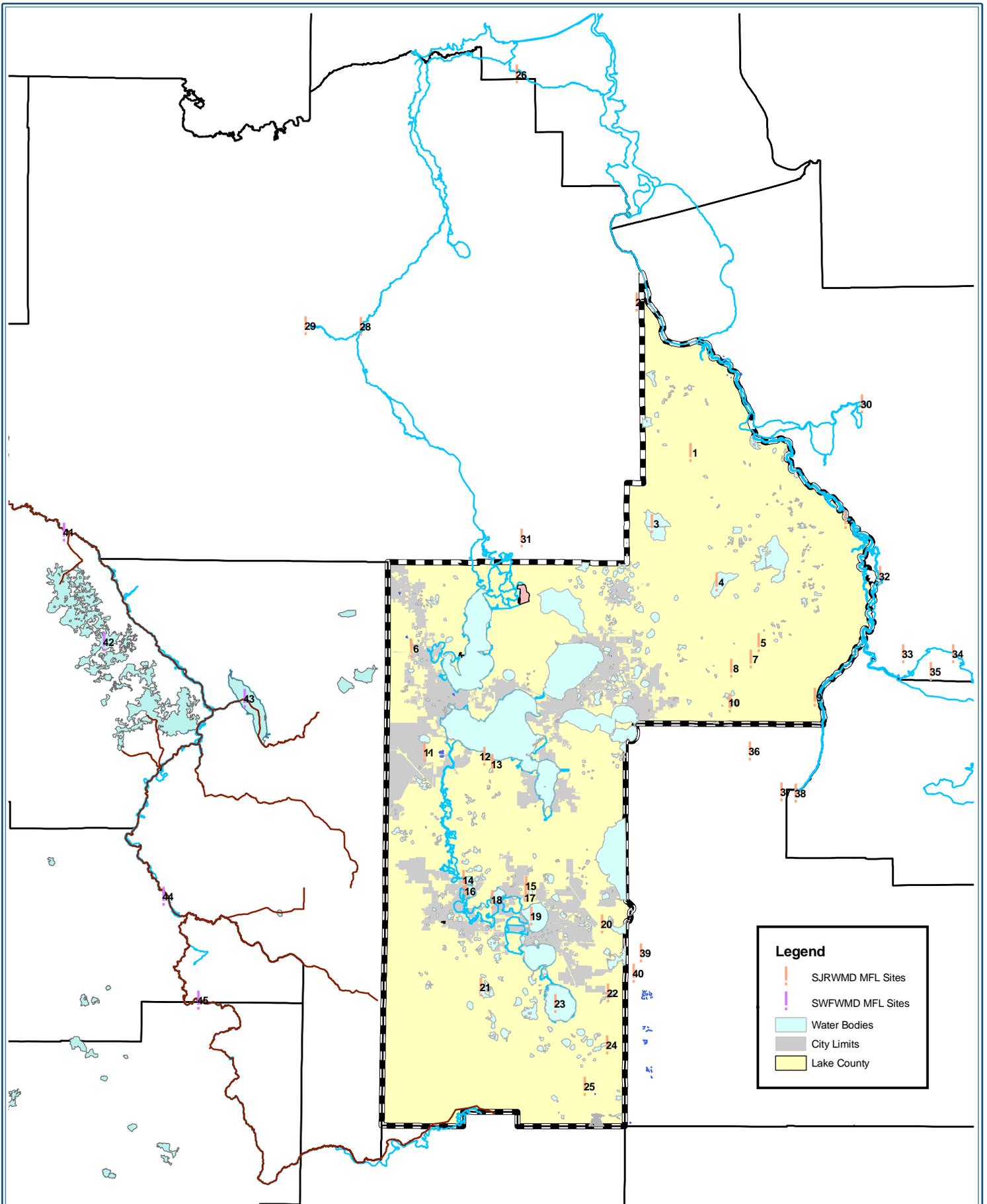
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PROJECT: 0407 - Lake County Water Supply Plan

**Figure 3-8  
 Precipitation  
 Monitoring Locations**

ORIGINAL DATE: 08-31-07  
 REVISION DATE: NA  
 JOB NUMBER: 0216  
 FILE NAME: MonitoringSites.mxd  
 GIS OPERATOR: DR

**1**  
 1 inch equals 8 miles



**Legend**

- SJRWMD MFL Sites
- SWFWMD MFL Sites
- Water Bodies
- City Limits
- Lake County



Water Resource Associates, Inc.  
 Engineering - Planning - Environmental Science  
 4260 West Linebaugh Avenue  
 Phone: 813-265-3130  
 Fax: 813-265-6610  
 www.wraconsultants.com

PROJECT: 0407 - Lake County Water Supply Plan

**Figure 3-9**  
**Minimum Flows and Levels (MFL)**  
**Locations**

ORIGINAL DATE: 08-31-07

REVISION DATE: NA

JOB NUMBER: 0216

FILE NAME: MonitoringSites.mxd

GIS OPERATOR: DR

  
 1 inch equals 9 miles

# APPENDIX A

Active Groundwater Hydrologic Monitoring Sites

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE
<b>Collected from SJRWMD</b>												
1	Alexander Springs	N/A	91335	SJRWMD	NO DATA	NO DATA	NO DATA	29.08	-81.58	FLORIDAN	4 TIMES PER YEAR	SEMI - ANNUAL
2	Apopka Spring	N/A	91336	SJRWMD	NO DATA	NO DATA	NO DATA	28.57	-81.68	FLORIDAN	SEMI - ANNUAL	NO DATA
3	Blue Spring - Volusia	N/A	91337	SJRWMD	NO DATA	NO DATA	NO DATA	28.94	-81.34	FLORIDAN	DAILY	DAILY
4	Blue Spring Yal Run	N/A	91338	SJRWMD	NO DATA	NO DATA	NO DATA	28.75	-81.83	FLORIDAN	4 TIMES PER YEAR	NO DATA
5	Bugg Spring Run	N/A	91339	SJRWMD	NO DATA	NO DATA	NO DATA	28.75	-81.90	FLORIDAN	MONTHLY	NO DATA
6	Gemini Springs	N/A	91342	SJRWMD	NO DATA	NO DATA	NO DATA	28.86	-81.31	FLORIDAN	SEMI - ANNUAL	NO DATA
7	Island Spring	N/A	91345	SJRWMD	NO DATA	NO DATA	NO DATA	28.82	-81.42	FLORIDAN	SEMI - ANNUAL	NO DATA
8	Miami Springs	N/A	91348	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.44	FLORIDAN	4 TIMES PER YEAR	SEMI - ANNUAL
9	Rock Springs	N/A	91352	SJRWMD	NO DATA	NO DATA	NO DATA	28.76	-81.50	FLORIDAN	DAILY	DAILY
10	Silver Glen Springs	N/A	91355	SJRWMD	NO DATA	NO DATA	NO DATA	29.24	-81.64	FLORIDAN	MONTHLY	SEMI - ANNUAL
11	Silver Springs	N/A	91356	SJRWMD	NO DATA	NO DATA	NO DATA	29.21	-82.05	FLORIDAN	DAILY	DAILY
12	Sweetwater Springs	N/A	91358	SJRWMD	NO DATA	NO DATA	NO DATA	29.22	-81.66	FLORIDAN	MONTHLY	SEMI - ANNUAL
13	Wekiwa Springs	N/A	91360	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.46	FLORIDAN	DAILY	DAILY
14	L-0001	N/A	91679	SJRWMD	NO DATA	NO DATA	NO DATA	28.55	-81.77	FLORIDAN	NO DATA	DAILY
15	L-0040	N/A	91683	SJRWMD	NO DATA	NO DATA	NO DATA	29.11	-81.57	FLORIDAN	NO DATA	MONTHLY
16	L-0041	N/A	91684	SJRWMD	NO DATA	NO DATA	NO DATA	28.54	-81.91	SURFICIAL	NO DATA	DAILY
17	L-0043	N/A	91685	SJRWMD	NO DATA	NO DATA	NO DATA	28.74	-81.77	FLORIDAN	NO DATA	MONTHLY
18	L-0050	N/A	91686	SJRWMD	NO DATA	NO DATA	NO DATA	28.38	-81.74	SURFICIAL	NO DATA	MONTHLY
19	L-0052	N/A	91688	SJRWMD	NO DATA	NO DATA	NO DATA	28.53	-81.68	FLORIDAN	NO DATA	MONTHLY
20	L-0054	N/A	91690	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.89	FLORIDAN	NO DATA	DAILY
21	L-0056	N/A	91691	SJRWMD	NO DATA	NO DATA	NO DATA	28.46	-81.93	FLORIDAN	NO DATA	MONTHLY
22	L-0057	N/A	91692	SJRWMD	NO DATA	NO DATA	NO DATA	28.38	-81.82	FLORIDAN	NO DATA	MONTHLY
23	L-0059	N/A	91693	SJRWMD	NO DATA	NO DATA	NO DATA	29.01	-81.39	FLORIDAN	NO DATA	MONTHLY
24	L-0062	N/A	91694	SJRWMD	NO DATA	NO DATA	NO DATA	28.54	-81.91	FLORIDAN	NO DATA	DAILY
25	L-0096	N/A	91697	SJRWMD	NO DATA	NO DATA	NO DATA	28.69	-81.90	SURFICIAL	NO DATA	DAILY
26	L-0146	N/A	91698	SJRWMD	NO DATA	NO DATA	NO DATA	28.54	-81.66	FLORIDAN	NO DATA	SEMI - ANNUAL
27	L-0289	N/A	91700	SJRWMD	NO DATA	NO DATA	NO DATA	28.86	-81.80	SURFICIAL	NO DATA	DAILY
28	L-0322	N/A	91702	SJRWMD	NO DATA	NO DATA	NO DATA	29.25	-81.64	FLORIDAN	NO DATA	SEMI - ANNUAL
29	L-0339	N/A	91703	SJRWMD	NO DATA	NO DATA	NO DATA	28.79	-81.54	FLORIDAN	NO DATA	SEMI - ANNUAL
30	L-0373	N/A	91704	SJRWMD	NO DATA	NO DATA	NO DATA	28.88	-81.73	FLORIDAN	NO DATA	SEMI - ANNUAL
31	L-0380	N/A	91705	SJRWMD	NO DATA	NO DATA	NO DATA	28.92	-81.68	FLORIDAN	NO DATA	SEMI - ANNUAL
32	L-0390	N/A	91706	SJRWMD	NO DATA	NO DATA	NO DATA	28.97	-81.55	FLORIDAN	NO DATA	SEMI - ANNUAL
33	L-0394	N/A	91707	SJRWMD	NO DATA	NO DATA	NO DATA	29.00	-81.63	FLORIDAN	NO DATA	SEMI - ANNUAL
34	L-0460	N/A	91711	SJRWMD	NO DATA	NO DATA	NO DATA	29.17	-81.55	SURFICIAL	NO DATA	MONTHLY
35	L-0555	N/A	91712	SJRWMD	NO DATA	NO DATA	NO DATA	28.39	-81.91	FLORIDAN	NO DATA	SEMI - ANNUAL
36	L-0599	N/A	91719	SJRWMD	NO DATA	NO DATA	NO DATA	28.90	-81.79	LOWER FLORIDAN	NO DATA	DAILY
37	L-0600	N/A	91720	SJRWMD	NO DATA	NO DATA	NO DATA	28.79	-81.61	FLORIDAN	NO DATA	SEMI - ANNUAL
38	L-0620	N/A	91721	SJRWMD	NO DATA	NO DATA	NO DATA	28.90	-81.79	FLORIDAN	NO DATA	DAILY
39	L-0656	N/A	91722	SJRWMD	NO DATA	NO DATA	NO DATA	28.59	-81.86	FLORIDAN	NO DATA	SEMI - ANNUAL
40	L-0657	N/A	91723	SJRWMD	NO DATA	NO DATA	NO DATA	28.76	-81.88	FLORIDAN	NO DATA	SEMI - ANNUAL
41	L-0663	N/A	91725	SJRWMD	NO DATA	NO DATA	NO DATA	28.96	-81.65	SURFICIAL	NO DATA	DAILY
42	L-0664	N/A	91726	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.87	SURFICIAL	NO DATA	DAILY
43	L-0677	N/A	91727	SJRWMD	NO DATA	NO DATA	NO DATA	28.43	-81.72	FLORIDAN	NO DATA	DAILY
44	L-0680	N/A	91728	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.74	FLORIDAN	NO DATA	SEMI - ANNUAL
45	L-0693	N/A	91729	SJRWMD	NO DATA	NO DATA	NO DATA	28.59	-81.91	SURFICIAL	NO DATA	DAILY
46	L-0695	N/A	91730	SJRWMD	NO DATA	NO DATA	NO DATA	28.99	-81.44	SURFICIAL	NO DATA	DAILY
47	L-0696	N/A	91731	SJRWMD	NO DATA	NO DATA	NO DATA	28.95	-81.89	SURFICIAL	NO DATA	DAILY
48	L-0697	N/A	91732	SJRWMD	NO DATA	NO DATA	NO DATA	28.52	-81.84	SURFICIAL	NO DATA	DAILY
49	L-0699	N/A	91733	SJRWMD	NO DATA	NO DATA	NO DATA	28.95	-81.79	SURFICIAL	NO DATA	DAILY
50	L-0700	N/A	91734	SJRWMD	NO DATA	NO DATA	NO DATA	28.86	-81.95	SURFICIAL	NO DATA	DAILY
51	L-0701	N/A	91735	SJRWMD	NO DATA	NO DATA	NO DATA	28.84	-81.58	SURFICIAL	NO DATA	DAILY
52	L-0702	N/A	91736	SJRWMD	NO DATA	NO DATA	NO DATA	29.03	-81.56	SURFICIAL	NO DATA	DAILY
53	L-0703	N/A	91737	SJRWMD	NO DATA	NO DATA	NO DATA	28.90	-81.79	SURFICIAL	NO DATA	DAILY
54	L-0709	N/A	91738	SJRWMD	NO DATA	NO DATA	NO DATA	28.42	-81.71	FLORIDAN	NO DATA	DAILY
55	L-0710	N/A	91739	SJRWMD	NO DATA	NO DATA	NO DATA	28.42	-81.71	SURFICIAL	NO DATA	DAILY
56	L-0715	N/A	91740	SJRWMD	NO DATA	NO DATA	NO DATA	28.88	-81.48	SURFICIAL	NO DATA	MONTHLY
57	L-0716	N/A	91741	SJRWMD	NO DATA	NO DATA	NO DATA	28.88	-81.48	SURFICIAL	NO DATA	MONTHLY
58	L-0719	N/A	91742	SJRWMD	NO DATA	NO DATA	NO DATA	28.51	-81.77	FLORIDAN	NO DATA	SEMI - ANNUAL
59	L-0729	N/A	91743	SJRWMD	NO DATA	NO DATA	NO DATA	28.42	-81.71	LOWER FLORIDAN	NO DATA	DAILY
60	L-0730	N/A	91744	SJRWMD	NO DATA	NO DATA	NO DATA	28.42	-81.71	FLORIDAN	NO DATA	DAILY

