



# ORANGE COUNTY GROUNDWATER VULNERABILITY ASSESSMENT

## Interim Technical Memorandum

### Prepared for:

Orange County Environmental Protection Division  
3165 McCrory Pl #200  
Orlando, FL 32803

Orange County EPD Contract # Y20-906A

### Prepared by:

Drummond Carpenter, PLLC  
47 East Robinson St., Suite 210  
Orlando, FL 32801

**14 March 2022**

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## CONTENTS

LIST OF FIGURES.....	v
LIST OF TABLES.....	vi
LIST OF EXHIBITS.....	vii
ACRONYMS.....	viii
1. Introduction.....	1
1.1. Background.....	1
1.1.1. Onsite Sewage Treatment Disposal Systems.....	1
1.2. Project Goals.....	2
1.3. Report Outline.....	3
2. Data Collection.....	4
3. Vulnerability Modeling.....	5
3.1. Aquifer Vulnerability Model Setup.....	5
3.1.1. Training Points.....	5
3.1.2. Evidential Themes.....	6
3.1.3. Model Extent.....	8
3.2. Aquifer Vulnerability Model Results.....	9
3.2.1. Model Confidence.....	11
3.2.2. Comparison to Florida Aquifer Vulnerability Assessment (FAVA).....	12
3.3. Limitations and Future work.....	14
4. Groundwater Modeling.....	16
4.1. Model Configuration.....	16
4.1.1. Model Refinement.....	16
4.1.2. Model Boundary Conditions and Hydraulic Properties.....	17
4.1.3. Calibration Targets.....	18
4.2. Waterbodies of Interest (WOIs) Influence Zones.....	20
5. Regional Septic & Sanitary Sewer Spatial Analysis.....	24
5.1. Orange County Septic System Database.....	24
5.2. Initial Septic System Vulnerability and Prioritization Mapping Parameters.....	24
5.2.1. Septic Density.....	25
5.2.2. OCAVA Category.....	25
5.2.3. Area within Impaired Watershed or Springshed.....	25
5.2.4. Housing Density Change.....	25

5.2.5.	Population.....	25
5.2.6.	Year Built.....	25
5.2.7.	Distance to Waterbody.....	25
5.2.8.	Elevation .....	26
5.2.9.	Distance to Infrastructure.....	26
5.3.	Initial Priority Ranking Methodology .....	26
5.4.	Initial Priority Ranking Results .....	27
6.	Vulnerability Categories and Future Tasks .....	32
6.1.	Preliminary Groundwater Vulnerability and Prioritization Decision Matrix.....	32
6.2.	Socioeconomic Considerations.....	33
6.3.	Future Task: Water Quality Modeling.....	33
6.3.1.	Depth to Groundwater .....	33
6.3.2.	Soil Hydraulic Conductivity.....	34
6.3.3.	Travel Time to Receptor Waterbody .....	34
6.3.4.	Septic System Type .....	34
6.3.5.	Proposed Modeling Scenarios .....	34
6.4.	Next Steps.....	35
7.	References .....	36
	EXHIBITS.....	38
	Appendix A: Orange County Groundwater Vulnerability Assessment – Data Review and Compilation	39
	Appendix B: Waterbodies of Interest Memorandum.....	40
	Appendix C: Applied Ecology, Inc. Technical Memorandum .....	41

## LIST OF FIGURES

Figure 1: Orange County Groundwater Vulnerability Assessment Workflow. ....	3
Figure 2. WOE Conceptual Model: The top four layers are evidential themes, the yellow lines represent training points (wells) projected throughout the layers, and the bottom layer is the response layer which shows More Vulnerable areas in red and Less Vulnerable in blue (Figure adopted from Arthur et al. 2017 Fig. 4). ....	5
Figure 3. Aquifer Vulnerability Model Extent and Training Points. ....	9
Figure 4. Response Theme: Relative Vulnerability of the SAS in Orange County.....	10
Figure 5. Posterior Probability Plotted with Cumulative Area for the Model. ....	11
Figure 6. Confidence Map .....	12
Figure 7. Comparison between the FAVA and OCAVA Results for the SAS.....	13
Figure 8. Posterior Probability Calculated for Each Land Use.....	15
Figure 9. Vertical discretization of the ECCTX Model (Figure from CFWI 2020). ....	16
Figure 10. Boundary Condition Refinements More Accurately Representing Water Features .....	18
Figure 11. Original ECCTX Model Target Residuals.....	19
Figure 12. OC ECCTX Model Target Residuals. ....	20
Figure 13. influence Zones Generated using the Convex Hull and Concave Hull Tools.....	21
Figure 14. Influence Zones with Median Travel Times.....	23
Figure 15. Unweighted Vulnerability Scheme Results: Increasing Priority (from 1 – 5) Corresponds to Increasing Pollution Potential.....	29
Figure 16. Weighted Vulnerability Scheme Results: Increasing Priority (from 1 – 5) Corresponds to Increasing Pollution Potential.....	30
Figure 17. Weighted Connectivity Scheme Results: Increasing Priority (from 1 – 5) Corresponds to Increasing Pollution Potential and Feasibility.....	31
Figure 18. Conventional Septic System Leachate Transport (Figure obtained from FDOH 2015).....	35

## LIST OF TABLES

Table 1. Summary of Data Collection Effort.....	4
Table 2. Sources of Well Data Used for Training Points. ....	6
Table 3. Comparison of Residual Statistics for Orange County for the Original and OC ECCTX Models.....	18
Table 4. Vulnerability Scheme Parameters and Weight Values (Table 5 in Appendix B).....	26
Table 5. Connectivity Scheme Parameters and Weight Values (Table 6 from Appendix B). ....	27
Table 6. Top Priority Ranking Subdivisions among Three Ranking Schemes per the Initial Priority Rankings (Table 1 from Appendix B).....	27
Table 7. Preliminary Groundwater Vulnerability and Priority Decision Matrix * .....	33
Table 8. Proposed Modeling Scenarios. ....	34

## LIST OF EXHIBITS

Exhibit 1: Recommended Watersheds of Interest

## ACRONYMS

AEI	Applied Ecology, Inc.
AMSL	Above Mean Sea Level
AVA	Aquifer Vulnerability Assessments
ECFTX	East Central Florida Transient Expanded
DEM	Digital Elevation Model
DIN	Dissolved Inorganic Nitrogen
DO	Dissolved Oxygen
FAVA	Florida Aquifer Vulnerability Assessment
FDEP	Florida Department of Environmental Protection
FGS	Florida Geological Survey
Ft	Feet
NRCS	Natural Resources Conservation Service
OC	Orange County
OCAVA	Orange County Aquifer Vulnerability Assessment
OCEPD	Orange County Environmental Protection Division
OSTDS	Onsite Sewage Treatment and Disposal Systems
PFA	Priority Focus Area
SAS	Surficial Aquifer System
SSURGO	Soil Survey Geographic Database
STUMOD-FL	Soil Treatment Model
TMR	Telescopic Mesh Refinement
UFA	Upper Floridan Aquifer
WIN	Watershed Information Network
WOE	Weights of Evidence
WOI	Waterbodies of Interest

## 1. Introduction

This document serves as the Interim Vulnerability Technical Memorandum for Task 6 as outlined in the Drummond Carpenter, PLLC (Drummond Carpenter) Scope of Work for the Orange County Groundwater Vulnerability Assessment, under contract Y20-906A, PO#C20906A001.

### 1.1. Background

Orange County has experienced continuing water quality degradation countywide, with lakes, rivers, and springs not attaining mandated water quality standards in regions throughout the county, both urban and rural. Countywide, there have been over 150 water quality impairments documented over the last 20 years, with over 60% of these impairments attributable to excess nutrients, notably nitrogen and phosphorus<sup>1</sup>. These excess nutrients originated from multiple sources but were primarily transported to these waters through stormwater runoff and groundwater flow.

Orange County has adopted numerous programs to control nutrient pollutant sources, including educational outreach, stormwater and water quality capital improvements, operation and maintenance efforts, source control removal (e.g., street sweeping), local ordinances (e.g., fertilizer ordinance), and others. This study focuses exclusively on the role groundwater has on nutrient transport, particularly nitrogen from septic systems, and what steps the County can make to control relevant pollutant sources from contributing to water quality impairments through groundwater flow.

#### 1.1.1. Onsite Sewage Treatment Disposal Systems

Over 90,000 onsite sewage treatment and disposal systems (OSTDS) (septic systems) are believed to exist within Orange County. These septic systems can provide a safe and cost-effective wastewater treatment solution for residents who live in regions where centralized sewer systems are not available. Septic systems can, however, cause elevated nitrogen levels in groundwater which can contribute to nutrient impairment in lakes and rivers via groundwater seepage through the surficial aquifer, and to springs via groundwater flow and discharge through the Upper Floridan Aquifer.

Within Orange County, groundwater may be more or less vulnerable to contamination from septic systems in certain areas based on a multitude of factors. For nitrogen in groundwater, these factors are further complicated when transport of groundwater to downgradient water resources is considered. For instance, elevated nitrogen in groundwater beneath a septic system may only be a concern if the septic system is adjacent to a lake. If the septic system is sufficiently far away from a lake, then natural attenuation processes may sufficiently reduce the nitrogen before groundwater seepage occurs. Understanding the conditions through which septic systems more readily contribute to groundwater and surface water impairment are critical to the County's efforts at controlling septic-based pollution.

Orange County has developed a Septic Tank Workgroup to address septic-based nutrient pollution. This Workgroup is tasked with recommending solutions for those existing septic systems that pose a significant risk to the County's water resources, as well as to limit the construction of new septic systems within undeveloped vulnerable regions through administrative rules and regulations. This Workgroup is broken up into four Subgroups, including:

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<sup>1</sup> Orange County Septic Tank Workgroup, Board of County Commissioners Presentation 2022-02-22

**Subgroup A** – Responsible for new development where connection to centralized sewer is viable. This Subgroup is being led by Orange County Utilities.

**Subgroup B** – Responsible for septic-to-sewer retrofits. This Subgroup is being led by Orange County Utilities.

**Subgroup C** – Responsible for existing septic tank upgrades to advanced treatment systems. This Subgroup is being led by Planning, Environmental and Development Services (PEDS) Department.

**Subgroup D** – Responsible for new septic tank standards and permitting. This Subgroup is being led by the Public Works Department.

Each Subgroup is tasked with addressing existing and future septic-based pollution through these different forms of septic system intervention, all of which are focused on mitigating nutrient impairment to the County's water resources.

### 1.2. Project Goals

The primary goal of this project is to provide a framework for the County to develop specific action plans to mitigate septic-based water quality impairment through various septic system interventions. This framework will take the form of a groundwater vulnerability and prioritization map with supporting documentation and will incorporate a countywide surficial aquifer system (SAS) vulnerability model, a countywide groundwater model, groundwater quality fate and transport modeling, and geospatial prioritization analysis of the County's septic system and related datasets.

This report is the interim deliverable for this project that combines the vulnerability modeling, groundwater modeling, and initial geospatial prioritization mapping efforts. Refer to Figure 1 for a depiction of the project flowchart. The results of this effort will be used to inform the next phase of the project, which will consist of groundwater fate and transport model scenarios and the development of the final groundwater vulnerability and prioritization mapping effort. Communication and coordination with project stakeholders will continue to occur to gain valuable feedback for development of the project recommendations.



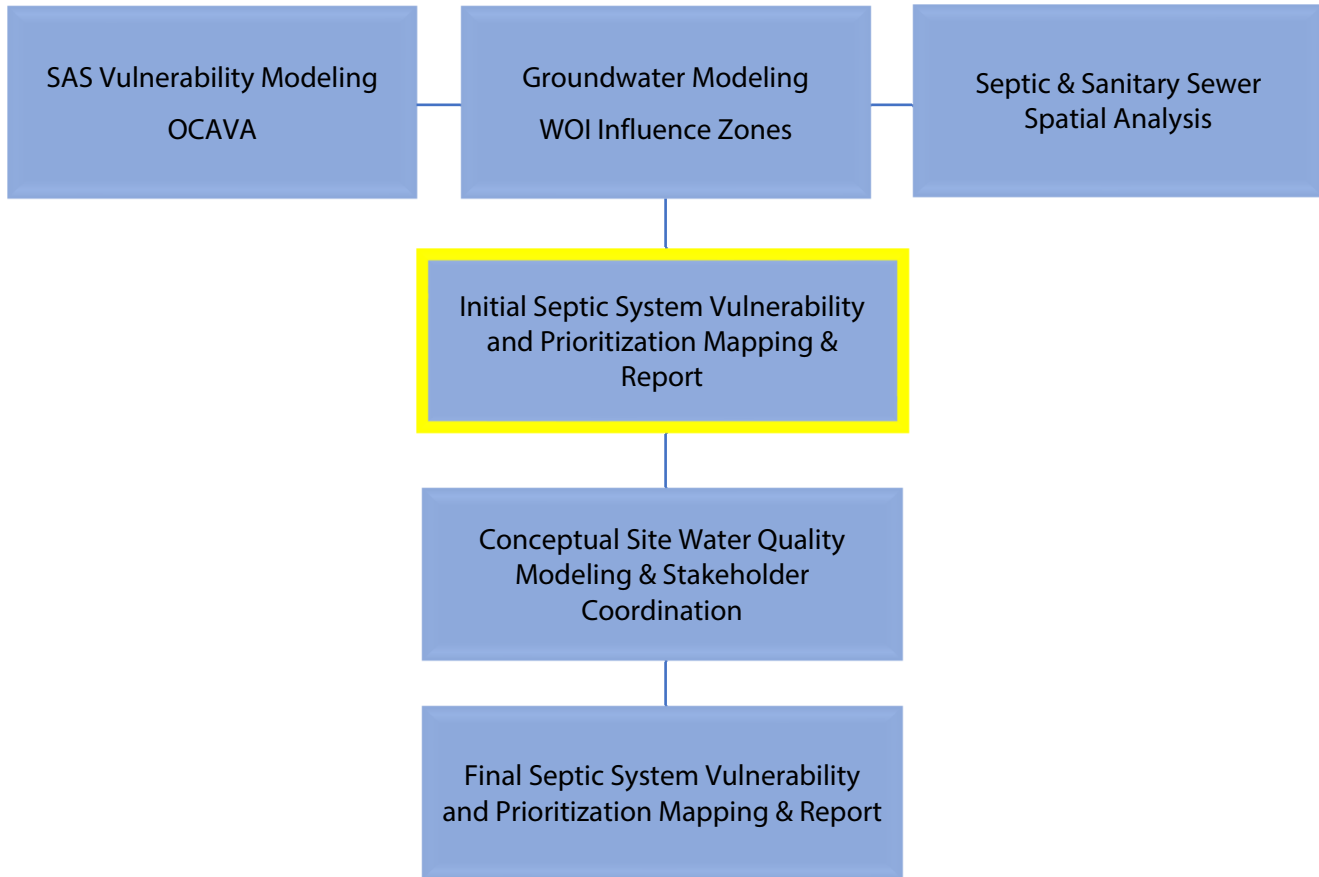


Figure 1: Orange County Groundwater Vulnerability Assessment Workflow.

### 1.3. Report Outline



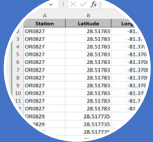


The report outline for the remaining sections is presented below:

- Section 2: Data collection:** This section recaps the data collection efforts, with more detail included in Appendix A.
- Section 3: Countywide Surficial Aquifer System (SAS) vulnerability modeling:** This section discusses the efforts to develop a countywide SAS vulnerability map.
- Section 4: Countywide Groundwater Modeling:** This task designates groundwater influence zones (groundwater basins) for select Waterbodies of Interest (WOI) throughout the County to assess SAS seepage potential of vulnerable regions into WOIs.
- Section 5: Septic and Sanitary Sewer Spatial Analysis:** This task represents the initial assessment of priority areas for septic system interventions.
- Section 6: Development of Vulnerability Categories:** This task identified various vulnerability scenarios for additional analysis in future project tasks.

## 2. Data Collection

An extensive data collection effort was conducted to inform this vulnerability assessment. The compiled data include a variety of relevant GIS data (i.e., environmental, social, hydrogeologic, impaired waters, reclaimed wastewater coverage), related previous studies, available water quality data, regional groundwater model, and regulatory information. A summary of the data collection effort is presented in Table 1. More detail on data collected for each of these topics is summarized in the *Task 2 Deliverable* (Appendix A).

Table 1. Summary of Data Collection Effort.

 GIS Data	 Previous Studies	 Water Quality Data	 Regional Groundwater Model	 Regulatory Information
GIS DATA	PREVIOUS STUDIES	WATER QUALITY DATA	REGIONAL GROUNDWATER MODEL	REGULATORY INFORMATION
<ul style="list-style-type: none"> <li>Environmental</li> <li>Social</li> <li>Hydrogeologic</li> <li>Impaired Waters</li> <li>Reclaimed Wastewater Coverage</li> <li>Utility data</li> <li>ArcGIS Spatial Data Modeler (Arc-SDM) Software Model</li> </ul>	<ul style="list-style-type: none"> <li>2005 Florida Aquifer Vulnerability Assessment (FAVA)</li> <li>2005 Wekiva Aquifer Vulnerability Assessment (WAVA)</li> <li>2007 Florida Department of Health (FDOH) Study</li> <li>2009 Wakulla County Aquifer Vulnerability Assessment (WCAVA)</li> <li>2018 Wekiva Spring and Rock Springs Basin Management Action Plan (BMAP)</li> <li>2019 FDOH STUMOD</li> </ul>	<ul style="list-style-type: none"> <li>2021 Watershed Information Network (WIN) Monitoring Locations in Orange County</li> <li>Surface water data from Orange County Water Atlas</li> </ul>	<ul style="list-style-type: none"> <li>East-Central Florida Transient Expanded (ECFTX) Model (2019) (a regional MODFLOW model covering 23,800 square miles of Central Florida)</li> </ul>	<ul style="list-style-type: none"> <li>OSTDS Standards (381.0065, Florida Statutes) and Chapter 64E-6, F.A.C.</li> <li>Priority Focus Areas (PFAs) requirements</li> <li>FDOH and Orange County septic system regulations</li> </ul>

### 3. Vulnerability Modeling

#### 3.1. Aquifer Vulnerability Model Setup

A countywide SAS Vulnerability Model, known herein as the Orange County Aquifer Vulnerability Assessment (OCAVA), was developed for Orange County using the Weights of Evidence (WOE) approach developed by the State of Florida and previously used in other Aquifer Vulnerability Assessments (AVA) statewide (e.g., Arthur et al. 2017, Baker et al. 2009, Baker et al. 2007, Cichon et al. 2005). The WOE approach was chosen to provide a methodology consistent with the statewide SAS vulnerability assessment completed by the Florida Geologic Survey (FGS) in the Florida Aquifer Vulnerability Assessment (FAVA) (Arthur et al. 2017). The WOE model is data-driven and does not rely on more subjective, knowledge-driven approaches used in other vulnerability studies.

The WOE approach is a probabilistic model that predicts the likelihood of a condition occurring based on known information. For this study, the WOE approach was used to estimate the likelihood for a pollutant to reach the top of the SAS once it's introduced to the top of or within the unsaturated zone. Areas with increased likelihood of a pollutant reaching the SAS are considered more vulnerable compared to areas with less likelihood.

The vulnerability modeling relies on two categories of user inputs: (1) training points and (2) evidential themes to produce the output response theme (Figure 2). Training points are selected wells in the aquifer of interest with the desired water quality data. Evidential themes are GIS layers of properties that influence aquifer vulnerability. The response theme delineates the model area into categories of relative vulnerability.

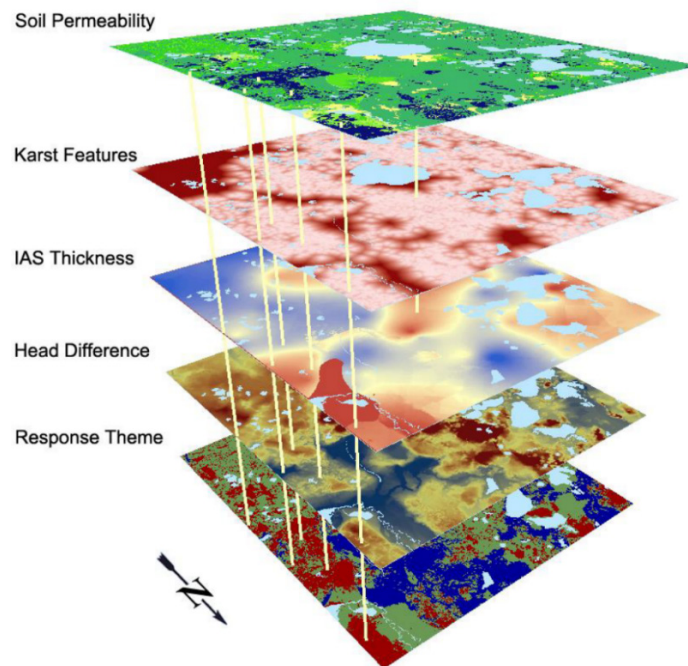


Figure 2. WOE Conceptual Model: The top four layers are evidential themes, the yellow lines represent training points (wells) projected throughout the layers, and the bottom layer is the response layer which shows More Vulnerable areas in red and Less Vulnerable in blue (Figure adopted from Arthur et al. 2017 Fig. 4).

##### 3.1.1. Training Points

Training points represent actual water quality data within the study area of interest and are defined as wells screened in the SAS with available water quality data for the parameters of interest, Dissolved Inorganic Nitrogen (DIN) and Dissolved Oxygen (DO). DIN and DO are not typically found in high concentrations in

groundwater and serve as indicators of relative aquifer recharge for wells in this study (Arthur et al. 2017). Regions with greater aquifer recharge are considered areas where pollutants have an increased likelihood to be transported from the ground surface to the aquifer.

SAS water quality data were obtained from the St. John's River Water Management District, Florida Department of Environmental Protection (FDEP) Watershed Information Network (WIN), STORET database, and well records maintained by Water Management Districts. Acquiring data to identify sufficient training points within the County required multiple searches of available databases. In all, 543 data points were collected from 71 separate SAS wells in Orange County. Of the 71 SAS wells found with measured parameters of interest, 56 had measured DIN and 60 had measured DO (Table 2).

*Table 2. Sources of Well Data Used for Training Points.*

<b>DATABASE SOURCE</b>	<b>WELLS</b>	<b>DATES SAMPLED</b>	<b>ORIGINAL PROJECT OR SAMPLING PROGRAM</b>
<b>ST. JOHNS RIVER WATER MANAGEMENT DISTRICT</b>	12	-	-
<b>DEPARTMENT OF ENVIRONMENTAL PROTECTION WIN WAVES</b>	2	-	-
<b>DEPARTMENT OF ENVIRONMENTAL PROTECTION STORET ARCHIVAL DATABASE</b>	44	July 1985 – October 2019	GW-Trend, Background, STATUS GW-Trend, Background, STATUS, VISA, Wastewater Treatment Plant GW sampling
<b>ORANGE COUNTY WATER ATLAS</b>	2	September 19, 1989 – August 2, 2005	South Florida Water Management District
<b>WEKIVA AQUIFER STUDY</b>	10	April 18, 2011-April 8, 2019	Orange County

Data processing required cross referencing the multiple datasets for duplicate wells, evaluation, and correction to achieve consistency in GPS format and ensure the data were consistent in parameters measured and units. Each study evaluated different nitrogen species. Total DIN ( $\text{NO}_3^- + \text{NO}_2^- + \text{NH}_4^+$ ), therefore, was calculated individually for sites from available measurements of dissolved ammonia, ammonia-N, nitrate-N + nitrite-N, and nitrite + nitrate.

Consistent with the WOE methodology, the third quartile value was calculated for DO and DIN measurements from the collected well data. For wells with multiple recorded measurements of DO or DIN, the median value was calculated for each parameter for that well. Then, wells with median values greater than the third quartile values were selected to be part of the final training points dataset for that parameter. For DO, this procedure resulted in a training point dataset containing 8 wells, and for DIN, this resulted in a dataset containing 13 wells. Unfortunately, the DO training points did not produce sufficient differentiation in the model and were therefore not used in the final OCAVA model. The final training point set contained the 13 DIN wells. This is an increase from the statewide study, which had 1 training point within Orange County.

### 3.1.2. Evidential Themes

The evidential themes included in the AVA process were intended to capture geologic controls on aquifer vulnerability. Selected evidential themes are individual GIS layers of geologic properties that can influence how quickly water moves through the unsaturated zone. Consistent with the FAVA for SAS vulnerability, the evidential themes considered in this study included:

1. soil hydraulic conductivity,
2. depth of soil between the surface and the water table,
3. and distance to karst features.

For each evidential theme layer, multiple datasets were considered to determine the most appropriate GIS layers for this study, as further described below.

#### *Soil Hydraulic Conductivity*

Soil hydraulic conductivity is a parameter representing how well a fluid can move through pore spaces or fractures under nearly saturated conditions (Newby et al. 2009). Two datasets were evaluated to serve as this evidential theme. The soil hydraulic conductivity within the East Central Florida Transient Expanded (ECFTX) groundwater model was the first dataset evaluated (CFWI 2020). The benefit of this layer is that it represents the hydraulic conductivity throughout the County and is sourced from a calibrated and peer reviewed groundwater model. Unfortunately, as the ECFTX is a regional model, the evidential theme produced with this dataset did not capture the anticipated variability in soil conductivity at the county-scale and was therefore not used in the final OCAVA model.

The second hydraulic conductivity dataset was obtained from the Natural Resources Conservation Service (NRCS) Soil Survey Geographic Database (SSURGO). The SSURGO dataset discriminated variability due to localized differences in soil conditions better than the dataset from the ECFTX model. The vertical soil hydraulic conductivity values from SSURGO ranged from 5-70 feet per day (ft/day) with most of training points in regions with values of less than 30 ft/day. Some areas within Orange County did not have SSURGO data, and these were generally areas associated with urban land uses. This dataset was used in the final OCAVA model, and the areas with missing data were not assigned to vulnerability categories.

#### *Depth-to-Water*

In this study, the two available datasets for the Depth to SAS evidential theme were found to be poor predictors of training points and thus were not used in the final OCAVA model. The available training points were in areas where the groundwater table was uniformly shallow, which may have caused this model result.

The first dataset evaluated was the statewide *Estimated Depth to Water Table - Surficial Aquifer System*, which was created by FDEP by subtracting a water table surface grid from a Digital Elevation Model (DEM) (Anon. 2008). Unfortunately, at the county-scale, the data shows little variation within the County. All but three of the training points were in areas with depths to water of less than 10 ft. The second dataset evaluated was the average depth to saturated water table from the SSURGO database. In this dataset, hydrologic features such as lakes and rivers as well as areas with depth to water table greater than 160 centimeters were assigned “no data.” The lack of training points in regions with available water table data prevented this dataset from serving as an evidential theme.

The absence of a quality depth-to-water table layer across Orange County highlights the need for the County to develop this from available data or by installing a countywide SAS well network. Currently, the available datasets either do not sufficiently capture the variability across the County or are missing too much data to serve as evidential themes. A refined depth to SAS layer could help strengthen the OCAVA model.

#### *Karst Features*

Karst features such as sinkholes can serve as conduits to directly route water from the surface to subsurface aquifers. Various studies used evidential themes that quantified distance to karst features (Arthur et al. 2017 and Baker et al. 2009). Areas in greater proximity to karst features are considered more vulnerable compared to areas further away, so radial buffer zones around each karst feature were delineated to allow for distance to karst features from each training point to be measured. This study examined multiple datasets in efforts to find the most effective data set to represent the Buffered Effective Karst Feature evidential theme including the following:

1. Orange County High Resolution DEM (5 ft and 10 ft, based on available spatial coverage),

2. FGS Subsidence Incident Report (FGS 2021),
3. FGS Sinkhole Favorability Study (FDEP and FGS 2017), and
4. FGS Closed Topographic Depressions (FGS 2004).

ArcGIS raster tools (contour, sink, fill) were used to identify potential karst features from the Orange County DEM. This processing did identify more topographic depressions when compared with the statewide FDEP Elevation Contour Depression dataset (FDEP 2019), however the depressions were often low-lying areas representing GIS artefacts that may not represent evidence of sinkholes. Additionally, the detail did not translate due to the resolution of the WOE model (30 x 30 meters). The Orange County DEMs therefore were not used as the basis for the evidential theme.

The FGS Subsidence Incidence Report contains subsidence incidents self-reported by citizens, Department of Transportation, and state and local governments. The incidents did visually align with karst regions. However, these reports have not been field-verified nor has the cause of potential subsidence been identified. This layer was not used as the basis for the evidential theme.

The FGS Sinkhole Favorability Study designates regions that are unfavorable, favorable, more favorable, and most favorable to sinkholes. The results of this study did align visually with the FGS Closed Topographic Depressions, but the scale of the analysis was too broad to serve as an evidential theme in this study. Therefore, this layer was not used.

Ultimately, the FGS Closed Topographic Depressions dataset was selected to create the karst features evidential theme. Following the methodology outlined in the FAVA Study and others, "Closed Depressions" were identified and selected from the FDEP Elevation Contour Depression dataset (Arthur et al. 2017; Baker, et al. 2009). Closed topographic depressions identified as lakes were removed. To filter out linear depressions, such as roadside swales and squared off detention ponds that do likely not represent former sinkholes, a roundness ratio was calculated for each closed depression, and any depression with a roundness ratio of less than 0.75 was removed from the karst feature dataset.

### 3.1.3. Model Extent

The study area extent for this model was delineated to be the same as Orange County and is shown in Figure 3 along with the training points. The study area was comprised of 30 meter-square grid cells to cover the entirety of the County. Waterbodies listed in the Orange County Hydrology dataset (Orange County, 2021) were removed from the study area, consistent with previous studies as SAS water quality monitoring wells were not located within these waterbodies (Arthur et al. 2017; Cichon et al. 2005).



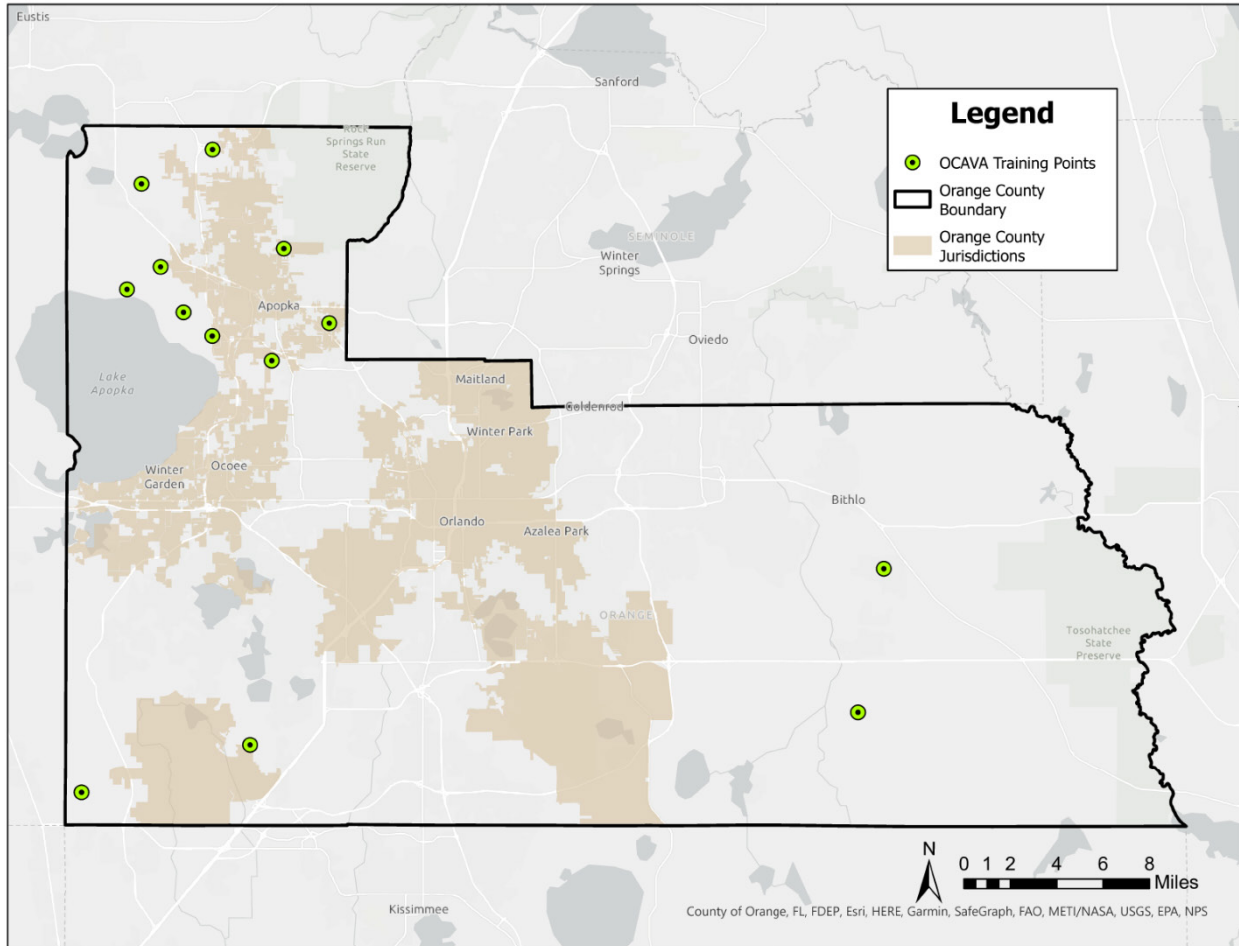


Figure 3. Aquifer Vulnerability Model Extent and Training Points.

### 3.2. Aquifer Vulnerability Model Results

The AVA process evaluates the inherent geologic properties of the evidential themes collocated with each training point. The model then applies a probability of finding training points in regions with the same combination of evidential themes. Model results at any one location are relative to each other in the study area.

The model classifies regions within the study area into three vulnerability categories (i.e., more vulnerable, vulnerable, less vulnerable) that can be viewed spatially as the “response theme” (Figure 4). The model that produced the response theme with the highest level of confidence across the study area incorporated the Buffered Effective Karst Features theme and the Soil Hydraulic Conductivity theme developed from the SSURGO NRCS soil data. Depth to SAS was not included as an evidential theme due to the lack of a sufficient countywide dataset that produced a valid response theme.

The *More Vulnerable* regions were correlated with shorter distances to karst features and higher soil hydraulic conductivity and were more likely to contain a training point. The *Less Vulnerable* areas were correlated with regions with longer distances to karst features and lower soil hydraulic conductivity and were less likely to contain a training point.

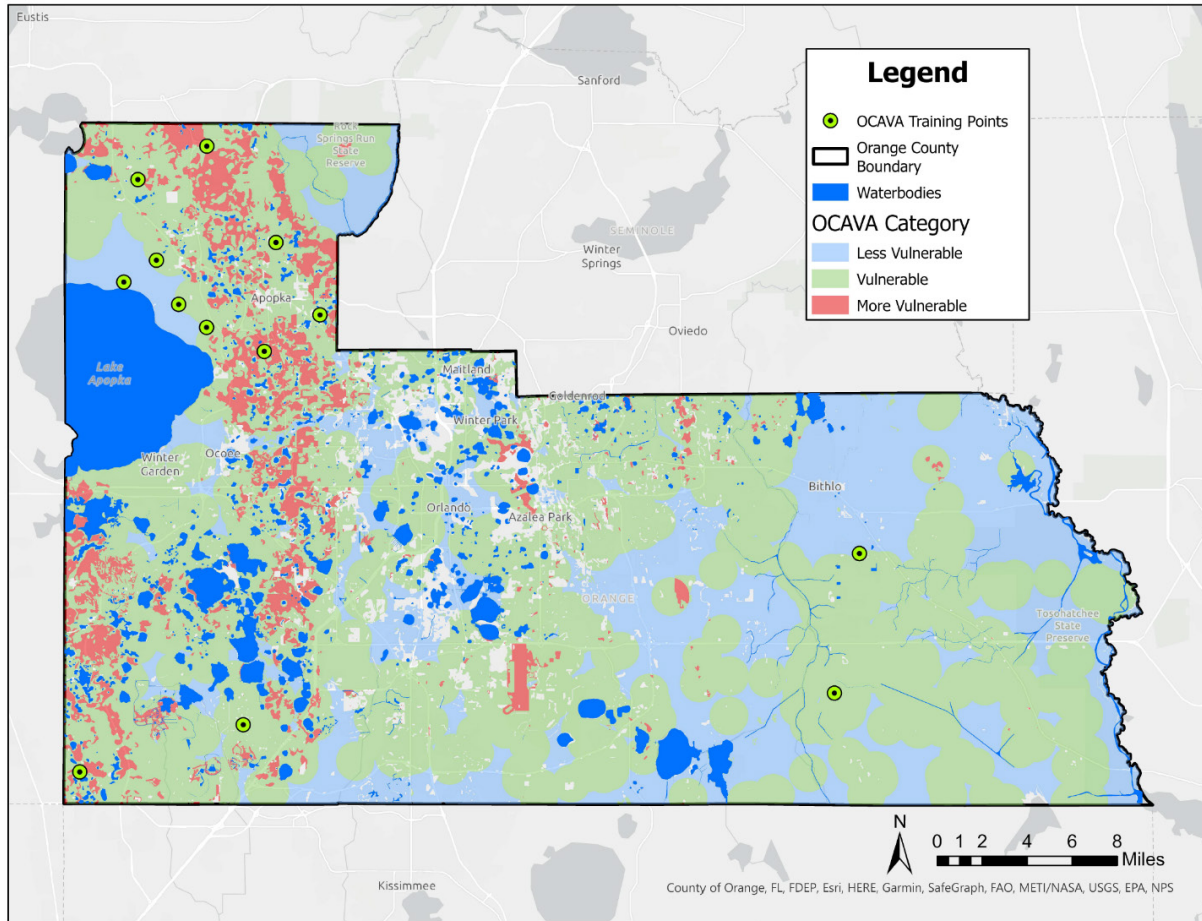


Figure 4. Response Theme: Relative Vulnerability of the SAS in Orange County.

The three vulnerability categories of the response theme are determined by the posterior probability that a training point will occupy a defined unit area within the study area based on the evidential themes. Delineation of the specific vulnerability categories is determined by changes in the relationship between the posterior probabilities and the percent cumulative area (Figure 5). Regions with a posterior probability less than 0.0039 were considered *Less Vulnerable* (27% of the model area), regions with a posterior probability between 0.0039 and 0.0069 were considered *Vulnerable* (58% of the model area), and regions with a posterior probability greater than 0.0069 were considered *More Vulnerable* (15% of the model area).



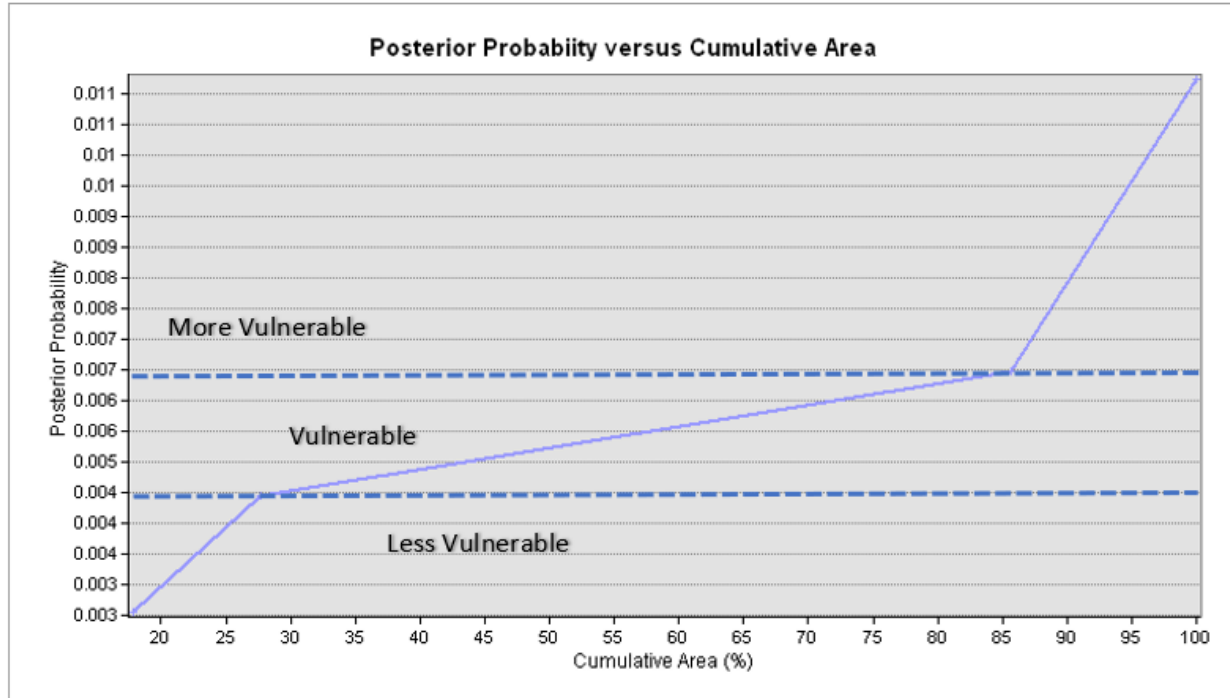


Figure 5. Posterior Probability Plotted with Cumulative Area for the Model.

The prior probability for each model is calculated by dividing the training point unit area by the total study area, effectively calculating the proportion of known impacted regions (SAS wells with elevated DIN) in the study area. Prior probability for this model was calculated to be 0.00538 which is greater than the prior probability of 0.0014 for the FAVA SAS model (Arthur et al. 2017). This means the OCAVA model has more training points per model area compared to the FAVA SAS model. Approximately 57% of the study region had a posterior probability above the calculated prior probability of 0.00538, which indicates that the model is a strong predictor of the location of training points (Arthur et al. 2017).

#### 3.2.1. Model Confidence

Model confidence in the response theme is calculated by dividing the theme's posterior probability by its total uncertainty (standard deviation) (Arthur et al. 2017). This calculation produces a confidence map which shows the quality of the response theme spatially. The confidence map for this study, shown in Figure 6, reveals confidence in the response theme ranges from 80-99%. Generally, the higher confidence areas correspond with higher vulnerability areas, and lower confidence areas correspond to lower vulnerability areas.

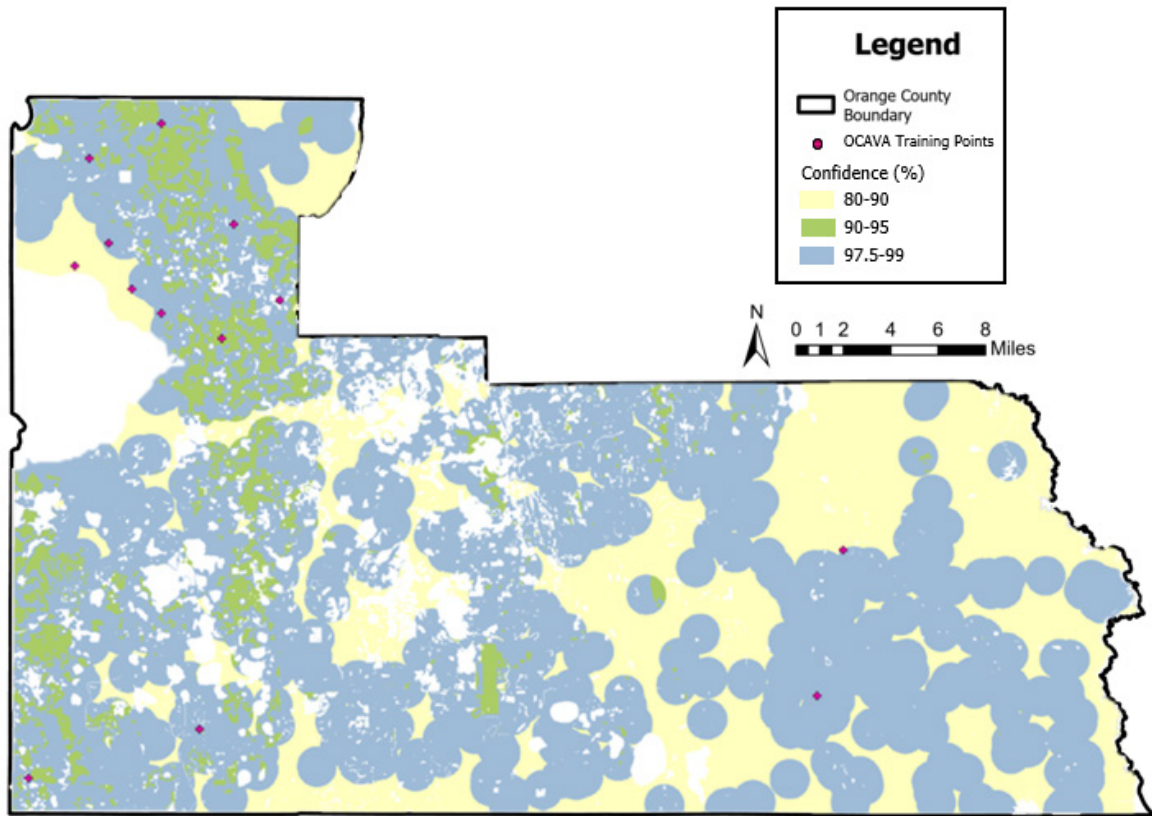


Figure 6. Confidence Map

### 3.2.2. Comparison to Florida Aquifer Vulnerability Assessment (FAVA)

The statewide vulnerability model, FAVA, provides vulnerability of the SAS in Orange County relative to the entire state. The model created for this study, OCAVA, defines vulnerability regions of the SAS relative to the County. The refined scale of the model allows for greater distinction between regions within the County compared to the results from the statewide model (Figure 7).

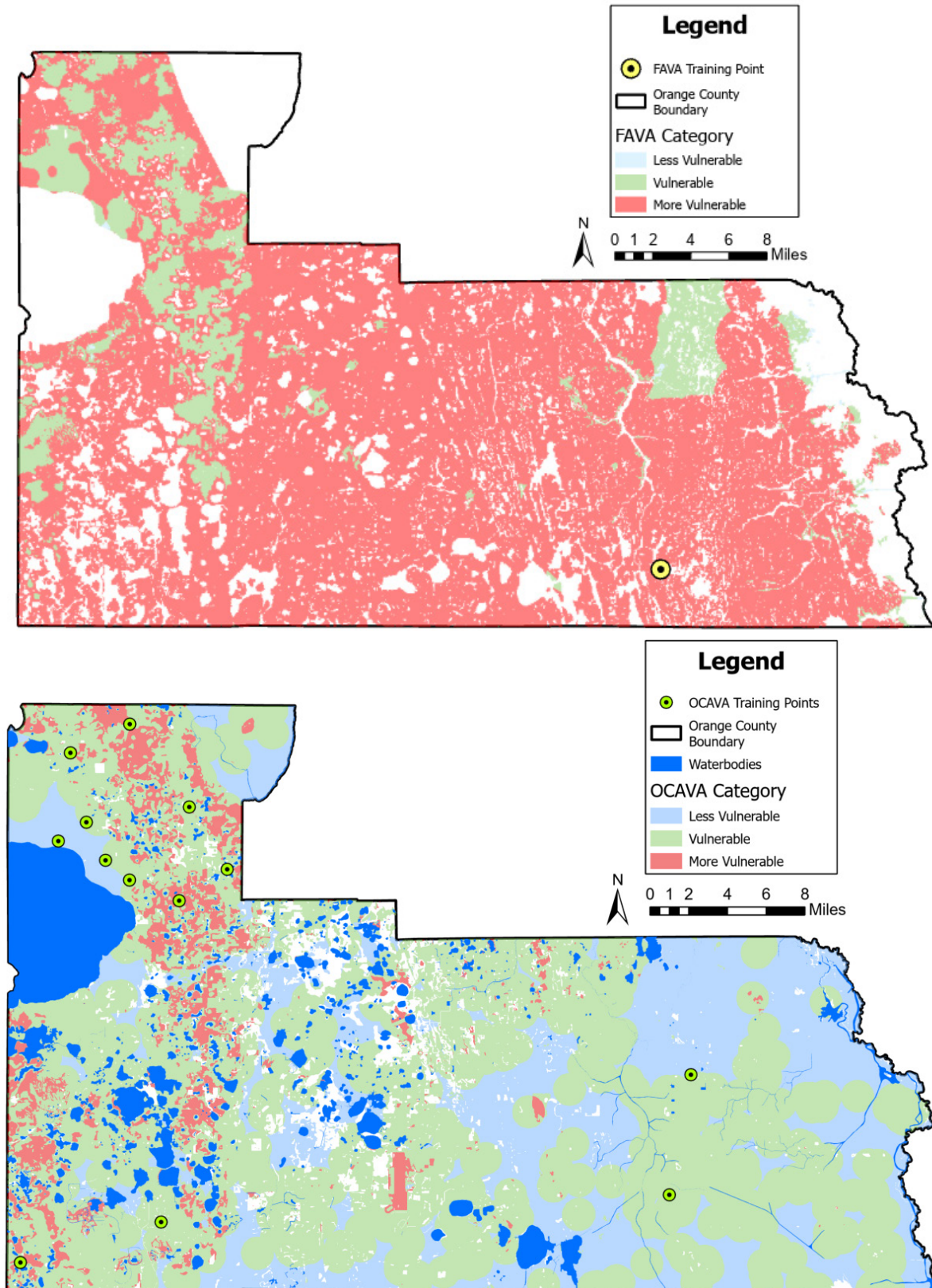


Figure 7. Comparison between the FAVA and OCAVA Results for the SAS.

Regional patterns between the FAVA study and this study show generally similar patterns of more vulnerable areas along a northwest to south-central corridor in the western half of the county and less vulnerable areas in the east. The Wekiva Springs Priority Focus Area (PFA) in the northwestern portion of the county is primarily *More Vulnerable*. Areas in the southwestern portion of the county are also categorized as *More Vulnerable*.

At the scale of the FAVA model, the Orange County region was largely considered *More Vulnerable*. This vulnerability classification correlated with the shallow depths to the water table observed across Orange County compared to the deeper depths observed across the state. When the WOE approach was used to evaluate county-scale vulnerability, the relatively uniformly shallow depth to the SAS across the county did not provide a broad range of values for comparison within the region. The soil hydraulic conductivity did provide valuable information to the vulnerability classification at the county-scale. Distance to karst features were Influential at the state-scale and county-scale.

The OCAVA model shows a pattern of higher vulnerability in the central and western portions of the County, including much of the Wekiwa Springs and Rock Springs PFA, as well as Winter Park and other areas along the western border. To the east, generally lower vulnerability is predicted. This is generally consistent with the prior understanding of high recharge areas located in the central and western portions of the County, as well as areas of higher sinkhole potential.

### 3.3. Limitations and Future work

This study created a map of the relative vulnerability of the SAS to pollution in Orange County using the WOE approach. These results are not directly comparable to vulnerability assessments from other regions since the model defines vulnerability relative to the model extent.

This analysis was limited by the available well data used to develop training points. Spatially, training points were not evenly distributed across the County, with the majority of training points located in the northwestern portion of County. As data becomes available, the model would likely be improved by incorporating training points with greater spatial variability. Evidential themes, such as depth to water, that did not show sufficient generalization (i.e., the data was not predictive of training point locations) may be improved with additional training points. Other sources for SAS water quality data within Orange County that were beyond the scope of this project could be explored in a future effort to increase the number and spatial distribution of training points.

This analysis assumed that the observed DIN in wells was independent of the landcover or human activity on the surface as the intent of the AVA process is to evaluate aquifer vulnerability based on nonanthropogenic properties. To assess this assumption, possible associations between land use and the distribution of mean posterior probabilities (i.e., vulnerability categories) were evaluated (Figure 8). A strong correlation between certain types of land uses and more vulnerable areas (i.e., areas of high posterior probabilities) was not found, which is an indicator that human activity has limited influence on the results. However, if anthropogenic influences are suspected to outweigh the impacts of intrinsic vulnerability in Orange County, then evidential themes that consider anthropogenic impacts, such as distance to impervious surfaces, septic tank density, and land use, could be explored in future with the addition of more training points.