Active Groundwater Hydrologic Monitoring Sites

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE
61	L-0741	N/A	91745	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.89	FLORIDAN	NO DATA	SEMI - ANNUAL
62	L-0799	N/A	91746	SJRWMD	NO DATA	NO DATA	NO DATA	28.85	-81.76	SURFICIAL	NO DATA	DAILY
63	L-0814	N/A	91747	SJRWMD	NO DATA	NO DATA	NO DATA	28.89	-81.46	SURFICIAL	NO DATA	DAILY
64	L-0815	N/A	91748	SJRWMD	NO DATA	NO DATA	NO DATA	28.89	-81.46	INTERMEDIATE	NO DATA	DAILY
65	L-0816	N/A	91749	SJRWMD	NO DATA	NO DATA	NO DATA	28.89	-81.46	FLORIDAN	NO DATA	DAILY
66	L-0817	N/A	91750	SJRWMD	NO DATA	NO DATA	NO DATA	28.89	-81.46	LOWER FLORIDAN	NO DATA	DAILY
67	L-0872	N/A	91751	SJRWMD	NO DATA	NO DATA	NO DATA	28.49	-81.67	SURFICIAL	NO DATA	MONTHLY
68	L-0877	N/A	91752	SJRWMD	NO DATA	NO DATA	NO DATA	28.36	-81.73	FLORIDAN	NO DATA	DAILY
69	L-0883	N/A	91753	SJRWMD	NO DATA	NO DATA	NO DATA	28.74	-81.87	SURFICIAL	NO DATA	MONTHLY
70	L-0884	N/A	91754	SJRWMD	NO DATA	NO DATA	NO DATA	28.74	-81.87	INTERMEDIATE	NO DATA	MONTHLY
71	L-0902	N/A	91755	SJRWMD	NO DATA	NO DATA	NO DATA	28.74	-81.87	FLORIDAN	NO DATA	MONTHLY
72	L-0904	N/A	91756	SJRWMD	NO DATA	NO DATA	NO DATA	28.74	-81.87	INTERMEDIATE	NO DATA	DAILY
73	L-0926	N/A	91757	SJRWMD	NO DATA	NO DATA	NO DATA	28.86	-81.90	SURFICIAL	NO DATA	MONTHLY
74	L-0927	N/A	91758	SJRWMD	NO DATA	NO DATA	NO DATA	28.86	-81.90	FLORIDAN	NO DATA	MONTHLY
75	M-0013	N/A	91761	SJRWMD	NO DATA	NO DATA	NO DATA	29.08	-81.88	FLORIDAN	NO DATA	MONTHLY
76	M-0020	N/A	91762	SJRWMD	NO DATA	NO DATA	NO DATA	28.99	-81.82	FLORIDAN	NO DATA	6 TIMES PER YEAR
77	M-0021	N/A	91763	SJRWMD	NO DATA	NO DATA	NO DATA	29.31	-81.69	FLORIDAN	NO DATA	MONTHLY
78	M-0049	N/A	91777	SJRWMD	NO DATA	NO DATA	NO DATA	29.17	-81.64	FLORIDAN	NO DATA	MONTHLY
79	M-0062	N/A	91781	SJRWMD	NO DATA	NO DATA	NO DATA	28.99	-81.72	FLORIDAN	NO DATA	SEMI - ANNUAL
80	M-0445	N/A	91803	SJRWMD	NO DATA	NO DATA	NO DATA	29.06	-81.94	FLORIDAN	NO DATA	DAILY
81	M-0481	N/A	91808	SJRWMD	NO DATA	NO DATA	NO DATA	28.99	-81.84	SURFICIAL	NO DATA	DAILY
82	M-0483	N/A	91809	SJRWMD	NO DATA	NO DATA	NO DATA	28.99	-81.84	FLORIDAN	NO DATA	DAILY
83	OR0064	N/A	91850	SJRWMD	NO DATA	NO DATA	NO DATA	28.37	-81.65	FLORIDAN	NO DATA	MONTHLY
84	OR0106	N/A	91853	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.58	FLORIDAN	NO DATA	MONTHLY
85	OR0107	N/A	91854	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.58	SURFICIAL	NO DATA	MONTHLY
86	OR0546	N/A	91862	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.47	INTERMEDIATE	NO DATA	DAILY
87	OR0547	N/A	91863	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.47	FLORIDAN	NO DATA	DAILY
88	OR0548	N/A	91864	SJRWMD	NO DATA	NO DATA	NO DATA	28.71	-81.47	FLORIDAN	NO DATA	DAILY
89	S-0097	N/A	91977	SJRWMD	NO DATA	NO DATA	NO DATA	28.83	-81.41	FLORIDAN	NO DATA	NO DATA
90	S-1225	N/A	91998	SJRWMD	NO DATA	NO DATA	NO DATA	28.82	-81.40	LOWER FLORIDAN	NO DATA	DAILY
91	S-1230	N/A	91999	SJRWMD	NO DATA	NO DATA	NO DATA	28.82	-81.40	FLORIDAN	NO DATA	DAILY
92	S-1284	N/A	92011	SJRWMD	NO DATA	NO DATA	NO DATA	28.80	-81.36	SURFICIAL	NO DATA	DAILY
93	S-1310	N/A	92022	SJRWMD	NO DATA	NO DATA	NO DATA	28.82	-81.40	SURFICIAL	NO DATA	DAILY
94	S-1385	N/A	92027	SJRWMD	NO DATA	NO DATA	NO DATA	28.83	-81.32	INTERMEDIATE	NO DATA	DAILY
95	S-1386	N/A	92028	SJRWMD	NO DATA	NO DATA	NO DATA	28.83	-81.32	SURFICIAL	NO DATA	DAILY
96	S-1397	N/A	92029	SJRWMD	NO DATA	NO DATA	NO DATA	28.83	-81.32	FLORIDAN	NO DATA	DAILY
97	S-1398	N/A	92030	SJRWMD	NO DATA	NO DATA	NO DATA	28.83	-81.32	FLORIDAN	NO DATA	6 TIMES PER YEAR
98	SU0002	N/A	92080	SJRWMD	NO DATA	NO DATA	NO DATA	28.36	-82.04	FLORIDAN	NO DATA	SEMI - ANNUAL
99	SU0003	N/A	92081	SJRWMD	NO DATA	NO DATA	NO DATA	28.77	-82.06	FLORIDAN	NO DATA	SEMI - ANNUAL
100	SU0006	N/A	92083	SJRWMD	NO DATA	NO DATA	NO DATA	28.91	-81.96	FLORIDAN	NO DATA	SEMI - ANNUAL
101	V-0142	N/A	92112	SJRWMD	NO DATA	NO DATA	NO DATA	29.22	-81.53	SURFICIAL	NO DATA	6 TIMES PER YEAR
102	V-0801	N/A	92174	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.20	FLORIDAN	NO DATA	MONTHLY
103	V-0818	N/A	92181	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.20	FLORIDAN	NO DATA	MONTHLY
104	V-0821	N/A	92183	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.20	SURFICIAL	NO DATA	MONTHLY
105	V-0822	N/A	92184	SJRWMD	NO DATA	NO DATA	NO DATA	28.81	-81.20	INTERMEDIATE	NO DATA	MONTHLY
106	V-0867	N/A	92190	SJRWMD	NO DATA	NO DATA	NO DATA	29.00	-81.32	FLORIDAN	NO DATA	DAILY