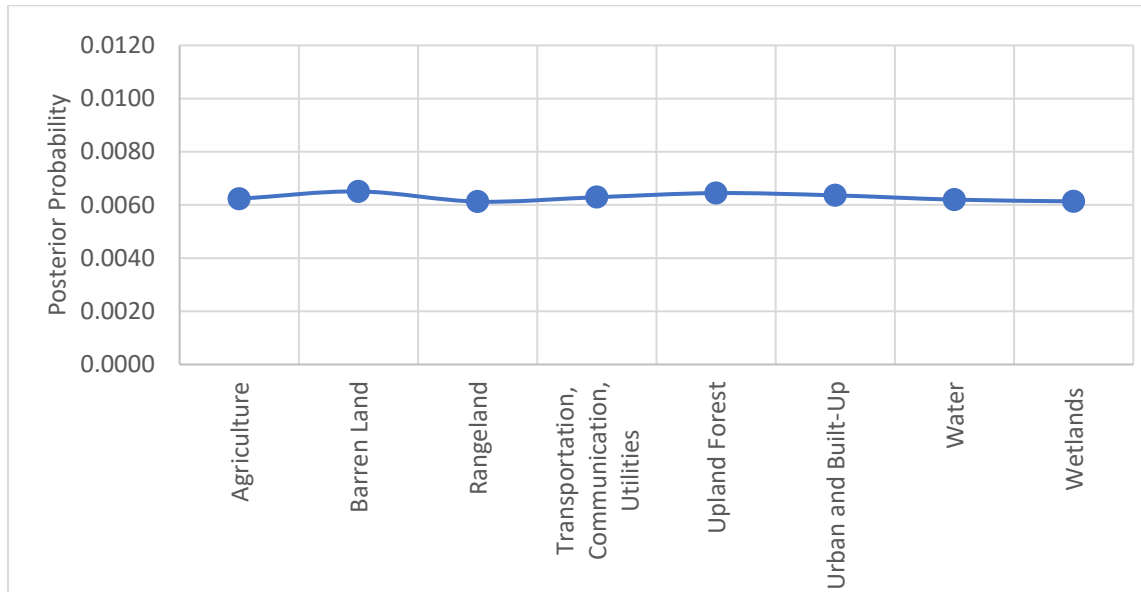


Figure 8. Posterior Probability Calculated for Each Land Use.



## 4. Groundwater Modeling

The OCAVA model and similar WOE-based vulnerability models (e.g., Florida statewide and other Florida counties' AVA studies) predict relative vulnerability for pollution to reach the underlying aquifer. However, this modeling alone is insufficient to understand why certain water resources (e.g., lakes, rivers, springs, etc.) are impacted or become impaired by such vulnerable regions. Countywide groundwater modeling is therefore conducted to understand how the transport of excess nutrients or other pollutants from the SAS can impact important Waterbodies of Interest (WOIs). The groundwater modeling discussed in this report is the initial phase of the groundwater modeling effort for this project. Future efforts will incorporate various water quality transport modeling scenarios, which will be performed in subsequent project phases.

### 4.1. Model Configuration

To assess the influence of vulnerable SAS regions on nitrogen concentrations in WOIs, a countywide groundwater model was developed by refining the regional ECCTX groundwater flow model (Central Florida Water Initiative 2020). The ECCTX model uses MODFLOW-NWT (Niswonger et al. 2011), a groundwater modeling code developed and maintained by the United States Geological Survey, to simulate groundwater flow. The ECCTX model encompasses peninsular Florida from the Gulf of Mexico to the Atlantic Ocean between northern Volusia County and the Charlotte-DeSoto County line and represents the underlying hydrogeologic units using 11 layers (Figure 9). For the purposes of this project, the ECCTX model was refined and modified in an iterative process to better represent local groundwater flow conditions within Orange County using Groundwater Vistas Version 8 (Rumbaugh and Rumbaugh 2020), a pre- and post-processor for MODFLOW models.

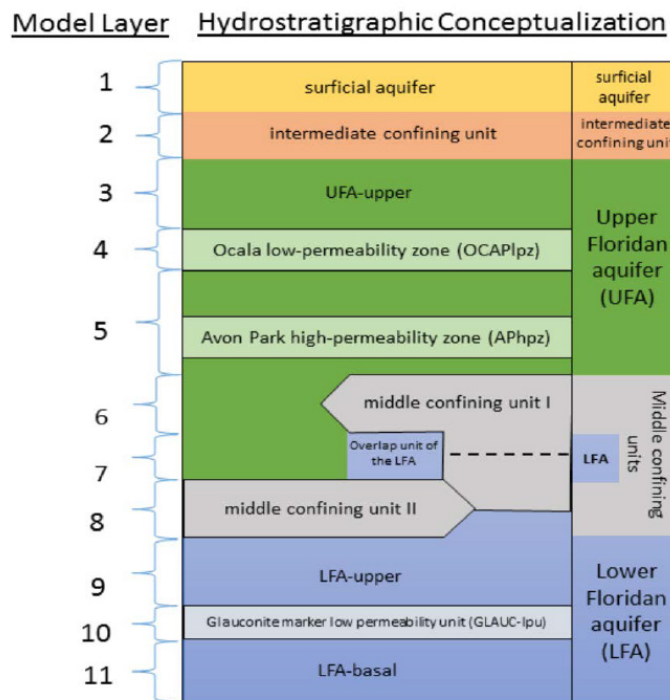


Figure 9. Vertical discretization of the ECCTX Model (Figure from CFWI 2020).

#### 4.1.1. Model Refinement

The model domain and grid resolution were modified using the Telescopic Mesh Refinement (TMR) tool available in Groundwater Vistas Version 8. This tool refines the model grid to a desired resolution throughout a specified area and partitions the existing boundary condition cells, representing waterbodies and other

hydrogeologic features, to corresponding cells at the new grid resolution. The rectangular area selected for TMR included Orange County and areas of Lake, Seminole, Volusia, Brevard, Polk, and Osceola counties. The model grid was refined from the original ECFTX model's 1,250 ft by 1,250 ft cell spacing to a 200 ft by 200 ft cell spacing. Model grid refinement was performed to facilitate simulation of groundwater flow throughout Orange County at a finer resolution than the original ECFTX model, which is needed to perform the particle tracking analysis with sufficient detail to develop groundwater influence zones at the individual water body scale. Care was taken to minimize modifications to the ECFTX model during grid refinement. The refined grid model will be referred to as the Orange County (OC) ECFTX herein.

#### 4.1.2. Model Boundary Conditions and Hydraulic Properties

In the ECFTX model, river boundary condition cells represent rivers, open basin lakes, and wetland areas adjacent to surface waterbodies. Drain boundary condition cells are used to represent a variety of hydrologic features in model Layer 1 including closed basin lakes and adjacent wetlands, lakes with drain wells, and smaller surface waterbodies (i.e., irrigation ditches, headwater drainage features, and shallow surface water bodies). Lakes with drain wells return water to model Layer 3, which represents the Upper Floridan Aquifer (UFA), drain boundary condition cells are also used in Layer 3 to represent springs.

River and drain boundary condition cells were modified to represent surface water features at the refined grid resolution. River and drain boundary condition cells that appeared to represent large surface water bodies (i.e., lake, river, or wetland) but neither overlapped with the corresponding water body defined in the hydrology shapefiles obtained from Orange (Orange County 2021) and Seminole (Seminole County 2013) Counties nor appeared to represent a wetland based on aerial imagery were removed from the model. Select drain boundary conditions representing smaller surface water bodies were removed using the same criteria. Drain cells representing Big Sand Lake were modified to represent the drain well that is currently in operation but not included in the original ECFTX model. Model representation of hydrologic features using boundary conditions before and after model refinement is shown in Figure 10.

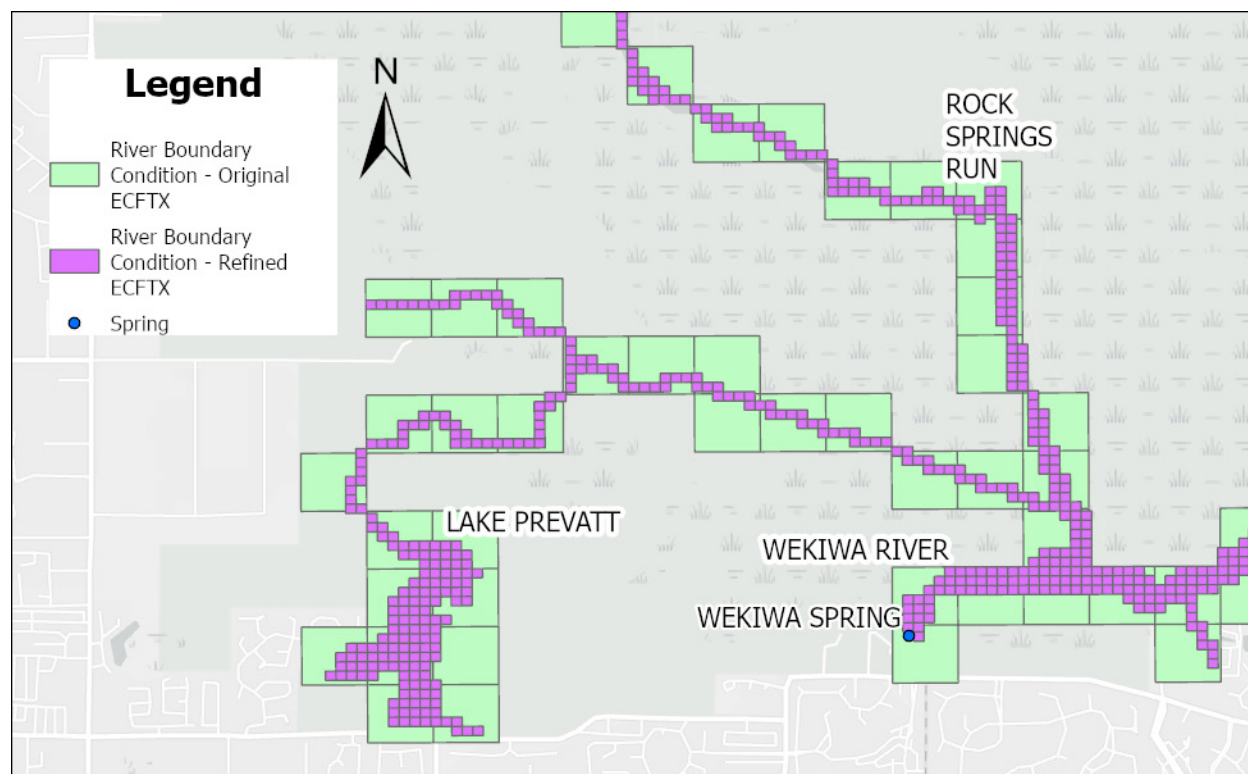


Figure 10. Boundary Condition Refinements More Accurately Representing Water Features

Hydraulic property (e.g., hydraulic conductivity) values assigned to model cells in the original ECFTX model were not changed except for porosity. In the original ECFTX model, the default porosity value was assigned to all model cells. To calculate groundwater travel times more accurately, a general porosity value of 0.25 was assigned to model cells in Layers 1-11. This porosity value was chosen to be representative of the range of possible porosity values (Yu et al. 2015) of the geologic materials (sand, silt, clay, and limestone) which comprise the modeled aquifer units.

#### 4.1.3. Calibration Targets

Locations of head calibration targets in Orange County and the corresponding observed water levels from 2003 were obtained from the online results portal for the ECFTX model<sup>2</sup>. These calibration targets are located throughout the county in the Surficial Aquifer System (SAS; Layer 1) and the transmissive portions of the Upper Floridan (UFA; Layers 3 and 5) and Lower Floridan (LFA; Layers 9 and 11) Aquifers. Head target residuals (difference between observed and computed groundwater elevations or “head” values) were used to guide the iterative refinement and modification of the ECFTX model and assess model calibration both discretely and holistically.

Residual calibration statistics for targets in Orange County for the original and OC ECFTX models are shown in Table 3. Calibration statistics for the OC ECFTX model are similar to those tabulated for the original model, indicating that **the OC ECFTX model is relatively well calibrated, and is therefore suitable for purposes of tracking groundwater through the SAS for this project**. Histograms of target residuals for the original and OC models are shown in Figure 11 and Figure 12 for comparison.

Table 3. Comparison of Residual Statistics for Orange County for the Original and OC ECFTX Models.

RESIDUAL STATISTIC	ORIGINAL ECFTX*	OC ECFTX
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<sup>2</sup> <https://waterapp.shinyapps.io/ecftx/>



<b>RESIDUAL MEAN (FT)</b>	-0.03	0.08
<b>ABSOLUTE RESIDUAL MEAN (FT)</b>	2.48	2.57
<b>RESIDUAL STANDARD DEVIATION</b>	3.19	3.18
<b>SUM OF SQUARES</b>	596.58	595.63
<b>ROOT MEAN SQUARE ERROR</b>	3.18	3.18
<b>MINIMUM RESIDUAL (FT)</b>	-9.37	-9.03
<b>MAXIMUM RESIDUAL (FT)</b>	6.68	6.33

\*Residual statistics calculated using calibration targets in the refined area within Orange County.

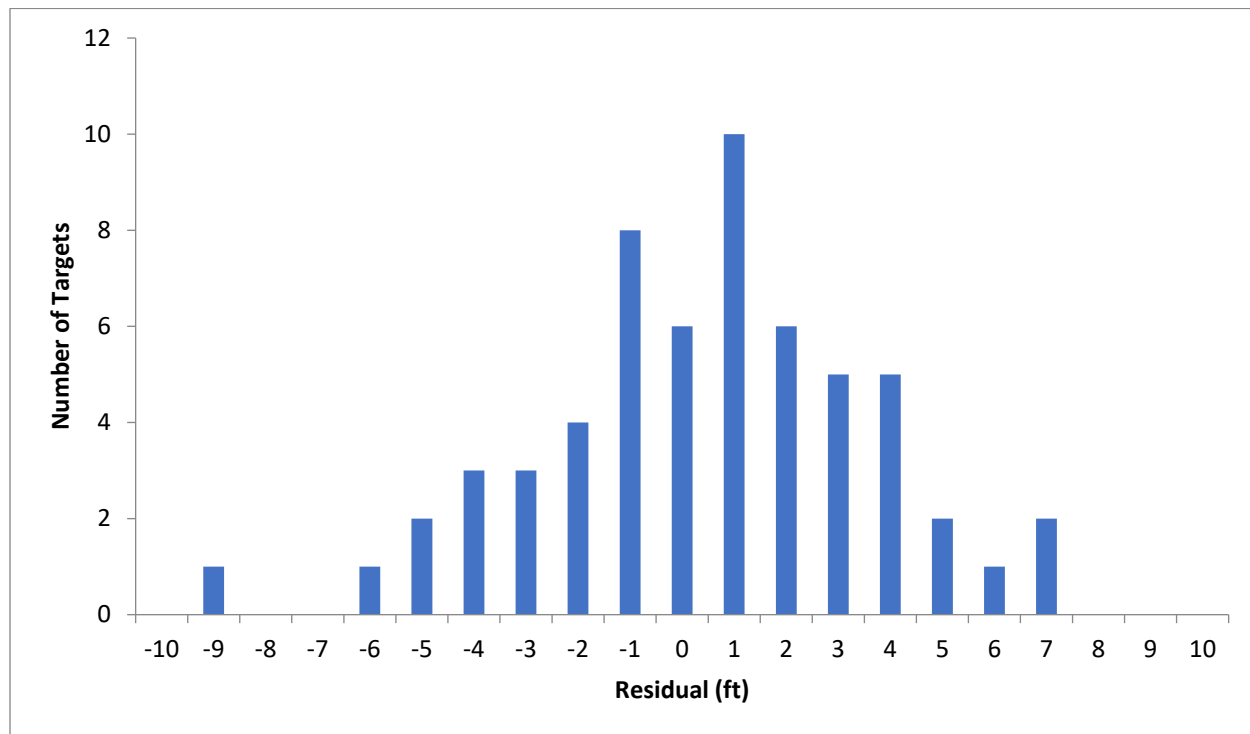


Figure 11. Original ECCTX Model Target Residuals.

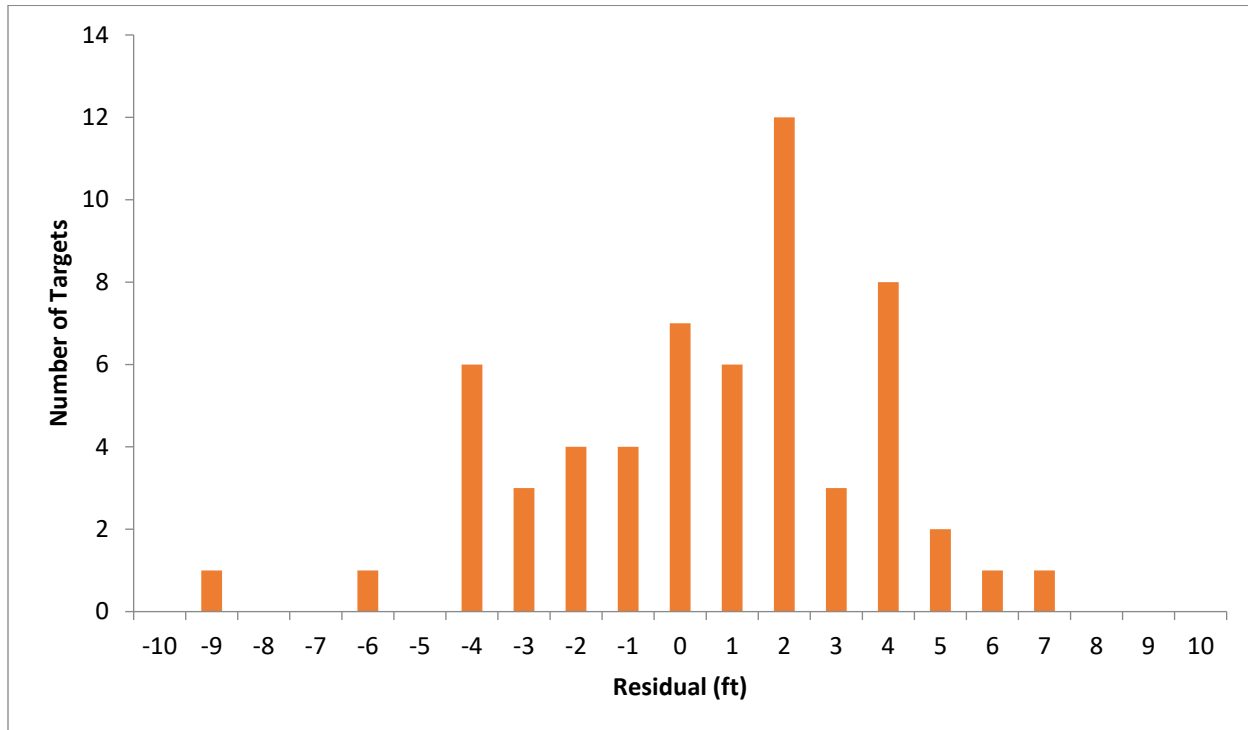


Figure 12. OC ECCTX Model Target Residuals.

#### 4.2. Waterbodies of Interest (WOIs) Influence Zones

The potential for leached nutrients from septic systems to reach surface waterbodies via groundwater pathways can be evaluated if groundwater contributions to those waterbodies are spatially and temporally understood. The potential for elevated nutrient concentrations in lakes and rivers can be increased when septic systems are within areas where groundwater is contributing to those surface waterbodies. Additionally, the time it takes for nutrients in groundwater to travel from the water table to a surface waterbody affects the degree to which nutrients naturally attenuate during transport, which can impact surface waterbody nutrient concentrations. To delineate groundwater contribution zones and quantify groundwater travel times for select lakes and rivers, a particle tracking analysis was performed using the countywide groundwater model discussed in Section 4.1.

The particle tracking analysis focused on 174 WOIs that were more likely to be susceptible to groundwater pollution, already considered impaired for water quality, or are otherwise considered important based on a screening process that considered several criteria. Considerations for waterbodies as a WOI included whether the waterbody is:

- Not attaining standards for select analytes,
- On the Verified List of Non-Attaining Waters for select analytes,
- Associated with a Basin Management Action Plan (BMAP),
- Assigned a Total Maximum Daily Load (TMDL)
- Associated with Outstanding Florida Waters,
- Within a closed basin or karst area, or
- Adjacent to areas with a high density of septic systems.

A more detailed description of the WOI screening process can be found in Appendix B.

Reverse particle tracking was performed on the steady-state groundwater flow field calculated by the OC ECCTX model using MODPATH Version 7 (Pollock 2016). Particles were released at five vertical locations in Layer 1 of the model between the water table and the bottom of the layer at 50 ft intervals along the boundaries of the 174 recommended WOIs, as defined by either the Orange County hydrology shapefile (Orange County 2021) or the Orange County Property Appraiser hydrology shapefile (Orange County Property Appraiser 2021). Using the steady-state flow field, MODPATH tracks the virtual particle upgradient from its endpoint (the WOI) to its origin point. To capture the effects of changes in annual precipitation, reverse particle tracking was also performed using the flow fields from two additional simulations of the OC ECCTX model with 20% more and 20% less recharge.

Using the three sets of origin points (OC ECCTX, plus 20% recharge, minus 20% recharge), groundwater influence zones were generated for WOIs using either the Convex Hull (Minimum Bounding Geometry) or the Concave Hull (Alpha Shapes) Vector Geometry tools in QGIS version 3.20.1-Odense (QGIS 2022). The Convex Hull tool considers the origin points for a waterbody and generates a polygon which encloses the origin points for each waterbody while maximizing the area (similar to putting a rubber band around the farthest particle end points). This tool was used to generate the influence zones for each of the WOIs except for the Econlockhatchee River, the Little Econlockhatchee River, and Crane Strand.

The Concave Hull (Alpha Shapes) tool was used to generate the influence zones for the Econlockhatchee River, the Little Econlockhatchee River, and Crane Strand. The Concave Hull (Alpha Shapes) tool is like the Convex Hull tool in that it creates a polygon which encloses the origin points for each water body (similar to connecting the dots around the perimeter); however, instead of maximizing area, the algorithm connects the origin points with constraints on the angle of the line needed to connect the next closest point, as determined by the alpha value. The Concave Hull (Alpha Shapes) tool was used to develop the influence zones for these waterbodies because the Convex Hull did not produce realistic influence zones.

Origin points generated for WOIs with the same name (e.g., Tootoosahatchee Creek, Turkey Creek) were combined to create one influence zone for the WOI. Similarly, origin points for the tributaries of the Econlockhatchee River were combined with origin points for the main Econlockhatchee River to generate one influence zone. Using these methods, 166 unique influence zones were produced. Examples of influence zones generated using the convex hull and concave hull tools are presented in Figure 13.

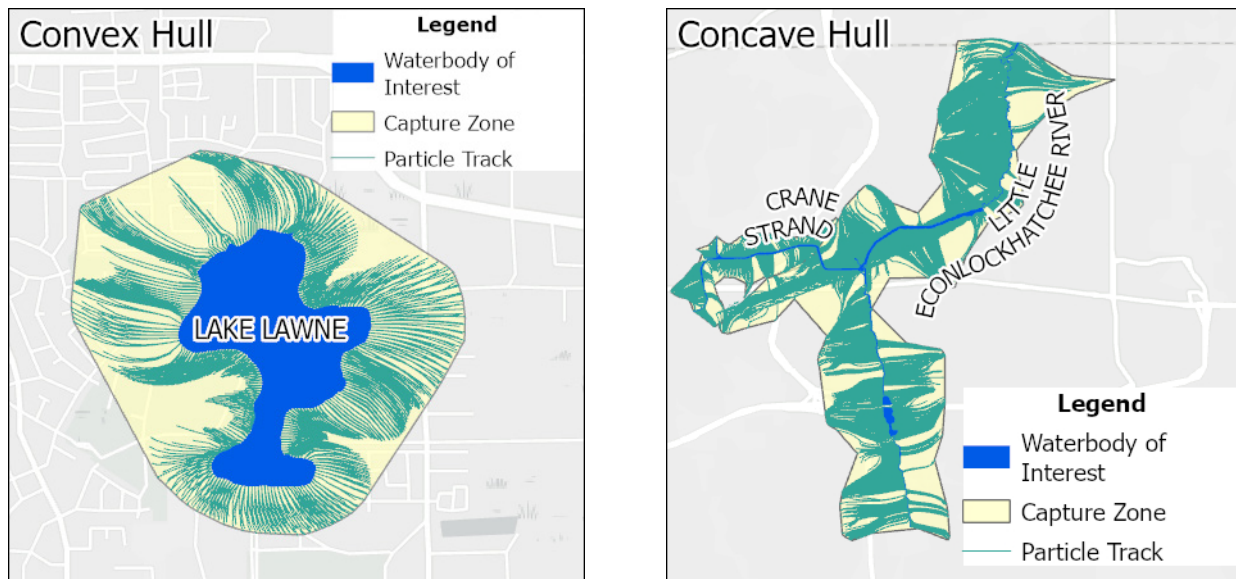


Figure 13. influence Zones Generated using the Convex Hull and Concave Hull Tools.

Influence zones for the WOI in western Orange County generally mirrored the shapes of the WOI, which indicates that groundwater flowing into these WOI comes from recharge in the surrounding areas. Influence zones in WOI in eastern Orange County were generally elongated, which indicates that, in addition to recharge from the surrounding areas, groundwater flowing into these WOI comes from recharge zones hydraulically upgradient (generally west) of the WOI. The influence zones generated using the methods are shown in Figure 14.

Median travel times were tabulated for each WOI using the results of the particle tracking analysis. Travel times for the recommended WOI ranged from less than 1 year to over 15 years. The WOI with the shortest median travel times were generally in western Orange County and include Lake Rutherford, Lake Olivia, Lake Fischer, Lake Stanley, and Lake Lucy, which have median travel times of 0.4 years, 0.6 years, 0.6 years, 0.6 years, and 0.7 years, respectively. The WOI with the shortest median travel times are relatively small waterbodies, with the smallest being Lake Rutherford, with an area of approximately 13 acres, and the largest being Lake Olivia, with an area of approximately 88 acres. The WOI with the longest median travel times were in eastern and southern Orange County and include Lake Jennifer, Lake Suzanne, Tootoosahatchee Creek, the Econlockhatchee River, and Lake Tucker, which have median travel times of 15.3 years, 12.9 years, 11.5 years, 7.7 years, and 7.0 years, respectively. Influence zone median travel times are summarized in Figure 14.

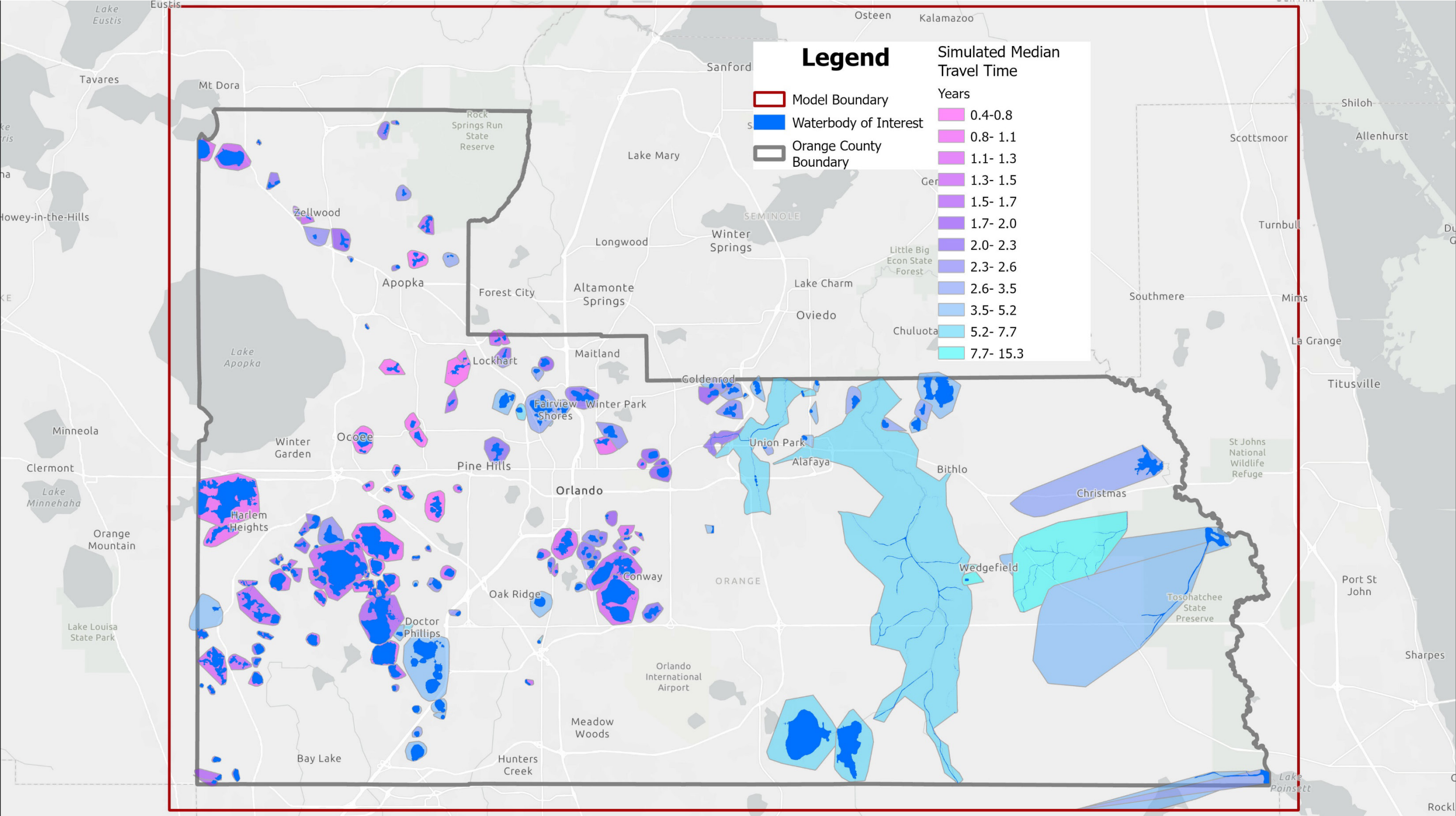


Figure 14. Influence Zones with Median Travel Times.



## 5. Regional Septic & Sanitary Sewer Spatial Analysis

A septic system and sanitary sewer spatial analysis was conducted to provide context to the vulnerability and groundwater modeling described in the earlier sections. Septic systems are documented in Orange County as a major source of groundwater pollution and therefore must be represented to understand where the largest pollution risk factors originate and to what degree. Simply understanding the density of septic systems (i.e., number of septic tanks per acre) is not sufficient at addressing pollution risk, as dense septic systems in less vulnerable regions may represent a lower risk than lower density septic systems in higher vulnerable regions. Other factors, including whether waterbodies surrounding septic systems are impaired, what the population growth trends are spatially, the expansion plans of sewer and wastewater treatment systems, the functioning of existing septic systems (i.e., whether they are adequately controlling pollution onsite), and other factors complicate the development of a countywide vulnerability assessment.

The efforts discussed in this section were conducted by subconsultant Applied Ecology, Inc. (AEI) and Drummond Carpenter. AEI performed the initial septic system vulnerability and prioritization mapping to illustrate where existing septic regions are more likely contributing to surface water and groundwater impairments countywide. These mapped areas represent the initial effort to identify regions that are of higher priority for septic system intervention, such as septic-to-sewer retrofits, advanced treatment septic system retrofits, or other administrative options such as rulemaking updates to the County's Comprehensive Plan or Land Development Code.

AEI's assessment utilized many available GIS datasets as well as Drummond Carpenter's OCAVA model to establish a priority ranking system for subdivisions primarily on septic (>50% septic) within the County boundary. Subdivisions were used as the base "unit" in the mapping scheme, as these are generally individual neighborhoods that share similar conditions. Since it is likely that septic system interventions will be implemented at a subdivision scale, this method was deemed appropriate. High priority ranking areas were expected to be characterized by higher septic, population, and housing densities, a shallower groundwater table, shorter distances to waterbodies, the OCAVA *More Vulnerable* category, and are within an impaired watershed. Further refinement of these priority areas will be completed during the future phase of this project.

The following subsections briefly summarize key points from the analysis performed by AEI while the complete *Septic and Sewer Spatial Analysis Technical Memorandum Report* is included as Appendix C.

### 5.1. Orange County Septic System Database

A major difficulty with septic system analysis is having confidence in knowing where and how many septic systems exist, which can create uncertainty in the underlying data and results. To address this, multiple data sources were collected, assessed, and collated into a comprehensive septic system database for Orange County. Information collected includes known septic locations from state and wastewater utility-provider sources, municipal wastewater data, and billing data from utility providers from Orange County and other cities. A map of the countywide septic systems is included in Exhibit 1.

### 5.2. Initial Septic System Vulnerability and Prioritization Mapping Parameters

AEI's data acquisition effort included GIS datasets for septic inventory, current sewer infrastructure, current land use, hydrographic features, elevation datasets, census and census-derived datasets, and property appraiser data. Each dataset was processed to support the development of the ranking system to prioritize subdivisions based on their potential to contribute to the pollution of groundwater and waterbodies. Parameters selected for use in the ranking process include the following:

- Septic density,
- OCAVA category,
- Percent of subdivision within an impaired surface or spring watershed,
- Housing density change (2020-2050),
- Population density (2010),
- Population density change (2000-2020),
- Mean year subdivision was built,
- Mean distance to waterbody,
- Mean elevation (as a proxy for depth to groundwater table), and
- Distance to existing infrastructure (force and gravity main).

#### 5.2.1. Septic Density

Septic density was calculated as the number of septic tanks per acre. An area with a higher septic density is expected to create a larger volume of septic leachate with greater pollution potential compared to an area with a lower septic density.

#### 5.2.2. OCAVA Category

The OCAVA modeling classified the County into three categories: (1) *Less Vulnerable*, (2) *Vulnerable*, and (3) *More Vulnerable*. Each subdivision was assigned a ranking value for this parameter by calculating the average category of the subdivision area. To calculate the average, a value was assigned to each category (i.e., *Less Vulnerable* = 1, *Vulnerable* = 3, and *More Vulnerable* = 6).

#### 5.2.3. Area within Impaired Watershed or Springshed

The area of each subdivision that falls within an impaired watershed was calculated for this parameter. Areas within an impaired watershed or springshed are more vulnerable to pollution as they already have pollutants exceeding acceptable levels.

#### 5.2.4. Housing Density Change

Future housing density change projections for 2020 to 2050 were obtained for subdivisions with greater than 50% of parcels on septic. Greater housing density is anticipated to correspond to more septic tanks and more people using them which will correlate with greater pollution potential.

#### 5.2.5. Population

Population data, including 2010 population density and population density change from 2000 to 2020, were obtained for use in the priority ranking. Greater population density in subdivisions primarily on septic is expected to create a larger volume of wastewater, increasing pollution potential.

#### 5.2.6. Year Built

Subdivision age was considered an important parameter because prior to 1962 no specific Florida Statute regulated conditions to siting septic tanks. Additionally, older infrastructure may not perform as well as newer infrastructure leading to greater pollution potential. For example, older subdivisions on septic have simply had more time for potential release of pollutants to groundwater.

#### 5.2.7. Distance to Waterbody

The distance from a septic tank to a nearby waterbody can be a controlling factor for the likelihood of leached pollutants to reach the waterbody. Typically, the shorter the distance to a nearby waterbody, the faster

pollutants can reach the waterbody. Shorter travel times also reduce the potential for natural attenuation processes of pollutants, such as denitrification.

#### 5.2.8. Elevation

Elevation was used as a proxy for depth to SAS. Mean elevation above mean sea level (AMSL) typically has strong correlation with the water table (e.g., correlation coefficients often above 0.8-0.9, Rios et al. 2011). A shallower depth to water table is expected to have a greater pollution potential due to the shorter distance to reach groundwater.

#### 5.2.9. Distance to Infrastructure

The minimum distance to sewer main line (force and gravity) was included to add an element of feasibility for the priority areas. Subdivisions closer to existing infrastructure will likely be easier to retrofit compared to subdivisions lacking nearby infrastructure. This distance serves as a proxy for potential cost associated with connection; though, it is one of many considerations that would be further evaluated if a subdivision was selected for septic retrofit options, such as septic-to-sewer.

### 5.3. Initial Priority Ranking Methodology

Once the data were gathered for the selected parameters and their association with vulnerability and retrofit priority was established, each set of parameters was divided into six classes. These classes were assigned values or “ranks” from 1 to 6, with a rank of 1 having lower pollution potential and a rank of 6 having the highest pollution potential.

The individual parameter ranks were aggregated for each subdivision to determine the subdivision’s priority rank value. Three methods of aggregation were evaluated: (1) an Unweighted Vulnerability Scheme, (2) a Weighted Vulnerability Scheme, and (3) a Weighted Connectivity Scheme.

The vulnerability schemes, strictly concerned with pollution potential, did not include the distance to existing infrastructure. In the Unweighted Vulnerability Scheme, aggregation was performed by calculating the mean of individual parameter ranks with each parameter weighted equally. Realistically, however, certain parameters were predicted to have a greater influence on vulnerability. To account for this, weights were assigned to these parameters in the Weighted Vulnerability Scheme before calculating the mean priority rank. The parameters and assigned weights for the vulnerability schemes are shown in Table 4.

*Table 4. Vulnerability Scheme Parameters and Weight Values (Table 5 in Appendix B).*

VARIABLE NAME	UNWEIGHTED VULNERABILITY SCHEME	WEIGHTED VULNERABILITY SCHEME
SEPTIC DENSITY (#/ACRE)	1	2
OCAVA VULNERABILITY CATEGORY	1	2
PERCENT SUBDIVISION IN IMPAIRED WATERSHED OR SPRINGSHED	1	2
HOUSING DENSITY CHANGE (2020-2050)	1	0.5
POPULATION DENSITY CHANGE	1	1
MEAN YEAR BUILT	1	1
MEAN DISTANCE TO WATER (METERS)	1	2
MEAN SURFACE ELEVATION (FT)	1	1

\*Variables with a higher weighted value are considered more influential factors contributing to pollution potential.



To add an element of retrofit feasibility, the Weighted Connectivity Scheme included the distance to existing force and gravity mains. Greater detail on feasibility, including costs, capacity, and constraints would require an engineering evaluation which is not part of this assessment. The Weighted Connectivity Scheme was created by adding the parameter for distance to existing infrastructure to the Weighted Vulnerability Scheme (Table 5).

Table 5. Connectivity Scheme Parameters and Weight Values (Table 6 from Appendix B).

VARIABLE NAME	WEIGHTED CONNECTIVITY SCHEME
SEPTIC DENSITY (#/ACRE)	2
OCAVA VULNERABILITY CATEGORY	2
PERCENT SUBDIVISION IN IMPAIRED WATERSHED OR SPRINGSHED	2
HOUSING DENSITY CHANGE (2020-2050)	0.5
POPULATION DENSITY CHANGE	1
MEAN YEAR BUILT	1
MEAN DISTANCE TO WATER (METERS)	2
MEAN SURFACE ELEVATION (FT)	1
DISTANCE TO EXISTING SEWER INFRASTRUCTURE	2

#### 5.4. Initial Priority Ranking Results

There were noticeable variations in the results of the three ranking schemes, yet the top priority ranking subdivisions did have some consistencies across schemes. Table 6 shows the top 15 ranking subdivisions for each scheme. There are five common subdivisions that rank within the top 15 for each scheme. Additionally, the Piedmont Estates subdivision ranked either 1<sup>st</sup> or 2<sup>nd</sup> in each priority list.

Table 6. Top Priority Ranking Subdivisions among Three Ranking Schemes per the Initial Priority Rankings (Table 1 from Appendix B).

RANK	UNWEIGHTED VULNERABILITY RANK	WEIGHTED VULNERABILITY RANK	WEIGHTED CONNECTIVITY RANK
1	Semoran Club Condo	Long Lake Villas Ph 1B	Piedmont Estates
2	Piedmont Estates	Piedmont Estates	Lake Florence Highlands Ph 1
3	Ranchette	Lake Florence Highlands Ph 1	Semoran Club Condo
4	Riverside Acres	Eden Park Estates	J L M Condo
5	Long Lake Villas Ph 1B	Semoran Club Condo	Eden Park Estates
6	Wells Gap	J L M Condo	Lake Cortez Woods
7	Rimar Ridge	Little Lake Park	Little Lake Park
8	Eden Park Estates	Parc Corniche Condo Ph 1	Long Lake Villas Ph 1B
9	Monroe Manor	Troynelle By Big Lake Apopka	University Garden
10	Holiday Heights	Wells Gap	Pennsy Park
11	Lake Barton Park	Lake Cortez Woods	Lake Barton Park
12	Little Lake Park	Little Lake Georgia Terrace	Callum Mac Sub
13	Meadowbrook Annex 2 <sup>nd</sup> Add	Ranchette	Enclave At Oxford Place Condo
14	Riverside Acres 1 <sup>st</sup> Add	Parc Corniche Condo Ph 2	Meadowbrook Annex 2 <sup>nd</sup> Add
15	Wekiva Manor Sec 2	Rimar Ridge	Little Lake Georgia Terrace

Across schemes, the higher priority areas were generally spread within the central northwestern portion of the County. These areas were commonly characterized by older developments, higher housing and population densities, shorter distances to waterbodies, *OCAVA More Vulnerable category*, and within an impaired watershed. Socioeconomic factors, while an important consideration in County planning, were not incorporated into the ranking schemes as their impact on pollution potential or feasibility for retrofit can be difficult to establish.

The results can be viewed spatially for each of the schemes in Figures 15 – 17. The overall prioritization appears relatively similar between schemes. Adding weights to significant parameters in the ranking for the Weighted Vulnerability Scheme did appear to increase the total number of higher priority subdivisions across Orange County. Similarly, incorporating the distance to existing sewer infrastructure to the ranking for Weighted Connectivity Scheme also increased the total number of higher priority subdivisions.

There are several higher priority subdivisions within the Wekiva PFA. The County currently has multiple septic-to-sewer retrofit projects ongoing in this area, as well as funding assistance programs to support these projects from the state. Areas in the eastern portion of the County generally rank lower on the priority schemes. Longer groundwater travel times and lower population, housing, and septic densities in the eastern region create a lower pollution potential relative to other areas in the County. Further refinements in the next phase of this project are expected to be incorporated and these results are therefore subject to change.

29 | Page



30 | Page



31 | Page

## 6. Vulnerability Categories and Future Tasks

Based on the foregoing sections, several initial tasks have been completed to assess groundwater vulnerability of Orange County, its sources of potential septic pollution, and the groundwater pathways through which this pollution may impact sensitive County surface water and groundwater resources. These tasks are briefly summarized below:

1. **Orange County Aquifer Vulnerability Assessment** – The OCAVA mapping effort used a data-driven methodology developed by the State of Florida for assessing surficial aquifer vulnerability. Relative vulnerability scores were provided for most areas throughout the County. This vulnerability represents the relative potential for pollutants applied within the unsaturated soil zone (i.e., at or immediately below the land surface) to reach the underlying aquifer.
2. **Countywide groundwater modeling** – A countywide groundwater model was developed based on the calibrated and peer reviewed ECCTX groundwater model that was created as part of the Central Florida Water Initiative. This groundwater model predicts how groundwater travels within the SAS (and lower aquifers) before reaching sensitive water resources, such as lakes and rivers (via groundwater seepage) or springs (via UFA transport). Groundwater influence zones (i.e., groundwater basins) were generated for 174 waterbodies of interest to predict where sources of pollutants (e.g., septic system leachate) may originate from and impact these WOIs.
3. **Septic System Spatial Analysis & Initial Prioritization Mapping** – This effort developed a countywide septic system database reflecting the best available information of where septic systems are most likely located throughout the County. Additionally, an initial prioritization mapping scheme was developed based on existing septic infrastructure, aquifer vulnerability, retrofit feasibility, and other factors to produce preliminary prioritizations for septic system interventions.

The results from these tasks were used to develop recommendations and an approach to complete the future project phase, which is described in this section below. This future phase will consist of water quality modeling of septic system leachate under representative conditions in Orange County to quantify the pollutant transport to receiving waterbodies. Results of this water quality modeling will inform recommendations for future septic system interventions within the County.

In addition, a Preliminary Groundwater Vulnerability and Prioritization Decision Matrix is presented below. The purpose of this matrix is to propose a list of considerations that should be included to develop the Final Septic System Prioritization Map. This list builds upon the Initial Prioritization Mapping efforts discussed in Section 5 and may incorporate other considerations including the results of the water quality modeling efforts, groundwater influence zones, socioeconomic factors, funding opportunities, or others. This matrix will be refined throughout the next phase of this project through coordination and collaboration with OCEPD and other stakeholders.

### 6.1. Preliminary Groundwater Vulnerability and Prioritization Decision Matrix

Integrating the OCAVA modeling, WOI influence zones, and Septic & Sanitary Sewer Spatial Analysis, a Preliminary Groundwater Vulnerability and Prioritization Decision Matrix (Matrix) was created to provide a quantitative method to generate a Final Septic System Prioritization Map within the study area (Table 7). This table is expected to be refined in the next phase of this project.

Table 7. Preliminary Groundwater Vulnerability and Priority Decision Matrix \*.

PARAMETER	HIGH PRIORITY	MEDIUM PRIORITY	LOW PRIORITY
<b>AREA WITHIN WOI INFLUENCE ZONE</b>	Yes	-	No
<b>GRANT OR FUNDING POTENTIAL</b>	Yes	-	No
<b>SEPTIC SYSTEM TYPE</b>	Conventional	-	Advanced
<b>OCAVA CATEGORY</b>	More Vulnerable	Vulnerable	Less Vulnerable
<b>TRAVEL TIME TO RECEPTOR WATERBODY</b>	Fast (<1 year)	Average (1-7 years)	Slow (>7 years)
<b>SEPTIC DENSITY (#/ACRE)</b>	High (3-6)	Average (0.6-3)	Low (<0.6)
<b>PERCENT WITHIN IMPAIRED WATERSHED</b>	High (>90%)	Average (10-90%)	Low (<10%)
<b>HOUSING DENSITY CHANGE 2020-2050 (HOUSES/KM<sup>2</sup>)</b>	High (>1K)	Average (30-1K)	Low (<30)
<b>POPULATION DENSITY (PERSON/ACRE)</b>	High (>6)	Average (1.5-6)	Low (<1.5)
<b>MEAN YEAR BUILT</b>	<1962	1962-1999	>1999
<b>DEPTH TO GW (FT)</b>	Shallow (<10)	Average (10-50)	Deep (>50)
<b>DISTANCE TO EXISTING SEWER INFRASTRUCTURE (FT)</b>	Short (<500)	Average (500-2K)	Long (>2K)
<b>SOCIOECONOMICS</b>	Incorporated as appropriate		

\*General relationship of parameters to prioritization expected to stay consistent; however, appropriate cut-offs for each parameter among priority categories (i.e., High, Medium, Low) are subject to change and will likely be improved by future modeling efforts in subsequent project tasks.

## 6.2. Socioeconomic Considerations

Septic system retrofits are cost intensive. Consequently, socioeconomic is an important consideration in addition to aquifer vulnerability and feasibility factors when selecting priority areas. In some cases, grants and other potential funding sources can help offset the financial burden for individual homeowners.

Maintaining septic systems can also be costly and is necessary to keep the systems functioning properly. Proper maintenance and repair of septic systems may be more likely to be postponed due to the cost in areas with lower household incomes which increases pollution potential of septic tanks in these areas.

The priority ranking did not include socioeconomic parameters due to the difficulty in quantifying their impact. Still, socioeconomic could be factored into decision-making as appropriate in the future phase of this project.

## 6.3. Future Task: Water Quality Modeling

Water quality modeling scenarios are proposed to further evaluate the influence of key parameters on the likelihood of septic pollution reaching groundwater and waterbodies. The modeling effort proposed will focus on depth to groundwater, soil hydraulic conductivity, travel time to waterbody, and type of septic system (i.e., conventional or advanced treatment). The results of this effort will strengthen the analysis of priority areas for retrofits to allow for selection of most vulnerable areas or areas that retrofits are anticipated to have the greatest positive impact towards reducing nutrient pollution.

### 6.3.1. Depth to Groundwater

Depth to groundwater can be an important control on pollution potential because it can impact the extent of unsaturated zone attenuation. In areas with a shallow depth to water, there is less distance for the pollutant to travel from the septic system to the groundwater table, which typically corresponds to less opportunity for



attenuation to occur compared to areas with deeper groundwater tables. Consequently, a shallow depth to water is associated with a higher pollution potential. As discussed in the vulnerability analysis, the available datasets for depth to water within Orange County would be improved by the addition of more data points.

#### 6.3.2. Soil Hydraulic Conductivity

As discussed previously in Section 3, soil hydraulic conductivity is a measurement of how well a fluid can move through pore spaces or fractures under nearly saturated conditions. A higher soil hydraulic conductivity is associated with a higher pollution potential as pollutants will more easily travel through the saturated zone. The impact of soil hydraulic conductivity on septic tank pollution potential will be evaluated by modeling scenarios with high and low magnitude values. The soil hydraulic conductivity reported by SSURGO ranged from approximately 5-70 ft/day in Orange County.

#### 6.3.3. Travel Time to Receptor Waterbody

Travel time for a pollutant from where it enters the SAS to the receptor waterbody can be an important predictor of pollution potential. Longer travel times are expected to allow for greater reduction of pollutants from septic leachate through attenuation processes. The influence zones of WOIs reveal that travel times can range from less than 1 year to greater than 15 years. The modeling scenarios will help define the relationship between travel time and nutrient load reduction.

#### 6.3.4. Septic System Type

The septic system type will influence the pollution potential as it affects the contents of the septic leachate. Advanced treatment septic systems allow for additional treatment of wastewater compared to conventional septic systems. Evaluation of the reduction in nutrient loading from the higher degree of treatment by advanced systems will help determine how to prioritize septic-to-sewer retrofits vs conventional-to-advanced septic retrofits in vulnerable areas.

#### 6.3.5. Proposed Modeling Scenarios

Sixteen water quality modeling scenarios are proposed to explore the influence of key parameters on pollution potential (Table 8). These scenarios will be evaluated in *the subsequent phase* of this project. Modeling will consist of unsaturated and saturated transport of septic leachate under varying conditions.

Table 8. Proposed Modeling Scenarios.

MODELING SCENARIO	DEPTH TO GW	SOIL HYDRAULIC CONDUCTIVITY	TRAVEL TIME TO RECEPTOR WATERBODY	SEPTIC SYSTEM TYPE
1	Deep	High	Fast	Conventional
2	Shallow	Low	Slow	Advanced
3	Shallow	High	Fast	Conventional
4	Shallow	Low	Fast	Conventional
5	Shallow	Low	Slow	Conventional
6	Deep	Low	Slow	Advanced
7	Deep	High	Slow	Advanced
8	Deep	High	Fast	Advanced
9	Shallow	High	Slow	Advanced
10	Shallow	High	Fast	Advanced

<b>11</b>	Shallow	Low	Fast	Advanced
<b>12</b>	Deep	Low	Fast	Conventional
<b>13</b>	Deep	Low	Slow	Conventional
<b>14</b>	Deep	High	Slow	Conventional
<b>15</b>	Shallow	High	Slow	Conventional
<b>16</b>	Deep	Low	Fast	Advanced

Unsaturated water quality modeling of septic leachate will be performed using the Soil Treatment Model (STUMOD-FL), which was developed specifically to evaluate nitrogen attenuation from septic systems in the unsaturated soil zone in Florida (FDOH 2015). The results from STUMOD-FL will inform the saturated water quality transport model, which will be used to predict the transport of hypothetical septic plumes in the saturated zone to a receptor waterbody. Figure 18 illustrates septic leachate in the unsaturated soil zone as it drains into the saturated surficial aquifer.