**Active Groundwater Hydrologic Monitoring Sites**

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE (1)
<b>COLLECTED FROM USGS</b>												
1	82513801	282543081385801	NO DATA	USGS	5/4/1977	5/22/2007	59	28.25	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
2	822149213A USGS OBSER W EVA SHALLOW AT EVA, FL.	282245081492602	NO DATA	USGS	1/11/1963	5/21/2007	282	28.22	-81.49	NO DATA	NO DATA	6 TIMES PER YEAR
3	82313702 27416 E USGS W HARTZOG LK Buena Vista, FL	282331081370801	NO DATA	USGS	2/22/1979	9/20/2006	66	28.23	-81.37	NO DATA	NO DATA	SEMI - ANNUAL
4	83213902 EDGEWATER BEACH DEEP	283232081394101	NO DATA	USGS	5/23/1968	5/16/2006	67	28.32	-81.39	NO DATA	NO DATA	20 MONTHS
5	83415901 22S23E15 JC 51 HUGH ILEY	283432081592401	NO DATA	USGS	11/3/1959	5/21/2007	85	28.34	-81.59	NO DATA	NO DATA	20 MONTHS
6	83520001 25S23E10 JC 67 FLA ROCK IND NO 2	283539082000301	NO DATA	USGS	5/1/1978	5/21/2007	59	28.35	-82.00	NO DATA	NO DATA	SEMI - ANNUAL
7	83920001 21S23E22 JC 65 U S GEOL SURVEY	283904082001601	NO DATA	USGS	2/9/1977	5/22/2007	65	28.39	-82.00	NO DATA	NO DATA	6 TIMES PER YEAR
8	842153142 20S24E34	284232081533001	NO DATA	USGS	5/23/1963	9/20/2006	106	28.42	-81.53	NO DATA	NO DATA	SEMI - ANNUAL
9	844146244 LAKE YALE GROVES WELL NR TAVARES, FL.	284445081462101	NO DATA	USGS	5/22/1963	5/23/2007	399	28.44	-81.46	NO DATA	NO DATA	9 TIMES PER YEAR
10	852143121 18S26E32 J EICHEL BERGER	285257081434201	NO DATA	USGS	5/21/1963	5/22/2007	67	28.52	-81.43	NO DATA	NO DATA	18 MONTHS
11	855140-- 18S26E14 AUSTIN GROVES	285504081405901	NO DATA	USGS	12/29/1967	5/22/2007	76	28.55	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
12	90613701 16S27E18 CAMP OCALA	290633081375201	NO DATA	USGS	5/11/1978	5/22/2007	62	29.06	-81.37	NO DATA	NO DATA	SEMI - ANNUAL
13	909134 15S27E-- ASTOR PARK	290900081342002	NO DATA	USGS	5/1/1970	5/22/2007	58	29.09	-81.34	NO DATA	NO DATA	18 MONTHS
14	91112806 15S28E14 HARPERS WELL E OF MURPHY RD	291150081282501	NO DATA	USGS	11/27/1978	5/21/2007	69	29.11	-81.28	NO DATA	NO DATA	SEMI - ANNUAL
15	91213103 4" SUPPLY WELL, SE L. GEORGE, NR EMPORIA	291258081313701	NO DATA	USGS	1/18/1978	5/21/2007	80	29.00	-81.31	NO DATA	NO DATA	SEMI - ANNUAL
16	ABANDONED FREEFLOW SR46A NR SORRENTO	284929081294901	NO DATA	USGS	5/2/1977	5/24/2007	51	28.49	-81.29	NO DATA	NO DATA	18 MONTHS
17	Astor Park Well at Astor Park, FL	290950081315501	NO DATA	USGS	1/2/1936	9/5/2007	631	29.09	-81.31	NO DATA	NO DATA	9 TIMES PER YEAR
18	BYRD TRAILER WELL NR ORANGE HOME, FL	284955081595801	NO DATA	USGS	9/4/1984	5/23/2007	34	28.49	-81.59	NO DATA	NO DATA	18 MONTHS
19	CABBAGE HAMMOCK SHALLOW L-0703 NR EMERALDA ISLAND	285359081472702	NO DATA	USGS	9/12/1997	11/16/2006	19	28.53	-81.47	NO DATA	NO DATA	SEMI - ANNUAL
20	CAMP MCQUARRIE ABANDONED DP AT CROOKED LAKE	290910081360001	NO DATA	USGS	5/3/1977	5/22/2007	66	29.09	-81.36	NO DATA	NO DATA	SEMI - ANNUAL
21	CARROT BARN FULLY SAS PROD(L-0885) AT LISBON, FL	285359081472703	NO DATA	USGS	8/4/2005	11/16/2006	27	28.53	-81.47	SAS/INT/LSAS/USAS	NO DATA	BI-WEEKLY
22	CENTRAL BAPTIST YOUTH CAMP	290052081271201	NO DATA	USGS	6/2/1994	5/24/2007	23	29.00	-81.27	NO DATA	NO DATA	18 MONTHS
23	CHURCH OF GOD OF PROPHECY	284528081530201	NO DATA	USGS	12/12/1996	5/23/2007	28	28.45	-81.53	NO DATA	NO DATA	SEMI - ANNUAL
24	CITY WELL REPLACEMENT AT CLERMONT, FL	283314081455501	NO DATA	USGS	5/17/1982	6/14/2007	187	28.33	-81.45	NO DATA	NO DATA	7 TIMES PER YEAR
25	DR PHILLIPS & SONS DP	283530081514501	NO DATA	USGS	11/21/1961	9/22/2006	70	28.35	-81.51	NO DATA	NO DATA	20 MONTHS
26	GREEN SWAMP AQUIFER TEST LK751W	282318081544003	NO DATA	USGS	5/1/1975	5/23/2007	36	28.23	-81.54	NO DATA	NO DATA	YEARLY
27	HATCHER WELL AT LAKE MIONA NR OXFORD, FL	285422082001901	NO DATA	USGS	5/24/1982	5/23/2007	51	28.54	-82.00	NO DATA	NO DATA	SEMI - ANNUAL
28	JOHNS LAKE WELL NR CLERMONT (SJ L-0052)	283128081404701	NO DATA	USGS	9/10/1985	5/21/2007	44	28.31	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
29	JUNIPER HUNT CLUB SUPPLY	291448081381601	NO DATA	USGS	5/20/1997	5/22/2007	27	29.14	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
30	KEEN RANCH NR LAKE JEM	284241081402601	NO DATA	USGS	1/31/1975	5/21/2007	59	28.42	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
31	L KNOWLES DEEP	284757081320701	NO DATA	USGS	5/14/1996	7/18/2007	30	28.47	-81.32	NO DATA	NO DATA	SEMI - ANNUAL
32	L-0051 SAND MINE RD DP WELL NR CLERMONT	282241081443901	NO DATA	USGS	11/3/1983	5/21/2007	24	28.22	-81.44	FLORIDAN	NO DATA	YEARLY
33	L-0066 OBS WELL ALEXANDER SP NR ASTOR	290451081344401	NO DATA	USGS	5/21/1997	5/22/2007	21	29.04	-81.34	FLORIDAN	NO DATA	SEMI - ANNUAL
34	L-0095 GROVELAND TOWER DEEP	284122081534401	NO DATA	USGS	9/20/1995	5/23/2007	26	28.41	-81.53	FLORIDAN	NO DATA	SEMI - ANNUAL
35	L-0199 TURNPIKE	283355081411701	NO DATA	USGS	9/14/1995	5/21/2007	26	28.33	-81.41	FLORIDAN	NO DATA	SEMI - ANNUAL
36	L-0441 USFS WELL NR ASTOR, FL	290646081314001	NO DATA	USGS	5/15/2000	5/22/2007	15	29.06	-81.31	FLORIDAN	NO DATA	SEMI - ANNUAL
37	L-0455 ASTOR 150 CF	291002081330601	NO DATA	USGS	5/23/1996	5/22/2007	24	29.10	-81.33	FLORIDAN	NO DATA	SEMI - ANNUAL
38	L-0456 ALEXANDER SPS SH	290647081342102	NO DATA	USGS	10/23/1991	5/22/2007	10	29.06	-81.34	SURFICIAL	NO DATA	BIANNUAL
39	L-0658 CITY OF MONTVERDE	283608081403001	NO DATA	USGS	5/23/1997	5/21/2007	34	28.36	-81.40	FLORIDAN	NO DATA	3 TIMES A YEAR
40	Lake George Well near Salt Springs, FL	291849081411401	NO DATA	USGS	9/14/1982	5/24/2007	285	29.18	-81.41	NO DATA	NO DATA	MONTHLY
41	LAKE OLIVER DEEP WELL NEAR VINELAND, FL	282202081384601	NO DATA	USGS	2/9/1962	8/28/2007	384	28.22	-81.38	NO DATA	NO DATA	6 TIMES PER YEAR
42	LAKE OLIVER SHALLOW WELL NEAR VINELAND, FL	282202081384602	NO DATA	USGS	2/10/1959	8/28/2007	344	28.22	-81.38	NO DATA	NO DATA	6 TIMES PER YEAR
43	LCFD DIST.9 STATION 1	283019081455701	NO DATA	USGS	5/19/1995	5/21/2007	33	28.30	-81.45	NO DATA	NO DATA	SEMI - ANNUAL
44	LOWER WEKIVA R 4" FREEFLO	285810081234101	NO DATA	USGS	1/28/1998	5/24/2007	24	28.58	-81.23	NO DATA	NO DATA	SEMI - ANNUAL
45	LOWES BURNED HOUSE WELL NR ADAMSVILLE, FL	284703082001701	NO DATA	USGS	12/17/1981	9/20/2006	46	28.47	-82.00	NO DATA	NO DATA	20 MONTHS
46	M-0467 LAKE WEIR MIDDLE SCHOOL NR LADY LAKE, FL	285953081590101	NO DATA	USGS	9/24/2001	5/22/2007	12	28.59	-81.59	NO DATA	NO DATA	SEMI - ANNUAL
47	OCALA NF 4IN SHALLOW WELL (M-0413)	291751081414301	NO DATA	USGS	5/14/1997	5/24/2007	25	29.17	-81.41	NO DATA	NO DATA	SEMI - ANNUAL
48	OCALA NF4" NR ALEX. SPGS. CR BOAT LANDING	290244081302601	NO DATA	USGS	8/23/1968	5/22/2007	75	29.02	-81.30	NO DATA	NO DATA	SEMI - ANNUAL
49	PAUL SHOKLEY AT PAISLEY	285827081331401	NO DATA	USGS	9/21/1967	5/22/2007	77	28.58	-81.33	NO DATA	NO DATA	SEMI - ANNUAL
50	PINE LAKES WELL ON SR 44	285539081262901	NO DATA	USGS	9/22/1981	5/24/2007	67	28.55	-81.26	NO DATA	NO DATA	SEMI - ANNUAL
51	PITTMAN WORK CENTER ABANDONED NR ALTOONA, FL	290000081380001	NO DATA	USGS	3/28/1961	5/22/2007	118	29.00	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
52	PONDEROSA CLUB FREEFLOW	291728081390501	NO DATA	USGS	4/26/1979	5/24/2007	60	29.17	-81.39	NO DATA	NO DATA	SEMI - ANNUAL
53	S-1230 YANKEE LAKE	284923081234802	NO DATA	USGS	1996-05-00	5/24/2007	42	28.49	-81.23	NO DATA	NO DATA	QUARTERLY
54	SJR DEEP NR CABBAGE HAMMOCK L-0620	285357081472801	NO DATA	USGS	9/12/1997	5/22/2007	57	28.53	-81.47	NO DATA	NO DATA	6 TIMES PER YEAR
55	SMITH WELL NO.2 NR CHERRY LAKE, FL	285420081571901	NO DATA	USGS	5/17/1984	5/23/2007	47	28.54	-81.57	NO DATA	NO DATA	SEMI - ANNUAL
56	STUART RANCH 6IN AG WELL	284106081594001	NO DATA	USGS	9/16/1998	5/22/2007	14	28.41	-81.59	NO DATA	NO DATA	15 MONTHS
57	STUART RANCH REPLACEMENT NR CENTER HILL	284105081594301	NO DATA	USGS	9/16/1998	9/19/2006	13	28.41	-81.59	NO DATA	NO DATA	15 MONTHS
58	USGS WELL, 2MI N ALEX SPGS, ALTOONA	290647081342101	NO DATA	USGS	5/18/1982	9/19/2006	115	29.06	-81.34	NO DATA	NO DATA	6 TIMES PER YEAR
59	V-0083 BLUE SPGS WELL SOUTH, ORANGE CITY, FL	285638081203101	NO DATA	USGS	9/4/1981	5/21/2007	21	28.56	-81.20	FLORIDAN	NO DATA	20 MONTHS

**Active Groundwater Hydrologic Monitoring Sites**

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE (1)
60	V-0115 USGS J-24 TEST WELL,W.OF DELAND	290138081203202	NO DATA	USGS	1/3/1967	5/21/2007	96	29.01	-81.20	FLORIDAN	NO DATA	SEMI - ANNUAL
61	V-0196 ORANGE CITY TWR DEEP	285442081181401	NO DATA	USGS	5/19/1997	5/21/2007	21	28.54	-81.18	NO DATA	NO DATA	SEMI - ANNUAL
62	V-1091 WELL SO OF BLUE SPRINGS NR DEBARY,FL	285513081202801	NO DATA	USGS	9/12/2000	5/21/2007	20	28.55	-81.20	FLORIDAN	NO DATA	QUARTERLY
63	WELL SR42 WEST OF ALTOONA, FL	285930081430901	NO DATA	USGS	5/17/1985	5/22/2007	48	28.59	-81.43	NO DATA	NO DATA	SEMI - ANNUAL
64	WOLF SINK OBSERVATION WELL NR SORRENTO	284725081361901	NO DATA	USGS	10/16/1992	5/24/2007	41	28.47	-81.36	NO DATA	NO DATA	SEMI - ANNUAL

(1) Frequency assumed based on period of record and number of records.

Active Groundwater Hydrologic Monitoring Sites

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE <sup>(1)</sup>
<b>COLLECTED FROM SWFWMD</b>												
1	EVA WELL DEEP	282245081492601	436	USGS	1/30/1959	8/27/2007	1704	28.22	-81.49	FLORIDAN	NO DATA	MONTHLY
2	GREEN SWAMP 1 UPL SURF	NO DATA	17398	SWFWMD	7/30/1999	8/29/2007	91	28.21	-81.56	SURFICIAL	NO DATA	MONTHLY
3	GREEN SWAMP 1 WTL SURF	NO DATA	1987	SWFWMD	11/15/2001	8/29/2007	1513	28.21	-81.56	SURFICIAL	NO DATA	DAILY
4	GREEN SWAMP 2 UPL SURF	NO DATA	17399	SWFWMD	7/30/1999	8/29/2007	87	28.22	-81.56	SURFICIAL	NO DATA	MONTHLY
5	GREEN SWAMP 3 UPL SURF	NO DATA	17400	SWFWMD	7/30/1999	8/29/2007	90	28.22	-81.55	SURFICIAL	NO DATA	MONTHLY
6	GREEN SWAMP 4 UPL SURF	NO DATA	17401	SWFWMD	7/30/1999	8/29/2007	89	28.23	-81.55	SURFICIAL	NO DATA	MONTHLY
7	GREEN SWAMP 5 UPL SURF	NO DATA	17402	SWFWMD	7/30/1999	8/29/2007	91	28.24	-81.57	SURFICIAL	NO DATA	MONTHLY
8	GREEN SWAMP 6 UPL SURF	NO DATA	17403	SWFWMD	7/30/1999	8/29/2007	91	28.23	-81.58	SURFICIAL	NO DATA	MONTHLY
9	GREEN SWAMP BAY UPL SURF	NO DATA	1851	SWFWMD	8/25/2000	8/29/2007	80	28.25	-81.57	SURFICIAL	NO DATA	MONTHLY
10	GREEN SWAMP BAY WTL SURF	NO DATA	1995	SWFWMD	5/16/2001	8/29/2007	1361	28.25	-81.57	SURFICIAL	NO DATA	DAILY
11	GREEN SWAMP L12B DEEP	282740082012101	686	USGS	9/6/1973	8/27/2007	694	28.74	-82.01	FLORIDAN	NO DATA	MONTHLY
12	GREEN SWAMP L12B SHALLOW	282740082012102	687	USGS	9/6/1973	8/27/2007	727	28.27	-82.01	SURFICIAL	NO DATA	MONTHLY
13	GREEN SWAMP RIV UPL SURF	NO DATA	1784	SWFWMD	8/25/2000	8/29/2007	80	28.23	-81.59	SURFICIAL	NO DATA	MONTHLY
14	GREEN SWAMP WET PRA UPL S	NO DATA	1783	SWFWMD	8/25/2000	8/29/2007	80	28.19	-81.58	SURFICIAL	NO DATA	MONTHLY
15	GREEN SWP DOME 7 WTL SURF	NO DATA	1993	SWFWMD	7/3/2002	8/29/2007	67	28.19	-81.54	SURFICIAL	NO DATA	MONTHLY
16	MASCOTTE DEEP	283204081544901	173	USGS	1/27/1959	8/27/2007	16097	28.32	-81.54	FLORIDAN	NO DATA	NO DATA
17	MASCOTTE SHALLOW	283204081544902	1337	USGS	1/28/1959	1/19/2005	15299	28.32	-81.54	SURFICIAL	NO DATA	NO DATA
18	ROMP 101 6-IN SURF	NO DATA	917	SWFWMD	5/29/2004	8/13/2007	344	28.27	-81.55	SURFICIAL	NO DATA	DAILY
19	ROMP 101 AVPK	282717081553101	651	USGS	7/7/1977	8/13/2007	10590	28.27	-81.55	FLORIDAN	NO DATA	DAILY
20	ROMP 88 AVPK	281837081544101	10754	USGS	6/5/1990	8/29/2007	5961	28.18	-81.54	FLORIDAN	NO DATA	DAILY
21	ROMP 89 OCAL	282127082022501	424	USGS	3/27/1959	8/27/2007	20319	28.21	-82.02	FLORIDAN	NO DATA	DAILY
22	THE VILLAGES PERM SURF	NO DATA	2383	SWFWMD	3/25/2004	8/14/2007	42	28.56	-82.00	SURFICIAL	NO DATA	MONTHLY
23	THE VILLAGES PERM UFA FLDN	NO DATA	2384	SWFWMD	3/25/2004	8/14/2007	42	28.56	-82.00	FLORIDAN	NO DATA	MONTHLY
24	WSF GREEN SWAMP FLDN	282741081585701	542	USGS	7/21/1959	9/19/2005	328	28.27	-81.58	FLORIDAN	NO DATA	NO DATA

(1) Frequency assumed based on period of record and number of records.

# APPENDIX B

Active SJRWMD Surface Water Hydrologic Monitoring Sites

MAP ID	STATION NAME	SJRWMD SITE NUMBER <sup>(1)</sup>	DATA SOURCE	DISCHARGE DATA			STAGE DATA			LOCATION		PARAMETER	FREQUENCY	
				DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE <sup>(1)</sup>
<b>COLLECTED FROM SJRWMD <sup>(2)</sup></b>														
1	Lake Apopka MFW B1 In at Astatula (WL)	18473764	SJRWMD	NO DATA	NO DATA	NO DATA	8/5/2003	9/24/2007	1514	28.67	-81.71	STAGE	NO DATA	HOURLY
2	Lake Apopka MFW B2 In at Astatula (WL)	18483766	SJRWMD	2/15/2005	9/25/2007	NO DATA	8/7/2003	9/24/2007	512	28.67	-81.69	STAGE	NO DATA	HOURLY
3	Lake Apopka MFW C1 In at Astatula (WL)	18493768	SJRWMD	NO DATA	NO DATA	NO DATA	8/5/2003	9/24/2007	NO DATA	28.68	-81.70	STAGE	NO DATA	NO DATA
4	Lake Apopka MFW C2 In at Astatula (WL)	18503770	SJRWMD	2/16/2005	9/25/2007	NO DATA	8/8/2003	9/24/2007	1511	28.68	-81.69	STAGE	NO DATA	HOURLY
5	L-0599 Carrot Barn at Griffin Flow-way (WL) LFA	03264226	SJRWMD	NO DATA	NO DATA	NO DATA	6/30/2004	9/24/2007	NO DATA	28.90	-81.79	STAGE	NO DATA	NO DATA
6	Lake Apopka MFW C1 TW Out at Astatula (WL)	15184291	SJRWMD	NO DATA	NO DATA	NO DATA	2/9/2005	9/24/2007	960	28.68	-81.69	STAGE	NO DATA	HOURLY
7	Lake Apopka MFW B1 TW Out at Astatula (WL)	15154293	SJRWMD	NO DATA	NO DATA	NO DATA	2/9/2005	9/24/2007	960	28.67	-81.69	STAGE	NO DATA	HOURLY
8	Lake Apopka MFW C2 TW Out at Astatula (WL)	15194292	SJRWMD	NO DATA	NO DATA	NO DATA	2/9/2005	9/24/2007	960	28.68	-81.68	STAGE	NO DATA	HOURLY
9	L-0872 Eva Tower at Groveland (WL) SF	19534471	SJRWMD	NO DATA	NO DATA	NO DATA	2/14/2006	9/24/2007	514	28.47	-81.83	STAGE	NO DATA	HOURLY
10	L-0883 Palatlahaha Dam M1 at Hawthorne CDP (WL) SF	19784572	SJRWMD	NO DATA	NO DATA	NO DATA	12/13/2005	9/24/2007	650	28.74	-81.87	STAGE	NO DATA	HOURLY
11	L-0884 Palatlahaha Dam M1 at Hawthorne CDP (WL) IM	19784573	SJRWMD	NO DATA	NO DATA	NO DATA	12/13/2005	9/24/2007	650	28.74	-81.87	STAGE	NO DATA	HOURLY
12	L-0902 Palatlahaha Dam M1 at Hawthorne CDP (WL) FA	19784574	SJRWMD	NO DATA	NO DATA	NO DATA	12/13/2005	9/24/2007	650	28.74	-81.87	STAGE	NO DATA	HOURLY
13	L-0904 Palatlahaha Dam M1 at Hawthorne CDP (WL) IM	19784575	SJRWMD	NO DATA	NO DATA	NO DATA	12/13/2005	9/24/2007	650	28.74	-81.87	STAGE	NO DATA	HOURLY
14	L-0926 Lake Griffin State Park at Leesburg (WL) SF	27354791	SJRWMD	NO DATA	NO DATA	NO DATA	4/20/2007	9/24/2007	159	28.86	-81.90	STAGE	NO DATA	HOURLY
15	L-0927 Lake Griffin State Park at Leesburg (WL) SF	27354792	SJRWMD	NO DATA	NO DATA	NO DATA	4/20/2007	9/24/2007	159	28.86	-81.90	STAGE	NO DATA	HOURLY
16	L-0924 Leesburg WWTF at Leesburg (WL) FA	27364793	SJRWMD	NO DATA	NO DATA	NO DATA	1/23/2007	9/24/2007	NO DATA	28.75	-81.93	STAGE	NO DATA	NO DATA
17	L-0874 Leesburg WWTF at Leesburg (WL) SF	27364896	SJRWMD	NO DATA	NO DATA	NO DATA	4/2/2007	9/24/2007	39	28.75	-81.93	STAGE	NO DATA	HOURLY
18	L-0929 Lake Norris Wells at Paisley (WL) SF	19414939	SJRWMD	NO DATA	NO DATA	NO DATA	NO DATA	9/24/2007	NO DATA	28.92	-81.57	STAGE	NO DATA	NO DATA
19	L-0930 Lake Norris Wells at Paisley (WL) IM	19414940	SJRWMD	NO DATA	NO DATA	NO DATA	NO DATA	9/24/2007	NO DATA	28.92	-81.57	STAGE	NO DATA	NO DATA
20	L-0935 Lake Norris Wells at Paisley (WL) UFA	19414941	SJRWMD	NO DATA	NO DATA	NO DATA	NO DATA	9/24/2007	NO DATA	28.92	-81.57	STAGE	NO DATA	NO DATA
21	L-0051 Horsehead Pond (WL) FA	05170969	SJRWMD	NO DATA	NO DATA	NO DATA	11/10/2005	9/24/2007	686	28.38	-81.74	STAGE	NO DATA	HOURLY
22	L-0050 Horsehead Pond (WL) SF	05170970	SJRWMD	NO DATA	NO DATA	NO DATA	11/10/2005	9/24/2007	686	28.38	-81.74	STAGE	NO DATA	HOURLY
23	L-0199 Turnpike (WL) FA	38003797	SJRWMD	NO DATA	NO DATA	NO DATA	1/1/1990	9/24/2007	6477	28.57	-81.69	STAGE	NO DATA	HOURLY
24	Griffin Flow-way Site Q West (WL)	60326049	SJRWMD	NO DATA	NO DATA	NO DATA	6/14/1996	9/24/2007	4121	28.91	-81.83	STAGE	NO DATA	HOURLY
25	L-0095 Groveland Fire Tower at Groveland (WL) FA	70271001	SJRWMD	NO DATA	NO DATA	NO DATA	6/14/1996	9/24/2007	NO DATA	28.69	-81.90	STAGE	NO DATA	NO DATA
26	L-0096 Groveland Fire Tower at Groveland Deep (WL)	70271002	SJRWMD	NO DATA	NO DATA	NO DATA	8/22/1989	9/24/2007	6610	28.69	-81.90	STAGE	NO DATA	HOURLY
27	L-0043 Lake Yale Groves (WL) FA	05401025	SJRWMD	NO DATA	NO DATA	NO DATA	12/9/2005	9/24/2007	654	28.74	-81.77	STAGE	NO DATA	HOURLY
28	Griffin Flow-way Cell T at T-J Levee (WL)	30113070	SJRWMD	NO DATA	NO DATA	NO DATA	3/25/1994	9/24/2007	4934	28.90	-81.82	STAGE	NO DATA	HOURLY
29	Lake Dora at Mount Dora (WL)	30013010	SJRWMD	NO DATA	NO DATA	NO DATA	2/10/1994	9/24/2007	4977	28.80	-81.64	STAGE	NO DATA	HOURLY
30	Lake Eustis at Eustis (WL)	30083018	SJRWMD	NO DATA	NO DATA	NO DATA	11/15/1993	9/24/2007	5064	28.85	-81.69	STAGE	NO DATA	HOURLY
31	Black Water Creek at DeBary (WL)	30143084	SJRWMD	8/15/1991	9/25/2007	2250	10/4/1990	9/24/2007	2250	28.86	-81.44	DISCHARGE/STAGE	2 TIMES PER WEEK	HOURLY
32	Lake Griffin at Leesburg (WL)	30023014	SJRWMD	NO DATA	NO DATA	NO DATA	2/21/1994	9/24/2007	NO DATA	28.86	-81.89	STAGE	NO DATA	HOURLY
33	L-0620 Carrot Barn at Griffin Flow-way (WL) FA	03260331	SJRWMD	NO DATA	NO DATA	NO DATA	3/23/1999	9/24/2007	3110	28.90	-81.79	STAGE	NO DATA	HOURLY
34	L-0059 Crows Bluff NFS (WL) FA	05791087	SJRWMD	NO DATA	NO DATA	NO DATA	4/29/2005	9/24/2007	NO DATA	29.01	-81.39	STAGE	NO DATA	NO DATA
35	Lake Harris at Leesburg (WL)	30053040	SJRWMD	NO DATA	NO DATA	NO DATA	7/16/1995	9/24/2007	5186	28.81	-81.82	STAGE	NO DATA	HOURLY
36	L-0677 Lake Louisa State Park at Clermont (WL) FA	00660060	SJRWMD	NO DATA	NO DATA	NO DATA	1/3/2008	9/24/2007	246	28.43	-81.72	STAGE	NO DATA	HOURLY
37	L-0709 Smokehouse Lake at Clermont (WL) FA	01840090	SJRWMD	NO DATA	NO DATA	NO DATA	6/11/1998	9/24/2007	3392	28.42	-81.71	STAGE	NO DATA	HOURLY
38	L-0710 Smokehouse Lake at Clermont (WL) SF	01840092	SJRWMD	NO DATA	NO DATA	NO DATA	6/11/1998	9/24/2007	3392	28.42	-81.71	STAGE	NO DATA	HOURLY
39	L-0715 Seminole State Forest at Cassia (WL) IM	11512184	SJRWMD	NO DATA	NO DATA	NO DATA	8/10/2004	9/24/2007	1143	28.88	-81.48	STAGE	NO DATA	HOURLY
40	L-0716 Seminole State Forest at Cassia (WL) SF	11512185	SJRWMD	NO DATA	NO DATA	NO DATA	8/10/2004	9/24/2007	1143	28.88	-81.48	STAGE	NO DATA	HOURLY
41	L-0289 Leesburg Fire Tower at Burle L/D (WL) SF	03190341	SJRWMD	NO DATA	NO DATA	NO DATA	2/24/1999	9/24/2007	3137	28.86	-81.80	STAGE	NO DATA	HOURLY
42	L-0290 Leesburg Fire Tower at Burle L/D (WL) FA	03190329	SJRWMD	NO DATA	NO DATA	NO DATA	2/24/1999	9/24/2007	3137	28.86	-81.80	STAGE	NO DATA	HOURLY
43	L-0703 Carrot Barn at Griffin Flow-way (WL) SF	03260330	SJRWMD	NO DATA	NO DATA	NO DATA	4/27/1999	9/24/2007	3075	28.90	-81.79	STAGE	NO DATA	HOURLY
44	Griffin Flow-way Site Q East (WL)	60326050	SJRWMD	NO DATA	NO DATA	NO DATA	6/14/1996	9/24/2007	4122	28.91	-81.83	STAGE	NO DATA	HOURLY
45	Lowrie Brown Staff at Pump House (WL)	14482662	SJRWMD	NO DATA	NO DATA	NO DATA	NO DATA	9/24/2007	NO DATA	28.88	-81.83	STAGE	NO DATA	NO DATA
46	Eustis Muck Farm Area 7 at EMCA (WL)	14522667	SJRWMD	NO DATA	NO DATA	NO DATA	4/12/2001	9/24/2007	2358	28.92	-81.78	STAGE	NO DATA	HOURLY
47	Long Farm Area 5 at EMCA (WL)	14532668	SJRWMD	NO DATA	NO DATA	NO DATA	4/10/2001	9/24/2007	2360	28.92	-81.79	STAGE	NO DATA	HOURLY
48	L-0729 Keene Lake Wells at Clermont (WL) LFA	03242753	SJRWMD	NO DATA	NO DATA	NO DATA	9/28/2000	9/24/2007	2552	28.42	-81.71	STAGE	NO DATA	HOURLY
49	L-0730 Keene Lake Wells at Clermont (WL) FA	03242755	SJRWMD	NO DATA	NO DATA	NO DATA	9/28/2000	9/24/2007	2552	28.42	-81.71	STAGE	NO DATA	HOURLY
50	Griffin Flow-way Cell Z at T-J Levee (WL)	30110356	SJRWMD	NO DATA	NO DATA	NO DATA	2/14/2000	9/24/2007	2477	28.90	-81.82	STAGE	NO DATA	HOURLY
51	Griffin Flow-way Site K at North South Levee (WL)	14923004	SJRWMD	NO DATA	NO DATA	NO DATA	1/24/2001	9/24/2007	2463	28.90	-81.81	STAGE	NO DATA	HOURLY
52	Lake Apopka MFW B1 Out at Astatula (WL)	15153063	SJRWMD	NO DATA	NO DATA	NO DATA	7/1/2003	9/24/2007	1548	28.67	-81.69	STAGE	NO DATA	HOURLY
53	Lake Apopka MFW B2 Out at Astatula (WL)	15173144	SJRWMD	NO DATA	NO DATA	NO DATA	7/1/2003	9/24/2007	1548	28.67	-81.68	STAGE	NO DATA	HOURLY
54	Lake Apopka MFW C1 Out at Astatula (WL)	15183152	SJRWMD	5/15/2005	9/25/2007	NO DATA	7/1/2003	9/24/2007	1548	28.68	-81.69	STAGE	NO DATA	HOURLY
55	Lake Apopka MFW C2 Out at Astatula (WL)	15193158	SJRWMD	2/16/2005	9/25/2007	NO DATA	7/1/2003	9/24/2007	1548	28.68	-81.68	STAGE	NO DATA	HOURLY
56	Griffin Flow-way Area 3 Site P at EMCA (WL)	15143120	SJRWMD	2/15/2005	9/25/2007	NO DATA	4/26/2001	9/24/2007	2345	28.91	-81.81	STAGE	NO DATA	HOURLY
57	Ashley Farm Area 1 at EMCA (WL)	15483126	SJRWMD	NO DATA	NO DATA	NO DATA	5/8/2003	9/24/2007	1603	28.94	-81.82	STAGE	NO DATA	HOURLY
58	L-0658 Montverde (WL) FA	08163016	SJRWMD	NO DATA	NO DATA	NO DATA	4/25/2007	9/24/2007	NO DATA	28.60	-81.67	STAGE	NO DATA	NO DATA
59	L-0815 Seminole New at Cassia (WL) IM	17043378	SJRWMD	NO DATA	NO DATA	NO DATA	11/21/2002	9/24/2007	1769	28.89	-81.46	STAGE	NO DATA	HOURLY
60	L-0814 Seminole New at Cassia (WL) SF	17043379	SJRWMD	NO DATA	NO DATA	NO DATA	11/21/2002	9/24/2007	1769	28.89	-81.46	STAGE	NO DATA	HOURLY
61	L-0816 Seminole New at Cassia (WL) FA	17043609	SJRWMD	NO DATA	NO DATA	NO DATA	11/21/2002	9/24/2007	1769	28.89	-81.46	STAGE	NO DATA	HOURLY
62	L-0817 Seminole New at Cassia (WL) LFA	17043610	SJRWMD	NO DATA	NO DATA	NO DATA	11/21/2002	9/24/2007	1769	28.89	-81.46	STAGE	NO DATA	HOURLY
63	Griffin Flow-way U (WL)	17923640	SJRWMD	NO DATA	NO DATA	NO DATA	12/4/2002	9/24/2007	1758	28.88	-81.81	STAGE	NO DATA	HOURLY
64	Cabbage Hammock West Area 5 at EMCA (WL)	18383737	SJRWMD	NO DATA	NO DATA	NO DATA	3/6/2003	9/24/2007	1666	28.91	-81.80	STAGE	NO DATA	HOURLY
65	Lake Apopka MFW Pump 1 at Astatula (WL)	18413756	SJRWMD	NO DATA	NO DATA	NO DATA	8/10/2003	9/24/2007	1508	28.67	-81.68	STAGE	NO DATA	HOURLY