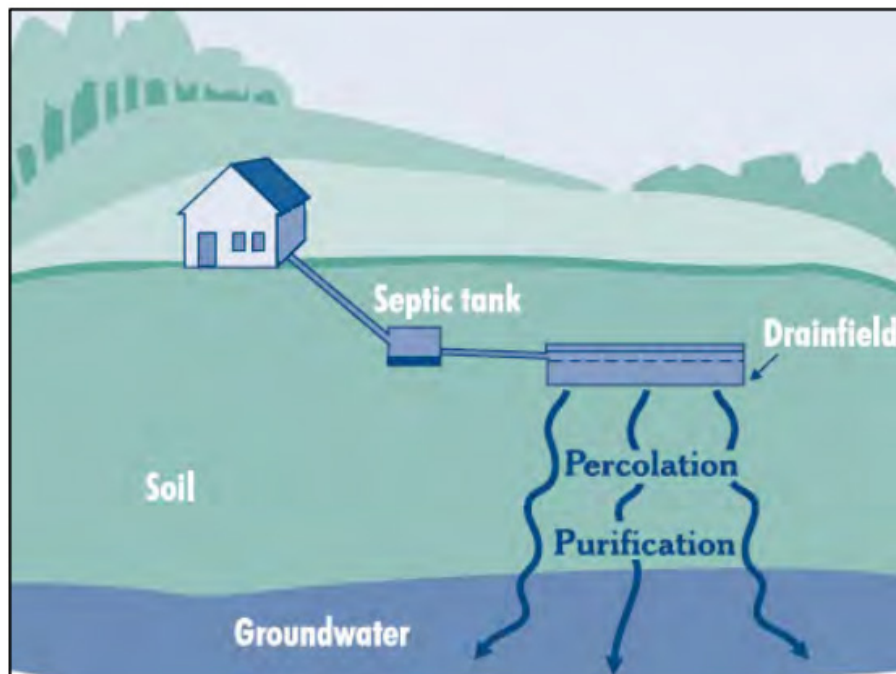


Figure 18. Conventional Septic System Leachate Transport (Figure obtained from FDOH 2015).

The ultimate objective of the modeling assessment is to estimate the nitrogen attenuation and load to respective waterbodies for each scenario. These results will allow for a better understanding of the significance of each of these parameters to pollution potential. High-risk areas can be identified using this knowledge to help planning, prioritization, and regulation of septic system management within the County.

#### 6.4. Next Steps

Drummond Carpenter recommends that the County coordinate with relevant stakeholders to review the Decision Matrix outlined in Section 6.1, as well as the proposed water quality modeling scenarios presented in Section 6.3, to ensure that these adequately represent the variables and conditions for the ultimate vulnerability mapping effort. Once feedback is provided by Orange County, Drummond Carpenter will proceed with the final phase of this project.

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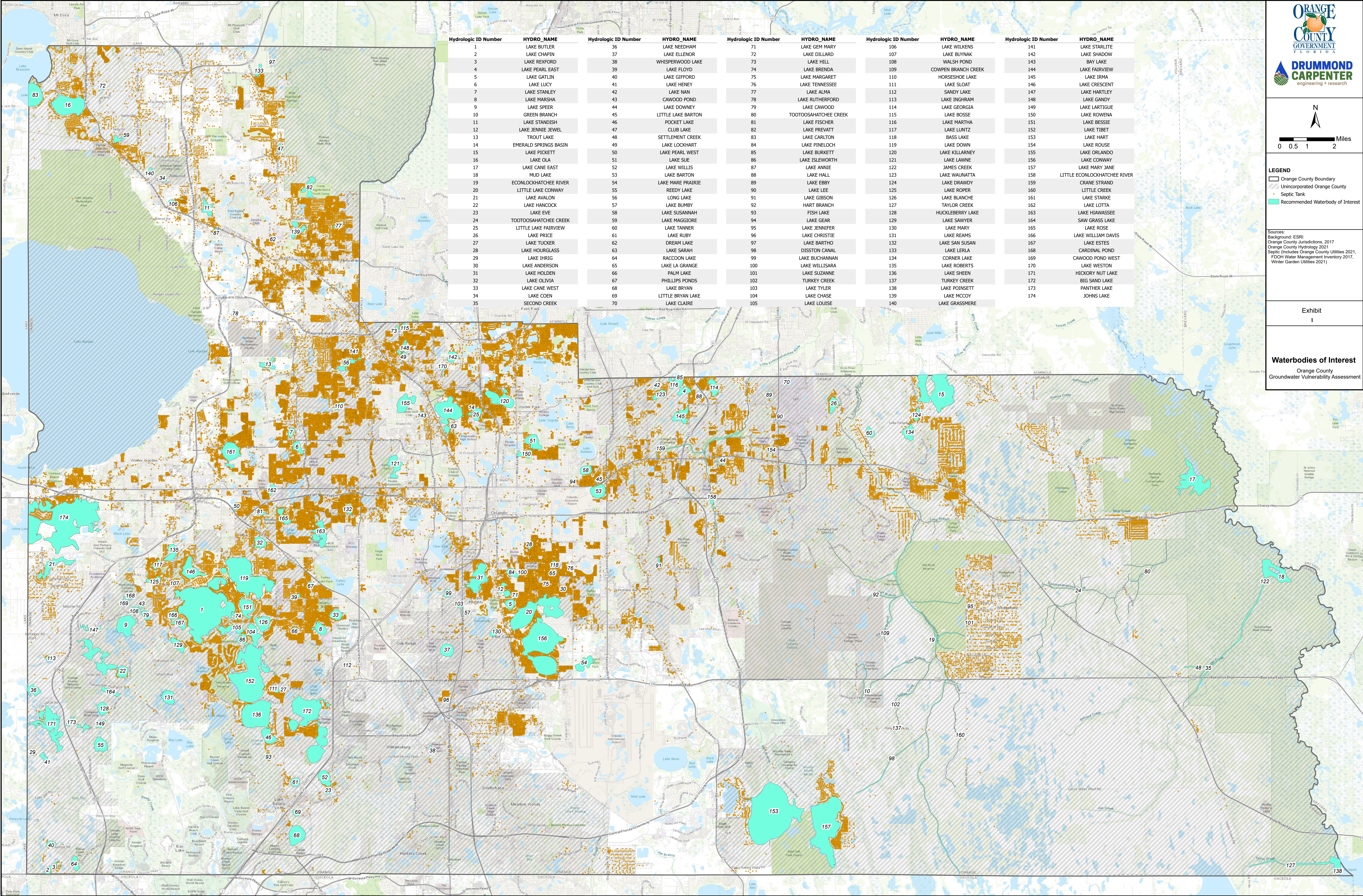
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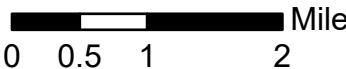

## EXHIBITS





Hydrologic ID Number	HYDRO_NAME	Hydrologic ID Number	HYDRO_NAME	Hydrologic ID Number	HYDRO_NAME	Hydrologic ID Number	HYDRO_NAME	Hydrologic ID Number	HYDRO_NAME
1	LAKE BUTLER	36	LAKE NEEDHAM	71	LAKE GEN MARY	106	LAKE WILKENS	141	LAKE STARLITE
2	LAKE CHAPIN	37	LAKE ELLENOR	72	LAKE DILLARD	107	LAKE BUYNAK	142	LAKE SHADOW
3	LAKE REXFORD	38	WHISPERWOOD LAKE	73	LAKE HILL	108	WALSH POND	143	BAY LAKE
4	LAKE PEARL EAST	39	LAKE FLOYD	74	LAKE BRENDA	109	COWPEN BRANCH CREEK	144	LAKE FAIRVIEW
5	LAKE GATLIN	40	LAKE GIFFORD	75	LAKE MARGARET	110	HORSESHOE LAKE	145	LAKE IRMA
6	LAKE LUCY	41	LAKE HENRY	76	LAKE TENNESSEE	111	LAKE SLOAT	146	LAKE CRESCENT
7	LAKE STANLEY	42	LAKE NAN	77	LAKE ALMA	112	SANDY LAKE	147	LAKE HARTLEY
8	LAKE MARSHA	43	CAWOOD POND	78	LAKE RUTHERFORD	113	LAKE INGRAM	148	LAKE GANDY
9	LAKE SPEER	44	LAKE DOWNEY	79	LAKE CAWOOD	114	LAKE GEORGIA	149	LAKE LARTIGUE
10	GREEN BRANCH	45	LITTLE LAKE BARTON	80	TOOTOOSHATCHEE CREEK	115	LAKE BOSSE	150	LAKE ROWENA
11	LAKE STANDISH	46	POCKET LAKE	81	LAKE FISCHER	116	LAKE MARTHA	151	LAKE BESSIE
12	LAKE JENNIE JEWEL	47	CLUB LAKE	82	LAKE PREVATT	117	LAKE LUNTZ	152	LAKE TIBET
13	TROUT LAKE	48	SETTLEMENT CREEK	83	LAKE CARLTON	118	BASS LAKE	153	LAKE HART
14	EMERALD SPRINGS BASIN	49	LAKE LOCKHART	84	LAKE PINELOCH	119	LAKE DOWN	154	LAKE ROUSE
15	LAKE PICKETT	50	LAKE PEARL WEST	85	LAKE BURKETT	120	LAKE KILLARNEY	155	LAKE ORLANDO
16	LAKE OLA	51	LAKE SUE	86	LAKE ISLEWORTH	121	LAKE LAWNE	156	LAKE CONWAY
17	LAKE CANE EAST	52	LAKE WILLIS	87	LAKE ANNIE	122	JAMES CREEK	157	LAKE MARY JANE
18	MUD LAKE	53	LAKE BARTON	88	LAKE HALL	123	LAKE WAUNATTA	158	LITTLE ECONLOCKHATCHEE RIVER
19	ECONLOCKHATCHEE RIVER	54	LAKE MARE PRAIRIE	89	LAKE EBBY	124	LAKE DRAWDY	159	CRANE STRAND
20	LITTLE LAKE CONWAY	55	REEDY LAKE	90	LAKE LEE	125	LAKE ROPER	160	LITTLE CREEK
21	LAKE AVALON	56	LONG LAKE	91	LAKE GIBSON	126	LAKE BLANCHE	161	LAKE STARKE
22	LAKE HANCOCK	57	LAKE BUMBY	92	HART BRANCH	127	TAYLOR CREEK	162	LAKE LOTTA
23	LAKE EVE	58	LAKE SUSANNAH	93	FISH LAKE	128	HUCKLEBERRY LAKE	163	LAKE HIWASSEE
24	TOOTOOSHATCHEE CREEK	59	LAKE MAGGIORE	94	LAKE GEAR	129	LAKE SAWYER	164	SAW GRASS LAKE
25	LITTLE LAKE FAIRVIEW	60	LAKE TANNER	95	LAKE JENNIFER	130	LAKE MARY	165	LAKE ROSE
26	LAKE PRICE	61	LAKE RUBY	96	LAKE CHRISTIE	131	LAKE REAMS	166	LAKE WILLIAM DAVIS
27	LAKE TUCKER	62	DREAM LAKE	97	LAKE BARTHO	132	LAKE SAN SUSAN	167	LAKE ESTES
28	LAKE HOURGLASS	63	LAKE SARAH	98	DISSTON CANAL	133	LAKE LERLA	168	CARDINAL POND
29	LAKE IHRIG	64	RACCOON LAKE	99	LAKE BUCHANAN	134	CORNER LAKE	169	CAWOOD POND WEST
30	LAKE ANDERSON	65	LAKE LA GRANGE	100	LAKE WILLISARA	135	LAKE ROBERTS	170	LAKE WESTON
31	LAKE HOLDEN	66	PALM LAKE	101	LAKE SUZANNE	136	LAKE SHEEN	171	HICKORY NUT LAKE
32	LAKE OLIVIA	67	PHILLIPS PONDS	102	TURKEY CREEK	137	TURKEY CREEK	172	BIG SAND LAKE
33	LAKE CANE WEST	68	LAKE BRYAN	103	LAKE TYLER	138	LAKE POINSETT	173	PANTHER LAKE
34	LAKE COEN	69	LITTLE BRYAN LAKE	104	LAKE CHASE	139	LAKE MCCOY	174	JOHNS LAKE
35	SECOND CREEK	70	LAKE CLAIRE	105	LAKE LOUISE	140	LAKE GRASSMERE		





**LEGEND**

- Orange County Boundary
- Unincorporated Orange County
- Septic Tank
- Recommended Waterbody of Interest

Sources:  
Background: ESRI  
Orange County Jurisdictions, 2017  
Orange County Hydrology 2021  
Septic (includes Orange County Utilities 2021,  
FDOH Water Management Inventory 2017,  
Winter Garden Utilities 2021)

Exhibit  
1

**Waterbodies of Interest**  
Orange County  
Groundwater Vulnerability Assessment



## **Appendix A: Orange County Groundwater Vulnerability Assessment – Data Review and Compilation**





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**DATE:** 12 October 2021  
**TO:** Orange County  
**FROM:** Lee Mullon, PE, CFM, D.WRE – Drummond Carpenter  
**CC:** Chad Drummond, PE, D.WRE, BCEE – Drummond Carpenter  
Ryan Hupfer, PG – Drummond Carpenter  
Marion Divers, PhD – Drummond Carpenter  
Olivia Warren, GIT – Drummond Carpenter  
**SUBJECT:** Orange County Groundwater Vulnerability Assessment – Data Review and Compilation – Task 2 Deliverable.

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## Introduction

This memo summarizes the data collection efforts performed to assist the assessment of groundwater vulnerability in Orange County. The data is categorized consistent with the Drummond Carpenter scope of work, and will be used as the principal sourcing information used for subsequent project tasks. The below data and information has been collected by Drummond Carpenter. Separate data collection efforts are being performed by subconsultant Applied Ecology, Inc, which will be summarized as part of the Task 6 Interim Vulnerability Technical Memorandum.

## Environmental GIS Data

A GIS layer of topographic data for the study area was obtained from Orange County (*Orange\_County\_Topo.gdb*).

A GIS shapefile for wastewater facilities in Orange County was downloaded from the Florida Department of Environmental Protection (FDEP) online database<sup>1</sup>. The Wastewater Facilities shapefile includes 2018 data for facilities that are active, closed but monitored, or under construction and facilities that are unpermitted but require a permit.

A GIS shapefile of 2017 drinking water source and domestic (household) wastewater disposal method (septic or sewer) for parcel polygons was obtained from an online Florida Department of Health (FDOH) database<sup>2</sup>. The data was compiled as part of the Florida Water Management Inventory Project (FLWMI).

A GIS shapefile of Orange County water supply wells (*Public\_Water\_Supply\_(PWS)\_Wells\_(Non-Federal).shp*) with 2021 data was downloaded from the FDEP online database<sup>3</sup>.

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<sup>1</sup> <https://floridadep.gov/water/domestic-wastewater/content/domestic-wastewater-biosolids>

<sup>2</sup> <http://ww10.doh.state.fl.us/pub/bos/Inventory/FloridaWaterManagementInventory/Orange/>

<sup>3</sup> [https://geodata.dep.state.fl.us/datasets/public-water-supply-pws-wells-non-federal?geometry=-99.910%2C24.608%2C-66.533%2C31.392&orderBy=PWS\\_CITY&orderByAsc=false](https://geodata.dep.state.fl.us/datasets/public-water-supply-pws-wells-non-federal?geometry=-99.910%2C24.608%2C-66.533%2C31.392&orderBy=PWS_CITY&orderByAsc=false)



A GIS shapefile of 2020 Florida Waterbody IDs (WBIDs) was downloaded from the FDEP online database<sup>4</sup>.

A GIS shapefile of 2020 Florida wetland extents was downloaded from the U.S. Fish & Wildlife National Wetlands Inventory database<sup>5</sup>.

Surface water levels for the portion of Orange County within SJRWMD were downloaded from the SJRWMD online hydrologic database<sup>6</sup>.

Bathymetric maps for Orange County lakes were obtained from the University of Florida Institute of Food and Agricultural Sciences (UF IFAS)<sup>7</sup>.

A GIS shapefile of soils data for Orange County was obtained from the Natural Resources Conservation Service (NRCS) database<sup>8</sup>. The NRCS soils shapefile includes 2013 data of soil hydrologic group and runoff potential.

Wastewater coverage areas, provider information, septic locations, billing addresses, and location of rapid infiltration basins (RIBs) were collected by subconsultant Applied Ecology, Inc., and are detailed in their report to be submitted under separate cover.

## Social GIS Data

Orange County demographic data was downloaded from the U.S. Census Bureau database<sup>9</sup> containing population estimates for 2015 (*Florida\_Demographic\_Information.shp*).

Florida population projections were obtained from the Bureau of Economic and Business Research (BEBR)<sup>10</sup>. Population projections for Orange County are available for five year increments up to the year 2045 (*FL\_population\_projections\_2020.xlsx*). A GIS geodatabase of parcel polygons containing the population projections from BEBR was downloaded from the Central Florida Watershed Initiative (CFWI) online resources<sup>11</sup>.

GIS shapefiles of Orlando political boundaries were obtained from the City of Orlando Open Data<sup>12</sup> including the Orlando city limits, annexations, neighborhoods, commissioner districts, and commissioner district divider.

Additional social GIS data were collected by subconsultant Applied Ecology, Inc., and are detailed in their report to be submitted under separate cover.

<sup>4</sup> [https://geodata.dep.state.fl.us/datasets/waterbody-ids-wbids?geometry=-116.598%2C21.065%2C-49.845%2C34.616&orderBy=WATER\\_TYPE&orderByAsc=false](https://geodata.dep.state.fl.us/datasets/waterbody-ids-wbids?geometry=-116.598%2C21.065%2C-49.845%2C34.616&orderBy=WATER_TYPE&orderByAsc=false)

<sup>5</sup> <https://www.fws.gov/wetlands/data/mapper.html>

<sup>6</sup> <http://webapub.sjrwmd.com/agws10/hdsnew/map.html>

<sup>7</sup> <https://lakewatch.ifas.ufl.edu/for-volunteers/bathymetric-maps/>

<sup>8</sup> [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/?cid=nrcs144p2\\_065038](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/?cid=nrcs144p2_065038)

<sup>9</sup> [https://hub.arcgis.com/datasets/61a30fb3ea4c43e4854fbb4c1be57394\\_0?geometry=-100.493%2C24.294%2C-67.116%2C31.097&orderBy=Median\\_Hou&where=NAME%20%3D%20%27Orange%20County%27](https://hub.arcgis.com/datasets/61a30fb3ea4c43e4854fbb4c1be57394_0?geometry=-100.493%2C24.294%2C-67.116%2C31.097&orderBy=Median_Hou&where=NAME%20%3D%20%27Orange%20County%27)

<sup>10</sup> <https://www.bebr.ufl.edu/population/population-data/projections-florida-population-county-2020%E2%80%932045-estimates-2019>

<sup>11</sup> <https://www.cfwewater.com/CFWIresources.html>

<sup>12</sup> <https://data.cityoforlando.net/>

## Hydrogeologic GIS Data

Hydrogeologic data were obtained from the Florida Geological Survey (FGS), including statewide surface geology (*Florida\_Stratigraphic\_Geology.shp*) and locations of wells within Orange County with available lithology logs (*Florida\_Geological\_Survey\_(FGS)\_\_\_Wells.shp*).

A GIS shapefile of aquifer performance tests was downloaded from the SFWMD online database<sup>13</sup>. The aquifer performance test shapefile includes 2021 data for locations of aquifer testing, testing period, and results such as transmissivity values. Similarly, a GIS shapefile of aquifer performance tests was downloaded from the SJRWMD online database<sup>14</sup> with data from 2020.

The file geodatabase of the Surficial Aquifer System (SAS) contamination potential (FAVA II 2019) was downloaded from the FDEP online database<sup>15</sup>. The SAS FAVA II displays the relative vulnerability of the SAS based on three classes: (1) more vulnerable, (2) vulnerable, and (3) less vulnerable.

## Impaired Waters GIS Data

A GIS shapefile of Florida total maximum daily load (TMDL) areas was downloaded from the FDEP online database<sup>16</sup>. The TMDL shapefile includes 2021 data of TMDLs at the following stages: draft, state adopted, and state adopted and EPA approved.

A GIS shapefile of Florida basin management action plan (BMAP) areas was downloaded from the FDEP online database<sup>17</sup>. The BMAP shapefile includes 2020 data of adopted and pending BMAPs.

A GIS shapefile of Outstanding Florida Waters (OFW) was downloaded from the FDEP online database<sup>18</sup>. The OFW shapefile includes 2020 data of waters designated worthy of special protection based on their natural attributes.

A GIS shapefile of Waters Not Attaining Standards (WNAS) was downloaded from the FDEP online database<sup>19</sup>. The WNAS shapefile includes 2020 data of waters with various assessment statuses from impaired to ongoing restoration to TMDL complete.

## East Central Florida Transient Expanded (ECFTX) Model

The East-Central Florida Transient Expanded (ECFTX) model (2019) is a three-dimensional, eleven-layer, regional MODFLOW model covering 23,800 square miles of Central Florida. This model was developed to inform management strategies within the CFWI area as part of a collaborative effort

<sup>13</sup> <https://geo-sfwmd.hub.arcgis.com/datasets/aquifer-performance-test-locations-and-results-from-sfwmd-dbhydro-database?geometry=-89.783%2C25.184%2C-73.094%2C28.612>

<sup>14</sup> <https://data-floridaswater.opendata.arcgis.com/datasets/aquifer-performance-test-hydrologic-parametersjrwmd?geometry=-89.673%2C27.434%2C-72.985%2C30.793>

<sup>15</sup> <https://geodata.dep.state.fl.us/datasets/surficial-aquifer-system-contamination-potential-fava-ii>

<sup>16</sup> [https://geodata.dep.state.fl.us/datasets/florida-total-maximum-daily-load-tmdl?geometry=-100.353%2C24.973%2C-66.976%2C31.735&orderBy=TMDL\\_STATUS&orderByAsc=false](https://geodata.dep.state.fl.us/datasets/florida-total-maximum-daily-load-tmdl?geometry=-100.353%2C24.973%2C-66.976%2C31.735&orderBy=TMDL_STATUS&orderByAsc=false)

<sup>17</sup> <https://geodata.dep.state.fl.us/datasets/statewide-basin-management-action-plan-bmap-general-areas?geometry=-91.961%2C26.949%2C-75.273%2C30.323&orderBy=STATUS&orderByAsc=false>

<sup>18</sup> <https://hub.arcgis.com/datasets/FDEP::outstanding-florida-waters?geometry=-83.000%2C28.089%2C-78.828%2C28.934>

<sup>19</sup> <https://geodata.dep.state.fl.us/datasets/waters-not-attaining-standards-wnas?geometry=-100.307%2C24.270%2C-66.930%2C31.074>



among multiple state water management districts, FDEP, partner municipalities, public utilities, and other stakeholders. This model was previously obtained by Drummond Carpenter under Orange County project C18901108 *Wekiwa BMAP Site Assessment, Gap Analysis, and Review* project.

## ArcGIS Spatial Data Modeller (Arc-SDM) Software Model

The Arc-GIS Spatial Data Modeller (Arc-SDM) toolbox provides geoprocessing tools for using categorical maps to produce a predictive map of where something of interest is likely to occur<sup>20</sup>. Arc-SDM will be used to predict aquifer vulnerability in this project based on key evidential theme layers.

## Reclaimed Wastewater Coverage GIS Data

Reclaimed wastewater application information was obtained from the previously described wastewater facility shapefile<sup>21</sup>, which shows one wastewater residuals application site within Orange County. A water reuse user area shapefile was downloaded from the SFWMD online database<sup>22</sup>. The water reuse shapefile contains polygon data from 2021 delineating where reclaimed was, is, or may be provided.

## Previous Orange County and Other Relevant Studies

Final TMDL and BMAP reports for waterbodies within Orange County were downloaded from the FDEP website. A document of Minimum Flows and Levels (MFLs) for Orange County was downloaded from the SJRWMD website. No MFLs fall within the SFWMD portion of Orange County.

### 2005 Florida Aquifer Vulnerability Assessment (FAVA)

The FGS developed a GIS map of relative aquifer vulnerability across the state of Florida based on the local hydrogeologic setting, disregarding natural and anthropogenic sources of contamination<sup>23</sup>. This study, known as the Florida Aquifer Vulnerability Assessment (FAVA), maps three categories: (1) primary (more vulnerable), (2) secondary (vulnerable), and (3) tertiary (less vulnerable). A weight of evidence approach used large amounts of available data (DEM, Depth-to-water table, closed topographic depressions, soils, overburden thickness, geology, hydraulic head difference between water table and FAS, etc.) to map probabilities of vulnerability for three aquifer units across Florida: (1) SAS, (2) Intermediate Aquifer System (IAS), and (3) FAS. A limitation of the FAVA is the scale. Vulnerability is assessed relative to a statewide scale, which means use of the maps at small scale is not recommended.

<sup>20</sup> Sawatzky, D., G. Raines, and G. Bonham-Carter, 2010. *Spatial Data Modeller*.

<sup>21</sup> *Wastewater\_Facility\_Regulation\_(WAFR)\_-\_Wastewater\_Facilities.shp*

<sup>22</sup> <https://geo-sfwmd.hub.arcgis.com/datasets/water-reuse-user-area?geometry=-97.846%2C23.109%2C-64.469%2C29.983&orderBy=COUNTY&where=COUNTY%20%3D%20%27ORANGE%27>

<sup>23</sup> Arthur, J., A. Baker, J. Cichon, A. Wood, and A. Rudin, 2005. Florida Aquifer Vulnerability Assessment (FAVA): Contamination potential of Florida's principal aquifer systems. Florida Geological Survey: Division of Resource Assessment and Management.



### 2005 Wekiva Aquifer Vulnerability Assessment (WAVA)

The FGS developed a refined FAVA specific to the Wekiva area<sup>24</sup>. This Wekiva Aquifer Vulnerability Assessment (WAVA) estimated relative degrees of vulnerability of the Floridan Aquifer System (FAS) within the Wekiva study area.

### 2007 Florida Department of Health (FDOH) Study

A 2007 FDOH study assessed the role of OSTDS in contributing to nitrate loading within the Wekiva study area<sup>25</sup>. Based on mass loading calculations performed as part of the study, between half and three quarters of the nitrogen from the OSTDS sites was estimated to reach groundwater.

### 2009 Wakulla County Aquifer Vulnerability Assessment (WCAVA)

FDEP through the FGS contracted with Advanced GeoSpatial Inc. developed the Wakulla County Aquifer Vulnerability Assessment (WCAVA), a refinement of the FAVA to the FAS in Wakulla County<sup>26</sup>.

### 2018 Wekiva Spring and Rock Springs Basin Management Action Plan (BMAP)

Based on elevated total phosphorus and nitrate-nitrogen concentrations and an imbalance in aquatic flora, the Wekiva River and Rock Spring Run were listed as impaired in 2007. In 2008, TMDLs for nitrate (286 µg/L) and total phosphorus (65 µg/L) were developed for Wekiva Spring and Rock Springs. A BMAP was adopted to implement the TMDLs. As part of the BMAP, FDEP developed the Wekiva and Rock Springs Nitrogen Source Inventory Loading Tool (NSILT). The NSILT estimated percent contributions of identified nitrogen sources to total nitrogen loading for the BMAP area. The top contributors to nitrogen loading to groundwater were estimated as the following:

- (1) fertilizers (45%),
- (2) OSTDS (29%),
- (3) wastewater treatment facilities (16%), and
- (4) atmospheric, nurseries, and livestock operations (10%).

There is uncertainty in these NSILT estimates created by model assumptions such as biochemical attenuation factors, density of septic systems, fertilizer application rates, and land use apportionments.

### 2019 Florida Department of Health STUMOD

STUMOD-FL is an analytical solution designed to evaluate nitrogen fate and transport processes in the Soil Treatment Unit (STU) the unsaturated soil zone below an Onsite Wastewater Treatment System (OWTS) and above the saturated groundwater table. This study, and associated STUMOD-FL model<sup>27</sup>, will be used in Part 3 of this study.

<sup>24</sup> Cichon, J., A. Baker, A. Wood, and J. Arthur, 2005. *Wekiva Aquifer Vulnerability Assessment*. Florida Geological Survey: ISSN 0160-0931.

<sup>25</sup> Briggs, G.R., E. Roeder, and E. Ursin, 2007. *Nitrogen Impact of Onsite Sewage Treatment and Disposal Systems in the Wekiva Study Area*. Bureau of Onsite Sewage Programs, Division of Environmental Health, Florida Department of Health.

<sup>26</sup> Baker A., A. Wood, and J. Cichon, 2009. *The Wakulla County Aquifer Vulnerability Assessment*. Advanced GeoSpatial Inc. Prepared for FDEP, Contract No. RM059.

<sup>27</sup> <http://www.floridahealth.gov/environmental-health/onsite-sewage/research/nitrogenstudydeliverables.html>

## Relevant Water Quality Data

A GIS shapefile of 2021 Watershed Information Network (WIN) Monitoring Locations in Orange County was downloaded from the FDEP online database<sup>28</sup> and will be used as the principal source of information for the Orange County Aquifer Vulnerability Assessment task associated with the identification of training points within the surficial aquifer. Surface water data will be obtained primarily from the Orange County Water Atlas as needed.

## Regulatory Information

Standards for OSTDS are detailed in 381.0065, Florida Statutes (FS) and Chapter 64E-6, F.A.C. and include required installation distances from items such as wells and waterbodies. A GIS shapefile<sup>29</sup> of known OSTDS as of 2013 was obtained from the FDOH Bureau of Environmental Health's Database. Construction dates are included in the shapefile as well as if sewer is available. Holding tanks and abandonments are not included in this shapefile. This data is being updated based on the efforts completed by subconsultant Applied Ecology, Inc., to be submitted under separate cover.

Additional OSTDS regulation applies to areas within Priority Focus Areas (PFAs) that may be considered as part of this project:

- *"For new homes or businesses with new septic systems on lots less than one acres: Installation of new septic systems is prohibited unless the system includes enhanced treatment of nitrogen as described in the septic system remediation plan. This applies to all new system permits on lots less than one acre within the Priority Focus Area of an adopted BMAP. The installation or replacement of an enhanced system in these areas will not be required if central sewer connection is planned by the local government and identified as a BMAP-listed project.*
- *For existing septic systems: Nothing will immediately change. However, in the future, failing systems may need to be enhanced with nitrogen-removing technology or to connect to central sewer. These requirements will be put in place after certain programs, such as homeowner grant programs to assist with offsetting the cost of replacement systems, are established. These requirements will be phased in no later than five years after the adoption of the restoration plans.<sup>30</sup>*

The Wekiwa-Rock Springs PFA falls within Orange County and is subject to these additional regulations.

WWTP wastewater permits (public and available private providers) are being researched and documented by subconsultant Applied Ecology, Inc., and will be included under separate cover.

<sup>28</sup> <https://geodata.dep.state.fl.us/datasets/watershed-information-network-win-monitoring-locations?geometry=-99.910%2C24.608%2C-66.533%2C31.392&where=COUNTY%20%3D%20%27ORANGE%27>

<sup>29</sup> OSTDS\_Septic\_FDOH\_EHD\_11\_15\_2013.shp

<sup>30</sup> FDEP, 2016. *Spring and Aquifer Protection Act*.

## **Appendix B: Waterbodies of Interest Memorandum**





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## Memorandum

**DATE:** 14 March 2022

**TO:** Julie Bortles – Orange County Environmental Protection Division  
Mitchell Katz, PhD, - Orange County Environmental Protection Division

**FROM:** Lee Mullon, PE, CFM, D.WRE, PMP – Drummond Carpenter  
Ryan Hupfer, PG – Drummond Carpenter

**SUBJECT:** PO C20906A001 Identification of Waterbodies of Interest for Vulnerability and Groundwater Modeling

### Background

Drummond Carpenter is developing a countywide groundwater model based on a refinement of the ECFTX (2019) model developed by the Central Florida Water Initiative. A crucial element of this effort is identifying the Waterbodies of Interest (WOI's), which are defined as surface waterbodies such as lakes, springs, and rivers that are more likely to be susceptible to groundwater pollution, are already considered impaired for water quality, or are otherwise considered important waterbodies within the County in context with this project. The WOI's will be explicitly included in the particle tracking portion of the proposed Groundwater Modeling task for this project. Within the model, groundwater particle tracking and tracing functions will be utilized to develop zones of groundwater influence, illustrating where WOI's will potentially be impacted from vulnerable aquifer areas via groundwater seepage from the surficial aquifer system (SAS). Approximately 100-200 WOIs were targeted for selection across the County. This task is being performed concurrent with the Orange County Aquifer Vulnerability Assessment (OCAVA) modeling, which will map relative SAS vulnerability.

### Waterbodies of Interest Screening and Selection

An initial screening process was conducted to identify recommended WOIs which are detailed below. Drummond Carpenter requests that the County review and provide feedback as to the list of initial WOIs, the screening methodology, and other prioritization factors that may affect the selection of WOIs used in subsequent tasks.

A description of the Initial Screening Process and GIS data analysis used (See Exhibit 1 and Table 1):



### 1. *Waterbodies located within the jurisdiction of Orange County*

Drummond Carpenter selected waterbodies from the Orange County Hydrology<sup>1</sup> data set that were within, either partially or fully, the jurisdiction of unincorporated Orange County. This resulted in a dataset with 806 records. Of these waterbodies, 320 were “Unnamed Lakes” and 64 were “Unnamed Canals.” A visual examination of the Unnamed Lakes and Unnamed Canals indicated that they either had no acreage recorded or were under an acre in size and they often contained structures indicating that they were, functionally, stormwater ponds, roadside swales, drainage ditches, or other infrastructure (visual outlet structures or berms, visibly following road, etc.). These were removed from the dataset.

The remaining 422 waterbodies were examined further by selecting various waterbody acreage thresholds. An examination of the attribute table after this selection showed that several river and creek segments were not included when the areas were selected by size (area). Similarly, with the selection of waterbodies at other thresholds areas, sections of relevant waterbodies were left off of the resulting list. Therefore, we examined the list manually to ensure that relevant sections of creek and rivers were also included. When waterbodies greater than or equal to 10 acres were selected, and waterbodies where Orange County was a stakeholder, the resulting data set contained 279 entries. This was considered the “INITIAL WOI LIST”

For this assessment it is noted that the naming convention for waterbodies between various data sets was found to be inconsistent. For example, the *Hydrology* data set listed a stream as “Little Econlockhatchee Tributary,” however the name for the waterbody in this same physical location provided by the Florida Department of Environmental Protection *Florida Total Maximum Daily Load* dataset was listed as “Crane Strand” or “Crane Strand Drain.” Inconsistencies like this between co-located waterbodies were common and created challenges when trying to join data based on waterbody name. Therefore, joins were conducted based on spatial relationships (overlapping or intersecting shapefiles) instead of water body names. The naming convention provided in the *Hydrology* data set supplied by Orange County was compared to the naming convention used by the Orange County Property Appraiser<sup>2</sup>, and where inconsistencies were present, the name used by the Orange County Property Appraiser was generally used. In some circumstances, local names (e.g., Crane Strand, Little Lake Conway) were used instead of the names in either database. The state water body identification number (WBID) was preserved throughout the geospatial analysis. Waterbodies which did not have a unique WBID were assigned the WBID of the surrounding area.

### 2. *Waterbodies that are considered “Not Attaining,” are part of a TMDL, are listed in BMAPs within the County, or are on the FDEP “Verified List of Non-Attaining Waters”*

Drummond Carpenter cross-referenced the Initial WOI List with waterbodies that were specifically referenced within a region with a Basin Management Action Plan (n=24), associated

<sup>1</sup> Hydrology, [ftp://ftp.onetgov.net/divisions/Infomap/pub/GIS\\_Downloads/FTP%20Shapefiles/](ftp://ftp.onetgov.net/divisions/Infomap/pub/GIS_Downloads/FTP%20Shapefiles/), 2021

<sup>2</sup> Orange County Property Appraiser, *Hydro Polygon Shapefile*, 2021.



with a waterbody with a listed TMDL (n=57), waterbodies that were considered “Not Attaining” due to Algae, Chlorophyll-a, Escherichia Coli, Fecal Coliform, Macrophytes, all forms of nitrogen, and total phosphorus (n=94), and waterbodies on the FDEP “Verified List of Non-Attaining Waters” due to Algae, Chlorophyll-a, Escherichia Coli, Fecal Coliform, Macrophytes, total nitrogen, and total phosphorus (n=54) to ensure that these were included in the Initial WOI List for further examination. Many of the waterbodies were cross listed in multiple categories. In all, these regulatory categories comprised 75 of the final WOI’s.

### 3. *Waterbodies associated with Outstanding Florida Waters*

The waterbodies associated with Outstanding Florida Waters were cross-referenced with the list of WOI’s to ensure that these were included in the Initial WOI List (n=48). Many of the waterbodies were cross listed with waterbodies in the regulatory categories listed above. In all, the Outstanding Florida Waters database added an additional 23 WOI’s to the list.

### 4. *Waterbodies within closed basins or karst areas that are considered more vulnerable to impairments (due to lack of flushing potential).*

Waterbodies in closed basins are more vulnerable to water pollution because water will not flush through the basin to dilute or send water downstream. Closed basins are often associated with karst topography (sinkholes) where significant infiltration to the SAS can occur. In order to identify potential WOI’s in closed basins, Drummond Carpenter examined GIS layers including the Florida Geological Survey *Swallets* dataset (although the published Swallet dataset did not identify any of these features within the boundaries of Orange County), the FDEP *Elevation Contour and Depression* dataset, the *Subsidence Incident Reports* database published by the Florida Geological Survey, the *Sinkhole Vulnerability* dataset and model created by the Florida Geological Survey, and the Orange County 100 FT DEM.

The *Elevation Contour and Depression* (FDEP) dataset contained features labeled “Depressions.” These were extracted from the dataset, converted from polylines to polygons, merged into singular polygons for each location, and the centroid of each polygon found. This formed a dataset of 4,309 depressions scattered throughout Orange County. A hotspot analysis of depressions did produce “hotspots” of depressions that corresponded with the *Sinkhole Vulnerability* dataset and model created by the Florida Geological Survey. Waterbodies within the regions identified as “Hot Spots” with a 90% or higher confidence level were selected (n=25).

The Subsidence Incident Report GIS database is compiled by the FL Geological Survey and maintains user-reported records of subsidence incidents throughout the Florida<sup>3</sup>. This dataset documented 211 Subsidence Incident report locations in Orange County, with recorded incidents dating back to 1960. This dataset was further refined by selecting incident sites that were either listed as a true sinkhole (3 locations) or contained comments in the incident report

<sup>3</sup> [Subsidence Incident Reports](https://floridadep.gov/fgs/sinkholes/content/subsidence-incident-reports), Florida Geological Survey, 2021,  
<https://floridadep.gov/fgs/sinkholes/content/subsidence-incident-reports>



that indicated the sinkhole was a significant size or had significant impact on the landscape around it (44 locations). For this analysis, these sites were considered “verified,” although the database metadata states that the majority of the incidents have not been field-checked and the cause of subsidence is not verified.

The refined data was compared with the Florida Geological Society Sinkhole Favorability<sup>4</sup> model results. This effort worked to map sinkhole incidents across the state and model the corresponding favorability of the geology to sinkhole formation. Visually, the subsidence incident reports did appear to coincide with Sinkhole Favorability. A “hotspot” analysis of the subsidence incident report identified a region of high sinkhole incidence that corresponded with the “Favorable” region for sinkholes. The WOI dataset had 162 waterbodies that were either located fully within or partially within the regions considered “favorable” for sinkholes. There were 4 waterbodies partially within the areas considered “Most Favorable” for sinkholes. The 4 waterbodies partially within the “most favorable” areas also had areas partially within the “favorable” areas.

Drummond Carpenter also completed a modified fill and subtract analysis of the DEM to identify landscape sinks. The “FILL” geoprocessing tool fills sinks in a surface raster in preparation for other geoprocessing. However, a “filled” raster can also be used to identify surface sinks, if the original raster is subtracted from the filled. While this process did identify surface sinks, it did not provide new information to help further identify WOI’s.

The various “Closed Basin and Karst Areas” analyses that were completed and the datasets that were examined identified regions with sinkholes, or that were favorable to sinkholes. These datasets were cross-referenced with the list of WOI’s and it was found that these waterbodies largely were already identified as WOI’s (n=101), which suggests that waterbodies in regions susceptible to sinkholes and karst topography may be more likely to be impaired. Many of the waterbodies were cross listed with waterbodies in the regulatory categories listed above. In all, the Sinkhole Hotspot added an additional 21 WOI’s to the list. This karst areas analysis will provide specific information to develop “Evidential Layers” for the *Weights of Evidence* model portion of this study in subsequent tasks.

##### 5. *Waterbodies adjacent to areas of dense septic systems*

A primary focus of this work is to determine water body susceptibility to nutrients ultimately sourced from septic systems. A map of parcels with septic systems was obtained from Orange County Utilities (OCU). Additional data sets utilized for this effort included the Florida Department of Health Water Management Inventory (WMI) dataset<sup>5</sup>, an ongoing data collection effort to record the drinking water source and wastewater treatment method for each parcel in

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<sup>4</sup> The Favorability of Florida’s Geology to Sinkhole Formation, 2017, [http://publicfiles.dep.state.fl.us/FGS/FGS\\_Publications/FGS%20Library%20Documents/GreyLit/Misc/DEMSinkholeReport.pdf](http://publicfiles.dep.state.fl.us/FGS/FGS_Publications/FGS%20Library%20Documents/GreyLit/Misc/DEMSinkholeReport.pdf)

<sup>5</sup> Florida Department of Health Water Management Inventory, 2017, <http://www.floridahealth.gov/environmental-health/drinking-water/flwmi/index.html>



the State of Florida. From this dataset, parcels outside of OCU service areas with confirmed septic systems, as well as those likely to contain septic systems, were selected. A third set of parcels with septic systems from the Winter Garden<sup>6</sup> was also used in this analysis. It is noted that additional septic tank inventory efforts are underway, and this dataset is expected to be updated throughout this project.

The three septic datasets, (OCU, WMI, and Winter Garden) were consolidated into one polygon data set. A point feature class based on the centroid of each polygon was processed and a “Hot Spot” map created that indicated whether a region was likely to have a septic tank. However, this analysis identified only the regions with significant numbers of septic systems, and did not consider septic proximity to surface waters which presumably have greater potential to adversely impact waterbodies.

To more directly target waterbodies with septic tanks that were likely to affect water quality, the septic tank density (per acre) in a 200-ft buffer around each Initial WOI was calculated and the resulting data was used in the process to determine the final list of WOI's. WOI's with a septic density greater than 0.5 tanks per acre in the 200 ft buffer surrounding each lake were selected and included in the final list (n=79). Many of the waterbodies were cross listed with waterbodies in the regulatory categories listed above. In all, the septic tank density dataset added 44 waterbodies to the finalized WOI list that were not otherwise listed due to other factors detailed above.

6. *Waterbodies associated with older age residential areas (based on subdivision information or septic permit records)*

Several Orange County GIS data layers were evaluated for information that would help to determine subdivision age or septic system age. The assumption was that the older subdivisions or regions with older septic systems would be more likely to introduce nutrients to groundwaters due to failed systems. However, the available data did not provide a good metric to help determine the age or theoretical condition of the septic systems that may be installed on the parcels within them. Therefore, age of residential areas with septic was not considered in this analysis.

7. *Waterbodies in each BOCC district.*

The final list of WOI's did contain waterbodies in each of the Board of County Commissioner's District in Orange County. There were a number (n=6) of waterbodies that spanned BCCD boundaries, they were counted once in each district.

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<sup>6</sup> City of Winter Garden Utilities, 2021



<i>Board Of County Commissioner's District</i>	<i>Number of Recommended WOIs in District</i>
1	64
2	34
3	21
4	15
5	38
6	8

8. *Waterbodies within and outside of the urban service area*

WOI's are located within and outside of the urban service area. Of the Recommended WOI's, 87 were located partially or fully within the Rural Service Area and 98 were located partially or fully within the Urban Service Area. There were a number (n=11) of waterbodies that crossed the Urban / Rural Service Area boundaries, these are counted once in each district.

9. *Water Quality data availability*

Of the Recommended WOI's, all but 31 had nutrient water quality data available through the Orange County Water Atlas. This water quality data varied in date collection range, agency or group that collected the data, and parameters measured.

Final examination and analysis:

As part of the final analysis, each waterbody was examined within the context of regulatory classification (i.e., part of a TMDL, BMAP, or with an impaired status), potential for sinkholes / closed basins, and septic system density with proximity to waterbodies. The finalized dataset of Recommended Waterbodies of Interest is presented as **Table 1**. This dataset contains 174 Recommended WOI's. All WOI's are located in unincorporated Orange County or are waterbodies in which Orange County is a stakeholder in a TMDL or BMAP. All WOI's have either known impairments or the potential for impairments from septic systems as described above. The location and status of each WOI is shown on the map **Exhibit 1**. Waterbodies within the St. Johns River Watershed and associated tributaries, the Wekiwa River, and Rock Springs Run were excluded from the list of Recommended WOIs, as was Lake Apopka.