(1) Hourly data is collected in real time. Long term records are stored daily.  
(2) Paired surface water and groundwater monitoring locations are included.

Active USGS and Lake County Water Atlas Surface Water Hydrologic Monitoring Sites

MAP ID	STATION NAME	SITE NUMBER	DATA SOURCE	DISCHARGE DATA			STAGE DATA			LOCATION		PARAMETER	FREQUENCY <sup>(1)</sup>	
				DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE
<b>COLLECTED FROM LAKE COUNTY WATER ATLAS</b>														
1	Apopka	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	14.09	-81.40	NO DATA	NO DATA	NO DATA
2	Beauclair	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	14.60	-81.52	NO DATA	NO DATA	NO DATA
3	Carlton	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	14.56	-81.51	NO DATA	NO DATA	NO DATA
4	Mac	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	13.29	-81.49	NO DATA	NO DATA	NO DATA
5	Needham	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	13.52	-81.50	NO DATA	NO DATA	NO DATA
6	Neighborhood	NO DATA	ORANGE CO	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	14.64	-81.11	NO DATA	NO DATA	NO DATA
7	BLACKWATER CREEK NEAR CASSIA, FL	02235200	USGS	9/23/1962	9/26/2007	9773	9/23/1962	9/26/2007	9412	14.94	-81.00	DISCHARGE/STAGE	4 TIMES PER WEEK	DAILY
8	BIG CREEK NR CLERMONT, FLA.	02236500	USGS	8/1/1958	9/26/2007	17228	8/1/1958	9/26/2007	17954	13.53	-81.76	DISCHARGE/STAGE	DAILY	DAILY
9	LITTLE CREEK NR CLERMONT, FLA.	02236700	USGS	1/7/1979	9/26/2007	9363	1/7/1979	9/26/2007	9363	13.58	-81.81	DISCHARGE/STAGE	DAILY	DAILY
10	LAKE MINNEHAHA AT CLERMONT, FLA.	02236840	USGS	1/10/1946	9/26/2007	20599	1/10/1946	9/26/2007	20887	14.93	-81.87	DISCHARGE/STAGE	DAILY	DAILY
11	PALATLAKAHA R AT CHERRY LK OUT NR GROVELAND, FLA	02236900	USGS	1/3/1957	9/26/2007	17544	1/3/1957	9/26/2007	17873	13.85	-81.89	DISCHARGE/STAGE	DAILY	DAILY
12	PALATLAKAHA R BL SPWY AT CH LK OUT NR GRV., FLA.	02236901	USGS	1/8/1957	9/26/2007	17120	1/8/1957	9/26/2007	17454	14.01	-82.00	DISCHARGE/STAGE	DAILY	DAILY
13	PALATLAKAHA RIVER NR MASCOTTE, FLA.	02237000	USGS	5/30/1945	9/26/2007	17122	5/31/1945	9/26/2007	17473	15.14	-81.68	DISCHARGE/STAGE	5 TIMES PER WEEK	DAILY
14	PALATLAKAHA RIVER BELOW SPWY, NR MASCOTTE, FLA.	02237001	USGS	1/4/1964	9/26/2007	12964	1/4/1964	9/26/2007	13269	13.54	-81.69	DISCHARGE/STAGE	DAILY	DAILY
15	PALATLAKAHA R AT M-6 NR MASCOTTE, FL.	02237010	USGS	5/29/1981	9/26/2007	8058	5/29/1981	9/26/2007	8399	14.01	-82.00	DISCHARGE/STAGE	DAILY	DAILY
16	PALATLAKAHA R. BELOW M-6 NR.MASCOTTE, FL.	02237011	USGS	5/29/1981	9/26/2007	8408	5/29/1981	9/26/2007	8763	14.09	-82.12	DISCHARGE/STAGE	DAILY	DAILY
17	PALATLAKAHA R. AT M-5 NR.OKAHUMPKA, FL.	02237050	USGS	5/31/1981	9/26/2007	8647	5/31/1981	9/26/2007	8991	14.09	-82.13	DISCHARGE/STAGE	DAILY	DAILY
18	PALATLAKAHA R. BELOW M-5 NR.OKAHUMPKA, FL.	02237051	USGS	5/28/1981	9/26/2007	8917	5/28/1981	9/26/2007	9261	15.07	-82.21	DISCHARGE/STAGE	DAILY	DAILY
19	PALATLAKAHA R.AT M-4 NR OKAHUMPKA, FL	02237206	USGS	6/19/1981	9/26/2007	9105	6/19/1981	9/26/2007	9426	14.18	-82.15	DISCHARGE/STAGE	DAILY	DAILY
20	PALATLAKAHA R. BELOW M-4 NR.OKAHUMPKA, FL.	02237207	USGS	5/28/1981	9/26/2007	8967	5/28/1981	9/26/2007	9317	14.18	-82.15	DISCHARGE/STAGE	DAILY	DAILY
21	PALATLAKAHA R AT STRUCT M-1, NR OKAHUMPKA, FLA.	02237293	USGS	1/1/1970	9/26/2007	13017	1/1/1970	9/26/2007	13214	14.29	-82.18	DISCHARGE/STAGE	DAILY	DAILY
22	CHURCH LAKE NR GROVELAND, FLA.	02237370	USGS	NO DATA	9/26/2007	NO DATA	3/13/1970	9/26/2007	1840	14.30	-82.18	DISCHARGE/STAGE	NO DATA	DAILY
23	WEST CROOKED LAKE NR EUSTIS, FLA.	02237753	USGS	NO DATA	9/26/2007	NO DATA	2/19/1970	9/26/2007	1911	14.41	-82.18	DISCHARGE/STAGE	NO DATA	DAILY
24	LAKE UMATILLA AT UMATILLA, FLA.	02237865	USGS	NO DATA	9/26/2007	NO DATA	3/6/1970	9/26/2007	2110	14.41	-82.18	DISCHARGE/STAGE	NO DATA	DAILY
25	HAINES CREEK AT LISBON, FLA.	02238000	USGS	7/1/1942	9/26/2007	23050	7/1/1942	9/26/2007	23411	14.51	-82.15	DISCHARGE/STAGE	DAILY	DAILY
26	HAINES CREEK BELOW BURRELL DAM AT LISBON, FLA.	02238001	USGS	3/6/1957	9/26/2007	17296	3/6/1957	9/26/2007	17655	14.18	-82.07	DISCHARGE/STAGE	DAILY	DAILY
27	HOLLY LAKE NEAR UMATILLA, FLA.	02238180	USGS	NO DATA	9/26/2007	NO DATA	10/12/1967	6/30/2007	1583	14.79	-81.55	DISCHARGE/STAGE	NO DATA	DAILY
28	TROUT LAKE NR CLERMONT, FLA.	02266239	USGS	NO DATA	9/26/2007	NO DATA	3/16/1970	8/28/2007	2026	15.08	-81.52	DISCHARGE/STAGE	NO DATA	DAILY
29	LADY LAKE NR LADY LAKE, FLA.	02312694	USGS	NO DATA	9/26/2007	NO DATA	8/4/1968	2/14/2007	247	14.92	-81.88	DISCHARGE/STAGE	NO DATA	DAILY
<b>COLLECTED FROM USGS</b>														
30	ECONLOCKHATCHEE RIVER NEAR OVIEDO, FL	2233484	USGS	12/4/2001	8/30/2007	2096	9/5/2002	10/26/2005	5	28.66	-81.17	DISCHARGE/STAGE	DAILY	YEARLY
31	ECONLOCKHATCHEE RIVER NEAR CHULUOTA, FL	2233500	USGS	10/1/1935	8/30/2007	26174	3/13/1936	10/26/2005	63	28.68	-81.11	DISCHARGE/STAGE	DAILY	YEARLY
32	ST. JOHNS RIVER AT OSCEOLA, FL	2234010	USGS	2/17/2005	9/30/2006	591	11/4/2005	11/4/2005	1	28.79	-81.06	DISCHARGE/STAGE	DAILY	YEARLY
33	LAKE JESUP OUTLET NEAR SANFORD, FL	2234435	USGS	1/16/1993	8/29/2007	4815	3/20/1998	6/13/2006	9	28.78	-81.18	DISCHARGE/STAGE	DAILY	YEARLY
34	ST. JOHNS RIVER AT STATE HWY 415 NEAR SANFORD, FL	2234440	USGS	1/18/2005	9/30/2006	621	11/4/2005	11/4/2005	1	28.80	-81.21	DISCHARGE/STAGE	DAILY	YEARLY
35	ST. JOHNS RIVER NEAR SANFORD, FL	2234500	USGS	5/1/1987	8/30/2007	5447	12/7/1987	11/8/2005	12	28.84	-81.32	DISCHARGE/STAGE	5 TIMES PER WEEK	YEARLY
36	WEKIVA RIVER NEAR SANFORD, FL	2235000	USGS	10/1/1935	8/30/2007	26267	6/5/1936	10/26/2005	71	28.82	-81.42	DISCHARGE/STAGE	DAILY	YEARLY
37	BLUE SPRINGS NEAR ORANGE CITY, FL	2235500	USGS	12/8/2001	8/30/2007	1865	11/28/1998	12/1/2005	6	28.94	-81.34	DISCHARGE/STAGE	DAILY	YEARLY
38	ST. JOHNS RIVER NEAR DELAND, FL	2236000	USGS	10/1/1933	8/30/2007	26996	7/5/1934	11/8/2005	73	29.01	-81.38	DISCHARGE/STAGE	DAILY	YEARLY
39	ST. JOHNS RIVER AT ASTOR, FL	2236125	USGS	2/10/1994	8/30/2007	4772	11/23/1994	11/24/2005	12	29.17	-81.52	DISCHARGE/STAGE	DAILY	YEARLY
40	SILVER GLEN SPRINGS NEAR ASTOR, FL	2236160	USGS	11/1/2002	8/30/2007	1673	12/1/2002	6/19/2006	3	29.24	-81.64	DISCHARGE/STAGE	DAILY	YEARLY
41	LITTLE CREEK AT GREEN SWAMP ROAD NEAR CLERMONT, FL	2236605	USGS	6/11/2005	8/30/2007	769	10/25/2005	10/25/2005	1	28.45	-81.78	DISCHARGE/STAGE	DAILY	YEARLY
42	APOPKA FLOW-WAY FEEDER CANAL NEAR ASTATULA, FL	2237698	USGS	4/18/2003	8/30/2007	1570	2/3/2004	3/9/2006	3	28.67	-81.71	DISCHARGE/STAGE	DAILY	YEARLY
43	APOPKA-BEAUCLAIR CANAL NEAR ASTATULA, FL	2237700	USGS	7/1/1958	8/31/2007	17857	4/22/1959	10/25/2005	48	28.72	-81.68	DISCHARGE/STAGE	DAILY	YEARLY
44	WOLF BRANCH AT FCRR NEAR MOUNT DORA, FL	2237734	USGS	1/10/1992	8/30/2007	5656	9/8/1993	10/25/2005	14	28.80	-81.61	DISCHARGE/STAGE	DAILY	YEARLY
45	OCKLAWAHA RIVER AT MOSS BLUFF, FL	2238500	USGS	10/1/1943	8/31/2007	18993	7/4/1944	2/6/2006	52	29.08	-81.88	DISCHARGE/STAGE	6 TIMES PER WEEK	YEARLY
46	SILVER SPRINGS NEAR OCALA, FL	2239500	USGS	10/1/1932	8/30/2007	27362	9/22/1948	10/13/2004	57	29.21	-82.05	DISCHARGE/STAGE	DAILY	YEARLY
47	OCKLAWAHA RIVER NEAR CONNER, FL	2240000	USGS	2/13/1930	8/30/2007	17000	4/6/1931	2/8/2006	59	29.21	-81.99	DISCHARGE/STAGE	4 TIMES PER WEEK	YEARLY
48	OCKLAWAHA RIVER AT EUREKA, FL	2240500	USGS	3/1/1930	8/30/2007	14753	4/7/1931	2/10/2006	37	29.37	-81.90	DISCHARGE/STAGE	4 TIMES PER WEEK	YEARLY
49	OCKLAWAHA R AT RODMAN DAM NEAR ORANGE SPRINGS, FL	2243960	USGS	10/1/1968	8/31/2007	14214	10/23/1968	2/13/2006	38	29.51	-81.80	DISCHARGE/STAGE	DAILY	YEARLY
50	WITHLACOOCHEE RIVER NEAR CUMPRESCO, FL	2310947	USGS	1/1/1967	8/30/2007	14852	7/18/1968	10/28/2005	39	28.31	-82.06	DISCHARGE/STAGE	DAILY	YEARLY
51	WITHLACOOCHEE-HILLSBOROUGH OVFLO NEAR RICHLAND, FL	2311000	USGS	3/1/1930	8/30/2007	17494	3/19/1960	10/29/2005	47	28.27	-82.10	DISCHARGE/STAGE	4 TIMES PER WEEK	YEARLY
52	WITHLACOOCHEE RIVER NEAR DADE CITY, FL	2311500	USGS	3/1/1930	8/30/2007	9861	8/14/1984	10/31/2005	23	28.35	-82.13	DISCHARGE/STAGE	3 TIMES PER WEEK	YEARLY
53	WITHLACOOCHEE RIVER AT TRILBY, FL	2312000	USGS	9/1/1928	8/30/2007	28439	4/19/1931	11/5/2005	76	28.48	-82.18	DISCHARGE/STAGE	DAILY	YEARLY
54	LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL	2312180	USGS	10/1/1966	8/30/2007	14944	9/4/1967	10/29/2005	40	28.52	-82.05	DISCHARGE/STAGE	DAILY	YEARLY
55	LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL	2312200	USGS	8/1/1958	8/30/2007	17927	3/22/1959	11/2/2005	48	28.57	-82.16	DISCHARGE/STAGE	DAILY	YEARLY
56	WITHLACOOCHEE RIVER AT RITAL FL	2312300	USGS	3/1/2004	8/30/2007	1278	11/7/2005	11/7/2005	1	28.52	-82.21	DISCHARGE/STAGE	DAILY	YEARLY
57	WITHLACOOCHEE RIVER AT NOBLETON FL	2312558	USGS	3/1/2004	8/30/2007	1258	11/7/2005	11/7/2005	1	28.64	-82.26	DISCHARGE/STAGE	DAILY	YEARLY
58	WITHLACOOCHEE RIVER NR PINEOLA, FL	2312598	USGS	10/27/2005	8/30/2007	673	11/9/2005	11/9/2005	1	28.72	-82.24	DISCHARGE/STAGE	DAILY	YEARLY
59	CHITTY CHATTY CREEK NR WILDWOOD, FLA.	2312690	USGS	10/1/1963	9/30/1992	6054	9/13/1964	9/14/1992	16	28.81	-81.98	DISCHARGE/STAGE	4 TIMES PER WEEK	YEARLY
60	OUTLET RIVER AT PANACOOCHEE RETREATS, FL	2312700	USGS	10/1/1962	8/30/2007	16341	4/13/1963	2/5/2006	44	28.80	-82.15	DISCHARGE/STAGE	DAILY	YEARLY
61	WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL	2312720	USGS	8/10/1965	8/30/2007	14993	3/16/1966	11/11/2005	40	28.82	-82.18	DISCHARGE/STAGE	DAILY	YEARLY
62	GUM SPRINGS NEAR HOLDER, FL	2312764	USGS	10/1/2003	8/30/2007	1415	9/27/2004	10/7/2005	3	28.95	-82.25	DISCHARGE/STAGE	DAILY	YEARLY

1) Frequency assumed based on period of records and number of records

# APPENDIX C

Active USGS and SJRWMD Surface Water Quality Monitoring Sites

MAP ID	STATION NAME	SITE NUMBER	DATA SOURCE	PERIOD OF RECORD			LOCATION		APPROXIMATE FREQUENCY
		USGS SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE	
<b>COLLECTED FROM SJRWMD</b>									
1	St. Johns River State Road 40 near A	20010002	SJRWMD <sup>(1)</sup>	5/8/1995	11/30/2005	3984	28.35	-81.48	EVERY OTHER MONTH
2	St. Johns River near DeLand	2236000	SJRWMD <sup>(1)</sup>	6/28/1995	12/6/2005	5471	28.52	-81.47	MONTHLY
3	LYC (Lake Yale)	N/A	SJRWMD <sup>(1)</sup>	2/8/1990	28-Dec	13023	28.4	-81.25	EVERY OTHER MONTH
4	Lake Griffin	20020381	SJRWMD <sup>(1)</sup>	7/5/1995	12/28/2005	11816	28.52	-81.29	EVERY OTHER MONTH
5	Lake Eustis	20020368	SJRWMD <sup>(1)</sup>	5/30/1995	12/27/2005	8191	28.51	-81.5	EVERY OTHER MONTH
6	BWC44 (Blackwater Creek)	N/A	SJRWMD <sup>(1)</sup>	3/19/1991	11/3/2005	3983	28.51	-81.26	EVERY OTHER MONTH
7	BWCCPB (Blackwater Creek)	N/A	SJRWMD <sup>(1)</sup>	5/22/1991	11/3/2005	4166	28.47	-81.41	EVERY OTHER MONTH
8	Wekiva River	2235000	SJRWMD <sup>(1)</sup>	5/24/1995	12/6/2005	2973	29	-81.22	EVERY OTHER MONTH
9	DOR (Lake Dora)	N/A	SJRWMD <sup>(1)</sup>	6/5/1990	12/27/2005	9430	28.46	-81.48	EVERY OTHER MONTH
10	HAR (Lake Harris)	N/A	SJRWMD <sup>(1)</sup>	6/5/1990	12/27/2005	12397	28.44	-81.45	EVERY OTHER MONTH
11	LLHARRIS (Little Lake Harris)	N/A	SJRWMD <sup>(1)</sup>	11/18/1990	12/27/2005	5885	28.54	-81.44	EVERY OTHER MONTH
12	Cherry Lake	20020321	SJRWMD <sup>(1)</sup>	11/1/1990	1/1/2006	4187	28.5	-81.45	EVERY OTHER MONTH
13	Haynes Creek	2238000	SJRWMD <sup>(1)</sup>	7/5/1995	12/14/2005	3315	29.09	-81.31	MONTHLY
<b>COLLECTED FROM USGS</b>									
14	ALEXANDER SPRINGS NEAR ASTOR, FLA.	2236095	USGS	2/12/1931	5/10/2007	95	29.08	-81.34	YEARLY
15	HOLLY LAKE NEAR UMATILLA, FL	2238180	USGS	5/9/1968	4/13/2007	11	28.94	-81.43	4 YEARS
16	LADY LAKE NEAR LADY LAKE, FL	2312694	USGS	8/4/1968	2/14/2007	247	28.91	-81.53	BI-MONTHLY
17	CHURCH LAKE NEAR GROVELAND, FL	2237370	USGS	8/6/1968	4/18/2007	103	28.64	-81.50	SEMI-ANNUAL
18	BAYROOT SLOUGH HEADWATERS NEAR BAYLAKE, FL	2312140	USGS	2/26/1959	4/3/2007	346	28.46	-81.55	BI-MONTHLY
19	SILVER GLEN SPRINGS NEAR ASTOR, FL	2236160	USGS	3/17/1931	5/10/2007	105	29.24	-81.38	YEARLY
20	SILVER SPRINGS NEAR OCALA, FL	2239500	USGS	5/26/1906	6/26/2007	303	29.21	-82.03	THREE TIMES A YEAR
21	OCLAWAHA RIVER AT MOSS BLUFF, FL	2238500	USGS	5/1/1936	11/6/2006	288	29.08	-81.53	THREE TIMES A YEAR
22	BLUE SPRINGS NEAR ORANGE CITY, FL	2235500	USGS	3/7/1932	6/4/2007	578	28.94	-81.20	BI-MONTHLY
23	WITHLACOOCHEE RIVER AT WYSONG DAM, AT CARLSON, FL	2312720	USGS	6/1/1966	5/16/2007	205	28.82	-82.11	BI-MONTHLY
24	OUTLET RIVER AT PANACOOCHEE RETREATS, FL	2312700	USGS	8/20/1908	7/9/2007	262	28.80	-82.09	THREE TIMES A YEAR
25	WITHLACOOCHEE RIVER AT CROOM, FL	2312500	USGS	5/2/1956	3/14/2007	272	28.61	-82.13	BI-MONTHLY
26	LITTLE WITHLACOOCHEE RIVER AT RERDELL, FL	2312200	USGS	8/18/1958	9/5/2006	247	28.34	-82.09	BI-MONTHLY
27	LITTLE WITHLACOOCHEE RIVER NEAR TARRYTOWN, FL	2312180	USGS	10/5/1967	2/28/2006	202	28.52	-82.03	BI-MONTHLY
28	WITHLACOOCHEE RIVER AT TRILBY, FL	2312000	USGS	5/1/1956	3/21/2007	232	28.48	-82.10	QUARTERLY
29	WITHLACOOCHEE RIVER NEAR CUMPRESCO, FL	2310947	USGS	5/24/1961	2/26/2007	371	28.21	-82.03	BI-MONTHLY
30	WHITTENHORSE CREEK NEAR VINELAND, FL	2266200	USGS	5/1/1968	7/18/2006	133	28.39	-81.37	SEMI-ANNUAL
31	REEDY CREEK NEAR VINELAND, FL	2266300	USGS	5/23/1961	7/18/2006	277	28.35	-81.34	BI-MONTHLY
32	OCLAWAHA R AT RODMAN DAM NEAR ORANGE SPRINGS, FL	2243960	USGS	5/7/1970	12/1/2006	87	29.50	-81.48	30 MONTHS