**Table 1. Waterbodies on the Initial WOI List**  
Orange County Groundwater Vulnerability Assessment  
3/14/2022



Hydrologic ID Number	Waterbody Name	Waterbody ID	Recommended	Considered "Not Attaining?" <sup>1</sup>	TMDL Adopted?	Located in a BMAP Area?	In a Depression Hotspot?	On the FDEP List of Verified Impairments? <sup>2</sup>	Considered an "Outstanding Florida Water?"	Water Quality Data Available?
			<u>Waterbody of</u> <u>Interest</u> in Final List?							
1	LAKE BUTLER	3170Q	YES	YES	No	No	No	YES	YES	YES
2	LAKE CHAPIN	3170F5*	YES	No	No	No	No	No	No	YES
3	LAKE REXFORD	3170FC	YES	No	No	No	No	No	No	YES
4	LAKE PEARL EAST	3009J	YES	YES	No	No	No	YES	No	YES
5	LAKE GATLIN	3168D	YES	No	No	No	No	No	No	YES
6	LAKE LUCY	3002	YES	No	No	No	No	No	No	YES
7	LAKE STANLEY	3002O	YES	No	No	No	No	No	No	YES
8	LAKE MARSHA	3169E	YES	No	No	No	No	No	No	YES
9	LAKE SPEER	3170G2	YES	No	No	No	YES	No	No	YES
10	GREEN BRANCH	3047	YES	No	No	No	No	No	YES	No
11	LAKE STANDISH	2841*	YES	YES	No	No	No	No	No	No
12	LAKE JENNIE JEWEL	3168J	YES	No	No	No	No	No	No	YES
13	TROUT LAKE	3002A1*	YES	No	YES	YES	No	No	No	YES
14	EMERALD SPRINGS BASIN	3004*	YES	YES	YES	No	No	No	No	No
15	LAKE PICKETT	3003	YES	No	No	No	No	No	No	YES
16	LAKE OLA	2836B	YES	No	No	No	No	No	No	YES
17	LAKE CANE EAST	28932	YES	YES	YES	No	No	No	No	YES
18	MUD LAKE	28935*	YES	YES	No	No	No	YES	YES	YES
19	ECONLOCKHATCHEE RIVER	2991	YES	YES	YES	No	No	YES	YES	YES
20	LITTLE LAKE CONWAY	3168A1	YES	No	No	No	No	No	No	YES
21	LAKE AVALON	2873B	YES	No	No	No	YES	No	No	YES
22	LAKE HANCOCK	3170G1	YES	No	No	No	YES	No	No	YES
23	LAKE EVE	3169A*	YES	YES	No	No	No	YES	No	YES
24	TOOTOOSAHATCHEE CREEK	3035	YES	No	No	No	No	No	YES	YES
25	LITTLE LAKE FAIRVIEW	3004H	YES	YES	YES	No	No	No	No	YES
26	LAKE PRICE	3012A	YES	No	No	No	No	No	No	YES
27	LAKE TUCKER	3169C1*	YES	No	No	No	No	No	No	YES
28	LAKE HOURGLASS	3168X2	YES	YES	No	No	No	YES	No	YES
29	LAKE IHRIG	3170IA*	YES	No	No	No	YES	No	No	YES
30	LAKE ANDERSON	3168E	YES	YES	YES	No	No	YES	No	YES
31	LAKE HOLDEN	3168H	YES	YES	YES	No	No	No	No	YES
32	LAKE OLIVIA	3002K	YES	No	No	No	No	No	No	YES
33	LAKE CANE WEST	3169J	YES	No	No	No	No	No	No	YES
34	LAKE COEN	2967*	YES	YES	YES	No	No	No	No	No
35	SECOND CREEK	3042*	YES	No	No	No	No	No	YES	No
36	LAKE NEEDHAM	3170IA*	YES	No	No	No	YES	No	No	YES
37	LAKE ELLENOR	3169A1	YES	YES	No	No	No	YES	No	No
38	WHISPERWOOD LAKE	3169A*	YES	YES	No	YES	No	YES	No	No
39	LAKE FLOYD	31702A	YES	No	No	No	No	No	No	YES
40	LAKE GIFFORD	3170FB	YES	No	No	No	No	No	No	YES
41	LAKE HENEY	3170F4*	YES	No	No	No	YES	No	No	No
42	LAKE NAN	3009H	YES	YES	No	No	No	YES	No	YES
43	CAWOOD POND	3170G*	YES	No	No	No	YES	No	No	YES
44	LAKE DOWNEY	3024	YES	No	No	No	No	No	No	YES
45	LITTLE LAKE BARTON	3023A*	YES	YES	No	No	No	YES	No	No
46	POCKET LAKE	3170H2	YES	No	No	No	No	No	YES	YES
47	CLUB LAKE	2989*	YES	No	No	No	YES	No	No	No

Notes:  
\*Waterbody ID of the surrounding area was assumed since a unique Waterbody ID does not exist  
1 - Not Attaining list dated July 27, 2020  
2 - Verified list dated June 22, 2021

**Table 1. Waterbodies on the Initial WOI List**  
Orange County Groundwater Vulnerability Assessment  
3/14/2022



Hydrologic ID			Recommended					On the FDEP List	Considered an	Water Quality Data
Number	Waterbody Name	Waterbody ID	<u>Waterbody of</u> <u>Interest in Final</u> List?	Considered "Not Attaining?" <sup>1</sup>	TMDL Adopted?	Located in a BMAP Area?	In a Depression Hotspot?	of Verified Impairments? <sup>2</sup>	"Outstanding Florida Water?"	Available?
48	SETTLEMENT CREEK	3042*	YES	No	No	No	No	No	YES	No
49	LAKE LOCKHART	3004*	YES	YES	YES	No	No	No	No	YES
50	LAKE PEARL WEST	2872B	YES	No	No	No	No	No	No	YES
51	LAKE SUE	2997I	YES	No	YES	YES	No	No	No	YES
52	LAKE WILLIS	3169M	YES	YES	No	No	No	YES	No	YES
53	LAKE BARTON	3023E	YES	YES	No	No	No	YES	No	YES
54	LAKE MARE PRAIRIE	3168Q	YES	YES	No	No	No	YES	No	YES
55	REEDY LAKE	3170F4*	YES	No	YES	YES	No	No	No	YES
56	LONG LAKE	3002T	YES	No	No	No	No	No	No	YES
57	LAKE BUMBY	3168W7	YES	YES	YES	No	No	YES	No	YES
58	LAKE SUSANNAH	3023C	YES	YES	No	No	No	YES	No	YES
59	LAKE MAGGIORE	2841*	YES	YES	No	No	YES	No	No	YES
60	LAKE TANNER	3019	YES	No	No	No	No	No	No	YES
61	LAKE RUBY	3169A4	YES	YES	No	No	No	YES	No	YES
62	DREAM LAKE	2993A	YES	No	No	No	No	No	No	YES
63	LAKE SARAH	3004F	YES	YES	YES	No	No	No	No	YES
64	RACCOON LAKE	3170FD	YES	No	No	No	No	No	No	YES
65	LAKE LA GRANGE	3168Z*	YES	No	No	No	No	No	No	YES
66	PALM LAKE	31703	YES	No	No	No	No	No	No	YES
67	PHILLIPS PONDS	31702*	YES	No	No	No	No	No	No	YES
68	LAKE BRYAN	3169N	YES	YES	No	No	No	YES	No	YES
69	LITTLE BRYAN LAKE	3169A5	YES	YES	No	No	No	YES	No	YES
70	LAKE CLAIRE	3001C*	YES	YES	YES	No	No	YES	No	YES
71	LAKE GEM MARY	3168W1	YES	No	YES	YES	No	No	No	YES
72	LAKE DILLARD	2827*	YES	No	No	No	YES	No	No	No
73	LAKE HILL	3004S	YES	YES	YES	No	No	No	No	YES
74	LAKE BRENDA	3170J1*	YES	No	No	No	No	No	YES	YES
75	LAKE MARGARET	3168P	YES	No	No	No	No	No	No	YES
76	LAKE TENNESSEE	3168X1	YES	No	No	No	No	No	No	YES
77	LAKE ALMA	2993B*	YES	No	No	No	No	No	No	No
78	LAKE RUTHERFORD	2835B*	YES	YES	YES	No	No	No	No	No
79	LAKE CAWOOD	3170G*	YES	No	No	No	YES	No	No	No
80	TOOTOOSAHATCHEE CREEK	3035	YES	No	No	No	No	No	YES	YES
81	LAKE FISCHER	3002M*	YES	No	No	No	No	No	No	YES
82	LAKE PREVATT	2993	YES	No	No	No	No	No	YES	YES
83	LAKE CARLTON	2837B	YES	YES	YES	YES	No	No	No	YES
84	LAKE PINELOCH	3168I	YES	No	No	No	No	No	No	YES
85	LAKE BURKETT	3009C	YES	YES	YES	YES	No	YES	No	YES
86	LAKE ISLEWORTH	3170X	YES	No	No	No	No	No	YES	YES
87	LAKE ANNIE	2854*	YES	No	No	No	No	No	No	YES
88	LAKE HALL	3009G*	YES	YES	No	No	No	YES	No	No
89	LAKE EBBY	3001C*	YES	YES	YES	No	No	YES	No	YES
90	LAKE LEE	3001C*	YES	YES	YES	No	No	YES	No	YES
91	LAKE GIBSON	3036B*	YES	No	No	No	No	No	No	No
92	HART BRANCH	3043*	YES	No	No	No	No	No	YES	YES
93	FISH LAKE	3170Z1	YES	No	No	No	No	No	YES	YES
94	LAKE GEAR	3023D	YES	YES	No	No	No	YES	No	YES

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95	LAKE JENNIFER	2991*	YES	No	No	No	No	No	No	YES
96	LAKE CHRISTIE	3169S	YES	YES	No	No	No	YES	No	YES
97	LAKE BARTHO	2965B*	YES	No	No	No	YES	No	YES	No
98	DISSTON CANAL	2991*	YES	No	No	No	No	No	YES	YES
99	LAKE BUCHANNAN	3169A3	YES	YES	No	No	No	YES	No	YES
100	LAKE WILLISARA	3168Z*	YES	No	No	No	No	No	No	YES
101	LAKE SUZANNE	2991*	YES	No	No	No	No	No	No	No
102	TURKEY CREEK	3053	YES	No	No	No	No	No	YES	No
103	LAKE TYLER	3169A2	YES	YES	No	No	No	YES	No	YES
104	LAKE CHASE	3170Y	YES	No	No	No	No	No	YES	YES
105	LAKE LOUISE	3170W	YES	No	No	No	No	No	YES	YES
106	LAKE WILKENS	2967*	YES	YES	YES	No	No	No	No	No
107	LAKE BUYNAC	3170J1*	YES	No	No	No	No	No	No	No
108	WALSH POND	3170G*	YES	No	No	No	YES	No	No	No
109	COWPEN BRANCH CREEK	3043	YES	No	No	No	No	No	YES	YES
110	HORSESHOE LAKE	3002A	YES	No	No	No	No	No	No	YES
111	LAKE SLOAT	3169C1*	YES	No	No	No	No	No	No	YES
112	SANDY LAKE	3169T	YES	YES	No	No	No	YES	No	YES
113	LAKE INGHAM	3170L	YES	No	No	No	YES	No	No	YES
114	LAKE GEORGIA	3009E	YES	YES	No	No	No	YES	No	YES
115	LAKE BOSSE	3004*	YES	YES	YES	No	No	No	No	YES
116	LAKE MARTHA	3009B	YES	YES	YES	YES	No	YES	No	YES
117	LAKE LUNTZ	2875*	YES	No	No	No	No	No	No	No
118	BASS LAKE	3168F	YES	YES	YES	No	No	YES	No	YES
119	LAKE DOWN	3170S	YES	YES	No	No	No	YES	YES	YES
120	LAKE KILLARNEY	2997X	YES	No	YES	YES	No	No	No	YES
121	LAKE LAWNE	3004C	YES	YES	YES	No	No	No	No	YES
122	JAMES CREEK	3042	YES	No	No	No	No	No	YES	YES
123	LAKE WAUNATTA	3009A	YES	YES	No	No	No	YES	No	YES
124	LAKE DRAWDY	3033D	YES	No	No	No	No	No	No	YES
125	LAKE ROPER	2875C	YES	No	No	No	YES	No	No	YES
126	LAKE BLANCHE	3170U	YES	No	No	No	No	No	YES	YES
127	TAYLOR CREEK	3059A	YES	No	YES	YES	No	No	YES	YES
128	HUCKLEBERRY LAKE	3170M	YES	No	No	No	YES	No	No	YES
129	LAKE SAWYER	3170P	YES	No	No	No	No	No	No	YES
130	LAKE MARY	3168O	YES	No	YES	YES	No	No	No	YES
131	LAKE REAMS	3170G6	YES	No	No	No	No	No	No	YES
132	LAKE SAN SUSAN	3169G1*	YES	No	No	No	No	No	No	YES
133	LAKE LERLA	2967*	YES	YES	YES	No	YES	No	No	No
134	CORNER LAKE	3033C	YES	No	No	No	No	No	No	YES
135	LAKE ROBERTS	2872A	YES	YES	YES	YES	No	No	No	YES
136	LAKE SHEEN	3170H1	YES	No	No	No	No	No	YES	YES
137	TURKEY CREEK	3053	YES	No	No	No	No	No	YES	No
138	LAKE POINSETT	2893K	YES	No	No	No	No	No	YES	YES
139	LAKE MCCOY	2993C	YES	No	No	No	No	No	No	YES
140	LAKE GRASSMERE	2967*	YES	YES	YES	No	No	No	No	No
141	LAKE STARLITE	3002A1*	YES	No	No	No	No	No	No	YES

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142	LAKE SHADOW	3011B	YES	No	No	No	No	No	No	YES
143	BAY LAKE	3004G	YES	YES	YES	No	No	No	No	YES
144	LAKE FAIRVIEW	3004N	YES	YES	YES	No	No	No	No	YES
145	LAKE IRMA	3017	YES	No	No	No	No	No	No	YES
146	LAKE CRESCENT	3170R	YES	No	No	No	No	No	No	YES
147	LAKE HARTLEY	3170G*	YES	No	No	No	YES	No	No	No
148	LAKE GANDY	3004J	YES	YES	YES	YES	No	No	No	YES
149	LAKE LARTIGUE	3170G4	YES	No	No	No	YES	No	No	YES
150	LAKE ROWENA	2997J	YES	No	YES	YES	No	No	No	YES
151	LAKE BESSIE	3170T	YES	No	No	No	No	No	No	YES
152	LAKE TIBET	3170Y	YES	No	No	No	No	No	YES	YES
153	LAKE HART	3171	YES	No	YES	YES	No	No	No	YES
154	LAKE ROUSE	3024A1	YES	YES	No	No	No	YES	No	YES
155	LAKE ORLANDO	3004K	YES	YES	YES	YES	No	No	No	YES
156	LAKE CONWAY	3168A	YES	No	YES	No	No	No	No	YES
157	LAKE MARY JANE	3171A	YES	No	No	YES	No	No	No	YES
158	LITTLE ECONLOCKHATCHEE RIVER	3001B/C	YES	YES	YES	No	No	YES	No	YES
159	CRANE STRAND	3023	YES	YES	YES	No	No	No	No	YES
160	LITTLE CREEK	3054	YES	No	No	No	No	No	YES	No
161	LAKE STARKE	3002D/E	YES	YES	No	No	No	YES	No	YES
162	LAKE LOTTA	3002G	YES	YES	No	No	No	YES	No	YES
163	LAKE HIAWASSEE	3002J	YES	No	No	No	No	No	No	YES
164	SAW GRASS LAKE	3170G3	YES	No	No	No	YES	No	No	YES
165	LAKE ROSE	3002I	YES	No	No	No	No	No	No	YES
166	LAKE WILLIAM DAVIS	3170J1*	YES	No	No	No	No	No	No	YES
167	LAKE ESTES	3170J3	YES	No	No	No	No	No	No	YES
168	CARDINAL POND	3170G*	YES	No	No	No	YES	No	No	No
169	CAWOOD POND WEST	3170G*	YES	No	No	No	YES	No	No	No
170	LAKE WESTON	3011A	YES	YES	YES	No	No	YES	No	YES
171	HICKORY NUT LAKE	3170I	YES	YES	No	No	YES	YES	No	YES
172	BIG SAND LAKE	3169C	YES	YES	No	No	No	YES	No	YES
173	PANTHER LAKE	3170I2	YES	No	No	No	YES	No	No	YES
174	JOHNS LAKE	2873C	YES	YES	No	No	YES	No	No	YES
175	ST JOHNS RIVER	2893I*	No	YES	YES	No	No	No	No	YES
176	LAKE MIRA	3017A*	No	No	No	No	No	No	No	YES
177	LAKE SERENE	3169C1*	No	No	No	No	No	No	No	YES
178	ST JOHNS RIVER	2964B1*	No	YES	No	No	No	No	No	YES
179	LAKE BERGE	3024B*	No	No	No	No	No	No	No	No
180	LAKE LENORE	3002A1*	No	No	No	No	No	No	No	YES
181	ST JOHNS RIVER	2964B1*	No	YES	No	No	No	No	No	YES
182	SPRING LAKE	3002B	No	No	No	No	No	No	No	YES
183	LAKE HERRICK	3002M*	No	No	No	No	No	No	No	No
184	LAKE BRITT	3170FE	No	No	No	No	No	No	No	YES
185	NEIGHBORHOOD LAKE	2965B*	No	No	No	No	No	No	No	No
186	LAKE SHARP	3170G7	No	No	No	No	No	No	No	YES
187	WEKIWA RIVER	2956A*	No	YES	YES	YES	No	No	YES	YES
188	CLEAR LAKE	3169G	No	No	No	No	No	No	No	YES

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189	LAKE APOPKA	2835D	No	YES	YES	No	No	No	No	YES
190	ST JOHNS RIVER	2964B1*	No	YES	No	No	No	No	No	YES
191	TURKEY CREEK	3053	No	No	No	No	No	No	No	No
192	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
193	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
194	ST JOHNS RIVER	2893I*	No	YES	YES	No	No	No	No	YES
195	ST JOHNS RIVER	2893I*	No	YES	YES	No	No	YES	YES	YES
196	ST JOHNS RIVER	2893I*	No	YES	YES	No	No	YES	YES	YES
197	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
198	WEKIWA RIVER	2956*	No	YES	YES	YES	No	No	YES	YES
199	WEKIWA RIVER	2956*	No	YES	YES	YES	No	No	No	YES
200	LAKE MABEL	3170O	No	No	No	No	No	No	No	YES
201	LITTLE SAND LAKE	3169L	No	No	No	No	No	No	No	YES
202	WEKIWA RIVER	2956*	No	YES	YES	YES	No	No	YES	YES
203	WEKIWA RIVER	2956A*	No	YES	YES	YES	No	No	YES	YES
204	WEKIWA RIVER	2956A*	No	YES	YES	YES	No	No	YES	YES
205	WEKIWA RIVER	2956*	No	YES	YES	YES	No	No	YES	YES
206	ROCK SPRINGS RUN	2967*	No	YES	YES	No	YES	No	YES	YES
207	LAKE AUSTIN	3170F5*	No	No	No	No	No	No	No	YES
208	BOO BOO LAKE	3169C1*	No	No	No	No	No	No	No	YES
209	LAKE LOVELY	3011D	No	No	No	No	No	No	No	YES
210	LAKE CROWELL	3169C1*	No	No	No	No	No	No	No	YES
211	LAKE JOVAL	3170G*	No	No	No	No	No	No	No	No
212	LAKE JULIA	3002A1*	No	No	No	No	No	No	No	YES
213	HEINIGER LAKE	2854*	No	No	No	No	No	No	No	YES
214	LAKE JOHIO	3002L	No	No	No	No	No	No	No	YES
215	LAKE MAC	3170F5*	No	No	No	No	No	No	No	No
216	LAKE REED	3018A*	No	No	No	No	No	No	No	No
217	BLUE LAKE	3002A2	No	No	No	No	No	No	No	YES
218	LAKE MITCHELL	3002A1*	No	No	No	No	No	No	No	No
219	SECOND CREEK	3051	No	No	No	No	No	No	No	No
220	LAKE REAVES	2872*	No	No	No	No	No	No	No	YES
221	LAKE CORONIA	2993B*	No	No	No	No	No	No	No	No
222	LAKE OLIVER	3170FA	No	No	No	No	No	No	No	YES
223	SECOND CREEK	3051	No	No	No	No	No	No	No	No
224	STEER LAKE	3002M*	No	No	No	No	No	No	No	YES
225	LAKE EAGLE	3173D*	No	No	No	No	No	No	No	No
226	BEARHEAD LAKE	3168W	No	No	No	No	No	No	No	YES
227	LAKE PAXTON	3019A*	No	No	No	No	No	No	No	No
228	DALLAS LAKE	3041*	No	No	No	No	No	No	No	No
229	LAKE JEAN	3017A*	No	No	No	No	No	No	No	YES
230	LAKE MEADOW	3002A1*	No	No	No	No	No	No	No	No
231	CROOKED LAKE	3002P	No	No	No	No	No	No	No	YES
232	LAKE BURDEN	3170J4	No	No	No	No	No	No	No	YES
233	SECOND CREEK	3049	No	No	No	No	No	No	No	No
234	LITTLE LAKE SAWYER	3170G5	No	No	No	No	No	No	No	YES
235	LAKE SCOTT	3170F5*	No	No	No	No	No	No	No	YES

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236	LAKE TELFER	3017A*	No	No	No	No	No	No	No	No
237	LAKE DOUGLAS	3017A2	No	No	No	No	No	No	No	YES
238	LAKE RHEA	31702*	No	No	No	No	No	No	No	YES
239	GRASS LAKE	3170F5*	No	No	No	No	No	No	No	No
240	LAKE PLEASANT	3002U	No	No	No	No	No	No	No	YES
241	LAKE WHITNEY	31702*	No	No	No	No	No	No	No	No
242	LAKE STORY	3017G*	No	No	No	No	No	No	No	YES
243	ST JOHNS RIVER	2964B1*	No	YES	No	No	No	No	No	YES
244	LAKE OLYMPIA	3002C	No	No	No	No	No	No	No	YES
245	LAKE KEHOE	3024B*	No	No	No	No	No	No	No	No
246	LAKE BEULAH	2872*	No	No	No	No	No	No	No	No
247	LAKE BURDEN	3170J4	No	No	No	No	No	No	No	YES
248	LAKE FLORENCE	3002A1*	No	No	No	No	No	No	No	YES
249	LAKE AUDIE	2989*	No	No	No	No	No	No	No	No
250	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
251	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
252	BORDER LAKE	3002A1*	No	No	No	No	No	No	No	No
253	LAKE SPAR	3170G*	No	No	No	No	No	No	No	YES
254	APACHE LAKE	3170F5*	No	No	No	No	No	No	No	No
255	LAKE LILLY	2872C	No	No	No	No	No	No	No	YES
256	LAKE CATHERINE	3169P	No	No	No	No	No	No	No	YES
257	LAKE FREDRICA	3036	No	No	No	No	No	No	No	YES
258	OSAGE LAKE	3170FF	No	No	No	No	No	No	No	YES
259	ST JOHNS RIVER	2893I*	No	YES	YES	No	No	No	No	YES
260	LAKE LOUISE	3018	No	No	No	No	No	No	No	YES
261	LAKE STAR	3170F4*	No	No	No	No	No	No	No	No
262	LAKE TILDEN	2875B	No	No	No	No	No	No	No	YES
263	SOUTH LAKE	3170O2	No	No	No	No	No	No	No	YES
264	SPRING LAKE	3169K	No	No	No	No	No	No	No	YES
265	LAKE GEORGE	3036A1	No	No	No	No	No	No	No	YES
266	ST JOHNS RIVER	2964B1*	No	YES	No	No	No	No	No	YES
267	SECOND CREEK	3049	No	No	No	No	No	No	No	No
268	ST JOHNS RIVER	2893K1*	No	YES	No	No	No	YES	YES	YES
269	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
270	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
271	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
272	ST JOHNS RIVER	28935*	No	YES	No	No	No	YES	YES	YES
273	ECONLOCKHATCHEE RIVER	3001C*	No	YES	YES	No	No	YES	No	YES
274	LAKE GLORIA	3168K	No	No	No	No	No	No	No	YES
275	LAKE JESSAMINE	3168C	No	No	No	No	No	No	No	YES
276	LAKE WHIPPOORWILL	3171B	No	No	No	No	No	No	No	YES
277	BLACK LAKE	2875A	No	No	No	No	No	No	No	YES
278	LAKE ALPHARETTA	3002W	No	No	No	No	No	No	No	YES
279	LAKE SHERWOOD	3002H	No	No	No	No	No	No	No	YES

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## **Appendix C: Applied Ecology, Inc. Technical Memorandum**

# SEPTIC AND SEWER SPATIAL ANALYSIS TECHNICAL MEMORANDUM REPORT

## DATA COLLECTION AND RECOMMENDATIONS REPORT

*FEBRUARY 2022*

**PREPARED FOR:**



**Drummond Carpenter, PLLC**  
47 E. Robinson St., Suite 210  
Orlando, FL 32801

**PREPARED BY:**



**Applied Ecology, Inc.**  
1080 Woodcock Road, Suite 245  
Orlando, FL 32803

# TABLE OF CONTENTS

---

Introduction.....	1
Methodology .....	5
Data Sources and Variables.....	5
Level of Confidence Sewer and Septic with Decision Rules.....	7
Spatial Analysis for Variable Development.....	10
Septic Systems .....	10
Waterbodies.....	11
Orange County Property Appraiser Data .....	11
Individual Parameter Ranking .....	12
Septic Density .....	12
Orange County Aquifer Vulnerability Assessment (OCAVA) .....	15
Subdivisions within Impaired Surface and Spring Watersheds.....	17
Census Data.....	20
Distances to Existing Sewer Infrastructure.....	26
Subdivision Age .....	27
Waterbodies .....	29
Mean Elevation.....	29
Final Pollution Potential Ranking Results.....	31
Socioeconomics .....	42
References.....	46

# LIST OF FIGURES

---

FIGURE 1. THE GEOGRAPHIC LOCATION OF SUBDIVISIONS WITH GREATER THAN 50% OSTDS WITH ORANGE COUNTY, FLORIDA. ....	3
FIGURE 2. FREQUENCY OF PERCENT SEPTIC PARCELS WITHIN SUBDIVISIONS IN ORANGE COUNTY, FLORIDA, WITH GREATER THAN 50% SEPTIC PARCELS PER SUBDIVISION. ....	10
FIGURE 3. GEOGRAPHIC LOCATION OF WATERBODIES WITHIN ORANGE COUNTY, FLORIDA.....	11
FIGURE 4. FREQUENCY DISTRIBUTION OF SEPTIC DENSITY IN SUBDIVISIONS COMPRISED OF GREATER THAN 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. * GENERALLY, SUBDIVISIONS WITH SEPTIC DENSITY GREATER THAN 5 SEPTIC TANKS PER ACRE ARE MULTI-FAMILY HOUSING (LIKE TOWNHOMES AND CONDOMINIUMS).....	13
FIGURE 5. SEPTIC DENSITY FOR SUBDIVISIONS WITH AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	14
FIGURE 6. FREQUENCY DISTRIBUTION OF OCAVA CLASSES FOR SUBDIVISIONS OF GREATER THAN 50 PERCENT SEPTIC, IN ORANGE COUNTY, FLORIDA. ....	15
FIGURE 7. MEAN OCAVA CLASS FOR SUBDIVISIONS WITH AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	16
FIGURE 8. FREQUENCY DISTRIBUTION OF PERCENTAGE OF SUBDIVISION, OF GREATER THAN 50 PERCENT SEPTIC, WITHIN AN IMPAIRED WATERSHED, IN ORANGE COUNTY, FLORIDA. ....	17
FIGURE 9. IMPAIRED WBIDS AND SPRING SHEDS WITHIN ORANGE COUNTY, FLORIDA.....	18
FIGURE 10. PERCENTAGE OF SUBDIVISIONS, OF GREATER THAN 50 PERCENT SEPTIC, WITHIN AN IMPAIRED SURFACE OR SPRING WATERSHED, IN ORANGE COUNTY, FLORIDA. ....	19
FIGURE 11. FREQUENCY DISTRIBUTION OF 2010 POPULATION DENSITY, WITHIN SUBDIVISIONS CONTAINING AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	21
FIGURE 12. FREQUENCY DISTRIBUTION OF THE CHANGE IN POPULATION DENSITY FROM 2000-2020, WITHIN SUBDIVISIONS CONTAINING AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA.....	21
FIGURE 13. FREQUENCY DISTRIBUTION OF THE POTENTIAL CHANGE IN HOUSING DENSITY FROM 2020-2050, WITHIN SUBDIVISIONS CONTAINING AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA.....	22
FIGURE 14. 2010 MEAN POPULATION DENSITY, PERSON PER ACRE WITHIN A SUBDIVISION GREATER THAN 50% SEPTIC, ORANGE COUNTY, FLORIDA. DATA SOURCE U.S. CENSUS BUREAU.....	23
FIGURE 15. POPULATION DENSITY CHANGE FROM 2000 TO 2020, ORANGE COUNTY, FLORIDA. DATA SOURCE SEDAC.6. .	24
FIGURE 16. PROJECTED HOUSING DENSITY CHANGE FROM 2020 TO 2050, ORANGE COUNTY, FLORIDA. DATA SOURCE SILVUS. ....	25
FIGURE 17. FREQUENCY DISTRIBUTION OF DISTANCE TO SEWER FORCE MAIN (FT), FOR SUBDIVISIONS CONTAINING AT LEAST 50 PERCENT SEPTIC, WITHIN ORANGE COUNTY, FLORIDA. ....	26
FIGURE 18. FREQUENCY DISTRIBUTION OF MEAN YEAR BUILT IN SUBDIVISIONS COMPRISED OF GREATER THAN 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	27
FIGURE 19. MEAN YEAR BUILT FOR SUBDIVISIONS WITH AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. .	28
FIGURE 20. FREQUENCY DISTRIBUTION OF MEAN DISTANCE TO WATERBODY IN SUBDIVISIONS COMPRISED OF GREATER THAN 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	29
FIGURE 21. FREQUENCY DISTRIBUTION OF MEAN ELEVATION (FT) WITHIN SUBDIVISIONS CONTAINING AT LEAST 50 PERCENT SEPTIC WITHIN ORANGE COUNTY, FLORIDA. ....	30
FIGURE 22. ELEVATION DERIVED FROM LIDAR DIGITAL ELEVATION MODEL FOR SUBDIVISIONS WITHIN ORANGE COUNTY, FLORIDA. ....	31

FIGURE 23. POLLUTION POTENTIAL COLOR RANKING SCALE FOR ORANGE COUNTY, FLORIDA. COOLEST COLOR REPRESENTING RANK 1 (LOW POLLUTION POTENTIAL) TO HOTTEST COLOR RANK 6 (HIGHEST POLLUTION POTENTIAL).....	34
FIGURE 24. UNWEIGHTED VULNERABILITY SCHEME BY SUBDIVISION, ORANGE COUNTY, FLORIDA. THE UNWEIGHTED VULNERABILITY SCHEME VALUES WERE GENERATED BY AVERAGING THE SCORES FOR EACH INDIVIDUAL PARAMETER FOR EACH SUBDIVISION. HIGHER VALUES INDICATE HIGHER POTENTIAL FOR POLLUTANT LOADING.....	39
FIGURE 25. WEIGHTED VULNERABILITY SCHEME BY SUBDIVISION, ORANGE COUNTY, FLORIDA. THE WEIGHTED VULNERABILITY SCHEME VALUES WERE GENERATED BY MULTIPLYING EACH INDIVIDUAL PARAMETER RANK BY AN IMPORTANCE WEIGHT, SUMMING, AND THEN DIVIDING BY THE NUMBER OF INDIVIDUAL PARAMETERS FOR EACH SUBDIVISION. HIGHER VALUES INDICATE HIGHER POTENTIAL FOR POLLUTANT LOADING.....	40
FIGURE 26. WEIGHTED CONNECTIVITY SCHEME BY SUBDIVISION, ORANGE COUNTY, FLORIDA. THE WEIGHTED VULNERABILITY SCHEME VALUES WERE GENERATED BY MULTIPLYING EACH INDIVIDUAL PARAMETER RANK BY AN IMPORTANCE WEIGHT, SUMMING, AND THEN DIVIDING BY THE NUMBER OF INDIVIDUAL PARAMETERS FOR EACH SUBDIVISION. HIGHER VALUES INDICATE HIGHER POTENTIAL FOR POLLUTANT LOADING.....	41
FIGURE 27. THE PERCENTAGE OF HOUSEHOLDS BELOW POVERTY PER CENSUS BLOCK GROUP, ORANGE COUNTY, FLORIDA. DATA SOURCE U.S. CENSUS BUREAU .....	43
FIGURE 28. THE PERCENTAGE OF HOUSEHOLDS ON PUBLIC ASSISTANCE PER CENSUS BLOCK GROUP, ORANGE COUNTY, FLORIDA. DATA SOURCE U.S. CENSUS BUREAU .....	44
FIGURE 29. THE MEDIAN HOUSEHOLD INCOME PER CENSUS BLOCK GROUP, ORANGE COUNTY, FLORIDA. DATA SOURCE U.S. CENSUS BUREAU. ....	45

## LIST OF TABLES

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TABLE 1. TOP SUBDIVISIONS AMONG FINAL RANKING SCHEMES WITHIN THE ORANGE COUNTY, FLORIDA.....	4
TABLE 2. DATA SOURCES USED AS BASIS FOR RANKING POLLUTION POTENTIAL FOR SUBDIVISIONS WITHIN ORANGE COUNTY, FLORIDA. ....	5
TABLE 3. WASTEWATER INFRASTRUCTURE LEVEL OF CONFIDENCE WITHIN ORANGE COUNTY, FLORIDA.....	9
TABLE 4. BREAK POINTS FOR ALL PARAMETERS USED FOR SCHEMES WITHIN SUBDIVISIONS DOMINATED BY OSTDS ( $\geq 50\%$ SEPTIC PARCELS) WITHIN ORANGE COUNTY, FLORIDA. ....	32
TABLE 5. VARIABLE WEIGHTS USED IN FINAL VULNERABILITY SCHEMES (UNWEIGHTED AND WEIGHTED) FOR ORANGE COUNTY, FLORIDA. ....	33
TABLE 6. VARIABLE WEIGHTS USED IN FINAL WEIGHTED CONNECTIVITY SCHEME FOR ORANGE COUNTY, FLORIDA.....	33
TABLE 7. VARIABLE AND OVERALL UNWEIGHTED VULNERABILITY SCHEME FOR ORANGE COUNTY SUBDIVISIONS WITH SCORES GREATER THAN 4.25. ....	35
TABLE 8. VARIABLE AND OVERALL WEIGHTED VULNERABILITY SCHEME FOR ORANGE COUNTY SUBDIVISIONS WITH SCORES GREATER THAN 4.25. ....	36
TABLE 9. VARIABLE AND OVERALL WEIGHTED CONNECTIVITY SCHEME FOR ORANGE COUNTY SUBDIVISIONS WITH SCORES GREATER THAN 4.25. ....	37

## LIST OF APPENDICES

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Appendix A - Parameters for the Development of Pollution Potential Index

Appendix B - Pollution Potential Prioritization Ranking



# INTRODUCTION

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Orange County has retained the team of Drummond Carpenter PLLC. (DC) and Applied Ecology, Inc. (AEI) to assist the County with developing an aquifer vulnerability assessment and management plan to address Onsite Sewage Treatment and Disposal systems' (OSTDS), also referred to as septic systems', influence on nitrogen pollution. AEI has developed a methodology for assigning confidence of parcel wastewater infrastructure that will help assess potential septic-based nitrogen pollution of the surficial aquifer countywide. This report describes the key variables and methodologies needed to prioritize retrofit areas and rank potential septic to sewer projects within Orange County to aid management plan development. In this report, we refer to parcel services by central sewer as "sewer" and to those serviced by OSTDS as a "septic" parcel.

Septic systems are known inputs of nutrients to water systems, particularly those located near impaired waters, in soil with high hydraulic conductivity, and in areas with shallow groundwater. An overabundance of nutrients, eutrophication, has caused impairments in many of Florida's waters, resulting in overabundance of algal bloom conditions, reductions of dissolved oxygen, and subsequent loss of aquatic life. Clean Waterways Act, now Chapter 2020-150, Laws of Florida, places priority measures to minimize the impact of OSTDS by transferring authority for these systems to Florida Department of Environmental Protection (FDEP) from Florida Department of Health (FDOH) and prioritizing remediation plans for OSTDS in areas with Basin Management Plans (BMAPs). Through this bill FDEP has been directed to adopt new rules related to OSTDS. These rules will supersede the existing statutory requirements for setbacks and take into consideration conventional and advanced OSTDS designs, impaired water bodies, wastewater and drinking water infrastructure, potable water sources, non-potable wells, stormwater infrastructure, OSTDS remediation plans, and nutrient pollution. An important focus of this Act is the requirement that local governments develop OSTDS remediation plans within BMAPs if the FDEP determines that OSTDSs contribute at least 20 percent of the nutrient pollution or if the DEP determines remediation is necessary to achieve the total maximum daily load. Such plans must be adopted as part of the BMAPs no later than July 1, 2025. Orange County is being proactive in initiating a plan to identify the most vulnerable regions of the county to sources of septic-base groundwater solution, before additional requirements have been identified by FDEP.

Identifying areas vulnerable to elevated sources of nutrient loads is important because total nitrogen and total phosphorus are major groundwater and surface water pollutants generated by OSTDS (Badruzzman et al 2012; Briggs et al. 2007; Wang et al. 2012; Ye et al. 2014; Ye et al. 2017; Zhu et al. 2016). There are many variables that influence pollution rates from OSTDS like soil denitrification rates and other variables considered in this analysis but converting existing septic systems to properly functioning sewer will help reduce pollution rates by eliminating septic leachate to the groundwater.

The scope of work completed by AEI included data acquisition, spatial analysis, and the development and implementation of a ranking system to prioritize subdivisions based on the potential for these areas to contribute to the eutrophication of the nearby water systems.

Deliverables for this work include:

- File Geodatabase with final spatial layers used in the reporting effort, including the septic inventory with associated level of confidence, distances to force/gravity mains, and priority areas for retrofit.
- Draft Septic and Sewer Spatial Analysis Technical Memorandum Report summarizing the above-described efforts with level of confidence tables, septic density maps (current and potential future), population household change maps, distance to current sewer infrastructure, and priority retrofit area.

To meet the objectives described above, AEI collected relevant ancillary GIS datasets, including septic inventory, current sewer infrastructure, current land use, hydrographic features, elevation datasets, census and census-derived datasets, Property Appraiser's (PA) data, among others. These data were organized in an ESRI File Geodatabase. Orange County's septic inventory was compared against FDEP's, FDOH's and infrastructure and billing records within the county to produce a refined septic inventory for the area of interest. Orange County subdivisions served primarily by OSTDS (defined as greater than 50% of the total parcels) were selected for ranking based on their potential to contribute to nutrient pollution via groundwater sources (Figure 1).

Parameters used in the ranking process included:

- septic density (number divided by total area)
- mean Orange County Aquifer Vulnerability Assessment (OCAVA) class (provided by DC)
- percent subdivision in impaired surface or spring watershed
- housing density change (2020-2050)
- population density (2010) and population density change (2000-2020)
- mean year built
- mean distance to watershed
- mean elevation

In order to prioritize subdivisions for potential retrofit (connection to a central sewer system), an additional ranking scheme (connectivity scheme) was developed to include an additional variable, the distance to existing infrastructure (force main & gravity main). This distance provides a generalized proxy for potential cost associated with connection, though an engineering evaluation would be required to provide a more detailed analysis of constraints and costs associated with each of high priority communities.

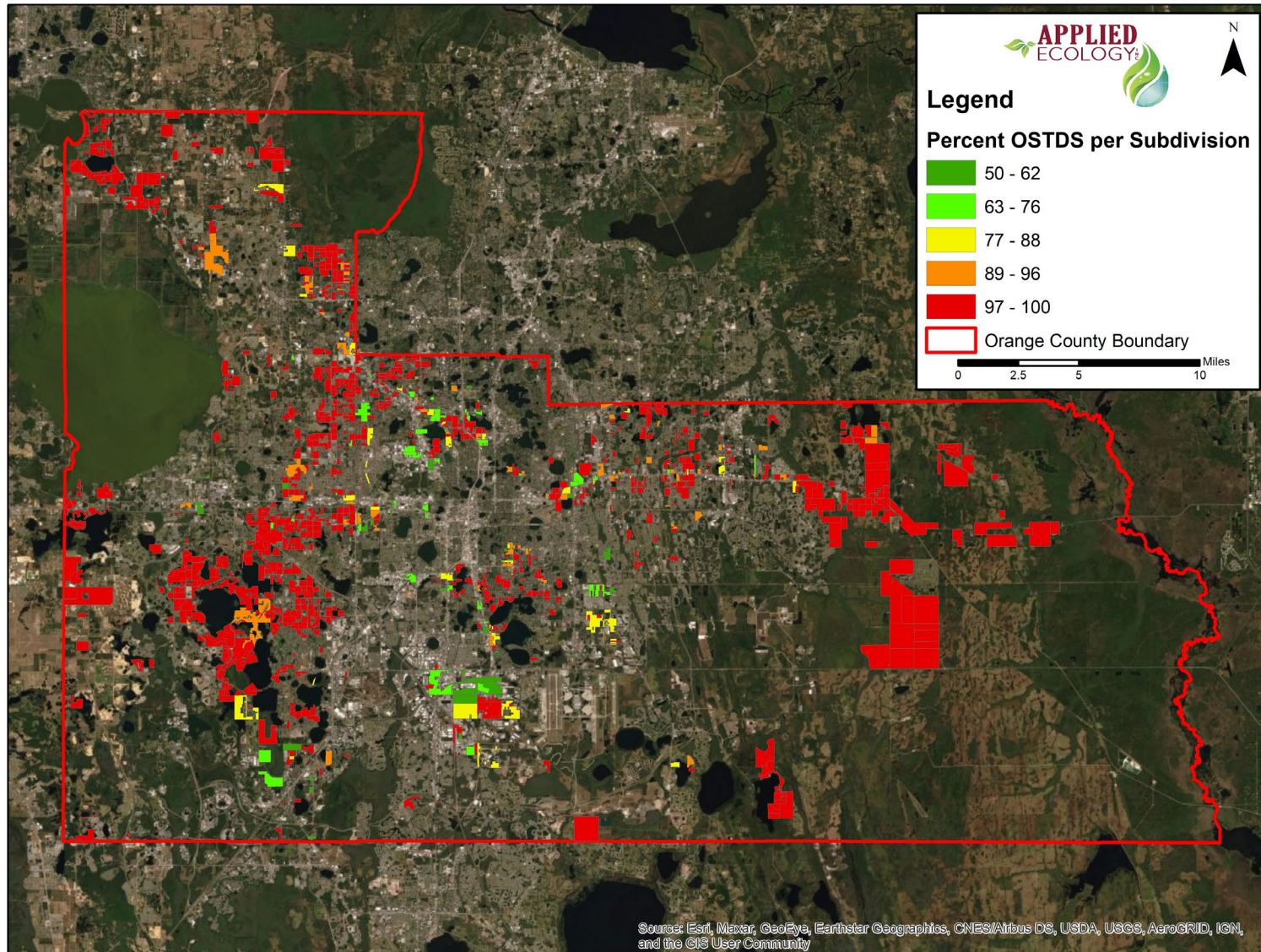


Figure 1. The geographic location of subdivisions with greater than 50% OSTDS with Orange County, Florida.



The final weighted and unweighted vulnerability schemes used the listed individual variables to determine locations that contribute nutrient source pollution into the groundwater. Examples would be areas with higher septic density, or higher population per household, and/or distance to waterbody, would be ranked as priority retrofit areas with high vulnerability of groundwater source pollution.

Results from the vulnerability and connectivity schemes are presented in Appendix A and B, while the top 15 subdivisions within Orange County are presented here in Table 1. Appendix A contains the raw values for each of the parameters used in the development of pollution potential and Appendix B contains the associated ranking values assigned to each of the parameters along with the final prioritization scheme values. The subdivisions were ranked using a scheme of prioritization of the above listed individual parameters, with each ranking placing different weights to the parameters. In both vulnerability schemes, the three subdivisions most highly ranked for their likelihood to contribute nutrient pollution were the Semoran Club Condo, Piedmont Estates, and the Long Lake Villas Phase 1B subdivisions, respectively. The connectivity prioritization scheme ranked highest priority the three subdivisions from the vulnerability scheme along with Lake Florence Highlands Phase 1 subdivision and the JLM Condo. All other subdivisions within the three schemes had different ranks. In addition to the overall vulnerability ranking, ancillary information associated with infrastructure can assist with the engineering planning and community outreach efforts.

**Table 1. Top subdivisions among final ranking schemes within the Orange County, Florida.**

Rank	Unweighted Vulnerability Rank	Weighted Vulnerability Rank	Weighted Connectivity Rank
1	Semoran Club Condo	Long Lake Villas Ph 1B	Piedmont Estates
2	Piedmont Estates	Piedmont Estates	Lake Florence Highlands Ph 1
3	Ranchette	Lake Florence Highlands Ph 1	Semoran Club Condo
4	Riverside Acres	Eden Park Estates	J L M Condo
5	Long Lake Villas Ph 1B	Semoran Club Condo	Eden Park Estates
6	Wells Gap	J L M Condo	Lake Cortez Woods
7	Rimar Ridge	Little Lake Park	Little Lake Park
8	Eden Park Estates	Parc Corniche Condo Ph 1	Long Lake Villas Ph 1B
9	Monroe Manor	Troynelle By Big Lake Apopka	University Garden
10	Holiday Heights	Wells Gap	Pennsy Park
11	Lake Barton Park	Lake Cortez Woods	Lake Barton Park
12	Little Lake Park	Little Lake Georgia Terrace	Callum Mac Sub
13	Meadowbrook Annex 2Nd Add	Ranchette	Enclave At Oxford Place Condo
14	Riverside Acres 1St Add	Parc Corniche Condo Ph 2	Meadowbrook Annex 2Nd Add
15	Wekiwa Manor Sec 2	Rimar Ridge	Little Lake Georgia Terrace

## METHODOLOGY

The process of assessing Orange County aquifer vulnerability is data intensive, requiring many different data sources and types (Table 2). Assigning a level of confidence to the septic or sewer parcel identification (inventory) required developing systematic rules to compare various data sources and types (Table 3). The process of ranking priority retrofit areas also required the synthesis and aggregation of many data sets from a variety of sources and the use of a statistical classification methods.

## DATA SOURCES AND VARIABLES

This vulnerability assessment was able to integrate many previously disparate data sources. A table has been provided to identify the sources for each required data set in this study (Table 2).

**Table 2. Data sources used as basis for ranking pollution potential for subdivisions within Orange County, Florida.**

Name	Source	Description
<b>Subdivisions</b>	Orange County	Orange county geographic data included subdivision features.
<b>Septic Locations</b>	FLWMI, Orange County, & City of Ocoee	FLWMI septic data were used as the base of the septic parcels. The FLWMI data were used as the base of the data because it appeared complete and more accurate compared to other sources, with exception of the data directly received from Orange County, for septic tank information. These data were then compared to the existing sewer feature classes (sewer gravity line, pressure line, and manholes) to exclude areas that were serviced by central sewer.
<b>Sewer Infrastructure</b>	Orange County Utilities, City of Apopka, Ocoee, Orlando, Maitland, Winter Garden, Winter Park, & Town of Mount Dora	Orange County Utilities geographic data included sewer infrastructure information. Billing data from Orange County Utilities was used to confirm addressees of parcels receiving sewer service. City and Town sewer infrastructure data also used to confirm sewer services to land parcel locations.
<b>Demographic Variables</b>	US Census, SILVIS, & SEDAC	Census data detailing population density, housing density, social and economic structure.
<b>Waterbodies</b>	Orange County	Orange County provided data included a hydrology shapefile containing lakes, ponds, rivers, canals, and springs.
<b>Land Parcel</b>	Orange County	Orange County Property Appraiser's parcel layer was used because it was the most complete source. Centroids of parcels were assumed as the location of the septic tanks. The edges of parcels were used to determine distances to sewer infrastructure (gravity and force mains). Land parcel maps were used to assess both status (vacant, single family, multi-family) for septic systems and proximity analysis to environmental and socioeconomic census data.

Name	Source	Description
<b>WBID</b>	FDEP	Water body identification number is a State of Florida unique numeric identifier assigned to each waterbody. Used as an identifier for each waterbody throughout analysis. Also used to help identify impaired watershed areas within Orange County.
<b>Spring Priority Focus Areas</b>	FDEP	Area with the greatest potential impact to a specific spring within the State of Florida. Spring protection zones are priority areas for BMAP project identification and funding that are based on assumed or modeled groundwater travel time to target springs and high likelihood of land use activities to significantly influence the spring's water quality.
<b>Total Maximum Daily Loads (TMDL)</b>	FDEP	Maximum amount of a pollutant allowed to enter a water body so it will continue to meet water quality standards for that pollutant. Used to identify and track waterbodies with TMDL requirements.
<b>Reasonable Assurance Plan (RAP)</b>	FDEP	Under EPA regulations the state of Florida Watershed Restoration Act allows a RAP as a plan of restoring an impaired waterbody. Used to identify and track waterbodies with Reasonable Assurance Plans.
<b>Orange County Aquifer Vulnerability Assessment (OCAVA)</b>	Drummond Carpenter	This model predicts the relative vulnerability to the Surficial Aquifer System (SAS) within the boundaries of Orange County. The model estimates the likelihood for a pollutant to reach the top of the SAS once into is introduced to the top or within the unsaturated zone.



## LEVEL OF CONFIDENCE SEWER AND SEPTIC WITH DECISION RULES

Decision points were necessary to classify each parcel's confidence of wastewater infrastructure to better inform the accuracy of the wastewater type associated with each parcel (Table 3). It was important to go through this effort to make sure the wastewater infrastructure information was as complete and correct as possible so that accurate conclusions could be made in the prioritization process. Vacant data was also included in this effort because it could better inform the County if the parcels were developed after completion of prioritizing each subdivision. Directly below Table 3 is a detailed breakdown of how those decisions were made at each decision point supported by available data.

### Sewer allocation Decision Rules

- There is an extremely high confidence that the parcel is serviced by central sewer, if billing data exists and there are sewer laterals connecting the parcel.
- There is a high confidence that the parcel is serviced by central sewer, if billing data exists and no sewer laterals exist, but there are nearby sewer gravity lines.
- There is a high confidence that the parcel is serviced by central sewer, if no billing data exists, but lateral data show the parcel is connected and FLWMI indicates it is likely sewer.
- There is a medium confidence that the parcel is serviced by central sewer, if there is no billing data and no nearby sewer laterals exist, but there are nearby sewer mains and FLWMI states it is likely sewer.
- There is a low confidence that the parcel is serviced by central sewer, if there is no billing data, no nearby sewer laterals or main and it is listed as likely sewer in FLWMI and not in the Orange County (OC) inventory as being vacant or not having wastewater data.
- There is a very low confidence that the parcel is serviced by central sewer, if no billing data exists, no sewer laterals or mains present, and it is listed as somewhat likely sewer in FLWMI and it is not in the OC inventory as being vacant or without wastewater.

### Septic allocation Decision Rules

- There is an extremely high confidence that the parcel is serviced by septic, if no billing data exists, there is no infrastructure present, it is listed as known septic in FLWMI and not considered vacant by the Property Appraiser (PA), and the OC Property use inventory assigned it as not having wastewater data.
- There is a very high confidence that the parcel is serviced by septic, if no billing data exists, there is no infrastructure present, it is listed as likely septic in FLWMI, not considered vacant in PA, and the OC Property use inventory assigned it as not having wastewater data.
- There is a high confidence that the parcel is serviced by septic, if no billing data exists, no infrastructure present, somewhat likely septic in FLWMI, not considered vacant by PA, but OC Property use inventory assigned it as not having wastewater data.

- There is a medium confidence that the parcel is serviced by septic, if no billing data exists, no infrastructure present, likely or somewhat likely septic in FLWMI, not considered vacant by PA, and OC Property use inventory assigned without wastewater.
- There is a medium confidence that the parcel is serviced by septic, if there is billing data or nearby lateral infrastructure, considered known or likely septic by FLWMI, not vacant, OC property assigned without wastewater.
- There is a low confidence that the parcel is serviced by septic, if there is billing data or nearby lateral infrastructure, considered somewhat likely septic by FLWMI, not vacant, OC property assigned without wastewater.
- There is a very low confidence that the parcel is serviced by septic, if there is both billing data and lateral infrastructure, considered somewhat likely or unknow parcel by FLWMI, not vacant, OC still assigned to septic.

Table 3. Wastewater infrastructure level of confidence within Orange County, Florida.

Data Type	Level of Confidence					
	Extremely High	Very High	High	Medium	Low	Very Low
<b>Sewer Infrastructure Information</b>						
<b>Municipality WW Billing Data</b>	Billing information	Billing information				
<b>Municipality WW Infra. Data</b>	Lateral lines	Nearby gravity mains	Lateral line	Nearby gravity main		
<b>Florida Water Management Inventory (FLWMI)</b>			Likely sewer	Likely sewer	Likely sewer	Somewhat likely sewer
<b>Septic Information</b>						
<b>FLWMI</b>	Known septic	Likely septic	Somewhat likely septic	Likely or somewhat likely sewer OR known or likely septic	Somewhat likely septic	No information
<b>Municipality WW Data</b>	Known septic and no nearby sewer infrastructure	Likely septic and no nearby sewer infrastructure	No nearby sewer infrastructure	No nearby sewer infrastructure OR somewhat nearby sewer infrastructure	Somewhat nearby sewer infrastructure	Somewhat nearby sewer infrastructure
<b>Land Use/Vacant Information</b>						
<b>Orange County Property Use Codes</b>	Known vacant parcel, not associated WW infrastructure		LU indicates vacant parcel			LU indicates vacant parcel, aerial has building

## SPATIAL ANALYSIS FOR VARIABLE DEVELOPMENT

To facilitate this analysis, geographic data were gathered and analyzed in the ArcGIS environment. The first step after gathering the data, was to make sure they are comparable and compatible. Below is a brief discussion of the spatial datasets and processing.

### Septic Systems

Septic (OSTDS) FLWMI data were added to GIS database and clipped to match geographic boundaries of Orange County. For each parcel containing septic, an associated confidence attribute was assigned of "very high, high, medium, low, or very low. The base layer, FLWMI layer, was then compared to the parcel layer, aerial imagery, septic tank locations, and sewer infrastructure data provided. For example, parcels from the FLWI data that stated they were on septic, but the sewer infrastructure data indicated that the parcel was served by a lateral, were considered to be on central sewer, and the attributes were updated accordingly. Parcels that were indicated to be vacant as reported by the property appraiser dataset, were updated to indicate that they were vacant. The last step was quality control checks and final editing to ensure accuracy.

The percentage of parcels serviced by septic system was calculated for each of the Orange County subdivisions. Subdivisions with greater than 50% septic parcels (out of the total number of developed parcels) were considered "septic". A frequency histogram of the % septic systems is displayed in Figure 2. As anticipated, subdivisions that had septic systems were typically dominated by those with no access to central sewer. Most of the subdivisions with greater than 50% of the parcels on septic used in the prioritization are completely dominated by parcels on septic (>97.8% septic, Figure 2).

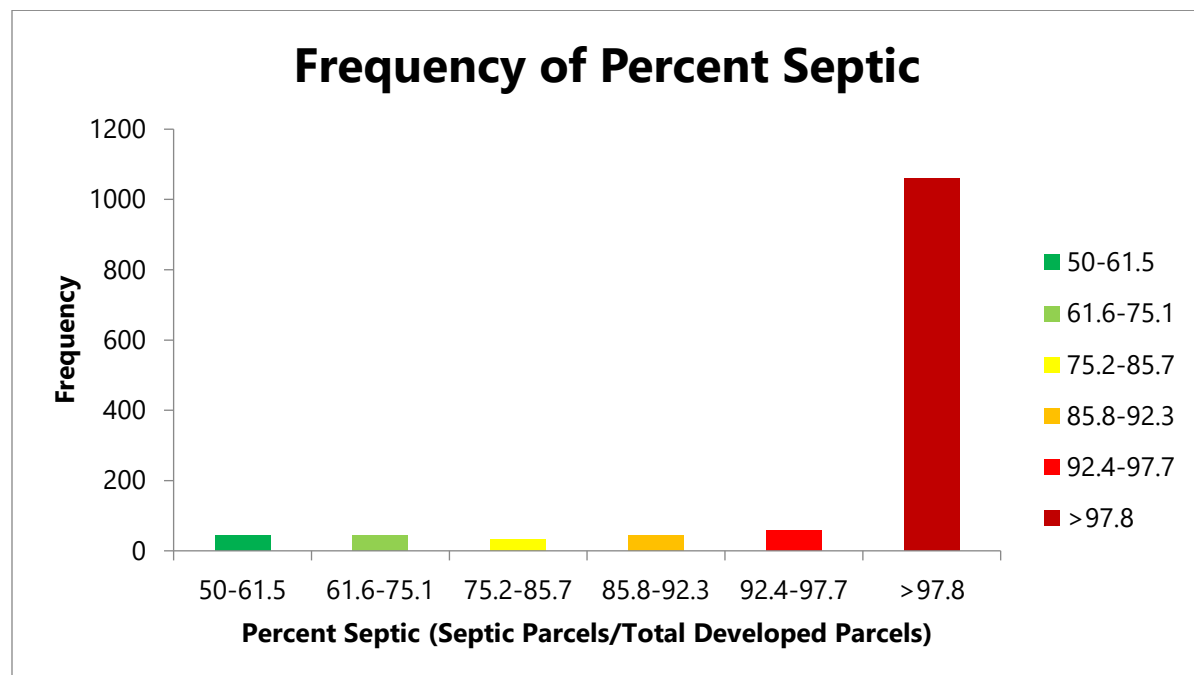


Figure 2. Frequency of percent septic parcels within subdivisions in Orange County, Florida, with greater than 50% septic parcels per subdivision.

## Waterbodies

An Orange County hydrology feature class with lakes, rivers, ponds, canals, springs, and stream watershed areas was obtained from the County. These waterbodies were used for calculating distances between the edge of parcels and the closest waterbody.

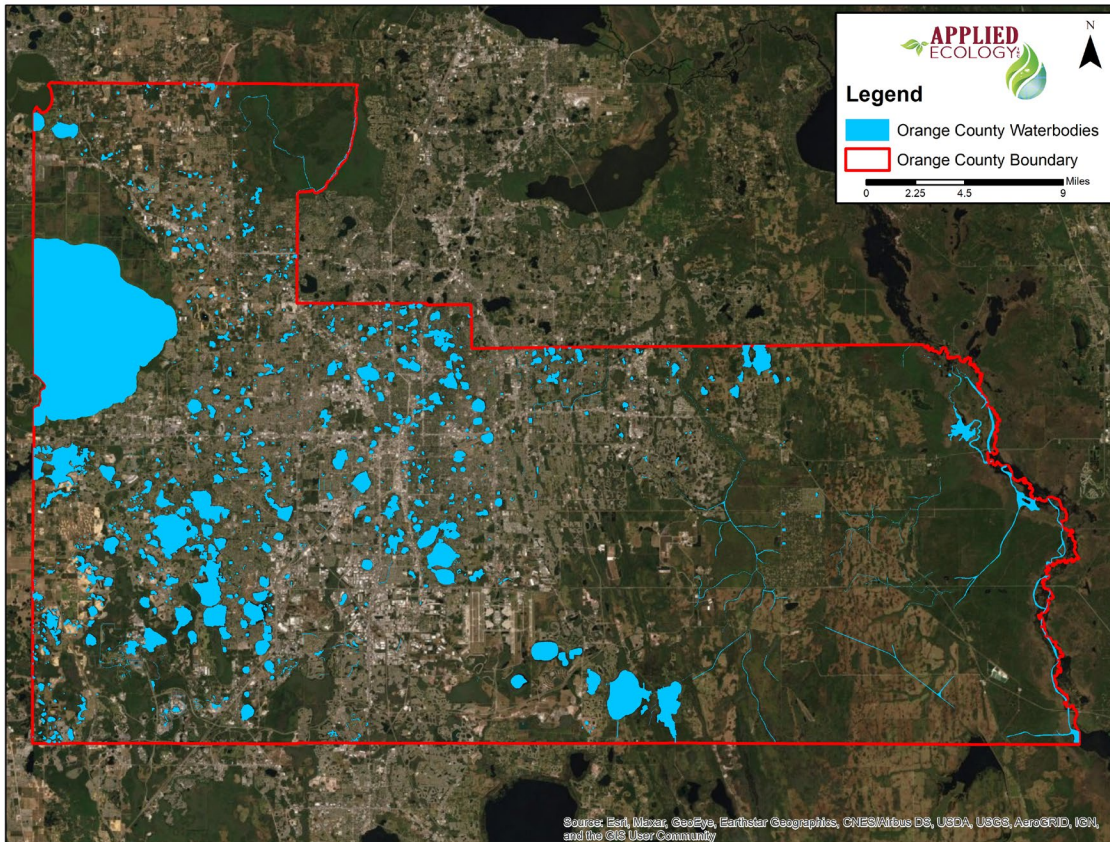


Figure 3. Geographic location of waterbodies within Orange County, Florida.

## Orange County Property Appraiser Data

Orange County Property Appraiser land use code data was utilized and augmented with property use description information and added to land parcel geographic features. The data were obtained directly from the Orange County Property Appraiser's Office with associated parcel information, including but not limited to, land use code, land use description, and year built (actual and approximate).

The distance from the parcel boundary (edge of parcel) to the nearest force sewer main and gravity sewer main were measured using automated GIS measuring functions. The septic layer created for this project was used to identify the parcels as septic. If a parcel did not overlap with the septic points, it was then compared to municipal sewer infrastructure and Property Appraiser data to determine if it was a sewer or vacant parcel, and each parcel was labeled as septic, sewer, or vacant.

Subdivisions from the Property Appraiser were used as the boundaries used in determining priority retrofit areas. The parameters, Table 2, were then summarized by subdivisions completely or partially within unincorporated Orange County. Impaired waterbody watersheds (WBIDs) were used to determine percentage of each subdivision within an impaired watershed.

Elevation data were derived by using NOAA provided LiDAR raster data based Digital Elevation Model (DEM) collected in March 2006. Each parcel was assigned a mean elevation value based on parcel boundary and LiDAR elevation data in the GIS for all subdivisions.

## INDIVIDUAL PARAMETER RANKING

---

Each of the parameters that were used in final prioritization will be summarized in this section. Summarized parameters include septic density, OCAVA, subdivisions within impaired surface and spring watersheds, census data, distances to existing sewer infrastructure, subdivision age, distance to waterbodies, and mean elevation.

All the parameters were individually ranked with a score from 1 to 6. A rank of 1 was given to values that would have a lower pollution potential, whereas a rank of 6 was given to values that would have a higher pollution potential. For each of the individual parameters, a histogram is provided to show the frequency of subdivisions within each break point. The break points were determined using the Jenks natural breaks optimization method, which is a method in which natural breaks in the data are determined by reducing the variance within each of the classes and maximize the variance between the classes. This classification method provides more accurate visual representation of the data, often used when developing choropleth maps. For each of these breakpoints the rank (1-6) is shown above the bar along with a color (green to red, respectively to rank) within the graph. The Jenks method was used for septic density, percent of subdivisions within an impaired surface or spring watershed, the census data, and elevation. The breaks for subdivision age were created using significant legislative events pertaining to septic systems and groundwater. The break points for distances to sewer infrastructure and waterbodies were determined using bins of 500 to 1000 ft.

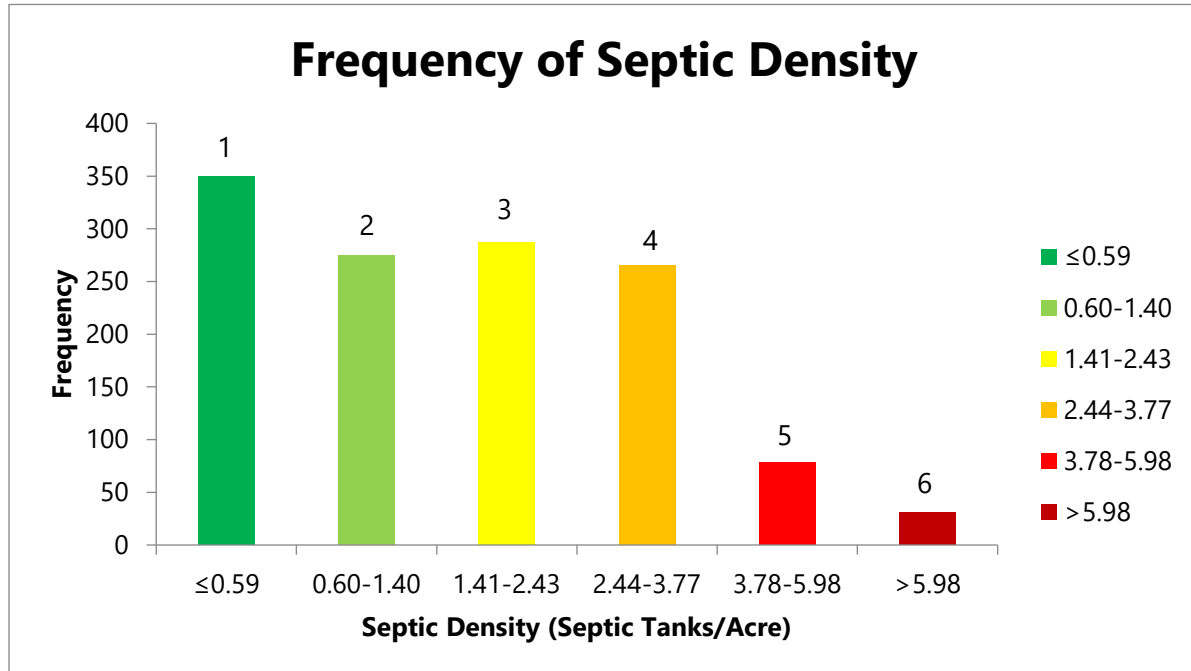
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## SEPTIC DENSITY

Septic density (number septic parcels divided by area in subdivision) is one of the most important indicators of pollution potential, the greater number of OSTDS within a small area the greater the loading potential into a nearby waterbody or groundwater. Population density, number of OSTDS within a subdivision, or typical land use density are often used to prioritize areas of interest and are critical input variables for groundwater water quality modeling (Keene, 2015; Harper & Baker, 2007; Briggs, Roeder, & Ursin, 2007; LaPointe & Herren, 2016). The higher the density of the houses and septic tanks within an area, the greater concentration and volume of wastewater. Thus, there is greater potential for groundwater contamination with higher septic densities within subdivisions (Figure 4). The subdivisions with higher septic tank density were ranked the highest, class 6, due to the increased potential for groundwater contamination. Some of the subdivisions have a septic density greater than



5 septic tanks per acre, these are generally associated with multi-family residential subdivisions like townhomes and condominiums. Townhomes and condominiums are not generally considered to be on septic but were marked as septic due to lack of data or sewer infrastructure in the surrounding areas. Most of the subdivisions fell into the lowest 4 categories, with septic densities ranging from <0.59 to 3.77 septic tanks per acre. Figure 5 shows the distribution subdivision septic density across the County.



**Figure 4. Frequency distribution of septic density in subdivisions comprised of greater than 50 percent septic within Orange County, Florida. \* Generally, subdivisions with septic density greater than 5 septic tanks per acre are multi-family housing (like townhomes and condominiums).**

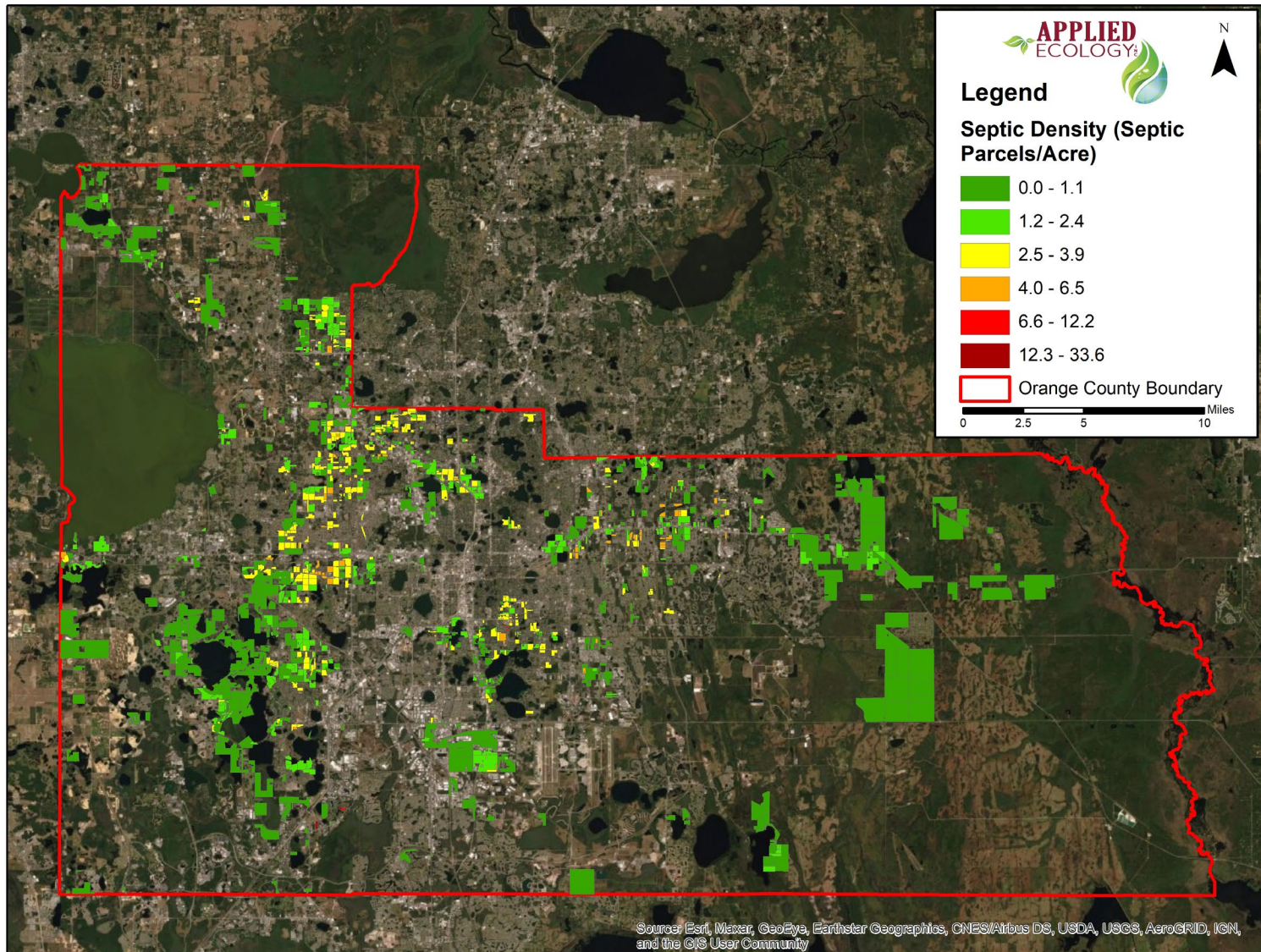


Figure 5. Septic density for subdivisions with at least 50 percent septic within Orange County, Florida.

## ORANGE COUNTY AQUIFER VULNERABILITY ASSESSMENT (OCAVA)

The Orange County Aquifer Vulnerability Assessment (OCAVA) is a model developed by Drummond Carpenter, which predicts the relative vulnerability of the Surficial Aquifer System (SAS) within the boundaries of Orange County. The assessment was conducted using the Weights of Evidence (WoE) Approach (Arthur, 2017), a probability model, to estimate the likelihood for a pollutant to reach the top of the SAS once it is introduced to the top of or within the unsaturated zone. The model classifies regions within the study area into three relative vulnerability categories (i.e., more vulnerable, vulnerable, less vulnerable) that can be viewed spatially as the response theme. These three categories were then given rank values of 6, 3, and 1, respectively. These values were then spatially averaged per subdivision with greater than 50% septic, across Orange County. Figure 6 shows the frequency distribution and Figure 7 shows the spatial distribution of OCAVA class values for subdivisions in Orange County.

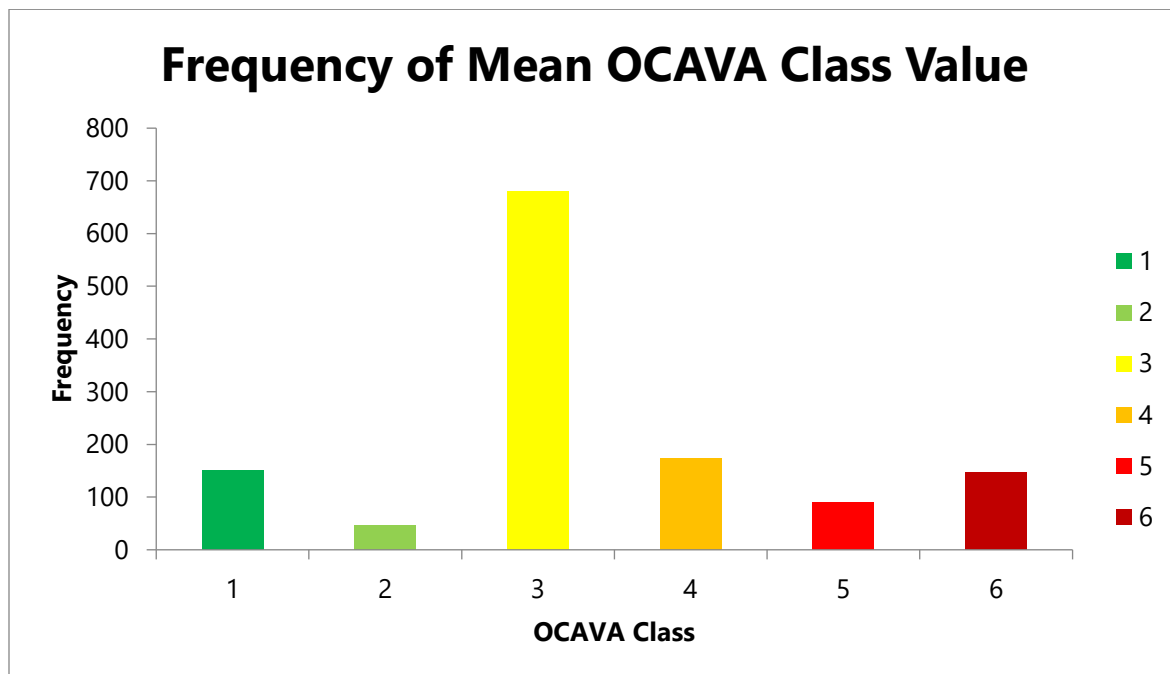


Figure 6. Frequency distribution of OCAVA classes for subdivisions of greater than 50 percent septic, in Orange County, Florida.



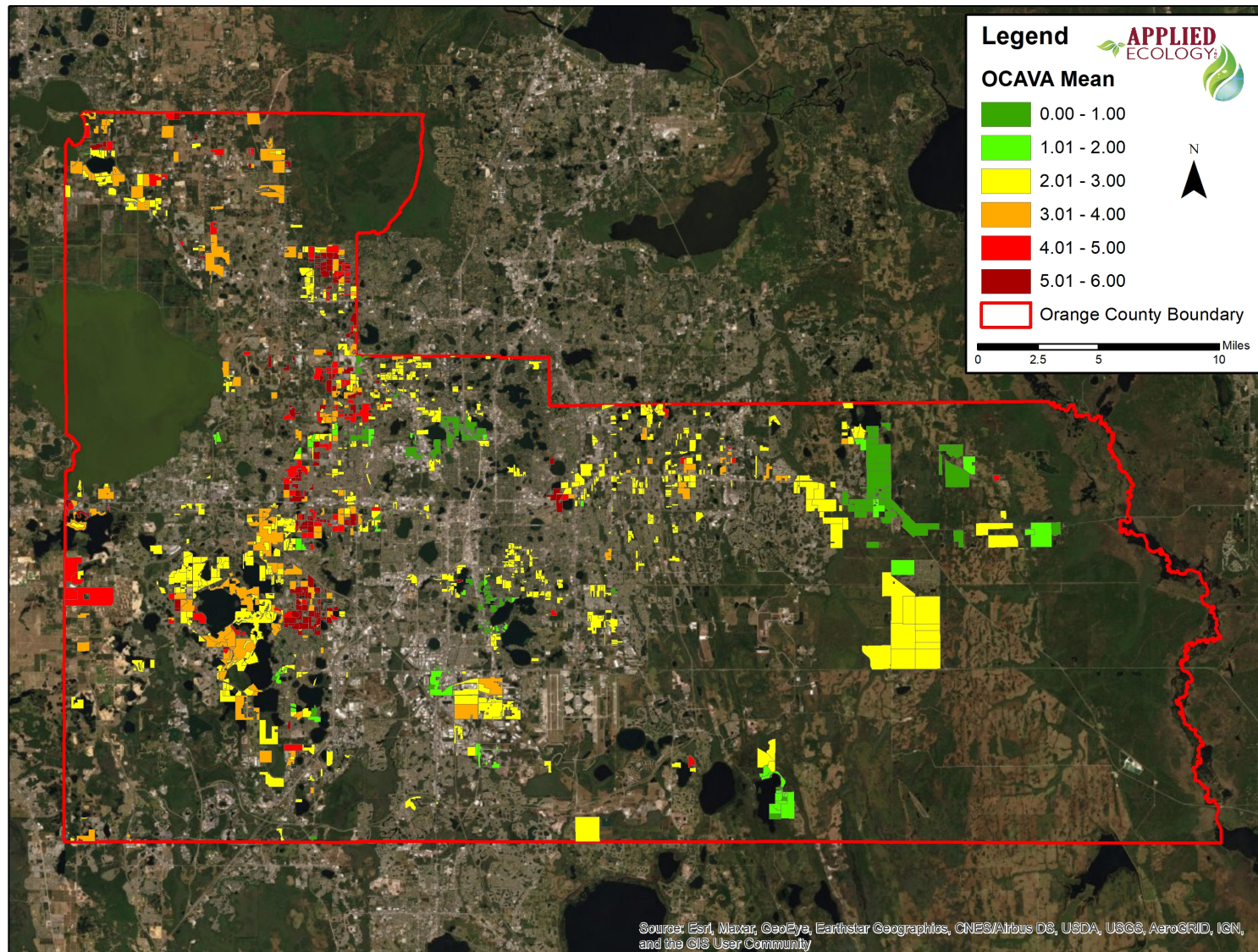


Figure 7. Mean OCAVA class for subdivisions with at least 50 percent septic within Orange County, Florida.

## SUBDIVISIONS WITHIN IMPAIRED SURFACE AND SPRING WATERSHEDS

Impaired waterbody watersheds were used to determine which subdivisions fell within an impaired surface or spring watershed. Highest priority was assigned to subdivisions with the highest percent acreage within an impaired watershed due to the chance that the septic tanks would have a greater negative impact on the impaired waterbody. Figure 8 provides the frequency of subdivisions using percentage of subdivision within an impaired watershed. Most subdivisions fell inside the two classes, with class one having the highest frequency of subdivisions and class six having the second highest frequency. Class one or subdivisions with <10.8% within an impaired watershed and class six subdivisions having 93.8-100%. Subdivisions with 93.8% or greater of the subdivision within an impaired watershed were prioritized to having the highest ranking, while those in the 0-18.5% category were classified as the lowest class. Figure 9 provides the watershed boundaries within Orange County and indicates if the watershed impaired or not impaired, while Figure 10 provides spatial distribution of the percentage of subdivisions within an impaired watershed.

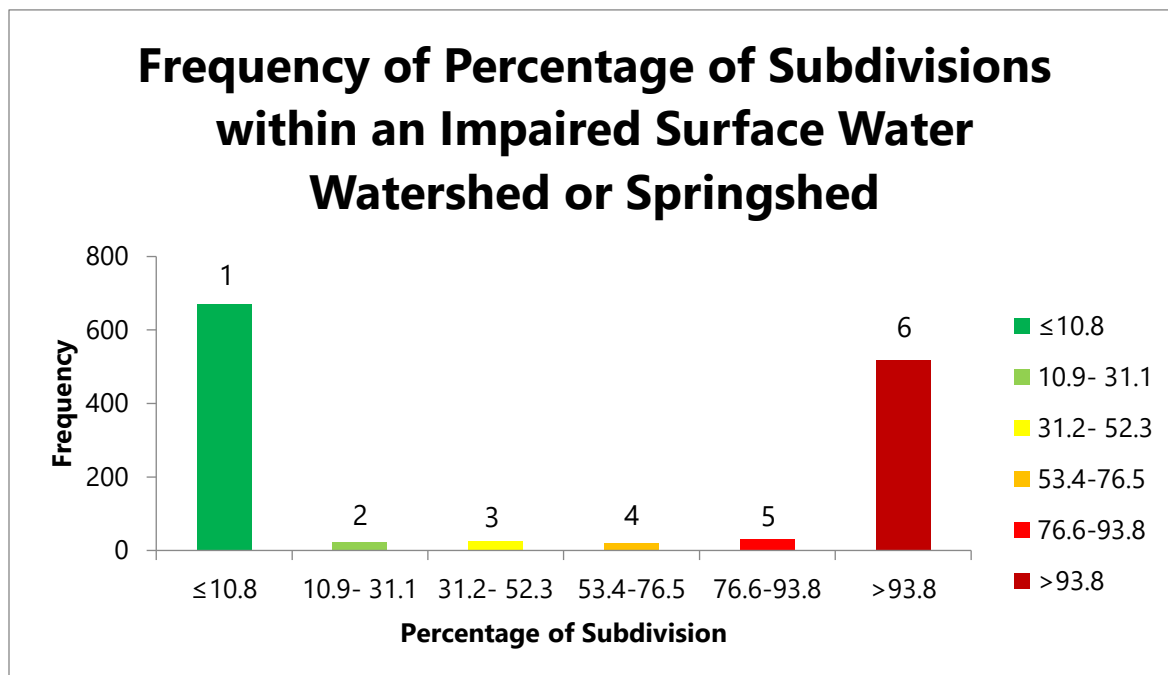


Figure 8. Frequency distribution of percentage of subdivision, of greater than 50 percent septic, within an impaired watershed, in Orange County, Florida.



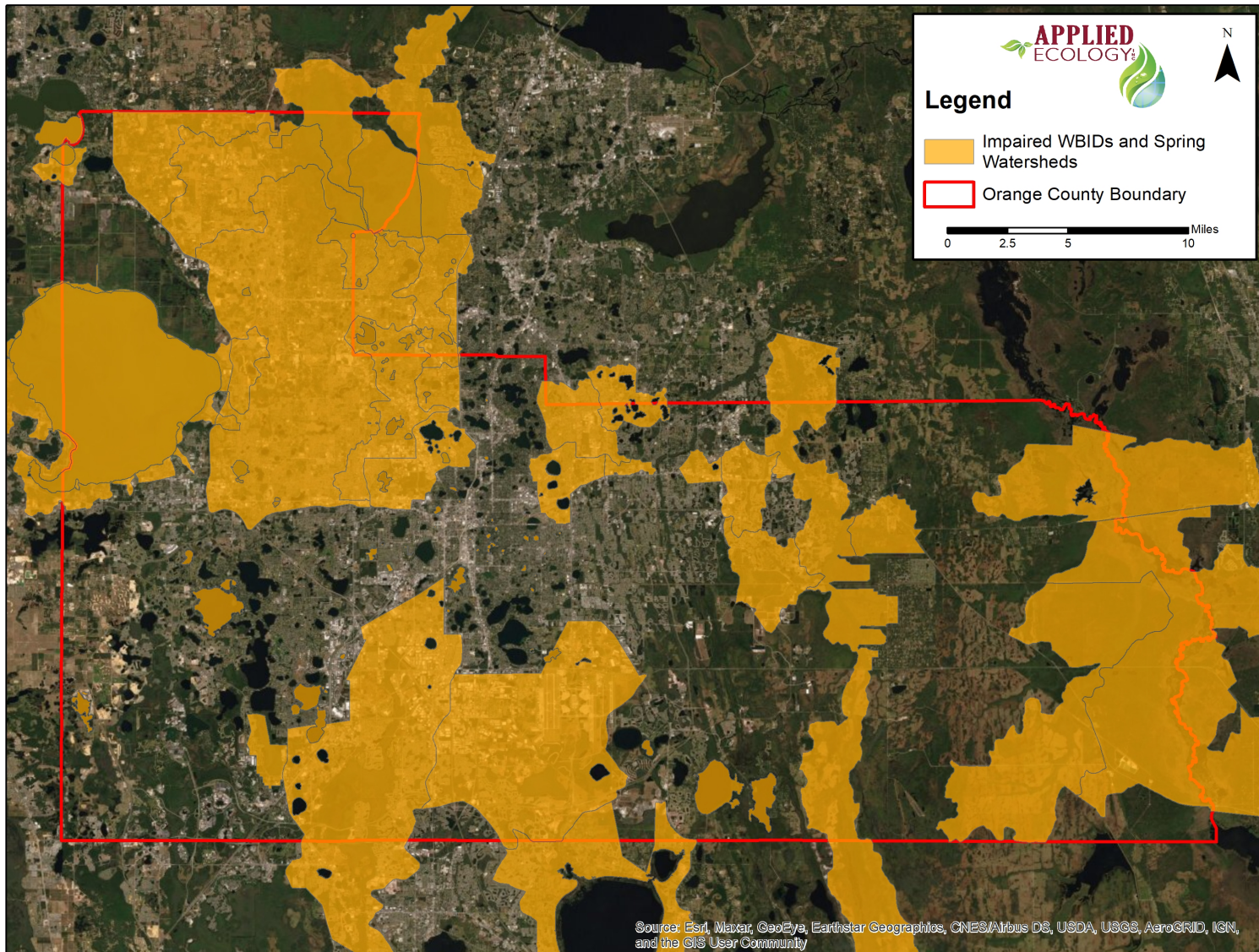


Figure 9. Impaired WBIDs and spring sheds within Orange County, Florida.



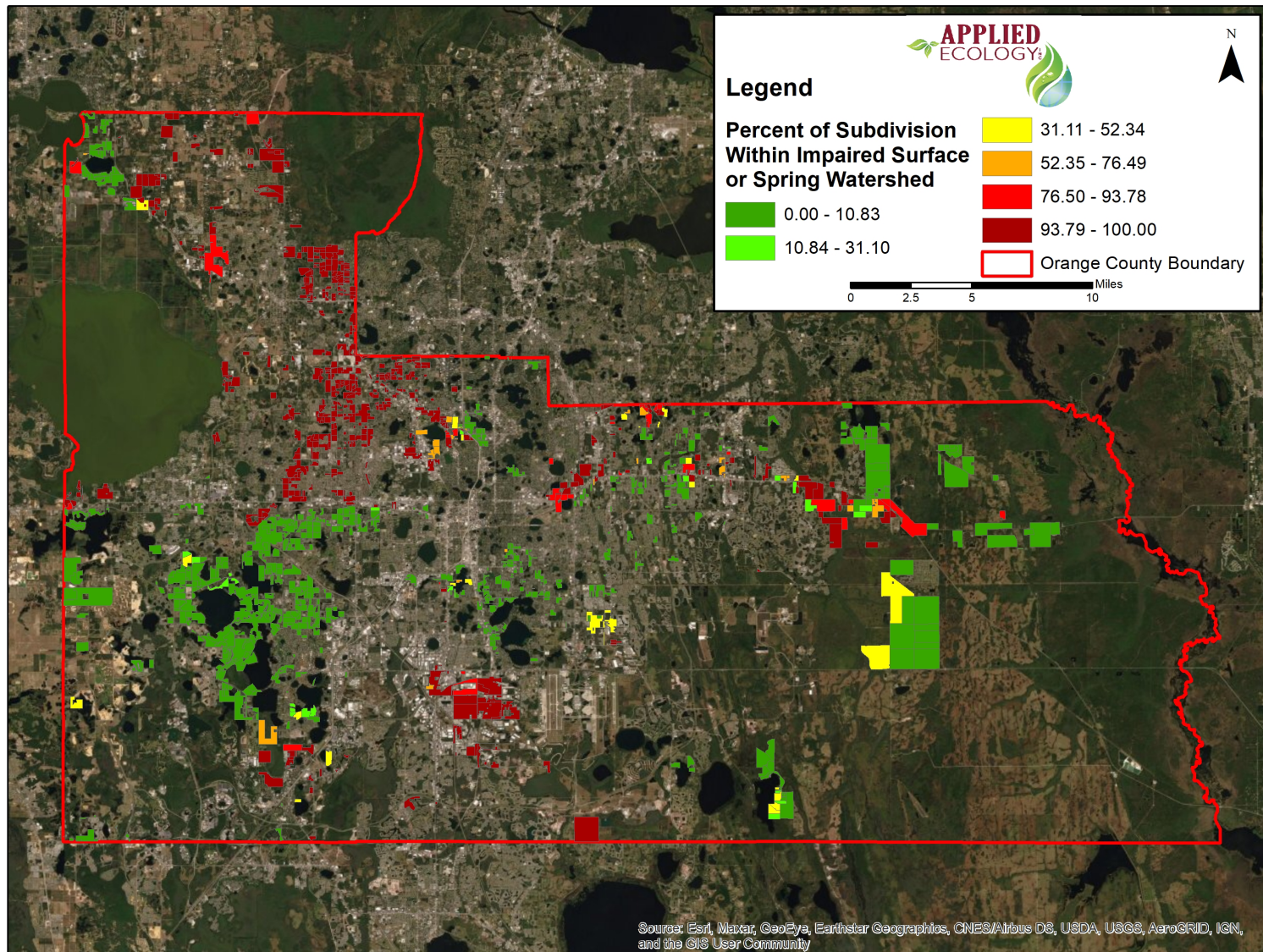


Figure 10. Percentage of subdivisions, of greater than 50 percent septic, within an impaired surface or spring watershed, in Orange County, Florida.

## CENSUS DATA

Demographic data in this report were provided by the United States Census Bureau's 2010 Redistricting Data. The shapefile utilized in this report was received directly from data provided by Orange County to Applied Ecology. Geographic population and housing density data were also obtained from the Socioeconomic Data and Applications Center (SEDAC) and Spatial Analysis for Conservation and Sustainability SILVIS Lab raster data. These data were clipped to the Orange County boundary and used for spatial growth potential analysis. Key demographic factors selected were future housing density (2020-2050), 2010 census block population density, and 2000-2020 change in population density. More recent census data (2020) is currently only available for block group data (with non-randomized information, <https://www.ncsl.org/research/redistricting/differential-privacy-for-census-data-explained.aspx>) and was therefore not used for this analysis.

As some of the subdivisions spanned two or more census blocks or block groups, a weighted apportionment process was developed. This approach utilized the number of housing units identified in the American Community Survey (ACS) and then how many residential parcels were identified in the subdivision. The ACS housing units are divided by density type from single housing unit structures to 50+ housing unit structures. These values were compared against the identified multiunit residential parcels in each subdivision and corresponding census block group to determine their relative contribution. To obtain the 2010 population density information for each subdivision, a population density was calculated for each census block, by dividing the total population by the acres of census block. Then using ESRI automated tools, a spatial calculation was performed to determine the average population density for each subdivision. Percent weights of demographic data were generated by determining the percent of a census block group's housing units were in each subdivision. Demographic data frequency breakdowns are provided to show how the data are distributed in subdivisions with 50 percent or greater septic within Orange County, Florida (Figure 11 - Figure 13). Maps show the geographic distribution of the demographic variables included in this pollution potential analysis for Orange County, Florida (Figure 14 - Figure 16). Raw population values for both population density in 2010 and population density change from 2000-2020 are in Appendix A.

The 2019 socioeconomic data from the U.S. Census Bureau were included as a reference for Orange County. The data were evaluated at the census block group level for the following socioeconomic factors: number/percentage of households below poverty, number/percentage households on public assistance, and median household income. This data is presented in the Socioeconomics section of the report and was not used in the vulnerability assessment schemes but used as a visual reference. The median household income data were used directly from the U.S. Census Bureau, while both the households below poverty and on public assistance were calculated as the percent of households within the census block groups.

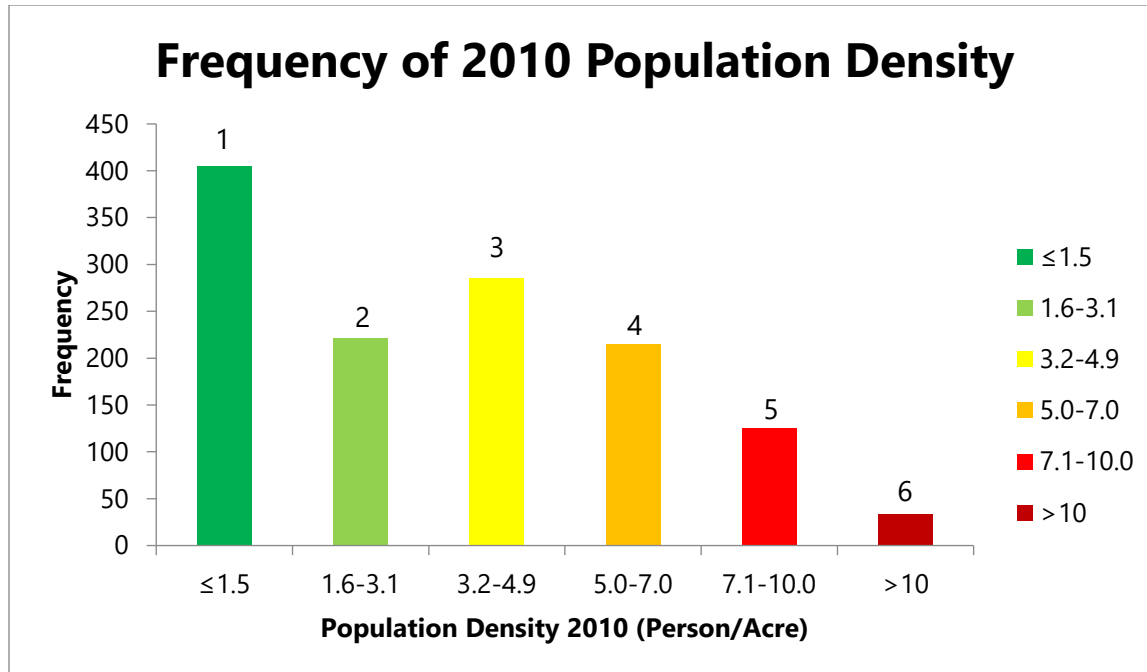


Figure 11. Frequency distribution of 2010 population density, within subdivisions containing at least 50 percent septic within Orange County, Florida.

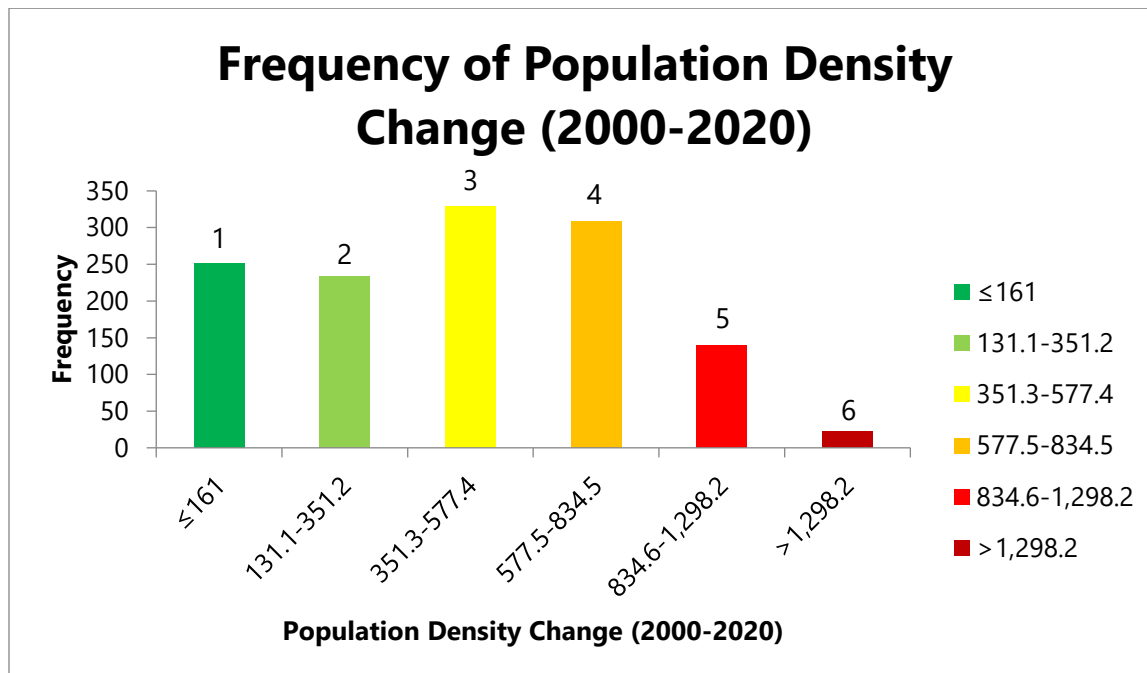


Figure 12. Frequency distribution of the change in population density from 2000-2020, within subdivisions containing at least 50 percent septic within Orange County, Florida.

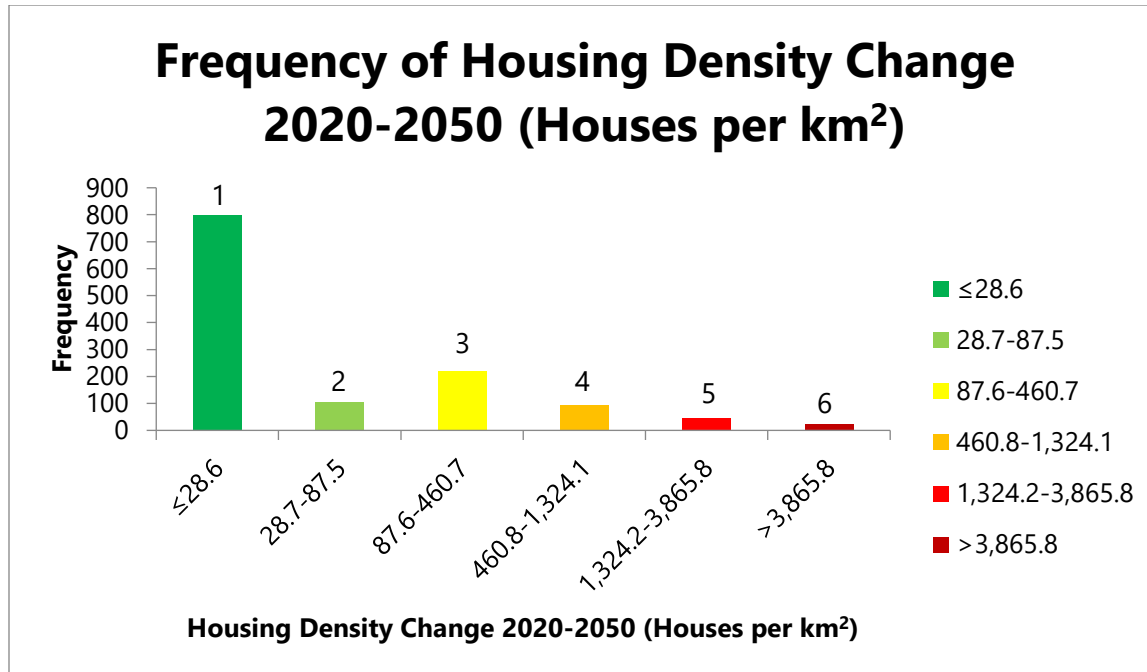


Figure 13. Frequency distribution of the potential change in housing density from 2020-2050, within subdivisions containing at least 50 percent septic within Orange County, Florida.



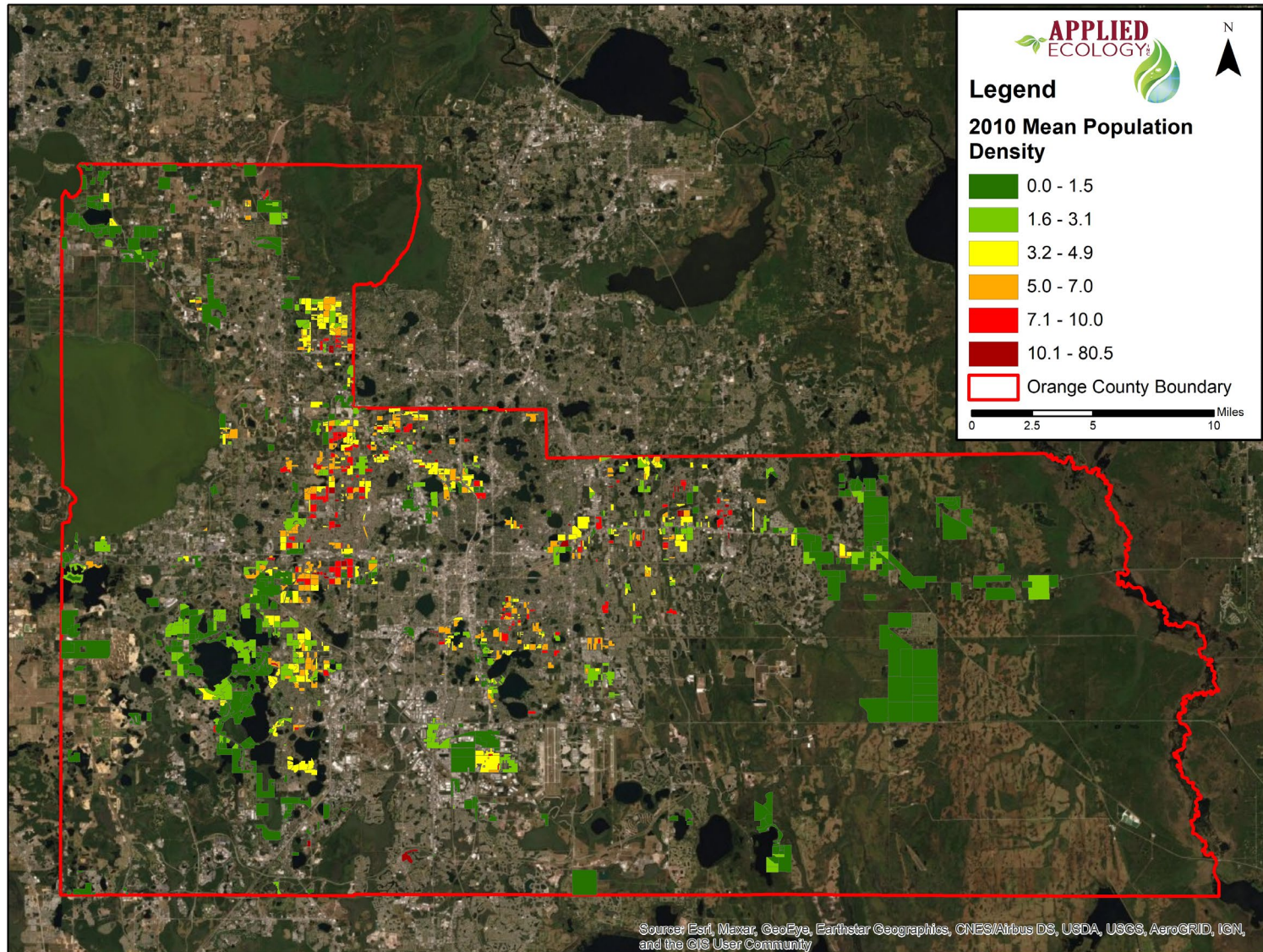


Figure 14. 2010 mean population density, person per acre within a subdivision greater than 50% septic, Orange County, Florida. Data source U.S. census bureau.



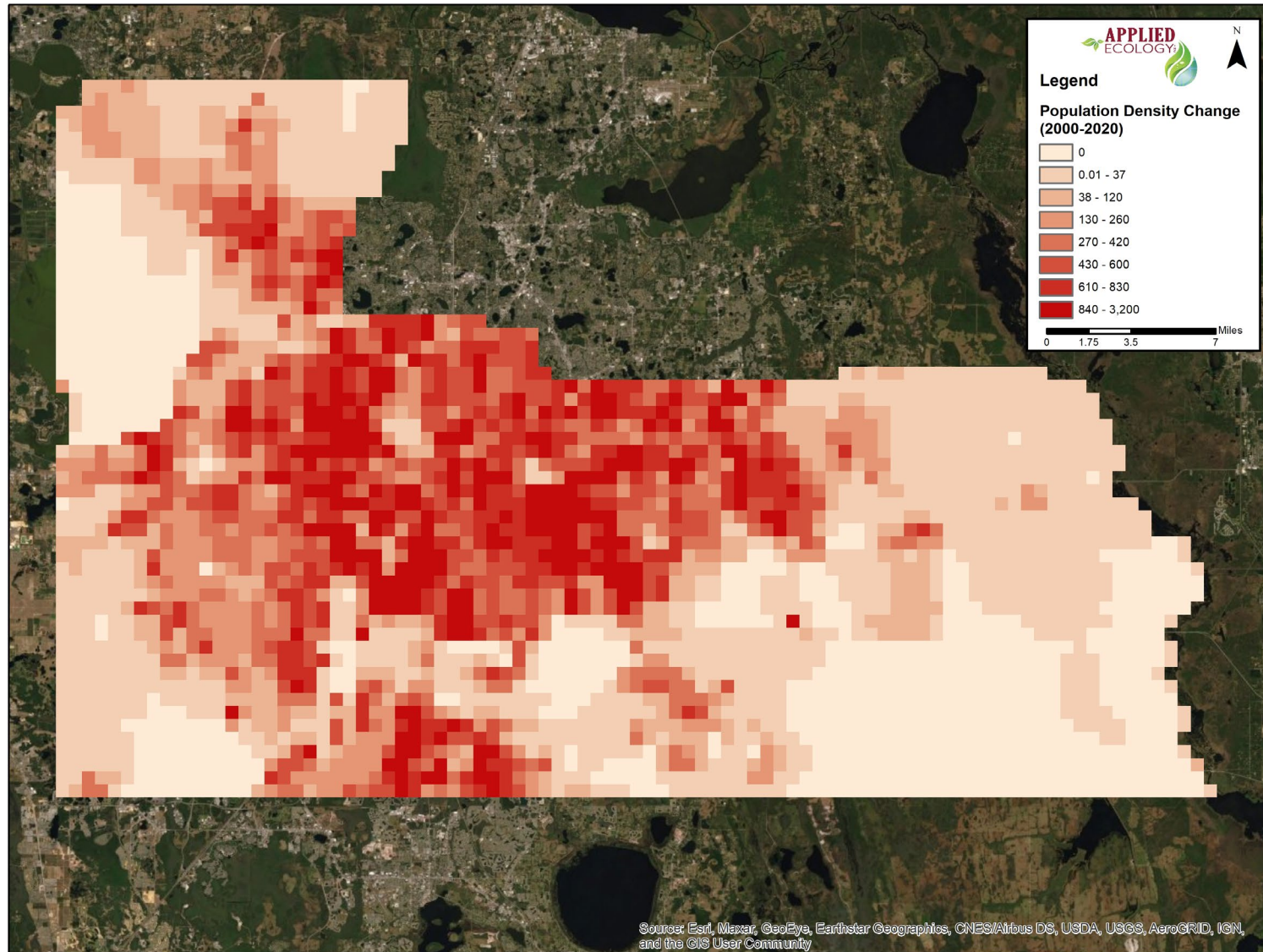


Figure 15. Population density change from 2000 to 2020, Orange County, Florida. Data source SEDAC.6.