1) Part of SJRWMD Arc hydro program

# APPENDIX D

**Active Groundwater Water Quality Monitoring Sites**

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE (1)
<b>COLLECTED FROM USGS</b>												
1	82513801	282543081385801	NO DATA	USGS	5/4/1977	5/22/2007	59	28.25	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
2	822149213A USGS OBSER W EVA SHALLOW AT EVA, FL.	282245081492602	NO DATA	USGS	1/11/1963	5/21/2007	282	28.22	-81.49	NO DATA	NO DATA	6 TIMES PER YEAR
3	82313702 27416 E USGS W HARTZOG LK Buena Vista, FL	282331081370801	NO DATA	USGS	2/22/1979	9/20/2006	66	28.23	-81.37	NO DATA	NO DATA	SEMI - ANNUAL
4	83213902 EDGEWATER BEACH DEEP	283232081394101	NO DATA	USGS	5/23/1968	5/16/2006	67	28.32	-81.39	NO DATA	NO DATA	20 MONTHS
5	83415901 22S23E15 JC 51 HUGH ILEY	283432081592401	NO DATA	USGS	11/3/1959	5/21/2007	85	28.34	-81.59	NO DATA	NO DATA	20 MONTHS
6	83520001 25S23E10 JC 67 FLA ROCK IND NO 2	283539082000301	NO DATA	USGS	5/1/1978	5/21/2007	59	28.35	-82.00	NO DATA	NO DATA	SEMI - ANNUAL
7	83920001 21S23E22 JC 65 U S GEOL SURVEY	283904082001601	NO DATA	USGS	2/9/1977	5/22/2007	65	28.39	-82.00	NO DATA	NO DATA	6 TIMES PER YEAR
8	842153142 20S24E34	284232081533001	NO DATA	USGS	5/23/1963	9/20/2006	106	28.42	-81.53	NO DATA	NO DATA	SEMI - ANNUAL
9	844146244 LAKE YALE GROVES WELL NR TAVARES, FL.	284445081462101	NO DATA	USGS	5/22/1963	5/23/2007	399	28.44	-81.46	NO DATA	NO DATA	9 TIMES PER YEAR
10	852143121 18S26E32 J EICHEL BERGER	285257081434201	NO DATA	USGS	5/21/1963	5/22/2007	67	28.52	-81.43	NO DATA	NO DATA	18 MONTHS
11	855140-- 18S26E14 AUSTIN GROVES	285504081405901	NO DATA	USGS	12/29/1967	5/22/2007	76	28.55	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
12	90613701 16S27E18 CAMP OCALA	290633081375201	NO DATA	USGS	5/11/1978	5/22/2007	62	29.06	-81.37	NO DATA	NO DATA	SEMI - ANNUAL
13	909134 15S27E-- ASTOR PARK	290900081342002	NO DATA	USGS	5/1/1970	5/22/2007	58	29.09	-81.34	NO DATA	NO DATA	18 MONTHS
14	91112806 15S28E14 HARPERS WELL E OF MURPHY RD	291150081282501	NO DATA	USGS	11/27/1978	5/21/2007	69	29.11	-81.28	NO DATA	NO DATA	SEMI - ANNUAL
15	91213103 4" SUPPLY WELL, SE L. GEORGE, NR EMPORIA	291258081313701	NO DATA	USGS	1/18/1978	5/21/2007	80	29.00	-81.31	NO DATA	NO DATA	SEMI - ANNUAL
16	ABANDONED FREEFLOW SR46A NR SORRENTO	284929081294901	NO DATA	USGS	5/2/1977	5/24/2007	51	28.49	-81.29	NO DATA	NO DATA	18 MONTHS
17	Astor Park Well at Astor Park, FL	290950081315501	NO DATA	USGS	1/2/1936	9/5/2007	631	29.09	-81.31	NO DATA	NO DATA	9 TIMES PER YEAR
18	BYRD TRAILER WELL NR ORANGE HOME, FL	284955081595801	NO DATA	USGS	9/4/1984	5/23/2007	34	28.49	-81.59	NO DATA	NO DATA	18 MONTHS
19	CABBAGE HAMMOCK SHALLOW L-0703 NR EMERALDA ISLAND	285359081472702	NO DATA	USGS	9/12/1997	11/16/2006	19	28.53	-81.47	NO DATA	NO DATA	SEMI - ANNUAL
20	CAMP MCQUARRIE ABANDONED DP AT CROOKED LAKE	290910081360001	NO DATA	USGS	5/3/1977	5/22/2007	66	29.09	-81.36	NO DATA	NO DATA	SEMI - ANNUAL
21	CARROT BARN FULLY SAS PROD(L-0885)AT LISBON, FL	285359081472703	NO DATA	USGS	8/4/2005	11/16/2006	27	28.53	-81.47	SAS/INT/LSAS/USAS	NO DATA	BI-WEEKLY
22	CENTRAL BAPTIST YOUTH CAMP	290052081271201	NO DATA	USGS	6/2/1994	5/24/2007	23	29.00	-81.27	NO DATA	NO DATA	18 MONTHS
23	CHURCH OF GOD OF PROPHECY	284528081530201	NO DATA	USGS	12/12/1996	5/23/2007	28	28.45	-81.53	NO DATA	NO DATA	SEMI - ANNUAL
24	CITY WELL REPLACEMENT AT CLERMONT, FL	283314081455501	NO DATA	USGS	5/17/1982	6/14/2007	187	28.33	-81.45	NO DATA	NO DATA	7 TIMES PER YEAR
25	DR PHILLIPS & SONS DP	283530081514501	NO DATA	USGS	11/21/1961	9/22/2006	70	28.35	-81.51	NO DATA	NO DATA	20 MONTHS
26	GREEN SWAMP AQUIFER TEST LK751W	282318081544003	NO DATA	USGS	5/1/1975	5/23/2007	36	28.23	-81.54	NO DATA	NO DATA	YEARLY
27	HATCHER WELL AT LAKE MIONA NR OXFORD, FL	285422082001901	NO DATA	USGS	5/24/1982	5/23/2007	51	28.54	-82.00	NO DATA	NO DATA	SEMI - ANNUAL
28	JOHNS LAKE WELL NR CLERMONT (SJ L-0052)	283128081404701	NO DATA	USGS	9/10/1985	5/21/2007	44	28.31	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
29	JUNIPER HUNT CLUB SUPPLY	291448081381601	NO DATA	USGS	5/20/1997	5/22/2007	27	29.14	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
30	KEEN RANCH NR LAKE JEM	284241081402601	NO DATA	USGS	1/31/1975	5/21/2007	59	28.42	-81.40	NO DATA	NO DATA	SEMI - ANNUAL
31	L KNOWLES DEEP	284757081320701	NO DATA	USGS	5/14/1996	7/18/2007	30	28.47	-81.32	NO DATA	NO DATA	SEMI - ANNUAL
32	L-0051 SAND MINE RD DP WELL NR CLERMONT	282241081443901	NO DATA	USGS	11/3/1983	5/21/2007	24	28.22	-81.44	FLORIDAN	NO DATA	YEARLY
33	L-0066 OBS WELL ALEXANDER SP NR ASTOR	290451081344401	NO DATA	USGS	5/21/1997	5/22/2007	21	29.04	-81.34	FLORIDAN	NO DATA	SEMI - ANNUAL
34	L-0095 GROVELAND TOWER DEEP	284122081534401	NO DATA	USGS	9/20/1995	5/23/2007	26	28.41	-81.53	FLORIDAN	NO DATA	SEMI - ANNUAL
35	L-0199 TURNPIKE	283355081411701	NO DATA	USGS	9/14/1995	5/21/2007	26	28.33	-81.41	FLORIDAN	NO DATA	SEMI - ANNUAL
36	L-0441 USFS WELL NR ASTOR, FL	290646081314001	NO DATA	USGS	5/15/2000	5/22/2007	15	29.06	-81.31	FLORIDAN	NO DATA	SEMI - ANNUAL
37	L-0455 ASTOR 150 CF	291002081330601	NO DATA	USGS	5/23/1996	5/22/2007	24	29.10	-81.33	FLORIDAN	NO DATA	SEMI - ANNUAL
38	L-0456 ALEXANDER SPS SH	290647081342102	NO DATA	USGS	10/23/1991	5/22/2007	10	29.06	-81.34	SURFICIAL	NO DATA	BIANNUAL
39	L-0658 CITY OF MONTVERDE	283608081403001	NO DATA	USGS	5/23/1997	5/21/2007	34	28.36	-81.40	FLORIDAN	NO DATA	3 TIMES A YEAR
40	Lake George Well near Salt Springs, FL	291849081411401	NO DATA	USGS	9/14/1982	5/24/2007	285	29.18	-81.41	NO DATA	NO DATA	MONTHLY
41	LAKE OLIVER DEEP WELL NEAR VINELAND, FL	282202081384601	NO DATA	USGS	2/9/1962	8/28/2007	384	28.22	-81.38	NO DATA	NO DATA	6 TIMES PER YEAR
42	LAKE OLIVER SHALLOW WELL NEAR VINELAND, FL	282202081384602	NO DATA	USGS	2/10/1959	8/28/2007	344	28.22	-81.38	NO DATA	NO DATA	6 TIMES PER YEAR
43	LCFD DIST.9 STATION 1	283019081455701	NO DATA	USGS	5/19/1995	5/21/2007	33	28.30	-81.45	NO DATA	NO DATA	SEMI - ANNUAL
44	LOWER WEKIVA R 4" FREEFLO	285810081234101	NO DATA	USGS	1/28/1998	5/24/2007	24	28.58	-81.23	NO DATA	NO DATA	SEMI - ANNUAL
45	LOWES BURNED HOUSE WELL NR ADAMSVILLE, FL	284703082001701	NO DATA	USGS	12/17/1981	9/20/2006	46	28.47	-82.00	NO DATA	NO DATA	20 MONTHS
46	M-0467 LAKE WEIR MIDDLE SCHOOL NR LADY LAKE, FL	285953081590101	NO DATA	USGS	9/24/2001	5/22/2007	12	28.59	-81.59	NO DATA	NO DATA	SEMI - ANNUAL
47	OCALA NF 4IN SHALLOW WELL(M-0413)	291751081414301	NO DATA	USGS	5/14/1997	5/24/2007	25	29.17	-81.41	NO DATA	NO DATA	SEMI - ANNUAL
48	OCALA NF4" NR ALEX.SPGS.CR BOAT LANDING	290244081302601	NO DATA	USGS	8/23/1968	5/22/2007	75	29.02	-81.30	NO DATA	NO DATA	SEMI - ANNUAL
49	PAUL SHOKLEY AT PAISLEY	285827081331401	NO DATA	USGS	9/21/1967	5/22/2007	77	28.58	-81.33	NO DATA	NO DATA	SEMI - ANNUAL
50	PINE LAKES WELL ON SR 44	285539081262901	NO DATA	USGS	9/22/1981	5/24/2007	67	28.55	-81.26	NO DATA	NO DATA	SEMI - ANNUAL
51	PITTMAN WORK CENTER ABANDONED NR ALTOONA, FL	290000081380001	NO DATA	USGS	3/28/1961	5/22/2007	118	29.00	-81.38	NO DATA	NO DATA	SEMI - ANNUAL
52	PONDEROSA CLUB FREEFLOW	291728081390501	NO DATA	USGS	4/26/1979	5/24/2007	60	29.17	-81.39	NO DATA	NO DATA	SEMI - ANNUAL
53	S-1230 YANKEE LAKE	284923081234802	NO DATA	USGS	1996-05-00	5/24/2007	42	28.49	-81.23	NO DATA	NO DATA	QUARTERLY
54	SJR DEEP NR CABBAGE HAMMOCK L-0620	285357081472801	NO DATA	USGS	9/12/1997	5/22/2007	57	28.53	-81.47	NO DATA	NO DATA	6 TIMES PER YEAR
55	SMITH WELL NO.2 NR CHERRY LAKE, FL	285420081571901	NO DATA	USGS	5/17/1984	5/23/2007	47	28.54	-81.57	NO DATA	NO DATA	SEMI - ANNUAL
56	STUART RANCH 6IN AG WELL	284106081594001	NO DATA	USGS	9/16/1998	5/22/2007	14	28.41	-81.59	NO DATA	NO DATA	15 MONTHS
57	STUART RANCH REPLACEMENT NR CENTER HILL	284105081594301	NO DATA	USGS	9/16/1998	9/19/2006	13	28.41	-81.59	NO DATA	NO DATA	15 MONTHS
58	USGS WELL, 2MI N ALEX SPGS, ALTOONA	290647081342101	NO DATA	USGS	5/18/1982	9/19/2006	115	29.06	-81.34	NO DATA	NO DATA	6 TIMES PER YEAR
59	V-0083 BLUE SPGS WELL SOUTH, ORANGE CITY, FL	285638081203101	NO DATA	USGS	9/4/1981	5/21/2007	21	28.56	-81.20	FLORIDAN	NO DATA	20 MONTHS
60	V-0115 USGS J-24 TEST WELL, W. OF DELAND	290138081203202	NO DATA	USGS	1/3/1967	5/21/2007	96	29.01	-81.20	FLORIDAN	NO DATA	SEMI - ANNUAL
61	V-0196 ORANGE CITY TWR DEEP	285442081181401	NO DATA	USGS	5/19/1997	5/21/2007	21	28.54	-81.18	NO DATA	NO DATA	SEMI - ANNUAL
62	V-1091 WELL SO OF BLUE SPRINGS NR DEBARY, FL	285513081202801	NO DATA	USGS	9/12/2000	5/21/2007	20	28.55	-81.20	FLORIDAN	NO DATA	QUARTERLY
63	WELL SR42 WEST OF ALTOONA, FL	285930081430901	NO DATA	USGS	5/17/1985	5/22/2007	48	28.59	-81.43	NO DATA	NO DATA	SEMI - ANNUAL
64	WOLF SINK OBSERVATION WELL NR SORRENTO	284725081361901	NO DATA	USGS	10/16/1992	5/24/2007	41	28.47	-81.36	NO DATA	NO DATA	SEMI - ANNUAL
<b>COLLECTED FROM SJRWMD</b>												
65	Alexander Springs	L-0066	91335	SJRWMD	1989	2007	N/A	29.04	-81.34	UFA	NO DATA	ANNUAL
66	Near Alexander Springs	L-0040	91683	SJRWMD	1991	2007	N/A	29.06	-81.34	UFA	NO DATA	ANNUAL
67	Crows Bluff	L-0059	N/A	SJRWMD	1989	2007	N/A	29.00	-81.23	UFA	NO DATA	SEMI-ANNUAL
68	Mascotte	L-0062	N/A	SJRWMD	1985	2007	N/A	28.32	-81.54	UFA	NO DATA	ANNUAL