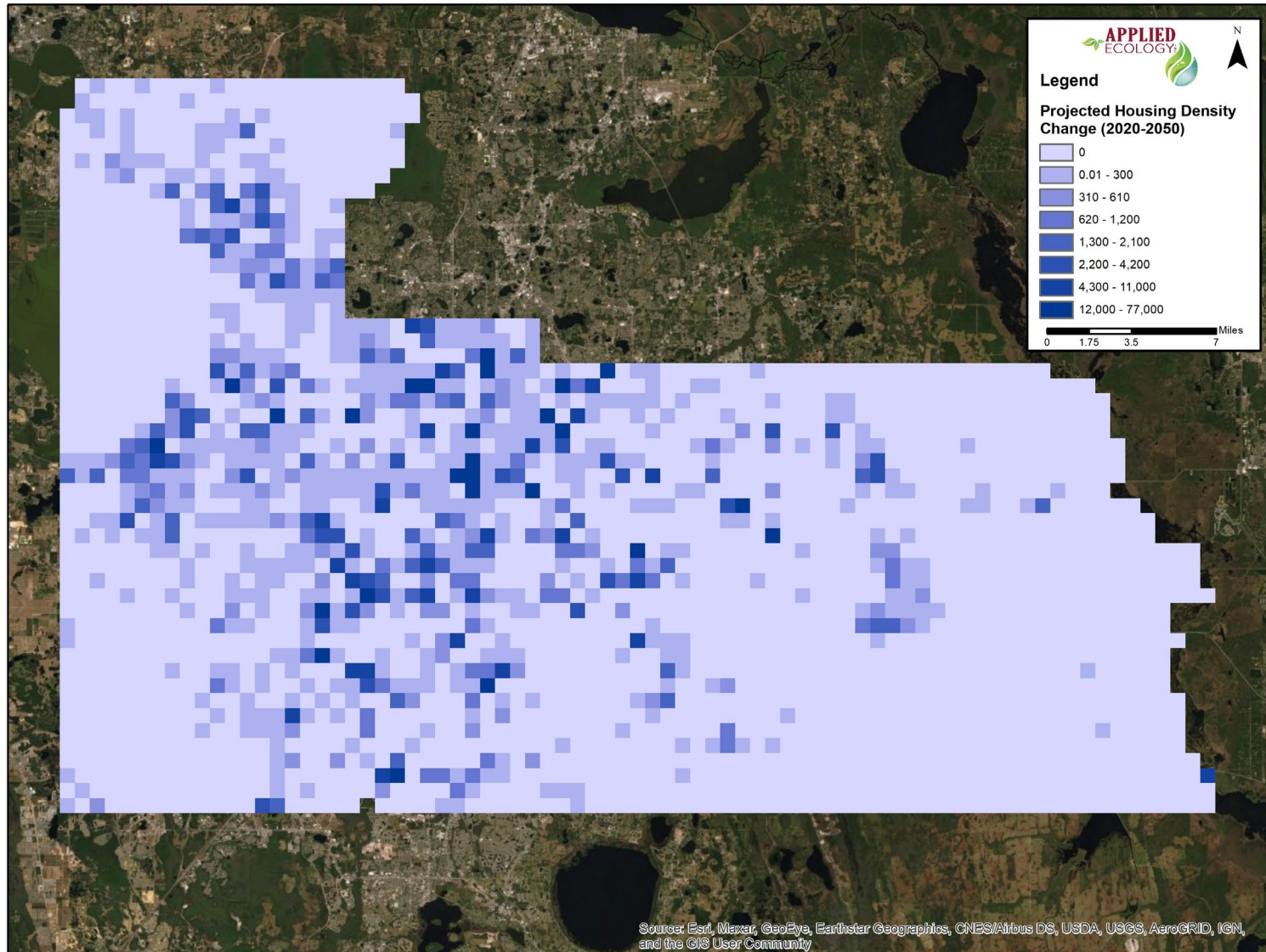
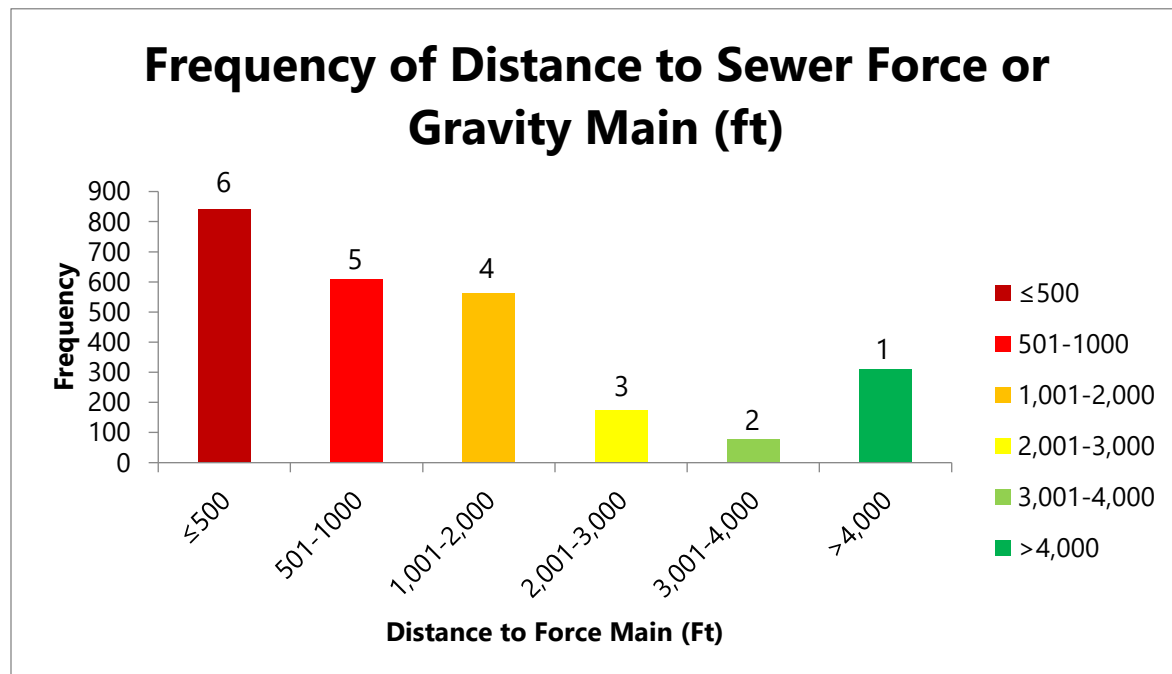


Figure 16. Projected housing density change from 2020 to 2050, Orange County, Florida. Data source SILVUS.

## DISTANCES TO EXISTING SEWER INFRASTRUCTURE

Subdivisions that are nearby existing sewer infrastructure, such as sewer force and gravity main lines, were prioritized to increase subdivision prioritization of subdivisions who are closer to existing infrastructure. Engineering feasibility was not considered for this report, only proximity to existing sewer infrastructure was factored into the ranking. Six prioritization classes were determined for distances to force and gravity mains, then the minimum classification was used to prioritize subdivisions. Subdivisions with the closest mean distances of less than or equal to 500 ft were given the highest priority, where the lowest priority were given to subdivisions with mean distances of greater than 4,000 ft from both the sewer force and gravity mains. The frequency distribution of distances to existing sewer infrastructure such as sewer force main and sewer gravity main is provided in Figure 17



**Figure 17. Frequency distribution of distance to sewer force main (ft), for subdivisions containing at least 50 percent septic, within Orange County, Florida.**



## SUBDIVISION AGE

Older subdivisions have greater polluting potential based on the age of the infrastructure and the length of time that wastewater has been discharged. Other studies and research include the age of subdivisions as a predictor of pollution potential from subdivisions into local waterbodies (Badruzzman, Pinzon, Oppenheimer, & Jacangelo, 2012; Armstrong, 2015; Keene, 2015; Briggs *et al.*, 2007). Changes have occurred in regulatory requirements regarding OSTDS, which likely have impacted the contribution of each OSTDS to nutrient pollution of the groundwater or surface systems over time. Prior to 1962, no specific Florida Statute regulated conditions to siting septic tanks which might greatly increase the potential of poorly functioning drainfields. The first regulatory requirement of separation between bottom of drainfield and groundwater water table (12") was implemented in 1962. In 1983, the regulatory requirement was changed to be more conservative and require a 24" distance between the bottom of drainfield and the water table, which should have reduced the pollution potential of the OSTDS even further. In addition, newer OSTDS have improved technology and are more likely to be properly functioning in comparison to older systems. Figure 18 provides the frequency of subdivisions using mean year built for the subdivision, with break points in 1962 and 1983 due to increasing regulatory requirements in those years and Figure 19 provides the spatial distribution of subdivision mean year built. Subdivisions with a mean year built earlier than 1962 were prioritized with the highest score, with progressively newer subdivisions receiving lower scores.

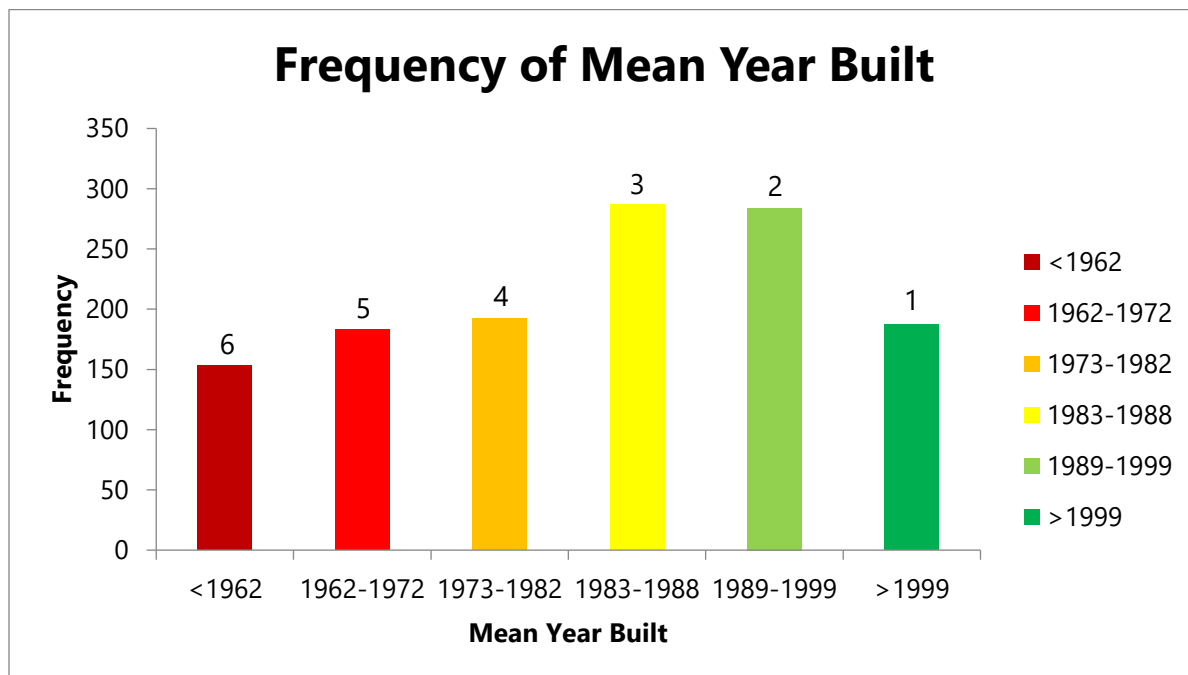


Figure 18. Frequency distribution of mean year built in subdivisions comprised of greater than 50 percent septic within Orange County, Florida.

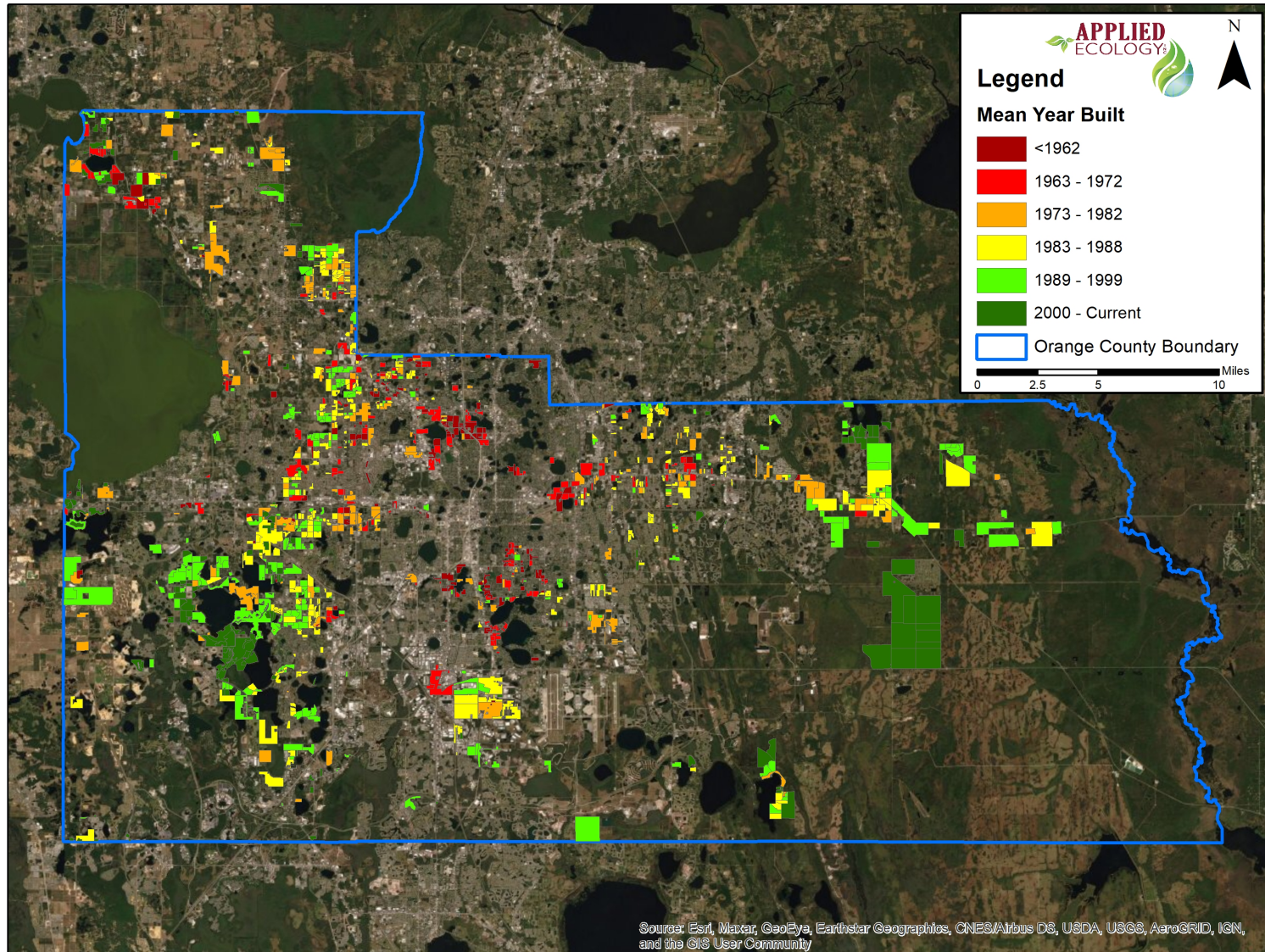


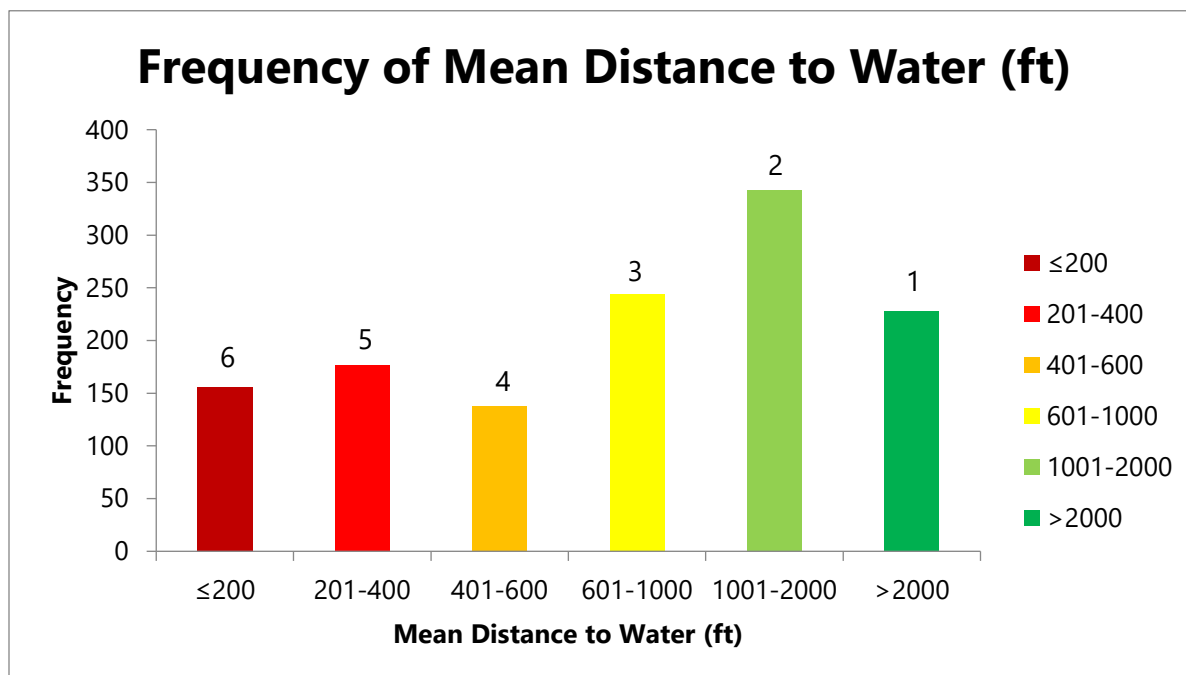
Figure 19. Mean year built for subdivisions with at least 50 percent septic within Orange County, Florida.



## WATERBODIES

Distance to waterbodies, is a very important predictor of loading potential to the waterbody of concern (Keene, 2015; Briggs *et al.*, 2007). Most groundwater transport models (ArcNLET, STUMOD, etc.) take the distance from source loading to waterbody as a primary input variable to establish appropriate paths and estimated plumes (Rios, Wang, & Lee, 2011; Wang, Ye, Rios, & Lee, 2012; Ye & Sun, 2013; Ye, Sun, & Hallas, 2017).

Highest priority was assigned to the subdivisions closest to the waterbodies (Figure 20). Septic drain fields within 200 feet of a waterbody (essentially waterfront), have the greatest loading potential since the path from the septic location to the waterbody will limit the ability of the soils to reduce nutrients through absorption, nitrification, and denitrification processes. The waterbodies used in this analysis were based on a shapefile received from Orange County and it does not include some minor waterbodies like swales or small canals. The mean distance from a subdivision to nearest waterbody could decrease if a more detailed exploration of waterbodies could be completed in the future.



**Figure 20. Frequency distribution of mean distance to waterbody in subdivisions comprised of greater than 50 percent septic within Orange County, Florida.**

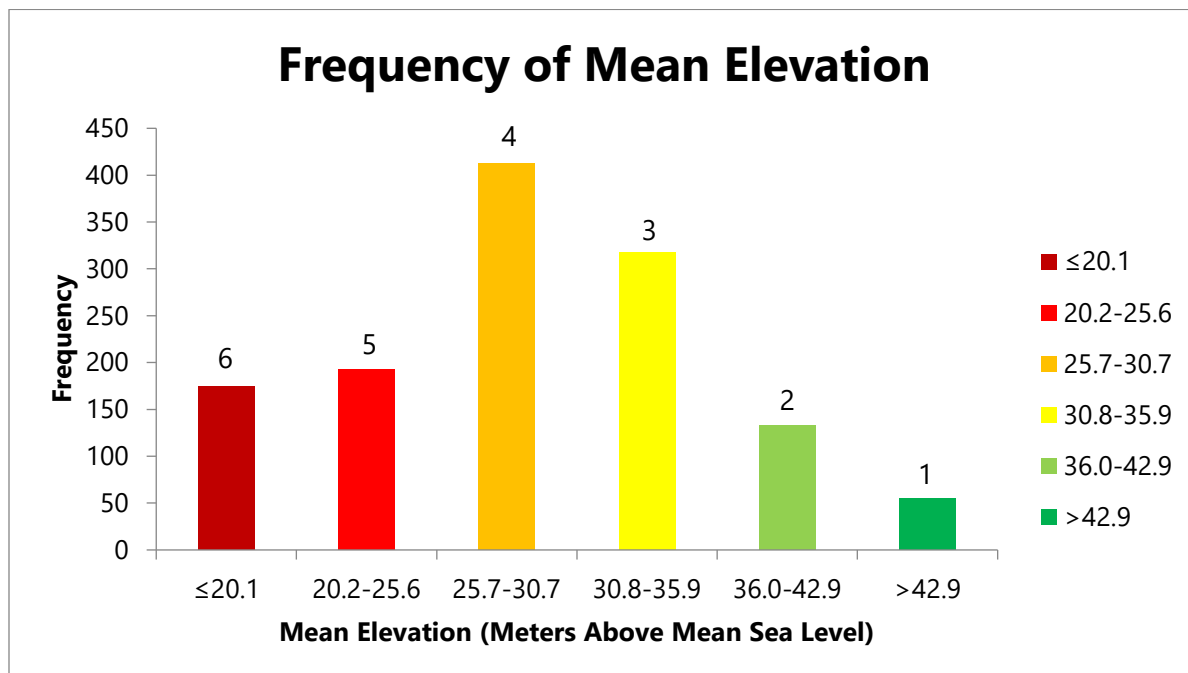
## MEAN ELEVATION

Mean elevation above mean sea level (MSL) is a good predictor of water table, with strong correlation coefficients (often above 0.8-0.9, Rios *et al.* 2011). Often, depth to groundwater is not available at a landscape scale and topography is used as a subdued replica of the water table (Rios *et al.*, 2011; Wang *et al.*, 2012). Chapter 64E-6 of the *Florida Administrative Code* for the Standards for Onsite Sewage

Treatment and Disposal Systems has a criterion specifically designating a minimum water table elevation that is used for site evaluation when installing an OSTDS (Florida Administrative Code, 2018). The highest-ranking score was assigned to subdivisions located at lower elevation within Orange County, specifically less than 20.1 meters above mean sea level. Hydraulic head tends to be low when elevation above mean sea level is low, providing a proxy method of measuring mean groundwater levels. Subdivisions with septic drainfields located where groundwater levels are high, have the greatest polluting potential because there is insufficient time for denitrification processes to take place. Subdivisions with drainfields well above the water table allow sufficient time for effluent attenuation. The elevation above mean sea level data were obtained from Lidar mapping.

While typically elevation above mean sea level and depth to water table are highly correlated, there are exceptions to this, particularly in area with perched aquifers, former alluvial plains, and those dominated by manmade features (e.g. sand and gravel pits). In addition, since the source of the elevation data was Digital Elevation Models from airborne LiDAR datasets, drainfields located in shallower water tables were prioritized for their likely higher pollution potential to the groundwater (Figure 22). Both most commonly used OSTDS transport models (ArcNLET and STUMOD) use directly or indirectly (by estimating water table from a smoother DEM) depth to water table to predict plumes generated from septic tanks. Several other studies examining groundwater nutrient transport also consider the importance of water table depth in model predictions (Briggs *et al.*, 2007; Keene, 2015).

Subdivisions with mean elevation above sea level of 20.1 meter were prioritized into the highest classification, where subdivisions with mean elevation above 42.9 meters were placed into the lowest classification (Figure 21).



**Figure 21. Frequency distribution of mean elevation (ft) within subdivisions containing at least 50 percent septic within Orange County, Florida.**

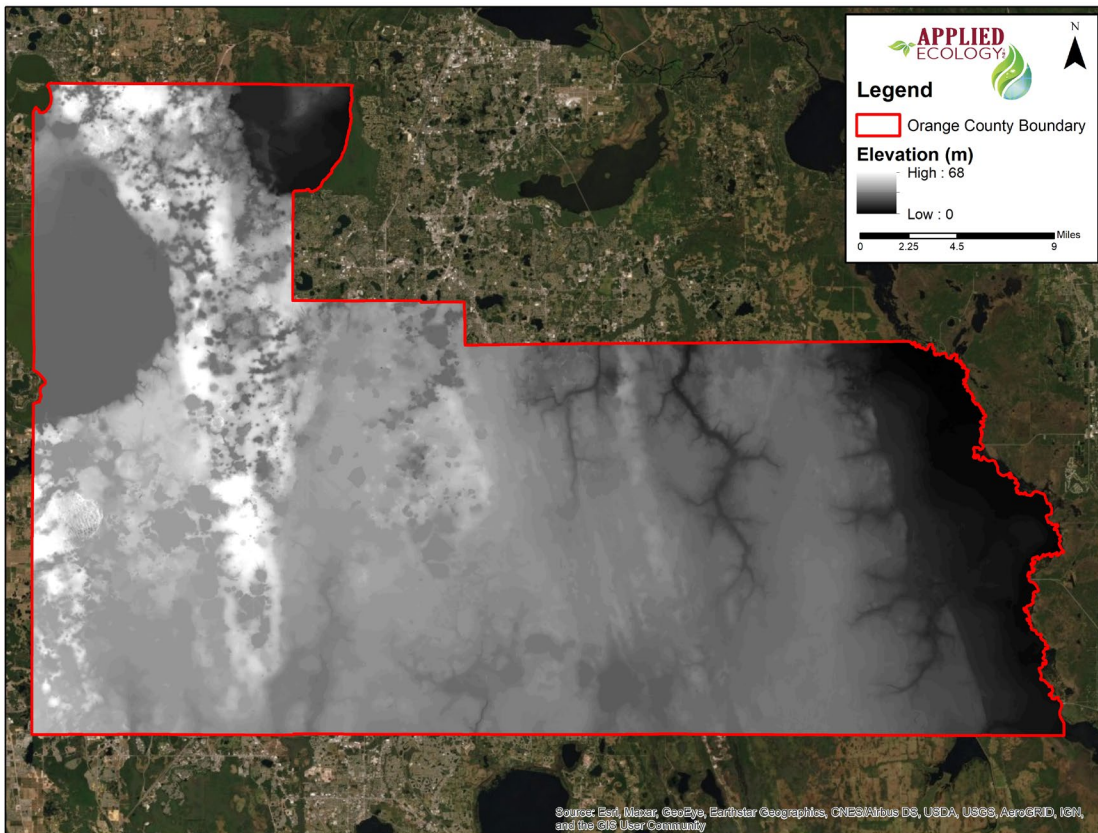


Figure 22. Elevation derived from Lidar Digital Elevation Model for subdivisions within Orange County, Florida.

## FINAL POLLUTION POTENTIAL RANKING RESULTS

Two prioritization schemes of vulnerability pollution potential were developed to prioritize subdivisions that are greater than 50% septic within Orange County, FL. The variables included, in the vulnerability schemes, are the following: septic density (number divided by total area), mean year built, percent subdivision in impaired surface or spring watershed, mean distance to water, mean surface elevation, mean OCAVA class, housing density (predicted change 2020-2050), population density (change 2000-2020). A third prioritization scheme was developed that included all the above parameters and an additional parameter of minimum distance to existing sewer infrastructure gravity or force main. This third scheme would help prioritize high pollution potential subdivisions for potential retrofit (connection to central sewer infrastructure).

Each individual variable was ranked from 1-6 (lowest to highest pollution potential), based on the previously provided data distribution (See Individual Parameter Ranking Section). A summary of the ranks by individual parameter are included in Table 4.

Table 4. Break points for all parameters used for schemes within subdivisions dominated by OSTDS ( $\geq 50\%$  septic parcels) within Orange County, Florida.

Score Value	Septic Density (#/Acres)	Mean OCAVA	% Subdivisions in Impaired Surface or Spring Watershed	Housing Density Change 2020-2050 (Houses per km <sup>2</sup> )	Population Density 2010	Population Density 2000-2020	Distance to Sewer Force Main (ft)	Distance to Sewer Gravity Main (ft)	Mean Year Built	Mean Distance to Water (ft)	Mean Surface Elevation (mABSL)
1	$\leq 0.59$	0.00-1.00	$\leq 10.8$	$\leq 28.6$	$\leq 1.5$	$\leq 161$	$>4,000$	$>4,000$	$>1999$	$>2,000$	$>42.9$
2	0.60-1.40	1.01-2.00	10.9-31.1	28.7-87.5	1.6-3.1	131.1-351.2	3,001-4,000	3,001-4,000	1989-1999	1,001-2,000	36.0-42.9
3	1.41-2.43	2.01-3.00	31.2-52.3	87.6-460.7	3.2-4.9	351.3-577.4	2,001-3,000	2,001-3,000	1983-1988	601-1,000	30.8-35.9
4	2.44-3.77	3.01-4.00	52.4-76.5	460.8-1,324.1	5.0-7.0	577.5-834.5	1,001-2,000	1,001-2,000	1973-1982	401-600	25.7-30.7
5	3.78-5.98	4.01-5.00	76.6-93.8	1,324.2-3,865.8	7.1-10	834.6-1,298.2	501-1,000	501-1,000	1962-1972	201-400	20.2-25.6
6	$>5.98$	5.01-6.00	$<93.8$	$>3,865.8$	$>10$	$>1,298.2$	$\leq 500$	$\leq 500$	$<1962$	$\leq 200$	$\leq 20.1$

Each individual parameter rank is aggregated, using one of three methods. The first scheme (Unweighted Vulnerability Scheme) uses equal weighting of all relevant variables, which corresponds simply to the mean of the individual ranks. The second scheme (Weighted Vulnerability Scheme) is based on a weighted average that allows the adjustment of the importance of certain variables that are known to carry a large influence for contributing to pollution potential. The vulnerability schemes are summarized below in Table 5. The third scheme (Weighted Connectivity scheme) applies the same weighting values as the Weighted Vulnerability Scheme, but includes distance to existing sewer infrastructure, with a factor of 2 (Table 6). For weighted schemes, variables that were found to be critical drivers of vulnerability from previous modeling efforts were provided weight with a factor of 2, while variables associated with greater uncertainty, correlated with other variables, or in mitigation planning stage received a weight of 0.5. For example, the weighted schemes increase the importance of communities in impaired surface and spring watersheds, while reducing the weight of the future housing density (a predictive variable associated with larger uncertainty).

**Table 5. Variable weights used in final vulnerability schemes (unweighted and weighted) for Orange County, Florida.**

Variable Name	Unweighted Vulnerability Scheme	Weighted Vulnerability Scheme
Septic Density (#/acre)	1	2
OCAVA Vulnerability Classes	1	2
Percent Subdivision in Impaired Surface Watershed or Spring shed	1	2
Housing Density Change (2020-2050)	1	0.5
Population Density Change	1	1
Mean Year Built	1	1
Mean Distance to Water (m)	1	2
Mean Surface Elevation (ft)	1	1

*\*Variables with higher ranking value are known to be influential factors contributing to pollution potential, therefore carry more influence in the weighted ranking.*

**Table 6. Variable weights used in final weighted connectivity scheme for Orange County, Florida.**

Variable Name	Weighted Connectivity Scheme
Septic Density (#/acre)	2
OCAVA Vulnerability Classes	2
Percent Subdivision in Impaired Surface Watershed or Spring shed	2
Housing Density Change (2020-2050)	0.5
Population Density Change	1
Distance to Existing Sewer Infrastructure	2
Mean Year Built	1
Mean Distance to Water (m)	2
Mean Surface Elevation (ft)	1



The individual variables received values representing their contribution to pollution potential and these variables were converted to overall mean and weighted ranks and a color coding (Figure 23) was utilized ranging from a cool color representing 1 (low pollution potential) to a warm color representing 6 (highest pollution potential).

**Figure 23. Pollution potential color ranking scale for Orange County, Florida. Coolest color representing rank 1 (low pollution potential) to hottest color rank 6 (highest pollution potential).**

Pollution Potential Rank	Assigned Color
1	Green
2	Light Green
3	Yellow
4	Orange
5	Red
6	Dark Red

Table 7, Table 8, and Table 9 show the values greater than 4.25 for the unweighted vulnerability, weighted vulnerability, and weighted connectivity schemes, respectively for all subdivisions with greater than 50% septic within Orange County. For the vulnerability schemes, there were several subdivisions that ranked high. The Semoran Club Condo, Piedmont Estates, and Long Lake Villas Phase 1B subdivisions all ranked within the first five highest ranking subdivisions for the Vulnerability Schemes. The higher the value the higher the potential for nutrient pollution of the subdivision.

The weighted connectivity scheme weighs all the individual parameters the same as the weighted vulnerability scheme, but it includes minimum distance to sewer main line (force and gravity), with a factor of 2. As for the weighted connectivity scheme, the three subdivisions above are also listed as priorities, with Piedmont Estates and Semoran Club Condo ranking in the top three subdivisions, and Long Lake Villas Phase 1B ranking in seventh place among hundreds of subdivisions. Both the Lake Florence Highlands Phase 1 subdivision and the JLM Condo ranked high in the weighted schemes but were not as highly ranked in the unweighted scheme.

A complete ranked listing of subdivisions dominated by septic parcels in Orange County can be found in Appendix B, whereas the complete list of subdivisions with raw parameter values are included in Appendix A. Appendix B has 1286 subdivisions containing the raw variable scores as a reference.

The highest-ranking areas for all three schemes are located generally in the north-central part of Orange County (Figure 24 - Figure 26). The lowest priority ranking scores are geographically distributed in the eastern rural portions of Orange County. The subdivisions with the lower scheme values should have a lower pollution potential than those subdivisions having higher values for the vulnerability schemes.

Table 7. Variable and overall Unweighted Vulnerability Scheme for Orange County subdivisions with scores greater than 4.25.

Subdivision Name	Septic Density Score	OCAVA Score	% Impaired WB Score	Housing Density Score	Pop. Density Score	Mean Year Built Score	Mean Distance to WB Score	Mean Elevation Score	Unweighted Vulnerability Scheme
Semoran Club Condo	6.00	3.00	6.00	6.00	5.50	4.00	3.00	4.00	4.69
Piedmont Estates	1.00	6.00	6.00	5.00	5.00	5.00	6.00	3.00	4.63
Ranchette	4.00	3.00	6.00	5.00	4.00	6.00	3.00	5.00	4.50
Riverside Acres	4.00	3.00	6.00	6.00	4.00	6.00	2.00	5.00	4.50
Long Lake Villas Ph 1B	6.00	4.11	6.00	3.00	5.50	2.00	5.00	4.00	4.45
Wells Gap	2.00	3.00	6.00	4.00	2.50	6.00	6.00	6.00	4.44
Rimar Ridge	4.00	3.00	6.00	5.00	3.50	6.00	3.00	5.00	4.44
Eden Park Estates	5.00	3.00	6.00	3.00	3.50	5.00	5.00	5.00	4.44
Monroe Manor	4.00	3.00	6.00	6.00	4.50	5.00	3.00	4.00	4.44
Holiday Heights	4.00	3.00	6.00	6.00	3.50	5.00	3.00	5.00	4.44
Lake Barton Park	3.00	3.00	6.00	3.00	5.00	6.00	5.00	4.00	4.38
Little Lake Park	3.00	3.47	6.00	5.00	2.50	4.00	6.00	5.00	4.37
Meadowbrook Annex 2nd Add	4.00	3.00	6.00	3.00	4.50	6.00	3.00	5.00	4.31
Riverside Acres 1st Add	3.00	3.00	6.00	6.00	3.50	6.00	2.00	5.00	4.31
Wekiwa Manor Sec 2	5.00	3.00	6.00	4.00	5.50	5.00	3.00	3.00	4.31
Suburban Homes	3.00	3.00	6.00	6.00	2.50	6.00	3.00	5.00	4.31
Troynelle By Big Lake Apopka	3.00	4.61	6.00	3.00	2.50	6.00	5.00	4.00	4.26
Rio Grande Terrace 3rd Add	5.00	3.00	5.00	4.00	6.00	5.00	2.00	4.00	4.25
Lake Cortez Woods	3.00	4.46	6.00	5.00	3.50	3.00	5.00	4.00	4.25

\*Subdivisions with lower mean scores can be found ranked in Appendix B. Higher values indicate greater potential for contributing nutrient pollution to nearby waterbodies.

Table 8. Variable and overall Weighted Vulnerability Scheme for Orange County subdivisions with scores greater than 4.25.

Subdivision Name	Septic Density Score	OCAVA Score	% Impaired WB Score	Housing Density Score	Pop. Density Score	Mean Year Built Score	Mean Distance to WB Score	Mean Elevation Score	Weighted Vulnerability Scheme
Long Lake Villas Ph 1B	6.00	4.11	6.00	3.00	5.50	2.00	5.00	4.00	4.69
Piedmont Estates	1.00	6.00	6.00	5.00	5.00	5.00	6.00	3.00	4.65
Lake Florence Highlands Ph 1	4.00	5.28	6.00	1.00	4.50	3.00	6.00	4.00	4.59
Eden Park Estates	5.00	3.00	6.00	3.00	3.50	5.00	5.00	5.00	4.59
Semoran Club Condo	6.00	3.00	6.00	6.00	5.50	4.00	3.00	4.00	4.59
J L M Condo	6.00	3.00	6.00	1.00	4.50	3.00	6.00	4.00	4.54
Little Lake Park	3.00	3.47	6.00	5.00	2.50	4.00	6.00	5.00	4.54
Parc Corniche Condo Ph 1	6.00	3.00	6.00	3.00	2.00	2.00	6.00	4.00	4.52
Troynelle By Big Lake Apopka	3.00	4.61	6.00	3.00	2.50	6.00	5.00	4.00	4.48
Wells Gap	2.00	3.00	6.00	4.00	2.50	6.00	6.00	6.00	4.46
Lake Cortez Woods	3.00	4.46	6.00	5.00	3.50	3.00	5.00	4.00	4.41
Little Lake Georgia Terrace	3.00	3.60	6.00	1.00	4.00	4.00	6.00	6.00	4.37
Ranchette	4.00	3.00	6.00	5.00	4.00	6.00	3.00	5.00	4.35
Parc Corniche Condo Ph 2	6.00	3.00	6.00	3.00	2.00	2.00	5.00	4.00	4.35
Rimar Ridge	4.00	3.00	6.00	5.00	3.50	6.00	3.00	5.00	4.33
University Garden	4.00	3.00	6.00	1.00	5.50	3.00	6.00	5.00	4.33
Holiday Heights	4.00	3.00	6.00	6.00	3.50	5.00	3.00	5.00	4.33
Pennsy Park	3.00	6.00	6.00	1.00	1.50	5.00	5.00	3.00	4.33
Millers Sub (Lockhart)	4.00	6.00	6.00	3.00	3.00	5.00	2.00	4.00	4.30
Lake Barton Park	3.00	3.00	6.00	3.00	5.00	6.00	5.00	4.00	4.30
Callum Mac Sub	1.00	6.00	5.00	3.00	2.50	5.00	6.00	4.00	4.28
Enclave At Oxford Place Condo	6.00	3.00	6.00	1.00	4.50	1.00	5.00	5.00	4.28
Monroe Manor	4.00	3.00	6.00	6.00	4.50	5.00	3.00	4.00	4.28
Lake Florence Estates	4.00	5.56	6.00	1.00	4.00	3.00	4.00	4.00	4.27
Lake Gandy Shores	3.00	3.00	6.00	3.00	4.00	3.00	6.00	5.00	4.26
Riverside Acres	4.00	3.00	6.00	6.00	4.00	6.00	2.00	5.00	4.26
Shady Oak Cove	4.00	3.00	6.00	3.00	4.00	3.00	6.00	3.00	4.26
Huntley Park	5.00	5.47	6.00	3.00	4.00	3.00	2.00	4.00	4.26

\*Subdivisions with lower mean scores can be found ranked in Appendix B. Higher values indicate greater potential for contributing nutrient pollution to nearby waterbodies.

Table 9. Variable and overall Weighted Connectivity Scheme for Orange County subdivisions with scores greater than 4.25.

Subdivision Name	Septic Density Score	OCAVA Score	% Impaired WB Score	Housing Density Score	Pop. Density Score	WW Infra. Score	Mean Year Built Score	Mean Distance to WB Score	Mean Elevation Score	Unweighted Connectivity Scheme
Piedmont Estates	1.00	6.00	6.00	5.00	5.00	6.00	5.00	6.00	3.00	4.85
Lake Florence Highlands Ph 1	4.00	5.28	6.00	1.00	4.50	6.00	3.00	6.00	4.00	4.80
Semoran Club Condo	6.00	3.00	6.00	6.00	5.50	6.00	4.00	3.00	4.00	4.80
J L M Condo	6.00	3.00	6.00	1.00	4.50	6.00	3.00	6.00	4.00	4.76
Eden Park Estates	5.00	3.00	6.00	3.00	3.50	5.00	5.00	5.00	5.00	4.65
Lake Cortez Woods	3.00	4.46	6.00	5.00	3.50	6.00	3.00	5.00	4.00	4.64
Little Lake Park	3.00	3.47	6.00	5.00	2.50	5.00	4.00	6.00	5.00	4.61
Long Lake Villas Ph 1B	6.00	4.11	6.00	3.00	5.50	4.00	2.00	5.00	4.00	4.59
University Garden	4.00	3.00	6.00	1.00	5.50	6.00	3.00	6.00	5.00	4.57
Pennsy Park	3.00	6.00	6.00	1.00	1.50	6.00	5.00	5.00	3.00	4.57
Lake Barton Park	3.00	3.00	6.00	3.00	5.00	6.00	6.00	5.00	4.00	4.56
Callum Mac Sub	1.00	6.00	5.00	3.00	2.50	6.00	5.00	6.00	4.00	4.54
Enclave At Oxford Place Condo	6.00	3.00	6.00	1.00	4.50	6.00	1.00	5.00	5.00	4.54
Meadowbrook Annex 2nd Add	4.00	3.00	6.00	3.00	4.50	6.00	6.00	3.00	5.00	4.46
Little Lake Georgia Terrace	3.00	3.60	6.00	1.00	4.00	5.00	4.00	6.00	6.00	4.46
Parc Corniche Condo Ph 1	6.00	3.00	6.00	3.00	2.00	4.00	2.00	6.00	4.00	4.44
Tuckaway Terrace	4.00	3.00	6.00	3.00	4.00	6.00	5.00	4.00	4.00	4.44
Rimar Ridge	4.00	3.00	6.00	5.00	3.50	5.00	6.00	3.00	5.00	4.43
Holiday Heights	4.00	3.00	6.00	6.00	3.50	5.00	5.00	3.00	5.00	4.43
Ponce De Leon	3.00	3.00	6.00	5.00	3.50	6.00	5.00	4.00	4.00	4.43
Wells Gap	2.00	3.00	6.00	4.00	2.50	4.00	6.00	6.00	6.00	4.39
Lake Gandy Shores	3.00	3.00	6.00	3.00	4.00	5.00	3.00	6.00	5.00	4.37
Alafaya Prof Park 2 Condo	5.00	3.00	6.00	4.00	2.00	6.00	1.00	4.00	5.00	4.37
Riverside Acres 1st Add	3.00	3.00	6.00	6.00	3.50	6.00	6.00	2.00	5.00	4.35
Riverside Acres 3rd Add	4.00	3.00	6.00	1.00	3.50	5.00	6.00	4.00	6.00	4.35
Wekiwa Manor Sec 2	5.00	3.00	6.00	4.00	5.50	5.00	5.00	3.00	3.00	4.35
Rose Hill Groves Ut No 1	4.00	5.13	6.00	1.00	4.50	6.00	2.00	4.00	3.00	4.33
Lake Gandy Estates	3.00	3.00	6.00	3.00	3.00	5.00	3.00	6.00	5.00	4.33
Trout Lake Camp	1.00	3.36	6.00	1.00	1.50	6.00	6.00	6.00	6.00	4.33
Riverside Park Estates	5.00	3.00	6.00	1.00	4.50	6.00	6.00	2.00	5.00	4.31
Lockhart Sub No 1	3.00	3.00	6.00	4.00	2.50	6.00	5.00	4.00	4.00	4.31

Subdivision Name	Septic Density Score	OCAVA Score	% Impaired WB Score	Housing Density Score	Pop. Density Score	WW Infra. Score	Mean Year Built Score	Mean Distance to WB Score	Mean Elevation Score	Unweighted Connectivity Scheme
McNeils Orange Villa	1.00	3.00	6.00	3.00	2.50	6.00	5.00	6.00	5.00	4.31
Suburban Homes	3.00	3.00	6.00	6.00	2.50	5.00	6.00	3.00	5.00	4.31
Ranchette	4.00	3.00	6.00	5.00	4.00	4.00	6.00	3.00	5.00	4.30
Parc Corniche Condo Ph 2	6.00	3.00	6.00	3.00	2.00	4.00	2.00	5.00	4.00	4.30
Aloma Business Ctr Condo	6.00	3.00	6.00	1.00	2.00	6.00	3.00	3.00	5.00	4.30
Sussex Place Ph 1	6.00	3.00	6.00	3.00	6.00	6.00	3.00	1.00	5.00	4.30
Citrus Oaks Ph 2	6.00	3.09	6.00	1.00	5.50	5.00	3.00	4.00	3.00	4.29
Meadowbrook Annex 1st Add	5.00	1.67	6.00	3.00	5.00	6.00	6.00	2.00	5.00	4.28
Wekiwa Manor Sec 3	4.00	3.06	6.00	1.00	5.00	6.00	5.00	4.00	3.00	4.27
University Forest	4.00	3.00	6.00	1.00	5.00	6.00	3.00	4.00	5.00	4.26
Waikiki Beach	1.00	5.60	6.00	1.00	2.50	6.00	5.00	5.00	3.00	4.26
Sweetaire Of Wekiva	4.00	5.15	6.00	3.00	4.00	6.00	3.00	2.00	3.00	4.25

\*Subdivisions with lower mean scores can be found ranked in Appendix A. Higher values indicate greater potential for contributing nutrient pollution to nearby waterbodies.



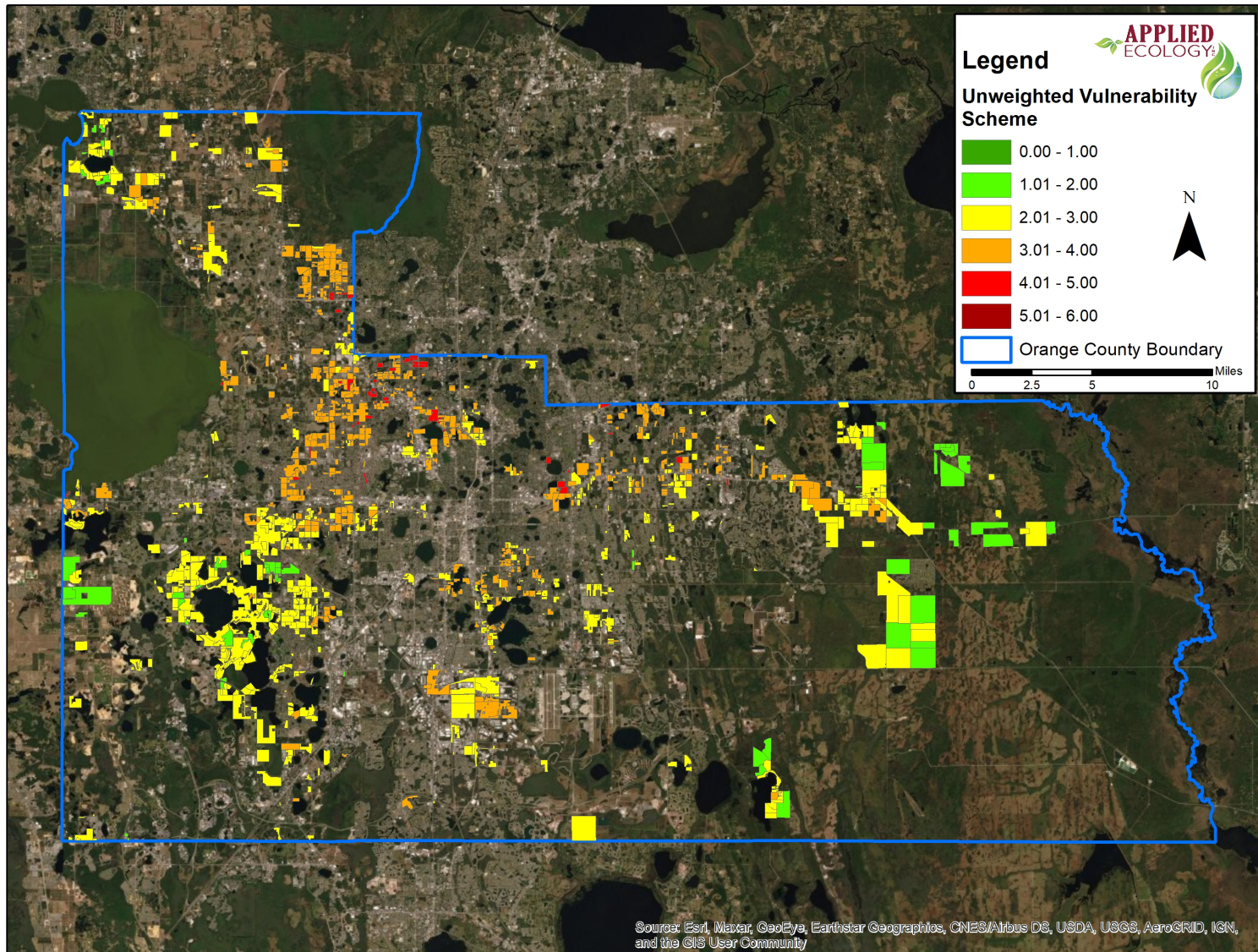


Figure 24. Unweighted Vulnerability Scheme by subdivision, Orange County, Florida. The unweighted vulnerability scheme values were generated by averaging the scores for each individual parameter for each subdivision. Higher values indicate higher potential for pollutant loading.



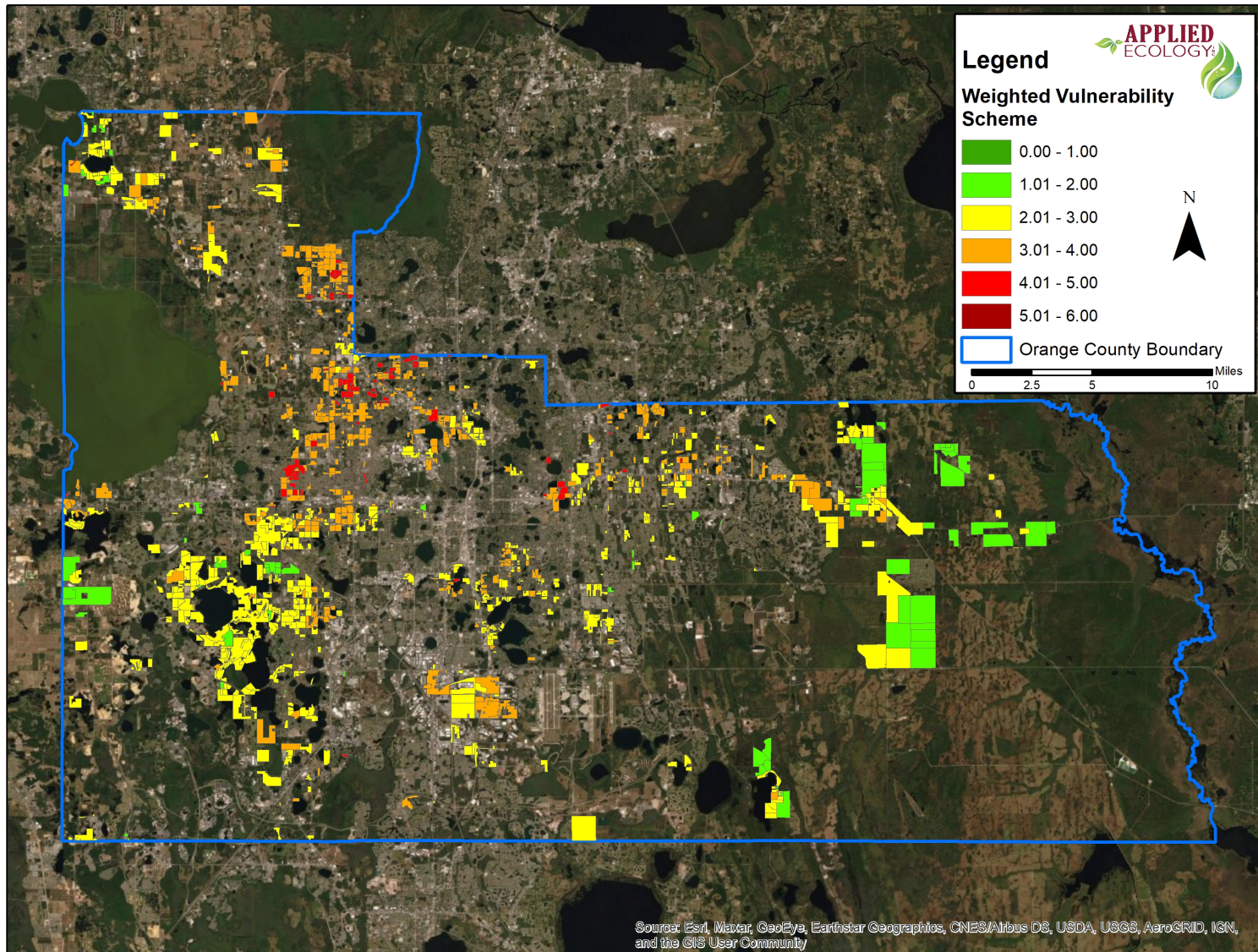


Figure 25. Weighted Vulnerability Scheme by subdivision, Orange County, Florida. The weighted vulnerability scheme values were generated by multiplying each individual parameter rank by an importance weight, summing, and then dividing by the number of individual parameters for each subdivision. Higher values indicate higher potential for pollutant loading.



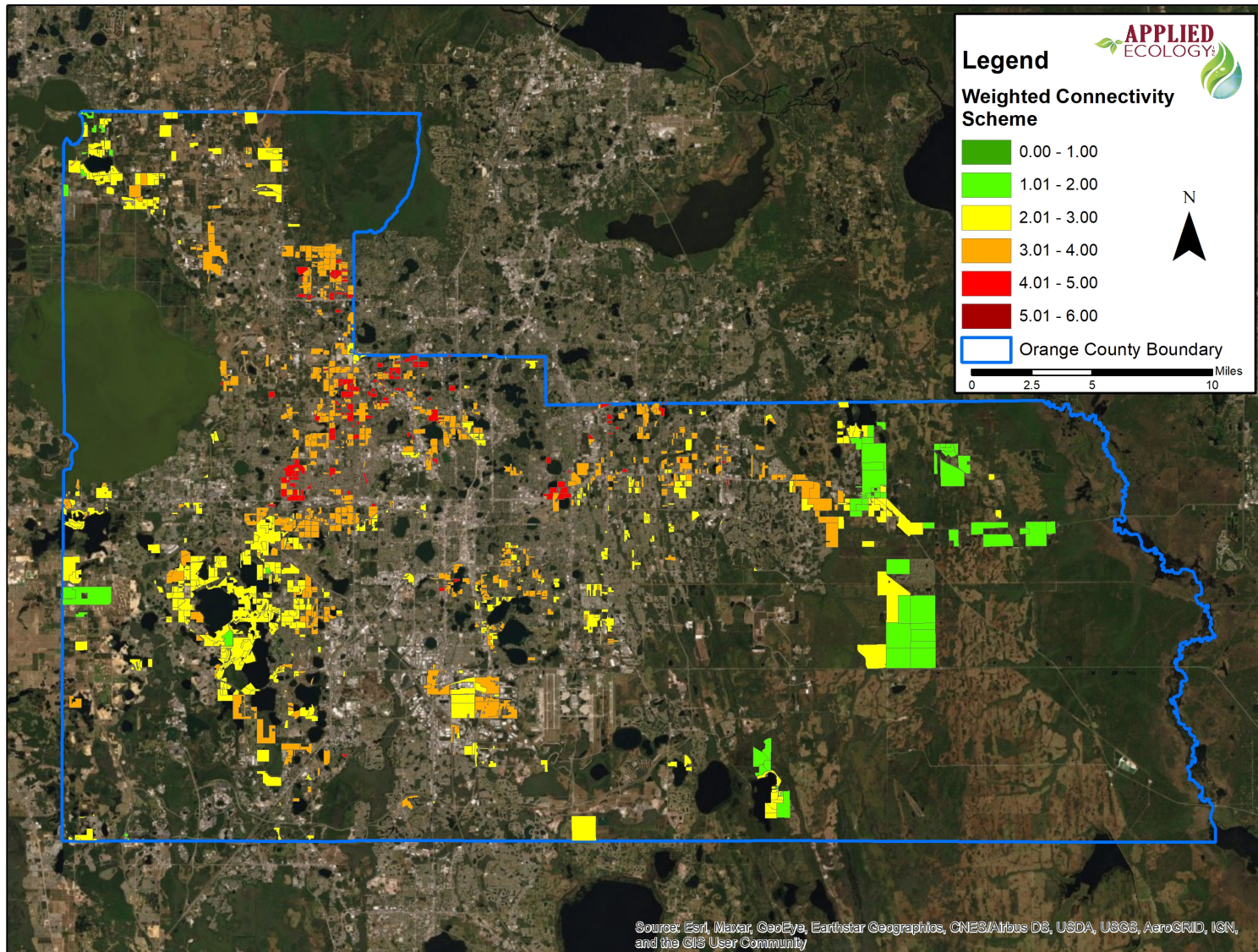


Figure 26. Weighted Connectivity Scheme by subdivision, Orange County, Florida. The weighted vulnerability scheme values were generated by multiplying each individual parameter rank by an importance weight, summing, and then dividing by the number of individual parameters for each subdivision. Higher values indicate higher potential for pollutant loading.

## SOCIOECONOMICS

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The 2019 socioeconomic data from the U.S. Census Bureau were included as a reference for Orange County. Socioeconomic data are an important consideration in prioritization and planning efforts.

Maintenance and replacement of septic systems are necessary in keeping a properly functioning septic tank. Maintenance and replacement of septic tanks can be costly, ranging in price from a couple of hundred to several thousands of dollars. Those who live in areas of lower household income, households below poverty, or households receiving public assistance may not have the economic ability to maintain and repair their septic tanks (*Capps et al., 2020*).

Figure 27 shows the percentage of households below poverty within the census block group level for Orange County, FL. The more central locations in Orange County tend to have the higher percentages of households below poverty, whereas the outer, more rural, areas tend to have lower percentages. The census block groups having the highest percentage of households below poverty ranged between 47-82% of the total households.

Figure 28 shows the percentage of households on public assistance within the census block group level. There were two census block groups that had 17.3% or greater of the households on public assistance. The census block groups that have the highest percentage of households that are below poverty are not the same as the highest percentage of households that are on public assistance but do show a similar pattern. This is anticipated due to the correlation between public assistance and below poverty households.

The median household income per census block group was also mapped as reference (Figure 29). The median household income for Orange County ranged from \$0 (uninhabited census block group) to \$250,001 annually. As with percentage of households below poverty and percentage of households on public assistance, the more central census block groups have the lower median household income. However, unlike the pattern described for the previous socioeconomic variables, more rural areas have about average median household incomes and some of the densest census group blocks present the lowest median household incomes.



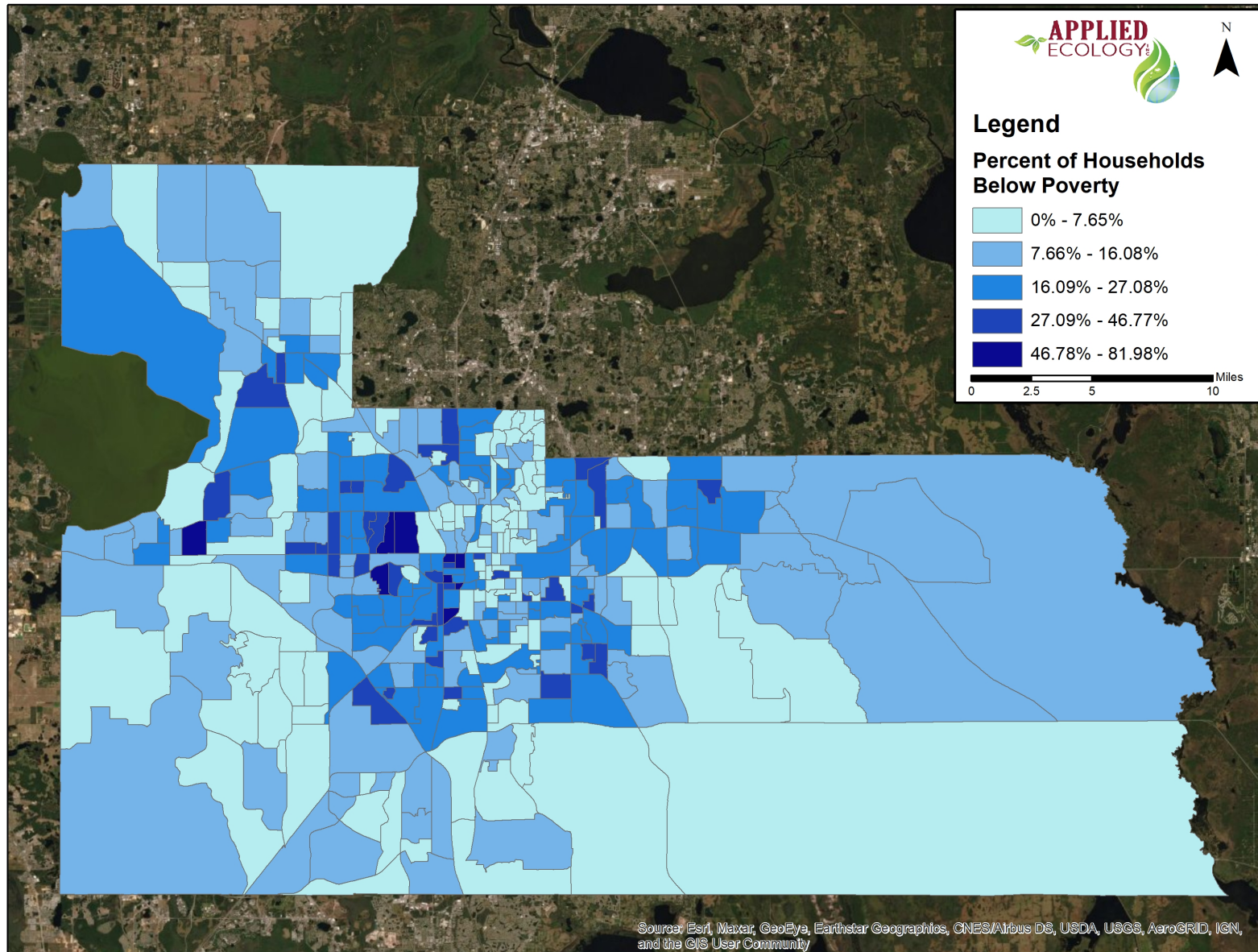


Figure 27. The percentage of households below poverty per census block group, Orange County, Florida. Data source U.S. census bureau.



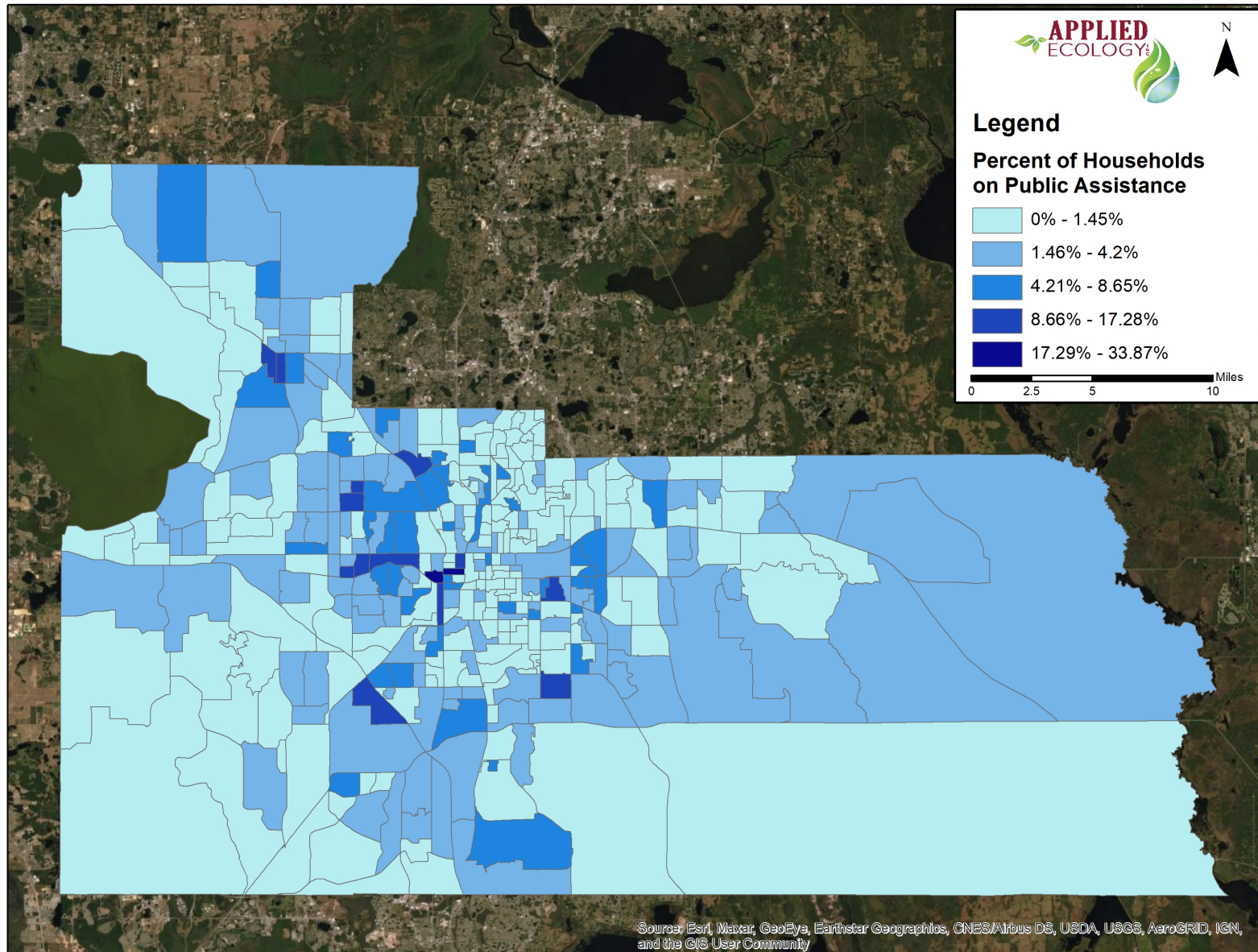


Figure 28. The percentage of households on public assistance per census block group, Orange County, Florida. Data source U.S. census bureau.

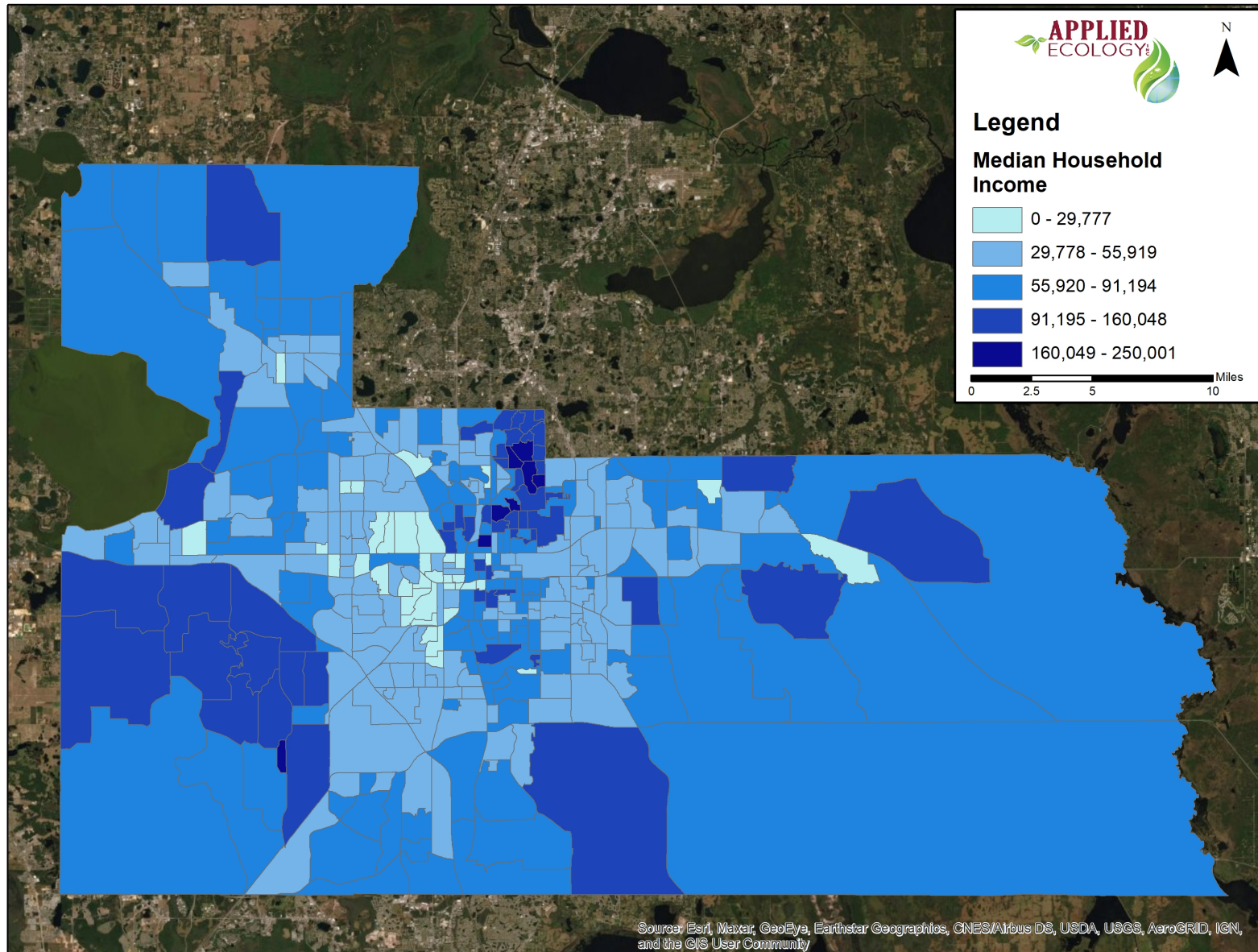


Figure 29. The median household income per census block group, Orange County, Florida. Data source U.S. census bureau.

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Appendix A  
**DRAFT**  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Adams Ridge Ut 2	2.50	3.00	100.00	0.00	924.83	8.27	442.46	184.66	1985.27	1152.63	32.35	7.95
Adirondack Hgts	2.87	3.00	0.00	155.87	706.47	9.17	1955.82	196.42	1963.28	852.48	31.59	6.77
Aein Sub	0.57	3.00	0.00	0.00	292.62	1.36	1258.70	1077.61	1979.09	295.65	17.59	7.78
Agnes Hgts	3.32	3.00	0.00	0.00	1639.06	6.95	310.20	571.80	1959.39	1401.81	32.96	7.93
Alafaya Business Ctr Condo	2.61	1.00	0.00	0.00	804.06	2.63	74.58	44.30	2006.00	2805.20	23.00	7.93
Alafaya Prof Park 2 Condo	4.64	3.00	100.00	757.18	459.08	0.04	30.79	35.94	2007.00	516.95	21.71	0.92
Alafaya Village	0.46	1.00	100.00	0.00	198.22	0.07	49.70	1043.03	2005.29	4366.64	22.83	7.93
Alafaya Woods	3.19	4.67	0.00	3.30	529.60	5.95	591.78	1392.62	1981.00	1587.90	23.94	7.45
Aliso Ridge	2.61	3.00	0.00	59.46	919.65	4.36	302.64	464.43	1996.77	1239.98	35.51	6.41
Almond Tree Ests	1.71	3.00	0.00	0.00	569.88	4.63	225.85	638.41	1988.42	290.62	31.62	6.31
Aloma Business Ctr Condo	8.54	3.00	100.00	0.00	358.88	0.00	224.41	91.40	1988.00	629.27	24.71	7.93
Anderson George W	0.06	3.17	100.00	0.00	256.83	0.33	904.72	548.55	1973.50	105.10	22.08	6.22
Anderson Village	2.92	3.00	0.00	0.00	439.90	1.49	538.27	1214.15	1989.13	520.37	21.35	7.93
Angebilt Add	2.30	2.94	0.00	0.64	402.60	4.51	453.03	372.02	1960.56	584.98	30.67	5.08
Angebilt Add 2	2.01	3.00	4.40	0.00	796.38	5.23	525.60	356.05	1959.95	1402.23	30.38	7.44
Annandale Park	1.65	3.00	100.00	2.02	235.32	3.55	987.75	490.48	1959.84	816.64	27.00	7.93
Apopka Ranches	0.19	3.05	100.00	1021.82	308.38	1.14	765.99	1563.04	1979.10	1890.77	31.27	6.41
Apopka Wekiva Homesites	2.25	3.00	100.00	0.00	728.06	5.11	181.92	661.16	1980.14	1519.27	23.90	6.50
Arbor Woods North	5.11	3.00	0.00	0.00	1248.04	10.26	705.32	266.15	1987.98	1782.19	20.31	0.79
Arbor Woods Ut 3	4.98	3.00	0.00	152.27	996.35	3.45	1175.86	453.31	1984.00	497.06	17.06	7.68
Arcadia Terrace	2.33	3.00	8.38	0.00	200.39	4.75	611.76	1023.10	1969.07	1491.92	27.00	7.93
Armstrong Acres	0.38	3.00	27.52	102.04	796.38	3.69	531.87	483.84	1955.50	134.43	29.81	5.53
Arnold H T Plan Of Conway	1.04	3.00	0.00	0.00	798.74	3.37	136.51	485.36	1971.78	1453.07	31.37	7.95
Arrowhead Lakes	0.38	3.42	0.00	0.00	372.97	0.61	9438.20	3232.39	1986.61	16.38	32.56	5.26
Avon Vista	0.89	1.00	100.00	187.14	101.61	1.55	147.71	2707.75	1961.73	2280.98	38.70	7.93
Avondale	3.09	3.47	0.00	47.93	922.61	8.18	1422.00	1752.89	1976.98	493.28	32.52	8.77
Avondale	0.82	3.00	100.00	0.00	568.42	1.00	107.65	437.74	1968.35	1301.32	34.94	7.95
Avondale Add	2.08	3.26	0.00	151.46	922.61	5.79	1860.49	1935.05	1973.54	295.57	37.43	7.78
Avondale Park 1St Add	3.38	3.00	100.00	402.83	555.66	7.48	588.19	1268.14	1969.86	895.16	27.75	7.93
Avondale Park 2Nd Add	1.38	3.69	100.00	402.83	555.66	3.47	585.41	886.58	1965.50	601.89	27.55	7.95
Backachers Ests	1.89	2.75	0.00	0.00	659.64	4.02	1489.65	1680.43	1985.00	10.05	26.00	7.87
Baileys Add To Plymouth	0.27	4.39	100.00	534.63	369.70	1.06	760.02	636.22	1982.75	1448.84	33.90	6.86

Appendix A  
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Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Balmoral	0.89	3.12	0.00	0.00	456.88	3.28	475.38	473.81	1996.45	2866.34	52.92	7.40
Banana Bay Ests	0.76	3.00	0.00	255.67	318.06	1.79	385.27	829.02	1994.75	147.23	34.84	4.83
Barnum Lillian Sub	0.79	1.00	0.00	1760.67	369.29	3.03	732.87	1230.20	1949.09	66.29	27.76	5.26
Bass Lake Manor	3.33	3.00	3.40	0.00	806.05	5.01	292.14	1779.61	1960.72	500.33	31.77	7.76
Bay Lake Ests	1.32	2.00	100.00	692.41	72.71	0.94	981.87	874.09	1965.50	0.00	27.05	10.79
Bay Lake Manor	0.60	1.56	100.00	741.98	216.97	1.62	579.64	349.93	1979.78	157.48	27.00	3.66
Bay Lake Shores	1.72	1.00	100.00	692.41	216.97	1.73	478.34	561.30	1963.25	102.13	27.20	5.61
Bay Lakes At Granada Sec 3	2.13	1.23	0.00	0.00	443.22	3.75	1518.23	441.22	1982.33	280.21	33.25	7.60
Bay Park	1.92	5.98	0.00	0.00	454.77	5.64	433.12	360.65	1991.82	457.53	50.99	19.00
Bay Run Sec 1	2.00	3.00	0.00	0.00	542.76	5.65	273.71	374.31	1982.71	3230.61	24.00	7.94
Bay Run Sec 2	2.47	3.00	0.00	0.00	720.92	4.61	754.21	397.30	1983.05	3336.88	24.00	7.93
Bay Run Sec 3	1.50	3.00	0.00	0.00	506.20	4.61	308.47	280.24	1984.04	4090.24	24.00	7.94
Bay Vista Ests Ut 1	1.54	1.60	18.52	0.37	617.53	3.79	898.54	545.83	1985.55	342.37	32.45	6.50
Bay Vista Ests Ut 2	1.85	3.00	14.09	0.37	532.73	4.76	1631.24	702.72	1987.96	552.40	32.18	7.12
Bay Vista Ests Ut 3	1.15	3.37	51.88	0.00	899.97	3.58	614.34	839.91	1991.42	323.42	29.17	6.00
Bear Lake Highland Acres	0.43	5.43	100.00	0.00	474.97	2.11	2115.79	564.35	1993.45	1349.44	36.54	14.96
Bear Lake Highlands	1.93	4.87	100.00	30.53	331.05	4.54	2068.93	704.97	1973.70	1152.34	37.69	11.71
Beatrice Village	1.82	3.00	100.00	1.94	772.41	12.22	280.07	88.41	1972.00	1200.66	28.62	7.93
Beauclaire Ests Of Mount Dora Ph 2	0.31	3.62	0.00	70.29	49.22	0.22	13711.73	12669.72	2019.33	2213.81	36.01	6.08
Becks Add To Zellwood	1.22	3.00	100.00	0.00	174.10	2.67	494.37	7600.66	1959.83	2821.15	30.28	5.57
Bedford Hgts	3.82	3.00	0.00	0.00	605.40	11.51	1120.32	192.90	1985.25	483.86	27.00	7.95
Beeman Park	2.63	3.00	0.00	198.95	741.96	5.83	1328.16	398.68	1963.08	1057.28	29.51	7.95
Bellanona Grande Ests	0.36	4.90	0.00	0.00	222.96	0.65	541.23	1101.99	2014.84	804.76	21.59	10.08
Bellaria	0.84	3.02	0.00	0.00	137.86	0.76	344.59	1021.75	2013.31	927.29	35.78	7.83
Bent Oak Ph 1	1.89	3.28	100.00	0.00	599.15	5.19	586.29	757.46	1980.90	1693.96	30.98	7.95
Bent Oak Ph 2	1.75	6.00	100.00	20.22	599.15	4.54	1200.36	711.04	1982.33	1667.22	30.03	7.95
Bent Oak Ph 3	2.04	6.00	100.00	98.42	599.15	5.39	1121.87	1099.52	1983.58	953.55	28.21	7.95
Bent Oak Ph 3	1.07	3.00	100.00	67.68	423.64	1.97	1778.07	2443.26	1985.80	18.01	22.40	5.50
Bent Oak Ph 4	1.58	4.95	100.00	67.68	599.15	3.78	1552.02	1887.29	1984.45	473.78	23.77	6.07
Bent Oak Ph 5	1.27	5.00	100.00	98.42	599.15	3.08	566.43	1265.18	1985.78	386.87	24.91	6.16
Bentley Park 2Nd Rep	0.67	1.00	0.00	0.00	443.22	2.78	1759.96	415.23	1999.08	309.51	31.30	5.66
Bentley Woods	3.20	5.90	100.00	0.00	630.02	6.72	578.57	468.88	1987.11	1214.82	33.76	7.95



Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Bentons Garden Cove	5.56	6.00	0.00	133.07	987.15	11.74	185.85	871.34	1985.33	850.55	40.98	7.95
Biltmore Shores Sec 2	1.93	1.00	79.12	672.69	544.49	4.01	1576.49	1955.11	1955.74	205.43	27.88	6.19
Birr Court	3.66	1.00	0.00	495.87	435.77	3.96	67.50	671.07	1960.53	369.76	27.94	0.58
Bithlo (201-205, 301-305)	1.38	1.00	0.00	2571.83	230.58	2.57	6782.56	4337.30	1986.84	2052.04	19.63	7.93
Bithlo (Blk 101-106)	0.07	1.00	0.00	521.08	104.70	0.05	5763.92	3768.72	1974.67	4775.86	16.71	7.93
Bithlo (Blk 1-12)	0.02	1.00	14.03	1826.58	29.39	0.29	6151.06	4899.53	1988.00	4399.36	17.97	7.24
Bithlo (Blk 1211)	2.11	1.00	0.00	521.08	230.58	0.44	6106.42	3734.31	1940.00	3161.06	19.00	7.93
Bithlo (Blk 13-37)	0.01	1.00	20.61	0.00	29.39	0.17	4465.35	3943.43	1971.00	2835.96	15.97	7.85
Bithlo (Blk 2000-2017)	0.43	1.00	81.38	3865.77	152.65	1.21	8400.13	6002.11	1985.14	1714.08	19.58	7.93
Bithlo (Blk 201-1222)	0.27	1.00	7.65	2571.83	230.58	0.98	6018.37	3618.48	1988.68	1309.23	18.40	7.19
Bithlo (Blk 2018-2240)	1.36	1.00	92.88	2571.83	152.65	2.97	8406.26	5966.91	1986.31	884.91	19.06	7.94
Bithlo (Blk 406-410, 506-509)	0.66	1.00	0.00	2571.83	110.94	1.29	7280.42	4995.68	1990.46	1333.88	19.89	7.94
Bithlo (Blk 510)	0.83	1.00	0.00	4.56	110.94	0.28	7429.65	5279.00	2003.33	957.73	19.85	7.93
Bithlo (Blk A-X)	1.47	1.05	70.43	1826.58	276.46	2.92	7934.59	5768.33	1987.92	2803.51	18.88	7.67
Bithlo Ranches Annex Unrec Plat	0.44	1.00	100.00	0.08	112.15	0.90	11096.60	8711.38	1998.47	449.24	17.63	7.23
Bithlo Ranches Annex Unrec Plat	0.74	1.00	100.00	3865.77	112.15	0.70	10734.65	8492.31	1980.43	1234.10	16.56	7.80
Bithlo Ranches First Add Unrec Plat	0.56	1.00	73.53	0.00	74.40	1.14	3860.38	4134.97	1982.39	2773.32	15.39	7.94
Bithlo Ranches Unrec Plat	0.72	1.00	0.33	0.00	310.89	2.06	4598.52	3966.84	1979.99	4528.78	17.49	7.61
Blackwood Acres Rep	1.15	3.63	100.00	3651.06	828.83	3.07	1112.80	339.10	1966.97	629.84	39.54	7.69
Blue Bird Park	0.40	3.00	100.00	103.99	332.48	0.69	257.57	301.27	1986.50	449.73	30.83	6.14
Blue Ridge Acres	0.50	5.29	100.00	0.00	227.56	1.08	1581.66	1592.09	1982.08	2227.22	33.00	7.95
Bonaventure 2	1.42	1.00	93.48	0.00	310.89	4.36	2974.17	3155.50	1989.31	3455.39	18.35	7.58
Bonaventure 3	1.75	1.00	100.00	0.00	310.89	1.10	1745.44	1874.49	1989.57	3664.13	17.46	4.02
Bonnie Belle Point	1.63	3.00	0.00	110.70	334.32	3.49	1284.19	2085.40	1963.25	16.39	25.45	6.58
Bonnie Brae	3.17	1.00	100.00	149.39	753.27	5.26	226.80	275.95	1964.78	1069.81	24.39	7.95
Bonyng Add	0.21	6.00	0.00	0.00	144.84	0.51	10698.99	9738.81	2003.00	2696.58	47.42	7.95
Bonynges Ed W 2nd Add	1.73	4.18	0.00	93.67	214.53	2.64	9274.82	8232.16	1991.36	1743.52	43.44	6.67
Boone Terrace	3.23	3.00	0.00	0.00	806.05	7.21	885.79	1635.82	1955.61	676.82	32.00	7.95
Bowser Sub	0.70	3.00	64.64	71.03	200.39	0.53	438.16	379.32	1979.56	2365.28	26.35	7.93
Braemar	0.92	3.00	0.00	529.91	169.24	0.77	2415.15	2553.64	2011.73	343.80	32.11	5.60

Appendix A  
**DRAFT**  
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Braemar Phase 2	0.28	3.00	0.00	529.91	122.64	0.78	2159.18	1754.65	2014.50	49.81	28.23	4.58
Breckenridge Estates	3.16	3.34	100.00	0.00	742.81	7.50	354.49	799.58	1986.27	864.59	37.20	7.95
Brentwood	2.35	3.00	97.16	0.00	499.90	2.31	932.00	1090.90	1979.60	6408.24	26.84	7.93
Bretwood	2.96	1.00	100.00	0.00	825.06	3.67	244.71	364.40	1987.00	714.11	23.60	7.94
Bretwood 2	3.10	1.00	100.00	0.00	825.06	3.67	291.09	908.13	1991.53	1398.94	29.17	7.95
Brookwood	0.96	3.00	78.02	0.00	327.28	1.30	187.37	512.74	1987.75	253.53	19.49	5.66
Brownie Villa	3.89	3.00	100.00	0.00	1078.15	0.86	30.11	502.83	1957.29	1297.48	27.00	7.93
Buckeye Court Rep	3.36	1.00	100.00	1.82	624.01	4.28	282.66	1729.20	1951.36	1005.87	28.39	7.93
Buckingham At Lakeville Oaks Ph 1	1.45	6.00	100.00	0.00	368.25	3.95	2052.97	2052.97	1990.07	248.02	25.80	7.85
Buckingham At Lakeville Oaks Ph 1	1.82	4.55	100.00	0.00	368.25	3.95	1785.98	1785.98	1990.79	649.18	27.57	7.95
Buckingham At Lakeville Oaks Ph 2	1.83	5.10	100.00	0.00	368.25	3.82	1245.02	1242.66	1992.56	1531.05	30.38	7.95
Buff Sub	0.75	3.00	0.00	155.87	1033.90	6.58	1770.15	29.65	1954.00	23.45	28.61	7.04
Bunker Hill	1.40	3.44	73.57	508.04	759.36	2.12	664.81	1006.43	1987.33	1452.07	16.10	5.45
Bunker Hill 2Nd Sec	0.55	3.45	14.56	508.04	759.36	1.50	302.88	382.64	1981.63	403.83	16.57	7.30
Bunker Hill 3Rd Sec	0.60	3.00	0.00	508.04	781.15	5.84	28.05	271.24	1995.00	693.58	16.00	2.61
Butler Bay Ut 1	0.50	3.00	0.00	137.79	215.24	1.31	4575.69	4410.26	1987.40	135.99	32.65	6.02
Butler Bay Ut 2	0.68	3.00	0.00	137.79	159.16	1.40	3206.64	2988.46	1989.61	307.13	33.19	7.47
Butler Bay Ut 3	0.50	3.00	0.00	0.00	180.08	1.16	2546.59	2233.21	1992.30	454.87	34.50	7.35
Butler Bay Ut 3	0.39	3.00	30.86	0.00	189.90	1.13	2552.64	1964.67	1998.22	125.08	33.40	4.56
Butler Manor	0.27	3.22	100.00	155.25	221.45	1.57	1798.08	1587.60	2000.30	545.13	27.42	6.18
Butler Ridge	0.80	5.31	0.00	0.00	197.88	1.66	895.58	962.67	1990.26	1250.56	38.50	7.80
Callum Mac Sub	0.16	6.00	92.54	165.81	659.00	0.62	16.64	493.62	1965.00	84.52	27.99	7.39
Canyon Ridge Ph 1	2.81	5.23	100.00	193.40	292.41	7.33	1777.92	1013.25	1987.39	1092.37	31.93	7.95
Cape Orl Ests Ut 4A	0.12	3.00	0.00	123.27	38.93	0.36	25061.69	24771.86	2010.31	5200.90	21.39	7.94
Cape Orl Ests Ut 7A	0.32	3.00	0.00	1484.79	53.81	0.60	19756.59	19672.61	2009.94	4113.57	19.71	7.94
Cape Orl Ests Ut 9A	0.16	3.00	0.00	241.71	41.09	0.38	18255.12	17660.86	2007.57	2574.73	19.92	7.94
Cape Orl Ests Ut 11A	0.27	3.00	40.78	1732.02	84.72	0.51	14083.81	14615.15	2010.14	1273.63	17.71	7.94
Cape Orl Ests Ut 12A	0.27	2.95	38.78	792.74	52.47	0.70	14960.39	14485.29	2008.94	1114.21	19.10	7.59
Cape Orl Ests Ut 2A	0.14	3.00	0.00	35.22	43.92	0.34	22163.57	21578.62	2006.00	3486.66	20.11	7.93
Cape Orl Ests Ut 31A	0.35	1.05	0.00	0.00	123.26	0.95	16203.84	15146.84	2005.51	4028.22	18.83	7.94
Cape Orl Ests Ut 3A	0.40	2.92	0.00	557.61	97.71	0.86	23917.55	23337.22	2007.76	3746.06	21.09	7.94

Appendix A  
**DRAFT**  
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Cape Ori Ests Ut 3A	0.16	2.96	0.00	557.61	55.56	0.44	23118.90	22518.97	2003.18	3770.33	20.69	7.94
Cape Ori Ests Ut 3A	0.12	2.85	0.00	0.19	37.90	0.32	24645.75	24108.44	2006.70	4337.70	21.20	7.94
Cape Ori Ests Ut 8A	0.15	3.00	1.71	69.26	43.73	0.33	18841.24	18421.34	2006.73	2824.94	19.72	7.94
Carlson Park	2.85	1.00	100.00	15898.31	591.78	4.28	848.08	311.26	1958.53	611.53	28.32	7.81
Carlton Oaks	3.12	6.00	100.00	0.00	367.71	3.45	1605.72	1017.98	2000.20	1848.73	25.96	7.95
Carmel Park	5.52	3.00	0.00	0.00	681.42	7.69	282.07	336.04	1987.70	1036.81	18.69	1.49
Carol Woods	2.92	5.73	100.00	98.42	630.02	3.34	491.20	856.74	1987.23	1384.20	29.44	7.95
Carolina Terrace	0.47	3.00	0.00	529.91	122.64	0.78	1295.84	938.08	1979.57	520.00	33.26	5.71
Caroline Ests	2.41	4.40	100.00	0.00	742.81	5.78	822.10	1260.03	1984.08	980.79	38.56	7.95
Castle Place	3.18	3.00	0.00	0.00	574.99	6.50	942.24	536.04	1972.77	316.95	28.98	3.45
Central Orange Park	0.01	2.66	100.00	2.36	91.35	0.83	170.06	679.21	1995.00	845.58	34.97	11.27
Central Park	1.46	3.00	100.00	513.34	351.17	0.97	69.61	1190.51	1948.93	1195.31	27.81	7.93
Chaine Du Lac	0.54	3.00	0.00	0.00	159.16	0.99	2490.80	2409.70	2018.43	624.44	34.26	7.94
Chaine Du Lac	0.52	3.00	0.02	0.00	136.18	0.99	684.68	569.58	2001.80	190.13	32.96	7.35
Champions Point Of Isleworth	0.06	3.00	0.00	0.00	298.44	0.57	2780.82	2673.21	1990.00	44.20	30.08	2.39
Chaudoin Hills	0.76	5.53	100.00	1.66	28.80	0.26	3106.69	2315.69	1982.38	0.00	47.03	15.92
Cheney Highlands	1.52	3.00	9.09	6.86	759.39	2.99	215.45	568.89	1971.00	578.85	24.00	7.01
Cheney Highlands 2Nd Add	2.07	3.00	4.16	6.86	759.39	3.61	478.02	540.30	1967.54	474.46	24.00	5.50
Cheney Highlands 3Rd Add	2.16	3.00	0.00	6.86	665.56	3.11	774.58	759.81	1989.18	277.65	23.35	7.60
Cheney Hwy Acres 1St Add	2.09	3.00	100.00	0.00	419.85	3.42	367.46	571.46	1983.26	2251.40	17.64	7.92
Chesterhill Ests Ph 1	1.01	3.39	0.00	71.05	73.43	1.22	14665.69	13759.05	1992.97	714.60	28.95	5.90
Chesterhill Ests Ph 2	0.71	3.15	0.00	71.05	73.43	0.77	13905.95	13063.08	2001.32	239.14	25.60	6.36
Chesterhill Ests Ph 4	0.24	3.63	0.00	0.00	73.43	0.51	13156.67	12210.24	2018.20	1245.66	34.03	7.08
Chickasaw Farms	0.35	3.00	0.00	0.00	379.60	2.51	1440.45	291.36	1982.14	4154.48	24.93	7.14
Chickasaw Ranch Ests	0.33	3.00	0.00	0.00	331.94	2.34	1026.74	643.94	2019.80	3269.08	25.00	3.78
Chickasaw Trail Ests	0.50	3.00	0.00	0.00	361.29	3.11	375.25	192.45	2013.40	3332.57	25.00	7.93
Christmas Ests Ut 1	0.38	1.00	0.00	0.00	7.99	0.17	18614.58	16782.51	1988.75	5031.59	17.00	7.94
Christmas Ests Ut 2 Sec A Rep	0.48	1.00	0.00	0.00	38.39	0.36	20070.83	18238.47	1990.58	6492.25	17.00	7.95
Christmas Ests Ut 2 Sec B	0.26	1.00	0.00	0.00	38.39	0.49	21263.18	19430.92	1994.33	7497.57	16.96	7.95
Christmas Ests Ut 2 Sec C	0.30	1.00	0.00	0.00	38.39	0.80	21137.77	19328.33	1995.55	7640.91	17.15	7.94



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Christmas Ests Ut 2 Sec D	0.27	1.00	0.00	0.00	14.59	0.35	22857.08	21064.87	1993.09	8469.85	15.50	7.94
Christmas Ests Ut 2 Sec E	0.23	1.00	0.00	0.00	51.30	0.52	21232.06	19527.04	1991.94	7658.93	16.42	7.94
Christmas Gardens No 1	0.02	1.00	83.13	3.60	5.51	0.07	14604.45	12185.42	1989.67	2152.05	18.99	7.59
Christmas Gardens No 2	0.02	2.39	0.00	3.19	4.13	0.04	29297.76	27079.94	1989.71	4643.56	11.38	7.89
Christmas Gardens No 3	0.05	1.00	0.00	0.00	13.70	0.05	44361.97	42138.14	1995.33	4432.56	5.25	7.84
Christmas Hgts	0.16	3.00	0.00	0.00	6.98	0.39	34730.48	32340.34	1989.94	6956.25	15.23	7.93
Christmas Park	0.65	1.98	0.00	0.00	27.90	0.91	39641.54	37351.18	1981.30	7949.48	8.50	7.95
Christmas Park 1St Add	0.72	1.39	0.00	0.02	166.35	1.53	42297.49	40010.35	1986.83	5875.24	7.50	7.80
Christmas Pines Rep	0.09	1.00	0.00	0.00	3.71	0.17	25859.58	23412.55	2009.27	7464.24	19.05	7.94
Christmas Ranch	0.04	1.00	0.00	0.00	3.04	0.03	21290.81	19679.35	1986.04	6275.47	16.25	7.94
Citrus Oaks Landings Condo	3.27	3.00	100.00	0.00	456.06	6.27	192.32	581.87	2001.04	378.59	29.29	5.59
Citrus Oaks Ph 1	5.19	3.00	100.00	0.00	919.65	8.80	585.50	975.36	1986.39	589.48	31.98	4.04
Citrus Oaks Ph 2	6.47	3.09	100.00	0.00	919.65	17.60	804.60	875.85	1988.46	500.11	34.44	5.62
Clearview Hgts 1St Add	2.85	3.26	100.00	0.00	636.36	6.11	492.67	1064.74	1964.41	1798.52	27.68	7.93
Clover Hgts Rep	2.95	3.00	0.00	144.64	706.47	5.64	1627.62	377.62	1964.19	810.75	32.11	7.95
Cloverdale Sub	1.58	3.00	0.00	155.87	844.26	7.19	1612.43	67.17	1958.83	867.76	30.40	7.95
Cloverlawn	2.46	3.00	4.70	155.87	844.26	5.65	1219.96	499.56	1962.32	644.91	27.75	7.64
Cobble Stone	3.00	3.00	100.00	0.00	600.46	5.12	214.63	190.66	1984.81	623.60	21.42	7.54
Cobblestone Walk At Kaley Condo Ph 1	8.30	3.00	0.00	155.87	844.26	6.82	889.40	901.81	2017.00	1018.36	29.00	7.95
Cobblestone Walk At Kaley Condo Phase 2	8.32	3.00	0.00	155.87	844.26	6.82	999.61	986.26	2017.00	912.63	28.50	7.95
Coco Plum Villas Condo	8.27	3.00	0.00	144.64	706.47	8.92	69.02	1353.45	1969.00	1707.58	32.23	7.95
Coconut Grove	1.63	2.94	0.00	0.00	801.14	4.08	1229.86	1264.78	1989.43	5231.36	27.30	7.94
College Cove	2.64	3.00	0.00	43.06	1099.05	10.92	678.66	235.29	1983.58	2596.62	23.65	4.31
Colony	2.33	3.07	100.00	0.00	869.39	5.63	661.93	722.24	1986.84	1810.59	31.20	7.05
Combs Add To Zellwood	2.41	3.00	100.00	0.00	174.10	1.69	2183.43	8351.18	1981.00	1848.74	30.40	5.48
Condel Gardens	2.81	3.00	5.50	878.86	829.72	6.80	611.06	540.13	1957.51	377.82	29.91	7.85
Conway Ests Rep	3.03	3.00	0.00	0.00	903.57	6.44	1648.05	545.82	1972.94	1330.41	34.03	7.95
Conway Homesites	2.39	3.00	0.00	0.00	762.79	4.66	135.70	249.14	1975.93	1313.50	31.50	7.95
Conway Park	3.62	3.00	0.00	0.00	776.82	6.64	1608.80	172.69	1962.07	1383.74	29.90	7.95
Conway Plaza	0.20	1.00	0.00	495.87	531.81	2.11	11.63	164.07	1920.00	329.57	28.00	0.96
Conway Terrace	3.48	3.00	0.00	0.00	776.82	11.60	1999.60	272.31	1954.52	821.50	29.40	7.95

Appendix A  
**DRAFT**  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Coronation Add	4.72	3.00	100.00	140.47	563.72	4.59	762.52	474.13	1982.80	1211.37	26.06	6.11
Cottage Hill Sub	0.69	3.00	0.00	64.78	260.35	1.70	696.76	216.06	1958.00	1484.84	30.00	7.95
Country Grove	3.16	6.00	0.00	354.59	780.71	6.76	523.66	402.57	1985.92	932.45	36.27	7.95
Country Lakes	0.45	3.00	0.00	0.00	310.39	1.02	548.37	654.67	1989.45	335.04	30.43	5.05
Country Shire	2.60	3.40	100.00	4.93	337.29	0.14	3349.18	7519.12	1987.15	1236.71	26.75	6.76
Country Trail Ests	0.29	3.00	0.00	162.43	145.18	0.47	668.59	607.32	1992.50	1604.49	32.64	7.51
Courtleigh Park	0.85	3.52	0.00	0.00	273.46	2.31	576.17	419.83	1991.39	2394.22	54.21	8.30
Coward Ranches	0.05	1.01	0.00	0.00	35.03	0.05	23849.10	22312.09	1998.44	5249.85	13.77	6.23
Cox L C Add	2.03	1.78	0.00	151.78	363.15	3.56	216.57	632.40	1975.55	1547.86	28.14	7.96
Crescent Hgts	4.94	3.00	0.00	151.46	922.61	13.06	1295.42	1506.90	1960.51	859.84	38.28	7.94
Crescent Hgts 1St Add	5.92	5.50	0.00	151.46	922.61	3.48	488.12	806.12	1962.00	1308.35	41.83	7.95
Crescent Hill	3.74	3.02	0.00	151.46	864.93	9.14	1006.83	951.74	1962.09	529.91	38.05	7.76
Crescent Lake Ests	0.31	3.00	0.00	0.00	270.51	1.14	4147.25	3346.71	1981.90	237.36	32.54	3.55
Crescent Lake Ests East	0.61	3.00	0.00	0.00	215.24	1.58	3638.37	3358.01	1991.79	370.67	35.43	4.89
Crescent Pointe	0.84	3.00	0.00	0.00	270.51	2.02	3210.58	2846.72	1995.00	940.06	36.75	7.95
Crittenden Camp Sites	0.83	3.00	19.22	0.00	829.72	2.60	359.62	346.79	2018.00	60.21	27.17	7.16
Crocker Hgts	3.44	3.00	0.00	0.00	1639.06	6.16	129.33	119.50	1970.32	1707.50	33.00	7.93
Cross Rds Sub	2.13	1.00	100.00	290.55	289.94	3.52	1456.22	2934.31	1969.64	1398.77	34.90	7.93
Cross State Hwy Hgts	0.94	3.00	0.00	0.00	400.46	3.10	16.04	1630.72	1982.40	1134.06	21.75	1.46
Crown Point Woods	0.76	1.44	100.00	0.00	113.31	1.12	2200.47	2072.21	1989.03	3477.13	31.27	5.94
Crown Point Woods Ph 2	0.83	1.31	100.00	0.00	113.31	0.80	2110.57	1707.09	1991.67	3709.37	28.06	6.66
Crowne Plaza Resort Ph 1 At Wilderness Crk Ph 2	0.14	3.00	100.00	0.00	484.57	0.05	58.34	923.53	1999.00	396.32	30.53	7.97
Crystal Lake Oaks	2.31	3.00	0.00	0.00	674.46	4.66	1674.77	1728.18	1997.33	621.16	29.70	7.95
Crystal Lake Park	2.55	3.00	0.00	144.64	706.47	7.12	1665.52	258.42	1957.58	354.14	30.10	7.30
Cypress Isle	0.84	2.99	0.00	0.00	109.76	0.86	751.58	1434.14	1996.96	799.50	30.39	7.35
Cypress Landing Ph 1	2.30	6.00	0.00	43.49	469.17	5.03	1715.33	1158.94	1995.55	493.19	47.87	12.13
Cypress Landing Ph 2	1.86	5.79	0.00	157.81	469.17	4.52	2271.02	1940.82	1996.52	706.74	47.60	11.29
Cypress Landing Ph 3	1.56	3.54	0.00	157.81	401.51	3.87	1408.98	1114.49	1997.60	491.82	41.66	6.51
Cypress Park Ut No 1	4.70	3.00	100.00	741.92	380.01	8.54	1424.70	460.43	1999.68	5724.07	28.00	7.93
Cypress Point	0.23	1.58	0.00	34.86	623.39	2.69	72.46	36.50	1980.00	1177.90	37.08	11.51
Cypress Shores	0.30	3.01	0.00	0.00	109.76	0.54	1586.50	1915.27	1985.90	4.01	30.15	6.14
Cypress Shores 1St Add	1.49	3.15	0.00	0.00	109.76	0.83	2282.17	1276.76	1988.29	36.71	30.80	17.35
Dcp Idrive Condominium	24.52	3.00	100.00	0.00	3.82	0.05	441.54	3097.72	2006.00	1154.88	37.03	6.63

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Dean Acres	6.03	3.00	0.00	0.00	664.71	7.90	833.38	367.83	1988.68	921.78	18.98	3.38
Dean Hilands	0.81	5.32	100.00	98.42	445.17	3.34	538.61	652.87	1980.00	1554.88	27.75	7.95
Deer Island	0.70	3.16	0.00	0.00	191.96	1.52	5760.60	5601.74	1995.81	20.96	31.97	7.76
Deer Island Ph 2	0.66	3.00	0.00	0.00	191.96	1.46	5469.04	5443.87	2002.81	346.38	34.93	7.09
Deer Lake Chase	1.50	5.04	100.00	0.00	367.71	1.57	1212.54	1133.10	1991.89	968.96	23.14	7.95
Deer Lake Run	1.46	4.11	100.00	0.00	313.97	3.60	2765.60	2825.04	1988.55	522.91	21.37	6.47
Dickson H H Sub Of Livingston Sub	2.17	1.00	0.00	495.87	435.77	3.38	34.41	227.55	1957.54	604.97	27.63	2.11
Dommerich Hills	2.38	3.00	0.00	26.07	767.11	6.39	904.16	431.53	1961.48	2252.85	26.08	7.93
Dora Ests Ph 2	0.59	3.00	0.00	0.00	17.42	0.54	6375.31	5237.05	2017.83	1104.95	28.14	6.11
Dora Ests Ph Two 17-18 Rep	0.45	3.00	0.00	0.00	17.42	0.54	6521.18	5384.57	2010.00	1504.44	28.94	7.94
Dovehill	6.13	3.00	100.00	103.99	449.94	5.17	264.47	966.51	1986.68	860.88	31.91	7.93
Dowd Park	2.69	1.00	100.00	1.82	624.01	4.28	24.57	1255.14	1956.83	946.07	28.15	7.93
Down Acres Ests 1St Rep	1.88	3.00	0.00	0.00	226.54	1.83	253.21	656.38	1977.00	55.65	33.98	4.95
Downs Cove Camp Sites	1.87	3.00	0.00	0.00	226.54	1.71	1416.27	1750.42	1958.73	37.47	31.32	6.30
Dubsdread Hgts	3.34	1.00	99.06	1266.89	250.45	5.56	676.43	723.20	1961.46	863.18	29.50	7.30
Duskin Frank Sub	1.45	1.00	99.71	0.00	649.78	6.29	377.38	91.38	1950.00	1319.09	28.00	7.93
East Cloverdale	0.03	3.00	100.00	0.00	99.69	0.59	114.10	244.91		2056.15	19.30	7.26
East Coast Villa	0.40	3.33	100.00	0.00	278.95	2.87	460.95	800.66	1977.00	733.03	33.89	8.22
East Dale Acres	2.95	3.00	0.00	0.00	1099.05	6.47	853.94	643.12	1958.50	558.87	20.50	7.93
East Dale Acres Rep	4.05	3.00	0.00	0.00	1099.05	9.16	543.41	263.51	1962.14	1168.93	20.68	7.94
East Highlands Sub	2.24	3.00	0.00	6.86	327.28	3.16	198.19	166.18	1964.00	397.02	22.93	7.93
East Orange Park	3.39	3.00	0.00	0.00	440.62	2.63	141.84	451.45	1974.62	7004.35	21.45	4.43
East Orange Park	0.88	3.00	0.00	0.00	274.95	2.65	411.86	516.71	1977.67	6018.94	19.42	6.76
East Orlando Ests Sec 1 Unrec	0.63	1.00	0.00	25.40	172.07	1.37	4688.73	2794.16	1987.77	3725.03	19.82	7.90
East Orlando Ests Sec 2 Unrec	0.27	1.00	0.00	521.08	104.70	0.37	4578.56	2494.80	1979.67	4827.92	18.79	7.93
East Orlando Ests Sec 2 Unrec	0.94	1.00	0.00	521.08	104.70	0.20	3789.01	1785.91	1986.00	5385.79	19.00	7.93
East Orlando Ests Sec A	0.66	1.00	0.00	189.11	154.77	1.42	4340.29	3318.92	1989.11	4329.69	20.64	7.93
East Orlando Ests Sec B	0.52	1.00	0.00	0.00	168.40	1.09	4958.23	3208.13	1990.05	2558.08	20.44	7.93
East Orlando Gateway Annex Unrec	1.91	1.00	100.00	0.00	227.57	5.27	2766.76	3059.65	1985.63	2270.01	15.70	7.93