**Active Groundwater Water Quality Monitoring Sites**

MAP ID	STATION NAME	SITE NUMBER		DATA SOURCE	PERIOD OF RECORD			LOCATION		AQUIFER BEING MONITORED	APPROXIMATE FREQUENCY	
		USGS SITE #	WMD SITE #		DATE COLLECTION BEGAN	LAST COLLECTION DATE	NUMBER OF RECORDS	LATITUDE	LONGITUDE		DISCHARGE	STAGE (1)
69	Carrot Barn near Griffin Flowway	L-0599	91719	SJRWMD	1993	2007	N/A	28.53	-81.47	LFA	NO DATA	ANNUAL
69	Carrot Barn near Griffin Flowway	L-0620	91720	SJRWMD	2003	2007	N/A	28.53	-81.47	UFA	NO DATA	ANNUAL
70	Smokehouse Lake near Clermont	L-0709	91738	SJRWMD	1998	2007	N/A	28.25	-81.42	UFA	NO DATA	ANNUAL
71	Keene Lake	L-0729	91743	SJRWMD	1998	2007	N/A	28.25	-81.42	LFA	NO DATA	ANNUAL
71	Keene Lake	L-0730	91744	SJRWMD	1998	2007	N/A	28.25	-81.42	UFA	NO DATA	ANNUAL
72	Seminole State Forest	L-0816	91749	SJRWMD	2000	2007	N/A	28.53	-81.27	UFA	NO DATA	ANNUAL
72	Seminole State Forest	L-0817	91750	SJRWMD	2002	2007	N/A	28.53	-81.27	LFA	NO DATA	ANNUAL
73	Hilochee WMA	L-0877	91752	SJRWMD	2002	2007	N/A	28.21	-81.43	FLORIDAN	NO DATA	QUARTERLY
73	Hilochee WMA	L-0897	N/A	SJRWMD	2005	2007	N/A	28.21	-81.43	LFA	NO DATA	QUARTERLY
73	Hilochee WMA	L-0906	N/A	SJRWMD	2005	2007	N/A	28.21	-81.43	UFA	NO DATA	QUARTERLY
73	Hilochee WMA	L-0907	N/A	SJRWMD	2005	2007	N/A	28.21	-81.43	SA	NO DATA	QUARTERLY
73	Hilochee WMA	L-0908	N/A	SJRWMD	2005	2007	N/A	28.21	-81.43	SA	NO DATA	QUARTERLY
74	Palatlakaha Dam	L-0883	91753	SJRWMD	2005	2007	N/A	28.44	-81.52	SA	NO DATA	QUARTERLY
74	Palatlakaha Dam	L-0884	91754	SJRWMD	2005	2007	N/A	28.44	-81.52	INTERMEDIATE	NO DATA	QUARTERLY
74	Palatlakaha Dam	L-0902	N/A	SJRWMD	2005	2007	N/A	28.44	-81.52	UFA	NO DATA	QUARTERLY
75	Lake Griffin State Park	L-0926	91757	SJRWMD	2007	2007	N/A	28.51	-81.53	SA	NO DATA	QUARTERLY
75	Lake Griffin State Park	L-0927	91758	SJRWMD	2007	2007	N/A	28.51	-81.53	UFA	NO DATA	QUARTERLY
77	Black Water Creek, West Side	L-0032	91680	SJRWMD	N/A	N/A	N/A	28.85	-81.41	FLORIDAN	NO DATA	SEMI-ANNUAL
77	Black Water Creek, Carter east	L-0037	91681	SJRWMD	N/A	N/A	N/A	28.84	-81.43	FLORIDAN	NO DATA	SEMI-ANNUAL
77	Black Water Creek, Carter west	L-0038	91682	SJRWMD	N/A	N/A	N/A	28.83	-81.43	FLORIDAN	NO DATA	SEMI-ANNUAL
34	Groveland Tower	L-0095	N/A	SJRWMD	1987	2007	N/A	28.41	-81.53	UFA	NO DATA	ANNUAL
35	Turnpike near Apopka Spring	L-0199	N/A	SJRWMD	1991	2007	N/A	28.33	-81.41	UFA	NO DATA	SEMI-ANNUAL
78	Leesburg Tower	L-0290	N/A	SJRWMD	1991	2007	N/A	28.51	-81.47	UFA	NO DATA	ANNUAL
37	Astor	L-0455	N/A	SJRWMD	1997	2007	N/A	29.10	-81.33	SA	NO DATA	SEMI-ANNUAL
79	Howey In The Hills PS #3	L-0591	91713	SJRWMD	1992	2007	N/A	28.73	-81.78	FLORIDAN	NO DATA	ANNUAL
78	Leesburg PS #6, Canal Street	L-0592	91714	SJRWMD	1992	2007	N/A	28.81	-81.87	FLORIDAN	NO DATA	ANNUAL
80	Eustis PS, Easterly WTP	L-0593	91715	SJRWMD	1993	2007	N/A	28.86	-81.65	FLORIDAN	NO DATA	ANNUAL
81	Lady Lake PS	L-0594	91716	SJRWMD	1993	2007	N/A	28.91	-81.92	FLORIDAN	NO DATA	ANNUAL
82	Umatilla PS, Blanding well 2	L-0595	91717	SJRWMD	1992	2007	N/A	28.94	-81.67	FLORIDAN	NO DATA	ANNUAL
83	Clermont PS Grand Highway	L-0596	91718	SJRWMD	1993	2007	N/A	28.56	-81.75	FLORIDAN	NO DATA	ANNUAL
39	Monteverde	L-0658	N/A	SJRWMD	2002	2007	N/A	28.36	-81.40	UFA	NO DATA	ANNUAL
78	Leesburg WWTP	L-0874	N/A	SJRWMD	2003	2007	N/A	28.45	-81.55	SA	NO DATA	QUARTERLY
78	Leesburg WWTP	L-0924	N/A	SJRWMD	2007	2007	N/A	28.45	-81.55	UFA	NO DATA	QUARTERLY
76	Lake Norris	L-0929	N/A	SJRWMD	2007	2007	N/A	25.55	-81.34	SA	NO DATA	QUARTERLY
76	Lake Norris	L-0930	N/A	SJRWMD	2007	2007	N/A	25.55	-81.34	INTERMEDIATE	NO DATA	QUARTERLY
76	Lake Norris	L-0935	N/A	SJRWMD	2007	2007	N/A	25.55	-81.34	UFA	NO DATA	QUARTERLY

# APPENDIX E

Active Precipitation Monitoring Sites							
Map ID	Station ID	Source Agency	Station Name	Location		PERIOD OF RECORD DATA	FREQUENCY
				Latitude	Longitude	DATE COLLECTION BEGAN	
<b>Orange County</b>							
1	Lake Apopka	Orange County	Lake Apopka	14.15	-81.18	NO DATA	NO DATA
2	Lake Beauclair	Orange County	Beauclair	14.59	-81.49	NO DATA	NO DATA
<b>COLLECTED FROM SJRWMD</b>							
3	00660059	SJRWMD	L-0677 @ Lake Louisa State Park near Clermont Rain	13.47	-81.69	3/23/1998	CONTINUOUS
4	04170737	SJRWMD	Norris Lake near Paisley Rain	15.18	-81.17	1/13/1992	CONTINUOUS
5	30093061	SJRWMD	Joanna Lake - LJD Rain	14.80	-81.47	5/31/1989	CONTINUOUS
6	70271003	SJRWMD	Groveland Firetower Rain	14.33	-82.22	8/22/1989	CONTINUOUS
7	30053150	SJRWMD	Lake Harris At Leesburg	14.60	-80.84	3/5/1996	CONTINUOUS
8	60406091	SJRWMD	Lake Apopka Dedication Tower	14.28	-81.56	1/29/1997	CONTINUOUS
9	50004997	SJRWMD	Lake Apopka Center	14.17	-81.42	1/1/1990	CONTINUOUS
10	60346062	SJRWMD	IFAS Gage at Winter Gardens	14.70	-82.00	6/22/1996	CONTINUOUS
11	11303088	SJRWMD	Rock Springs Well	14.26	-81.32	11/1/1994	CONTINUOUS
<b>COLLECTED FROM SWFWMD</b>							
12	RNF-83	SWFWMD	Clermont	28.27	-81.44	12/1/1958	DAILY
13	RNF-88	SWFWMD	Burrell Lock	28.50	-81.47	1/1/1901	DAILY
<b>COLLECTED FROM USGS</b>							
14	2237000	USGS	Palatlakaha river nr Mascotte, Fla	14.08	-82.12	4/17/1987	DAILY
15	02237293	USGS	Palatlakaha at struct m-1, nr Okahumpka	14.5	-82.14	4/15/1987	DAILY
16	2312700	USGS	Outlet River at Panacoochee Retreats, Fl	28.49	-82.08	NO DATA	CONTINUOUS
17	2312720	USGS	Withlacoochee River at Wysong Dam, at Carlson, Fl	28.49	.82.11	NO DATA	CONTINUOUS

# APPENDIX F

MFL Priority Waterbody Locations

MAP ID	STATION NAME	SJRWMD WATER BODY UNIQUE NUMBER <sup>(1)</sup>	DATA SOURCE	MFL PRIORITY	ADOPTED	WATER BODY TYPE	WATER BODY LOCATIONS	
							LATITUDE	LONGITUDE
<b>SJRWMD - LAKE COUNTY</b>								
1	ALEXANDER SPRINGS	1441	SJRWMD	2010	N	STREAM	29.04	-81.26
3	DORR	338	SJRWMD	1996	Y	LAKE	29.00	-81.40
4	NORRIS	877	SJRWMD	1996	Y	LAKE	28.56	-81.16
5	BLACKWATER CREEK @ SR 44	1437	SJRWMD	1992	Y	RIVER	28.52	-81.00
6	SUNSET	1417	SJRWMD	1998	Y	LAKE	28.51	-82.28
7	MESSANT SPRING	1435	SJRWMD	1992	Y	STREAM	28.51	-81.03
8	SEMINOLE SPRINGS	1434	SJRWMD	1992	Y	STREAM	28.50	-81.10
8	BLUE CYPRESS WMA	1438	SJRWMD	1995	Y	WETLAND	27.41	-78.42
9	WEKIVA RIVER @ SR 46	1436	SJRWMD	1992	Y	RIVER	28.48	-80.80
10	MOUNT PLYMOUTH	845	SJRWMD	2008	N	LAKE	28.48	-81.11
11	BUGG SPRING	1443	SJRWMD	2009	N	STREAM	28.45	-82.23
12	BLUE SPRINGS	1448	SJRWMD	N/A	N	STREAM	28.44	-82.01
13	HOLIDAY SPRINGS	1449	SJRWMD	N/A	N	STREAM	28.44	-81.98
14	EMMA	388	SJRWMD	2003	Y	LAKE	28.36	-82.09
15	APSHAWA NORTH	35	SJRWMD	2002	Y	LAKE	28.36	-81.86
16	LUCY	757	SJRWMD	2003	Y	LAKE	28.36	-82.08
17	APSHAWA SOUTH	5035	SJRWMD	2002	Y	LAKE	28.36	-81.86
18	CHERRY	205	SJRWMD	2002	Y	LAKE	28.35	-81.98
19	MINNEOLA	825	SJRWMD	2002	Y	LAKE	28.34	-81.84
20	APOPKA SPRING	1442	SJRWMD	2009	N	STREAM	28.34	-81.58
21	PINE ISLAND	951	SJRWMD	2001	Y	LAKE	28.29	-82.02
22	FLAT	419	SJRWMD	2007	N	LAKE	28.29	-81.56
23	LOUISA	740	SJRWMD	2000	Y	LAKE	28.28	-81.75
24	SAWGRASS	1032	SJRWMD	2007	N	LAKE	28.26	-81.56
25	BOGGY MARSH	132	SJRWMD	2001	Y	WETLAND	28.23	-81.64
<b>SJRWMD - OCKLAWAHA RIVER SYSTEM</b>								
26	OCKLAWAHA RIVER @ RIVERSIDE LANDING	60002	SJRWMD	N/A	N	RIVER	29.29	-81.90
28	OCKLAWAHA RIVER @ SR 40	60001	SJRWMD	2008	N	RIVER	29.12	-82.48
29	SILVER SPRINGS	1445	SJRWMD	2008	N	STREAM	29.12	-82.68
<b>SJRWMD - ST JOHNS RIVER SYSTEM</b>								
2	SJR @ SR 44	1427	SJRWMD	2003	Y	RIVER	29.00	-80.68
27	SILVER GLEN SPRINGS	1444	SJRWMD	2010	N	STREAM	29.14	-81.46
30	DeLEON SPRINGS	1424	SJRWMD	2007	N	STREAM	29.08	-80.62
32	BLUE SPRING	1423	SJRWMD	2006	N	STREAM	28.56	-80.56
33	GEMINI SPRINGS	1425	SJRWMD	2007	N	STREAM	28.51	-80.47
34	GREEN SPRINGS	1426	SJRWMD	2007	N	STREAM	28.51	-80.29
35	MONROE	838	SJRWMD	2006	N	LAKE	28.50	-80.37
36	ROCK SPRINGS	1433	SJRWMD	1992 / 2007	Y	STREAM	28.45	-81.04
<b>SJRWMD - OTHER SITES IN PROXIMITY TO LAKE COUNTY</b>								
31	BIG BASS	95	SJRWMD	2008	N	LAKE	28.59	-81.88

**MFL Priority Waterbody Locations**

MAP ID	STATION NAME	SJRWMD WATER BODY UNIQUE NUMBER <sup>(1)</sup>	DATA SOURCE	MFL PRIORITY	ADOPTED	WATER BODY TYPE	WATER BODY LOCATIONS	
							LATITUDE	LONGITUDE
37	WEKIWA SPRINGS	1428	SJRWMD	1992 / 2007	Y	STREAM	28.42	-80.92
38	MIAMI SPRINGS	1432	SJRWMD	1992	Y	STREAM	28.42	-80.87
39	JOHNS	635	SJRWMD	2007	N	LAKE	28.32	-81.44
40	AVALON	44	SJRWMD	2007	N	LAKE	28.30	-81.46
<b>SWFWMD - WITHLACOOCHEE RIVER SYSTEM</b>								
41	LAKE PANASOFFKEE	N/A	SWFWMD	2006	Y	LAKE	28.80	-82.17
42	TSALA APOPKA LAKE	02312975 <sup>(2)</sup>	SWFWMD	2006	Y	LAKE	28.96	-82.34
43	WITHLACOOCHEE RIVER NEAR HOLDER	02313000 <sup>(2)</sup>	SWFWMD	2009	N	RIVER	28.99	-82.35
44	WITHLACHOOCHEE RIVER AT CROOM	N/A	SWFWMD	2009	N	RIVER	28.35	-82.13
45	WITHLACHOOCHEE RIVER AT TRILBY	02312000 <sup>(2)</sup>	SWFWMD	2009	N	RIVER	28.48	-82.18

1) Water body locations were not uniquely identified within the SJRWMD data collected. As a result the same site may be labeled differently depending on source that the data was collected from within the SJRWMD.

2) USGS Gage locations