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**DRAFT**  
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East Orlando Gateway Unrec	1.53	1.00	100.00	8.36	227.57	4.24	1362.17	1575.58	1983.08	2753.97	17.13	7.20
East Orlando Medical Ctr Condo	17.05	3.00	0.00	0.00	439.90	1.49	226.89	654.09	1988.00	302.61	21.80	7.93
East Pine Acres	1.36	3.00	23.38	0.00	634.83	2.69	772.18	824.54	1988.95	1712.36	14.37	6.70
Easton Sub	4.88	3.00	0.00	0.00	1000.16	6.69	757.73	2049.81	1984.86	1507.12	19.08	7.93
Eastpoint Indus Park	0.34	3.00	100.00	140.47	563.72	2.34	470.33	945.14	1991.00	1283.99	26.38	7.24
Eastwood Park	0.66	3.00	100.00	0.00	504.28	3.42	224.60	184.93	1992.83	1116.91	18.61	7.94
Eden East	2.54	3.00	100.00	166.05	555.66	3.47	1421.95	1175.91	1985.36	540.71	24.96	7.95
Eden Park	0.87	3.06	100.00	166.05	600.46	3.44	380.12	399.93	1991.61	520.98	21.60	4.86
Eden Park Ests	3.86	3.00	100.00	166.05	555.66	6.28	838.79	566.14	1967.20	368.48	24.46	7.93
Edgewater Beach 2Nd Rep	0.18	4.38	0.26	1.91	54.94	0.69	8457.62	8474.40	1963.50	159.07	35.11	7.88
Edgewater Prof Ctr Condo	4.64	1.00	100.00	672.69	624.01	3.52	941.48	1767.24	1969.50	446.30	28.00	7.95
Edgewood Sub	3.60	3.00	0.00	198.95	741.96	7.72	342.55	361.63	1964.92	1041.14	32.41	5.90
El Ranchero Farms	1.10	3.00	99.08	0.00	465.82	3.04	783.36	692.75	1979.73	1772.02	16.41	6.33
Elysium	0.69	3.00	0.00	0.00	307.89	0.47	17131.42	16105.46	1989.57	3289.92	24.67	5.81
Elysium Club	0.67	3.89	0.00	0.00	67.30	0.37	17180.38	16154.76	1993.93	4155.82	20.67	7.20
Enclave At Oxford Place Condo	7.67	3.00	100.00	0.00	459.08	14.45	347.05	370.78	2006.00	313.59	22.25	7.95
Estates At Lake Clarice	0.58	3.00	0.00	103.69	137.86	0.95	1601.93	1778.86	2010.68	195.74	33.37	5.48
Estates At Lake Pickett-Phase 2	0.86	3.00	0.00	205.12	47.62	0.52	5137.17	3939.23	2019.05	939.41	19.13	2.99
Estates At Windermere	0.89	3.00	0.00	0.00	183.00	2.51	2434.37	2022.64	1998.23	670.70	34.74	7.11
Estates At Windermere 1st Add	1.30	3.00	0.00	103.69	183.00	2.20	2689.69	1895.42	1999.29	322.72	35.16	6.76
Ests At Lake Pickett Ph 1	0.87	2.61	0.00	205.12	49.47	0.52	5141.30	3745.33	2018.26	773.45	19.68	3.54
Ethans Glenn	2.54	4.60	0.00	526.21	691.62	5.56	672.85	1097.65	1982.99	3114.94	30.92	7.68
Event Warehouse Condo	1.73	3.00	100.00	0.94	0.00	0.00	679.88	783.89	1985.00	1776.44	27.00	7.93
Fair Plain Sub	1.13	3.00	100.00	0.00	700.54	1.82	822.13	411.98	1957.88	622.34	27.48	7.92
Fairbanks Shores	3.34	1.00	98.00	1266.89	544.49	4.81	901.46	1617.91	1953.36	348.32	32.68	7.93
Fairbanks Shores	0.39	1.00	28.19	1266.89	544.49	1.05	1001.43	1449.87	1953.71	0.00	27.65	2.29
Fairbanks Shores 1St Add	4.07	1.00	0.00	70.31	544.49	5.67	582.16	1312.32	1953.50	653.06	33.00	7.93
Fairbanks Shores 2Nd Add	3.52	1.00	34.05	70.31	544.49	7.13	868.62	1326.82	1954.73	774.31	30.65	7.93
Fairbanks Shores 3Rd Add	4.10	1.00	0.00	70.31	544.49	5.53	775.48	1084.65	1954.88	648.55	30.20	7.93

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Fairbanks Shores 4Th Add	3.80	1.00	0.00	70.31	544.49	4.61	781.65	864.18	1956.43	411.90	29.85	7.93
Fairview Court	3.42	1.00	100.00	1.82	624.01	4.28	172.81	1524.11	1962.50	593.48	27.57	7.93
Fairview Gardens	3.05	3.00	100.00	2.02	235.32	8.26	682.59	475.63	1963.06	1072.90	27.00	7.93
Fairview Hgts Rep	1.75	1.00	56.54	1266.89	544.49	2.66	708.69	1431.30	1949.38	876.15	31.22	7.93
Fairview Shores	1.45	2.70	97.94	15898.31	591.78	4.18	573.18	173.93	1963.59	622.62	28.64	7.59
Fairview Spgs	1.04	1.00	58.46	672.69	522.54	1.75	1024.43	1090.59	1954.43	73.98	26.92	5.24
Fairview Spgs Rep 1St Add	0.45	1.00	100.00	1.82	624.01	5.34	64.85	750.51	1959.17	548.65	27.24	7.95
Fairview Spgs Rep 1St Add	0.20	1.00	100.00	1.82	752.19	4.29	382.68	159.54	1981.50	285.09	29.09	6.54
Fairview Terrace	0.88	1.00	100.00	15898.31	716.85	6.58	185.18	610.80	1964.20	348.57	27.23	7.95
Fairvilla Park	2.16	2.33	100.00	7010.80	545.93	6.06	80.69	195.30	1963.81	1395.77	30.00	7.93
Falcon Pointe 2Nd Rep	3.67	3.00	100.00	0.00	406.10	3.39	1919.59	1671.98	2001.00	937.52	39.00	7.96
Falcon Pointe Rep	2.76	3.50	100.00	0.00	406.10	5.70	1471.21	1163.93	1999.76	1364.58	38.18	7.39
Fan-San Manor	1.06	6.00	0.00	113.67	486.78	0.89	582.07	767.64	1956.83	37.80	32.84	4.93
Farmington Hgts	3.66	3.00	0.00	0.00	664.71	3.76	411.29	26.67	1985.08	1815.19	21.86	7.93
Farms	0.38	3.00	0.00	103.69	137.86	1.12	809.27	752.78	1989.40	787.26	33.72	7.74
Fernway	4.07	3.00	0.00	0.00	893.34	8.40	1299.34	1414.12	1968.27	1119.32	31.43	7.95
Ficquette-Thornal Sub No 2	1.33	3.00	0.00	121.23	242.03	5.43	240.27	29.52	1969.84	5693.49	36.42	7.79
Flamingo Shores	1.91	1.00	0.00	0.00	531.87	4.16	522.92	319.10	1958.33	357.92	26.21	5.85
Fleming Hgts	1.96	2.93	0.00	200.40	454.54	5.22	766.60	387.11	1980.45	620.74	25.98	7.93
Fleming Hgts Extended	0.58	4.05	19.83	200.40	454.54	2.05	341.15	426.67	1975.91	1172.19	25.11	8.56
Flemings D H Rev Add To Zellwood	0.48	3.24	41.82	0.00	130.57	1.06	145.06	4159.15	1960.48	1274.04	27.87	6.05
Fletchers Cove	3.31	3.15	100.00	20.22	922.76	7.68	1172.36	387.01	1986.42	1829.00	33.61	7.66
Folando Gardens	0.72	3.00	0.00	151.78	312.35	4.30	1460.63	51.80	1974.20	715.93	26.86	7.93
Floral Park Realty Co Sub	0.50	3.42	100.00	0.00	299.15	0.15	16.14	1063.54	1965.67	701.41	21.00	10.86
Florida Humus Co Indus Area Plat	0.03	2.97	0.00	510.73	5.50	0.00	431.10	2686.69	1963.67	1626.20	22.10	6.05
Florida Villas	5.57	3.00	0.00	27.34	550.14	7.94	1154.05	981.94	1985.69	2074.00	28.83	7.94
Flowers Manor	0.64	3.00	0.00	0.00	439.90	1.49	298.79	715.89	1974.88	93.16	20.42	6.51
Fontana Ests	0.94	1.00	0.00	0.00	115.94	0.29	4602.71	2658.09	2013.25	1506.22	20.76	7.81
Ford & Warren Sub	2.72	3.00	0.00	0.00	665.82	12.48	1462.68	126.55	1972.36	712.34	27.15	1.42
Forest Highlands	0.07	3.47	80.84	3.30	1372.96	11.43	37.59	739.77	1984.00	2510.72	27.95	8.52
Forrest Cove	2.10	3.00	100.00	498.41	922.76	7.31	1028.47	810.50	1980.07	2478.80	32.55	7.92

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Fort Christmas Retreat	0.42	4.04	0.00	0.00	4.99	0.18	30260.04	28579.45	1978.87	975.40	11.76	7.44
Fort Gatlin Hgts	1.82	1.00	0.00	40.05	716.10	4.30	411.52	414.14	1956.67	36.71	27.00	7.73
Fox Division	1.08	3.00	0.00	0.00	274.95	3.27	92.38	710.97	1989.44	6680.96	21.15	1.07
Fox Hunt Lanes Ph 1	5.62	3.31	100.00	0.00	1372.96	14.16	473.96	127.82	1983.94	1221.73	26.81	8.48
Foxborough	0.52	5.22	100.00	0.00	313.97	3.45	3156.80	2771.24	1982.40	1864.49	21.91	7.66
Foxborough 2Nd Add	0.78	3.00	100.00	0.00	313.97	2.65	3603.41	3415.26	1988.59	834.82	22.63	5.52
Foxborough 3Rd Add	0.78	3.56	100.00	0.00	465.05	3.16	3507.59	3418.76	1986.81	1387.36	21.42	6.09
Foxborough Farms	0.90	3.00	100.00	0.00	313.97	2.13	3776.98	3679.00	1991.07	688.62	20.52	5.60
Foxbower Manor	2.23	3.00	0.00	0.00	664.71	2.92	374.01	1160.54	1967.12	848.56	16.07	7.75
Foxbriar Country Ests	0.63	5.30	100.00	0.00	30.49	0.51	396.24	1748.13	1990.39	729.30	37.43	7.95
Franklin Estates	0.71	3.00	0.00	0.00	1054.18	4.86	78.74	179.01	1985.17	3740.30	25.33	7.75
Frisco Bay Ut 1	2.42	3.82	0.00	133.07	987.15	6.22	548.24	776.67	1988.95	364.54	33.58	5.36
Frisco Bay Ut 2	3.21	4.84	0.00	133.07	987.15	6.43	268.55	814.71	1988.81	320.20	35.31	6.39
Gaines Sub	0.37	3.34	5.11	0.00	178.19	1.30	1679.19	819.00	1960.00	1161.51	29.94	7.43
Garden Farms Sub	0.23	3.00	0.00	22.08	312.35	0.06	231.12	234.17	1974.11	1620.84	29.91	7.93
Gardenia Sub No 2	2.17	2.20	100.00	1677.36	481.07	3.43	197.33	1017.51	1978.00	1465.85	29.38	1.71
Gary Park	1.16	3.00	100.00	0.00	522.92	4.13	275.07	290.85	1972.52	673.63	20.47	2.08
Gatewood Ph 2	3.31	5.56	100.00	16.95	703.55	7.77	725.79	300.97	1985.62	2093.21	35.70	7.95
Gatlin With Hobbs	0.19	1.00	0.00	5.16	360.78	0.32	219.95	170.16	1977.82	524.47	30.04	4.71
Gatlin With Hobbs	0.74	1.04	0.00	0.00	576.00	3.40	1091.55	946.42	1969.25	54.01	27.29	6.91
Ghio Terrace 1St Sec	2.70	3.00	0.00	79.62	741.96	4.62	632.83	173.34	1962.23	1034.69	31.38	7.94
Gibons W C & J R Sub	0.51	4.00	100.00	0.00	57.72	0.53	5322.58	7234.93	1974.00	2355.70	40.40	6.37
Gibons W C & J R Sub	0.25	4.44	100.00	0.00	35.07	0.29	5671.15	8371.52	1976.80	2143.58	37.43	6.58
Glencoe Sub	2.18	1.00	0.00	70.31	523.43	3.78	162.28	1190.17	1955.31	656.25	29.14	6.35
Glencoe Sub Rep	1.90	3.00	0.00	70.31	544.49	4.87	38.27	784.97	1951.00	742.51	30.00	7.93
Glencoe Sub Sec 2	1.89	1.00	0.00	70.31	544.49	5.67	630.67	1284.08	1947.50	656.47	32.33	7.93
Glenmoor	2.44	3.00	100.00	0.00	1074.79	6.46	430.91	336.74	1988.92	739.41	23.37	2.12
Glenmuir Ut 1	1.51	3.29	0.00	0.00	218.61	3.44	579.08	737.12	2002.01	531.28	34.06	7.24
Glenmuir Ut 2	1.49	3.88	0.00	0.00	209.00	2.72	1954.64	686.75	2002.82	1693.35	33.07	7.81
Glenwood Oaks	2.85	3.00	100.00	0.00	1380.68	3.67	713.67	558.88	1985.07	1253.08	28.00	7.95
Golden Acres Sec B	0.11	1.00	0.00	0.00	739.70	5.15	40.25	188.84	1980.00	759.19	26.73	6.39
Golden Acres Sec B	0.09	2.93	0.00	345.07	1051.43	5.09	82.24	166.10	1987.90	3074.58	27.90	8.40
Good Homes Vista	2.83	4.86	100.00	140.24	741.05	6.02	208.13	419.89	2002.86	1114.83	34.97	7.95
Gore Sub	0.79	1.00	0.00	5.16	369.29	2.21	260.37	340.27	1962.20	16.35	28.05	5.21



Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Gotha Town Of	0.33	3.08	1.30	7.69	187.73	1.18	721.70	1042.97	1982.44	655.96	35.52	6.34
Gotha Town Of Rep	0.25	3.00	0.00	272.90	412.22	3.47	9.77	205.43	1956.50	2077.27	40.07	7.94
Gotha Town Of Rep	0.58	3.00	0.00	272.90	412.22	2.38	56.68	538.38	1983.86	1661.81	38.74	7.94
Graceland	0.95	3.66	100.00	15.98	699.31	2.71	528.00	1171.23	1990.84	549.85	27.24	6.97
Granada Villas Ph 1	3.86	3.00	0.00	0.00	783.44	5.71	226.13	586.41	1984.68	998.26	40.42	7.87
Granada Villas Ph 2	3.60	3.00	0.00	0.00	783.44	5.44	238.10	445.00	1985.63	1315.23	38.31	7.95
Granada Villas Ph 3	4.58	3.00	0.00	0.00	783.44	7.50	599.67	358.62	1986.83	1176.25	38.59	7.95
Grand Cypress Resort Ph 1	0.02	3.00	99.54	0.00	67.61	0.03	299.67	2088.14	1983.60	1467.50	30.20	5.96
Greater Country Estates Ph III	0.81	3.00	0.00	0.00	172.00	1.34	2687.89	1799.69	2006.17	1463.13	26.15	7.95
Greater Country Ests Ph 1	0.66	3.00	0.00	0.00	144.68	1.34	3475.62	2458.71	1991.37	1140.48	25.12	7.95
Green Fields	2.91	3.00	0.00	0.00	806.05	4.15	1629.87	1138.59	1961.40	1302.22	32.62	7.95
Greenhurst	0.03	3.00	100.00	0.00	61.88	0.00	373.97	1253.36	1997.00	1135.49	28.08	7.93
Greenleaf	1.44	3.88	0.00	414.94	755.36	2.79	129.43	244.21	1986.61	1555.91	44.30	6.00
Grenadier Woods	3.03	3.00	0.00	27.34	550.14	3.14	1222.16	1521.37	1985.64	1326.87	27.42	7.93
Griffiths Add	3.41	3.00	97.68	200.40	454.54	5.45	440.44	683.81	1955.04	1903.28	27.00	7.93
Grove Villa	3.79	3.00	0.00	0.00	1639.06	8.39	465.17	219.18	1960.31	1987.69	34.77	7.94
Gruchole Magdalene Sub	0.66	2.33	0.00	0.00	834.49	8.80	52.38	271.27	2002.00	2086.98	27.00	6.89
Gulfstream Shores	4.00	3.00	0.00	6.76	703.71	5.39	332.61	429.76	1988.20	3865.85	28.00	5.82
Hacindas Bonita Del Pinos	0.27	4.54	0.10	70.29	42.97	0.34	13940.94	12996.22	1965.75	2259.15	23.58	7.29
Hall Ests	1.08	5.84	100.00	30.53	778.91	5.94	1033.78	1058.97	2009.83	2971.18	37.83	7.95
Hamlin Hgts	0.90	6.00	100.00	20.22	922.76	7.24	246.88	151.15	2007.58	1708.91	31.10	7.95
Hamptons	1.58	1.45	0.00	0.00	794.58	4.31	922.86	439.50	1994.52	770.72	30.90	3.46
Handsonhurst	2.61	3.00	0.00	0.00	762.79	4.56	519.07	238.41	1952.18	1511.13	30.97	7.95
Handsonhurst Park 1St Add	3.40	3.00	0.00	155.87	844.26	4.64	199.17	206.25	1980.48	1217.26	29.67	7.95
Hansel E W Add	0.65	1.00	0.00	495.87	376.16	0.00	277.66	69.55	1957.29	1108.85	29.86	2.66
Harbor Hgts Ph 2	5.45	4.85	0.00	3.06	1054.56	11.91	115.49	345.40	1983.40	1765.38	38.65	7.95
Harbor Isle	0.80	3.00	0.00	0.00	226.54	1.79	576.30	924.08	2000.25	428.17	41.43	6.03
Harbor Isle Ut 2	0.93	3.00	0.00	0.00	226.54	1.30	677.91	1031.58	2001.80	764.85	46.94	5.97
Harbour Island Sub	0.84	1.00	0.00	40.05	489.70	1.92	1259.68	921.13	1981.08	62.92	26.00	6.90
Harney Homestead	0.54	2.59	0.00	495.87	433.55	2.31	550.02	785.92	1964.44	791.81	28.55	0.64
Harney W R Sub	0.26	1.00	0.00	8539.41	376.16	1.34	414.16	131.94	1953.43	1218.44	29.74	6.66

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Harrell Hgts	0.60	3.02	17.50	0.00	350.19	2.73	48.33	340.46	1978.45	625.07	17.41	3.67
Harrell Hgts Rep	1.74	3.00	0.00	0.00	928.74	3.19	298.71	459.52	1979.67	942.84	18.40	0.79
Hartzog Sub	0.20	3.00	0.00	0.00	30.56	0.00	5459.30	563.88	1991.50	0.00	33.34	6.87
Heatherwood	2.77	3.00	100.00	0.00	924.83	7.23	669.36	242.42	1988.97	1649.48	32.58	7.95
Henderson & Mcdonald Sub	1.54	1.00	100.00	1.82	624.01	4.28	283.84	1388.41	1959.50	1163.56	28.33	7.93
Henderson Shores	1.50	1.00	93.78	672.69	624.01	5.69	12.32	1905.95	1959.27	133.75	26.95	7.49
Hewett Hgts	2.41	2.17	0.00	134.03	340.23	5.46	473.21	415.74	1966.84	548.58	29.73	7.93
Hi-Alta Sub	0.22	3.42	100.00	0.00	59.76	0.19	290.52	654.90	1985.86	3320.81	39.34	8.04
Hiawassa Highlands	3.50	3.00	100.00	0.00	1045.94	8.40	75.16	455.81	1962.13	1781.96	30.47	7.95
Hiawassa Highlands 1St Add	3.43	3.00	100.00	0.00	1045.94	10.68	152.26	217.78	1963.82	1670.60	36.59	7.95
Hiawassa Highlands 2Nd Add	3.10	3.00	100.00	0.00	1045.94	8.53	220.20	452.40	1967.90	927.96	35.21	7.95
Hiawassee Hills Ut 2	2.11	5.09	100.00	0.00	636.36	6.39	1409.75	668.20	1984.41	1737.24	29.44	7.35
Hiawassee Hills Ut 3	1.98	3.00	100.00	0.00	699.31	6.66	1819.86	804.81	1986.00	1443.14	22.56	7.85
Hiawassee Hills Ut 4	2.70	3.23	100.00	848.30	699.31	7.37	1652.32	895.01	1986.41	648.08	31.28	7.71
Hiawassee Landings Ut 1	3.41	2.58	100.00	0.00	1132.79	7.42	249.38	1592.14	1986.46	1178.98	33.15	7.42
Hiawassee Landings Ut 2	5.01	4.23	100.00	104.40	1132.79	9.47	243.15	1398.33	1989.05	2047.99	30.17	7.08
Hiawassee Meadows Ph 1	3.28	3.79	100.00	15.98	869.39	7.93	476.29	841.87	1986.64	1409.74	23.19	7.67
Hiawassee Oaks	2.72	3.29	100.00	15.98	699.31	5.20	777.05	450.98	1988.54	1180.57	30.53	7.94
Hiawassee Oaks Ut 2	1.84	3.11	100.00	15.98	699.31	3.06	1388.26	1152.01	1989.11	400.19	24.41	6.15
Hiawassee Oaks Ut 3	1.70	4.35	100.00	848.30	782.07	4.96	995.01	775.75	1990.45	494.99	35.62	5.53
Hiawassee Oaks Ut 5	2.83	4.26	100.00	0.00	782.07	7.35	1539.70	621.32	1993.31	1154.50	31.07	7.74
Hiawassee Point	4.34	3.73	100.00	0.00	1380.68	10.10	576.77	662.88	1989.13	860.58	32.33	7.95
Hiawassee Villas	4.83	3.24	100.00	0.00	801.81	3.64	357.51	231.51	1987.52	1690.79	32.47	7.95
Hickory Lake Ests	0.31	3.00	45.56	0.00	5.76	0.04	1134.25	893.60	1983.81	15.28	30.62	3.71
Hidden Ests	2.44	5.55	0.00	0.00	682.42	5.79	774.33	644.65	1985.99	753.67	50.04	12.47
Hidden Springs Ut 2	1.90	5.31	0.00	0.00	682.42	5.95	1520.50	1428.03	1982.20	431.58	47.13	8.08
Hidden Springs Ut 5	2.02	6.00	0.00	0.00	651.15	4.83	636.74	382.56	1986.09	471.27	47.88	18.77
Hideaway Cove	0.19	3.00	0.00	0.00	223.86	0.78	1495.46	1037.78	2010.33	149.50	29.64	3.41
Hideaway Cove First Replat	0.09	3.00	0.00	0.00	223.86	0.62	1231.09	1391.21	2011.00	75.87	29.43	2.89
Highland Ests	1.10	3.60	100.00	0.00	331.05	4.04	2316.39	1212.94	1981.00	1674.04	38.67	12.17

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Highlands North	0.13	4.80	100.00	0.00	25.25	0.15	10079.28	9251.93	1987.13	2302.81	44.66	8.34
Highlands North 2	0.16	6.00	100.00	0.00	33.17	0.15	8991.43	8173.27	2003.13	2056.42	48.66	19.99
Hilltop Stable Sub	0.27	4.53	100.00	4.94	9.07	0.55	27.02	1307.13	1994.57	661.81	36.80	7.95
Hoenstine Ests	1.34	3.00	100.00	9217.67	554.54	2.71	233.90	419.06	1983.23	5357.07	28.00	7.93
Holden Manor	5.18	3.00	0.00	102.04	870.30	4.53	740.19	768.48	1990.18	622.19	30.74	7.93
Holden Park	2.75	3.00	6.93	1917.58	470.19	6.43	459.69	476.18	1965.88	329.42	29.79	7.03
Holden Shores	1.57	3.00	0.01	0.64	402.60	5.00	938.08	903.22	1951.28	441.45	30.88	6.70
Holiday Hgts	2.95	3.00	100.00	7928.67	623.01	4.54	995.69	377.57	1972.62	717.52	24.37	7.93
Holly Creek	0.81	3.00	0.00	0.00	158.11	2.74	184.23	478.30	1994.59	1300.53	24.50	7.95
Holly Street Sub	1.81	3.00	0.00	0.00	144.68	1.34	2327.94	1203.33	2005.80	2538.22	25.19	7.94
Horseshoe Bend Sec 2	2.47	1.32	100.00	15.98	837.68	5.91	638.07	685.25	1985.09	415.79	26.93	6.36
Hudson Isles 1St Add	0.92	6.00	62.66	244.73	672.03	2.26	1416.44	1640.63	1978.73	0.04	29.16	6.75
Hudson J A Add To Victoria	0.01	3.00	6.85	0.00	1.95	0.02	7809.38	6987.94	1966.00	4770.52	27.74	5.16
Hudson Shores	0.52	3.00	51.80	102.04	796.38	3.26	1337.77	983.50	1955.67	50.26	29.52	3.75
Hull Island At Oakland	1.23	3.00	100.00	129.67	144.95	0.30	9171.31	9394.17	2021.34	730.48	22.94	7.95
Hull Island At Oakland	0.33	3.00	100.00	0.00	111.41	0.78	9778.27	9914.73	2025.67	195.70	20.78	5.47
Hull Island Ests	1.19	3.00	100.00	0.00	111.41	3.09	9602.46	9952.43	2002.67	0.00	21.23	7.12
Hull Island Ests 1St Add	1.02	5.10	100.00	112.18	144.95	3.54	7984.28	8173.79	1982.33	1421.45	34.97	7.92
Hull J C Sub	0.40	3.00	62.38	155.87	844.26	2.28	2149.54	26.76	1941.88	0.00	25.92	3.79
Hunter Land Co Sub	0.16	2.82	100.00	13922.95	380.01	1.24	1138.58	352.28	1975.00	4473.87	28.00	7.89
Hunters Creek Tr 415	0.01	3.00	100.00	2080.39	1403.94	13.42	358.91	230.08	1999.00	1665.94	26.16	7.59
Hunters Ests	0.84	5.55	0.00	43.49	386.64	2.81	1087.46	716.32	1984.61	882.86	50.62	13.06
Huntley Park	5.98	5.47	100.00	106.23	682.42	6.94	1122.03	1016.62	1986.65	1264.11	28.47	7.92
Hunts Park	1.73	3.00	100.00	103.99	332.48	4.70	285.03	1005.23	1973.00	326.86	28.70	7.59
Innisbrook	0.42	3.00	0.00	0.00	47.62	0.11	6456.25	5231.79	1999.00	232.47	17.90	7.94
Innisbrook	0.69	3.00	0.00	0.00	14.14	0.11	6916.64	5853.15	1996.84	925.99	17.55	2.28
Interlaken	0.65	1.00	66.07	0.00	557.01	1.89	812.74	544.91	1966.06	20.15	27.07	5.40
Interlaken Add	0.59	1.00	66.16	3.58	557.01	1.76	712.75	512.81	1961.70	11.61	26.54	5.48
Inwood Haven	1.43	3.00	0.00	0.00	699.50	4.87	292.31	218.53	1990.67	46.88	26.08	7.07
Inwood Landing	1.91	3.00	0.00	0.00	861.99	4.87	336.73	355.35	1987.92	338.94	28.11	6.10
Irma Shores Rep	2.33	3.50	9.74	5.65	482.87	2.69	521.62	351.04	1974.78	249.59	19.96	4.85
Irwin Manor	2.56	3.00	0.00	1014.75	490.91	2.32	49.37	237.20	1961.62	1547.52	28.00	7.93
Isle Of Bali 2 Condo Ph 8	0.52	3.00	0.00	0.00	11.54	0.03	7488.16	2079.29		223.23	34.00	7.95
Isle Of Pines	0.34	1.91	52.34	0.00	180.47	0.90	11967.38	11941.09	1986.85	74.91	17.37	8.56



Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Isle Of Pines	1.35	1.03	0.00	0.00	180.47	1.35	13032.75	13006.94	1980.72	829.38	18.88	8.19
Isle Of Pines 1St Add	1.24	1.16	0.00	0.00	180.47	1.41	13558.65	13532.87	1995.50	1190.90	19.07	7.95
Isle Of Pines 2Nd Add	1.85	1.00	0.00	0.00	204.72	1.42	13762.81	13736.69	1990.90	855.16	19.20	7.94
Isle Of Pines 3Rd Add	1.20	1.09	17.54	0.00	204.72	1.64	13485.38	13459.04	1984.72	760.20	19.15	6.77
Isle Of Pines 4Th Add	1.08	1.19	39.56	0.00	204.72	0.99	13157.75	13124.88	1982.78	395.05	18.24	5.02
Isle Of Pines 5Th Add	0.93	1.22	33.17	0.00	204.72	1.56	13281.46	13228.83	1989.07	517.61	18.33	6.73
Isle Of Pines 6Th Add	1.25	1.00	23.97	0.00	221.11	2.28	14802.13	14611.02	1987.38	698.58	18.97	5.73
Isles Of Buena Vista Ut 1	0.04	1.00	100.00	0.00	398.54	1.08	214.52	3689.33	2000.00	5225.50	26.86	7.93
Isles Of Lake Hancock	0.55	3.00	0.00	0.00	60.68	0.51	630.20	339.19	2000.50	122.91	30.30	5.51
Isles Of Lake Hancock Ph 2	0.05	3.00	0.00	0.00	60.68	0.21	512.03	70.75	2011.20	263.29	29.94	5.09
Isles Of Windermere	0.68	3.00	0.00	0.00	183.00	1.02	1288.81	506.12	2003.08	322.41	34.00	7.93
Isleworth	0.32	2.87	7.47	0.00	101.22	0.69	2561.88	2389.26	1993.35	266.49	32.63	5.36
Isleworth 1St Amnd	0.46	3.00	0.00	0.00	101.22	0.63	4220.38	3524.83	2005.00	297.49	33.89	7.90
Isleworth 1St Amnd	0.95	3.52	0.00	0.00	121.92	1.17	2803.59	1935.91	2000.20	221.24	31.33	7.01
Isleworth 1St Amnd	0.91	3.00	0.00	1.35	143.71	0.95	2793.76	2048.16	2001.50	380.82	34.96	6.87
Isleworth 2Nd Amnd	0.30	3.00	0.00	4.23	105.95	0.50	6377.90	5943.61	1999.00	174.67	31.41	5.11
Isleworth 3Rd Amnd	0.16	3.00	0.00	1.35	143.71	0.53	2241.06	1407.00	2010.00	274.53	35.85	3.95
Isleworth 4Th Amnd	0.09	3.00	0.00	1.35	482.54	0.66	1551.35	1159.22	2024.00	415.98	37.35	2.98
Isleworth 5Th Amnd	0.05	3.00	0.00	1.35	499.43	0.36	1694.81	1720.80	2035.00	83.64	32.25	2.09
Isleworth Sixth Amnd	0.10	3.00	0.00	1.68	105.95	0.40	4988.24	4482.02	1998.00	0.00	32.88	5.36
Isleworth West	0.45	4.60	0.00	4.23	157.84	1.08	5680.22	4688.78	2004.13	190.96	32.37	7.89
J B Babcocks Sub	0.05	3.55	92.24	0.00	18.73	0.38	8441.57	8924.15	1993.00	211.37	21.96	6.52
J L M Condo	6.45	3.00	100.00	0.00	1599.69	3.42	95.74	47.55	1988.00	125.28	26.00	7.92
Jamajo	2.32	5.93	90.65	0.00	577.44	6.26	296.54	498.78	1962.91	816.85	31.80	8.68
Jamajo Rep	2.28	3.00	100.00	0.00	577.44	6.74	437.19	37.27	1966.17	861.43	30.64	7.93
Jb & Te Walker Sub	1.18	3.00	100.00	486.46	542.36	3.45	655.78	1066.88	1963.57	539.95	25.71	6.03
Jenny Jewel Point	3.44	1.00	0.00	1760.67	821.19	5.03	290.46	1354.17	1984.50	514.57	32.18	7.95
Jewel Oaks	1.57	1.00	0.00	1760.67	821.19	3.63	952.36	884.18	1960.61	352.35	29.81	5.49
Jewel Shores	2.82	1.13	0.00	1760.67	821.19	4.98	254.87	1075.61	1959.07	496.97	31.34	7.81
John Heist Estates	0.61	3.41	100.00	0.00	10.91	0.50	9604.41	8472.89	1975.78	54.12	19.79	12.37
John Young Commerce Ctr	0.18	3.00	0.00	64.78	260.35	0.03	226.40	122.17	1992.75	1207.57	30.00	7.95
Johnny Park	2.14	3.00	0.00	0.00	1248.04	10.26	628.67	153.58	1975.48	1391.42	21.00	0.82

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Johns Cove	1.54	5.40	0.00	2113.05	166.58	2.70	7236.09	6490.94	2004.28	200.63	36.77	7.94
Johns J Sub	3.69	1.00	0.00	495.87	433.55	3.85	318.78	910.03	1998.89	1089.94	28.63	0.56
Johns Lake Homesites	1.86	5.78	0.00	112.18	166.58	1.71	5814.63	5078.05	1978.63	22.14	29.81	7.88
Johns Lake Homesites 1St Add	2.03	6.00	0.00	112.18	166.58	4.76	5889.77	5068.25	1980.76	367.64	39.92	7.95
Johns Landing Ph 1	2.13	3.96	9.64	112.18	396.89	5.38	5449.21	4511.82	2003.54	632.36	39.42	7.24
Joseph Jebailey Sub	0.31	3.00	0.00	0.00	226.54	1.07	2407.88	2710.22	1994.60	290.81	35.64	3.20
Joslin Grove Park	3.83	4.83	0.00	354.59	780.71	8.10	571.49	935.76	1984.36	468.56	29.49	7.01
Justamere Camp Rep	1.59	1.00	0.00	70.31	562.32	3.79	454.27	1197.53	1967.55	299.80	27.41	4.97
Karolina On Killarney	3.90	1.00	0.00	0.00	523.43	7.11	568.51	525.33	1954.94	667.43	26.91	7.92
Kates J J Sub	1.09	3.00	100.00	3068.67	747.40	4.54	162.33	250.28	1967.12	2358.45	28.00	7.93
Keen Castle	2.24	3.00	0.00	495.87	433.55	4.06	429.52	353.52	1967.98	1631.87	29.48	0.36
Keen Theron H Sub	0.65	3.00	100.00	0.42	190.51	1.03	304.98	399.38	1993.67	702.42	36.19	7.93
Keenes Pointe Ut 1	0.72	3.16	0.00	114.93	165.59	1.30	2858.22	2361.80	2000.96	1302.04	33.43	6.87
Keene'S Pointe Ut 10	0.61	3.00	0.00	114.93	133.83	0.98	4319.70	4056.16	2013.05	228.39	31.04	3.61
Keenes Pointe Ut 10 First Rep	0.05	3.00	0.00	114.93	133.83	0.99	5005.81	4517.12	2009.00	0.00	29.72	4.50
Keenes Pointe Ut 2	2.30	3.00	0.00	1036.73	139.09	1.08	3323.46	2377.39	2003.10	808.60	32.51	7.93
Keenes Pointe Ut 2	1.02	3.00	0.00	114.93	133.83	0.95	4964.18	4547.39	2002.28	302.93	32.35	6.68
Keenes Pointe Ut 2	2.37	3.00	0.00	114.93	254.78	1.08	3400.30	2484.43	2004.14	1979.54	34.00	7.94
Keenes Pointe Ut 2	1.59	3.00	0.00	1036.73	263.57	2.13	1280.67	896.12	2004.78	186.01	32.84	4.99
Keenes Pointe Ut 3	1.98	3.00	0.00	114.93	139.09	1.08	3729.59	2736.20	2006.29	719.01	31.87	7.92
Keenes Pointe Ut 3	0.70	3.00	0.00	0.00	118.09	0.92	3602.51	3475.70	2005.67	813.38	32.69	6.47
Keenes Pointe Ut 3	0.35	3.00	0.00	4.21	164.17	1.19	3736.01	3495.77	2006.75	197.71	30.60	6.89
Keenes Pointe Ut 4 (Sec 31)	2.88	3.00	0.00	0.00	603.81	7.01	481.29	410.46	2003.00	329.22	33.30	2.96
Keenes Pointe Ut 5	1.85	3.38	0.00	0.00	254.78	1.18	3113.59	1986.11	2006.73	2523.76	34.13	7.95
Keenes Pointe Ut 6 (Sec 30)	2.04	3.00	0.00	1036.73	139.09	1.18	2556.68	1563.98	2004.50	567.03	33.00	7.94
Keenes Pointe Ut 6 (Sec 30)	2.80	3.00	0.00	0.00	139.09	1.08	1991.77	1609.35	2002.43	906.42	33.00	6.51
Keenes Pointe Ut 6 (Sec 31)	1.71	3.00	0.00	0.00	157.32	1.08	387.74	2194.07	2004.35	1548.03	32.13	6.80
Keenes Pointe Ut 7	2.36	3.74	0.00	1036.73	254.78	0.93	2557.03	1624.14	2006.23	1431.99	35.40	7.10
Keenes Pointe Ut 7	2.27	4.04	0.00	0.00	254.78	4.02	1703.23	669.57	2004.91	1746.04	34.88	7.95

Appendix A  
**DRAFT**  
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Keenes Pointe Ut 8	1.36	3.53	0.00	1036.73	254.78	1.18	1638.47	717.94	2006.77	813.01	34.14	7.49
Keenes Pointe Ut 9	2.48	5.53	0.00	0.00	254.78	3.48	1896.12	583.94	2005.91	2213.50	35.21	7.77
Kelly Park Hills South Ph 2	2.92	3.98	100.00	1700.20	662.55	6.43	1083.79	1553.48	1995.02	6141.44	33.49	7.95
Kelly Park Hills South Ph 4	3.46	5.51	100.00	1700.20	662.55	6.81	1147.81	1016.88	1996.51	6544.37	34.79	7.95
Kelly Park Hills Ut 3	1.78	4.65	100.00	0.00	189.79	4.07	1383.36	3321.64	1990.30	4238.74	38.35	7.95
Kelly Park Hills Ut 4	2.40	4.81	100.00	0.00	189.79	5.33	1860.24	3904.60	1990.14	3720.18	35.76	7.93
Kelso On Lake Butler	0.47	4.62	0.01	26.06	128.84	0.93	1530.13	1601.76	1988.83	25.20	31.18	4.41
Kensington Sec 1	2.48	4.86	100.00	104.40	1132.79	8.88	1138.97	1047.73	1985.83	2349.22	30.24	7.20
Kensington Sec 5	1.48	2.46	100.00	0.00	1132.79	4.33	919.17	978.06	1992.27	460.03	26.10	4.93
Kentzelmans Rep	1.95	3.82	100.00	0.00	261.60	6.03	964.17	1073.50	1974.11	2581.73	28.90	7.54
Killarney Circle	3.29	1.00	0.00	70.31	425.65	5.00	267.74	464.14	1966.77	201.19	28.29	7.91
Kings Cove	6.35	3.00	0.00	27.34	550.14	4.21	852.64	628.01	1983.28	1315.02	29.55	7.93
Klondike	1.91	1.00	0.00	200.40	454.54	2.77	385.70	562.82	1973.84	667.05	27.32	7.93
Knollwood Park	1.06	3.21	100.00	0.00	381.97	2.33	617.89	734.07	1980.23	2287.07	17.49	6.57
Krick Sub	1.52	3.00	8.69	64.78	240.74	0.00	184.50	39.49	1950.00	1274.30	30.00	7.95
Lafayette Club	2.16	5.67	0.00	1.84	426.08	2.08	2394.97	1796.65	1996.82	350.66	41.96	11.32
Lago De Oro Condo Ph 1	1.47	2.27	0.00	18.17	609.87	3.58	103.27	54.50	2007.00	1658.39	27.04	4.56
Lago De Oro Condo Ph 2	33.64	3.00	0.00	0.00	609.87	3.58	85.01	137.48	2007.00	1854.16		7.34
Lake And Pines Ests	0.12	1.03	0.00	0.00	75.20	0.87	15303.09	15276.38	2000.08	2092.02	20.31	7.93
Lake Apopka 1St Add	2.66	3.00	100.00	20.69	256.83	5.66	1756.35	1965.71	1964.88	942.33	27.63	7.81
Lake Apopka 2Nd Add	2.34	3.00	100.00	20.69	256.83	3.43	1961.52	1575.73	1977.95	1398.53	30.87	7.64
Lake Apopka Beach Rep	1.77	3.00	100.00	20.69	256.83	4.68	2338.48	1801.21	1964.72	451.63	23.87	6.62
Lake Avalon Ests 2Nd Rep	0.17	3.00	0.00	0.00	50.24	0.30	1316.67	1316.67	1962.00	0.00	29.22	3.07
Lake Avalon Groves Rep	0.11	4.68	0.00	0.00	19.23	0.25	1110.17	1477.81	1989.03	1199.03	42.87	7.95
Lake Avalon Groves 2Nd Replat	0.19	4.72	0.00	0.00	48.28	0.47	5816.91	5803.14	1992.83	2700.30	35.20	7.89
Lake Avalon Groves Rep	0.06	4.61	0.00	0.00	17.49	0.17	3276.55	2706.38	1991.29	3453.84	41.43	7.87
Lake Avalon Hgts	0.33	4.06	0.00	0.00	50.24	0.48	2413.36	2409.30	1981.32	8.21	30.84	5.92
Lake Barton Manor 1St Add	0.82	3.00	100.00	3068.67	747.40	3.16	115.04	135.37	1967.25	2175.36	28.00	7.94
Lake Barton Park	1.84	3.00	100.00	134.03	747.40	10.76	274.28	118.14	1961.17	399.51	28.92	7.17
Lake Barton Shores Sec 1	0.88	5.06	88.67	0.00	577.44	2.69	953.11	983.71	1958.11	934.30	31.18	9.10
Lake Bell Terrace	2.20	3.00	0.00	0.00	605.40	3.43	873.86	566.45	1957.77	294.80	26.69	5.73
Lake Bosse Oaks	2.38	3.00	100.00	0.00	600.46	5.91	484.63	355.62	1983.81	727.58	23.73	6.19
Lake Bryan Shores	0.26	3.00	32.65	377.10	490.32	1.02	1170.57	1078.02	1974.67	6.94	29.67	2.12



Appendix A  
**DRAFT**  
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Lake Buynak Ests	0.56	3.00	0.00	0.00	183.00	1.00	1743.97	1256.09	1978.64	260.21	34.96	7.76
Lake Cane Ests	2.93	5.58	0.00	602.64	516.08	6.04	2124.29	1085.09	1973.04	574.59	38.79	11.84
Lake Cane Hills	1.90	3.79	0.00	602.64	516.08	3.91	2236.40	1718.87	1964.79	204.48	36.78	6.19
Lake Cane Hills 1St Add	2.98	6.00	0.00	602.64	601.55	7.12	1270.89	953.98	1966.36	690.83	39.35	12.07
Lake Cane Shores	0.67	4.30	0.00	602.64	67.21	2.40	1408.07	1049.23	1971.35	27.20	32.15	9.23
Lake Cane Villa	1.24	5.94	0.00	0.00	743.89	1.50	775.35	372.51	1960.00	165.46	34.83	7.17
Lake Cawood Ests Ph 2	0.77	4.38	0.00	0.00	261.21	2.18	551.50	657.46	2007.06	561.39	35.18	7.95
Lake Cawood Ests Rep	0.85	3.21	0.00	0.00	261.21	2.14	676.64	997.81	2003.15	234.68	33.30	7.95
Lake Clarice Plantation	0.61	3.00	0.00	103.69	137.86	1.12	1355.19	1489.15	2016.57	187.67	34.12	5.21
Lake Cortez Woods	2.27	4.46	100.00	1649.57	780.99	4.85	234.64	201.00	1985.55	282.68	29.04	6.37
Lake Cypress Cove	0.35	3.00	0.00	26.06	132.98	0.99	856.22	1009.58	2000.50	0.00	32.24	4.86
Lake Cypress Cove Ph 2	0.60	3.00	0.00	26.06	132.98	0.99	348.94	524.61	2014.90	527.36	32.90	6.75
Lake Cypress Cove Ph 3	0.65	3.00	0.00	26.06	132.98	0.99	1286.30	1450.17	2015.00	355.02	33.07	7.84
Lake Davis Ests	0.58	4.08	0.00	68.72	171.97	0.82	2663.63	2446.79	2004.40	123.51	33.42	7.02
Lake Davis Reserve	0.41	3.00	0.00	26.06	171.97	0.49	2195.14	2315.27	2017.44	113.81	32.91	3.60
Lake Down Cove	0.82	3.00	0.00	0.00	371.41	2.71	2103.94	778.11	1999.47	1431.07	46.55	7.95
Lake Down Crest	0.80	3.00	0.00	0.00	456.88	2.80	540.51	1139.79	1999.50	2035.57	54.55	6.62
Lake Down Hollow	0.48	3.00	0.00	100.76	220.15	1.44	1287.35	1265.19	1985.67	348.78	34.92	5.08
Lake Down Pointe	0.25	3.00	0.00	0.00	226.54	1.23	2062.11	2378.39	2005.25	299.80	35.63	3.17
Lake Down Shores	0.73	3.00	0.00	0.00	259.79	0.91	3500.48	2863.11	1989.67	0.00	29.77	3.50
Lake Down Shores Rep	0.45	3.00	0.00	0.00	371.41	1.17	2165.99	1602.81	1988.33	218.39	32.15	3.74
Lake Drawdy Ests	0.78	3.00	0.00	205.12	47.62	0.52	5739.32	4507.84	1992.63	502.70	17.26	3.30
Lake Drawdy Reserve	0.71	3.25	0.00	12.39	35.04	0.11	3378.35	2450.58	2012.82	202.86	18.34	3.06
Lake Drawdy Terrace	0.95	3.00	0.00	12.39	14.14	0.11	5144.93	4102.58	1995.50	320.92	17.30	6.46
Lake Fischer Ests	2.81	3.39	0.00	529.91	122.64	4.08	1168.34	934.82	1999.90	627.45	36.81	7.17
Lake Florence Ests	2.52	5.56	100.00	0.24	741.05	5.42	1010.87	695.73	1983.87	504.13	27.84	7.95
Lake Florence Highlands Ph 1	2.62	5.28	100.00	0.24	868.56	6.51	480.68	283.11	1987.24	151.64	30.48	7.49
Lake Florence Highlands Ph 2	2.51	6.00	100.00	0.24	530.82	6.39	1033.01	862.54	1988.15	722.31	31.75	7.95
Lake Gandy Cove	3.43	3.00	100.00	166.05	555.66	6.99	1207.73	1024.52	1988.94	417.16	25.23	7.94
Lake Gandy Ests	1.42	3.00	100.00	166.05	555.66	3.50	921.87	613.38	1983.21	87.58	24.08	5.35
Lake Gandy Shores	2.08	3.00	100.00	166.05	839.94	4.76	967.03	668.18	1988.00	132.22	23.44	7.11
Lake Georgia Shores	0.62	4.88	51.04	28.64	390.47	1.35	972.30	855.90	1972.46	0.00	17.61	8.98

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Lake Hancock Shores	0.25	3.00	0.00	0.00	118.23	0.37	49.64	812.42	1995.30	0.00	28.66	2.79
Lake Hiawassa Terrace Rep	2.02	3.00	0.00	3.06	671.05	6.23	50.81	251.52	1973.86	1050.53	35.02	5.54
Lake Hiawassa Terrace Rep	1.79	3.00	0.00	16.88	671.05	3.86	79.85	222.10	1972.50	793.68	31.08	5.54
Lake Hiawassa Terrace Rep	1.60	3.00	0.00	16.88	671.05	6.23	605.22	291.13	1955.00	29.97	24.75	5.28
Lake Hill	2.51	3.22	0.00	113.67	486.78	5.10	266.43	436.29	1974.15	1053.64	39.53	7.95
Lake Hill Groves Rep	0.74	3.00	0.00	22.08	486.78	3.38	22.35	32.53	1940.00	782.15	36.00	7.95
Lake Holden Gardens	2.18	3.00	14.15	102.04	470.19	3.40	903.91	838.03	1960.12	311.81	30.41	6.10
Lake Holden Grove	1.29	1.00	34.46	244.73	363.72	3.02	1379.44	605.29	1980.68	296.15	30.28	4.74
Lake Holden Hills	0.73	1.07	5.84	244.73	470.19	3.41	944.08	623.23	1961.13	154.67	28.96	7.14
Lake Jennie Jewell Hgts	2.26	1.00	0.00	1760.67	821.19	5.23	612.03	1239.57	1950.49	419.44	32.36	7.72
Lake Johns Shores	1.27	4.91	0.00	1275.96	321.97	0.39	3052.69	2939.37	1973.69	449.55	34.56	7.52
Lake Lovely Ests	3.59	3.00	100.00	0.00	286.22	6.49	488.11	784.43	1970.82	524.67	29.70	0.71
Lake Lovely Ests 1St Add	2.98	3.00	100.00	0.00	286.22	4.57	745.21	153.95	1968.75	413.15	29.00	0.65
Lake Lucy Ests	2.16	5.87	100.00	20.52	530.82	2.11	1647.04	1570.45	2002.39	424.55	26.44	7.89
Lake Mabel Shores Sub	0.17	3.00	0.00	0.00	223.86	0.14	1070.19	386.41	1987.62	23.21	29.51	2.27
Lake Maggiore Ests	1.53	3.00	100.00	79.28	99.58	2.90	482.73	3848.55	1983.89	267.90	27.31	5.70
Lake Marsha 1St Add	0.64	5.91	0.00	0.00	651.15	2.38	1769.15	1518.89	1976.45	3.90	40.54	6.20
Lake Marsha 1St Add Rep	0.37	3.38	0.00	5.33	651.15	1.32	1847.63	1431.84	1971.50	0.00	38.21	2.40
Lake Marsha 2Nd Add	2.26	6.00	0.00	602.64	601.55	4.92	2165.99	1551.35	1976.88	403.96	41.00	12.18
Lake Mary Jane Ests Rep	0.30	1.00	45.75	3.59	180.47	0.93	10948.48	10922.75	2010.33	0.00	17.00	7.53
Lake Mary Jane Ests Rep	1.15	1.00	0.00	0.00	180.47	1.97	12057.06	12031.45	2008.50	630.13	18.80	7.95
Lake Mary Jane Ests Rep	0.57	1.00	0.00	3.59	180.47	1.05	11924.37	11898.95	2011.67	458.27	18.31	7.95
Lake Mary Jane Shores	0.45	1.02	0.01	3.59	71.11	0.81	9681.62	9657.57	1980.23	11.22	18.02	8.13
Lake Mary Jess Shores	1.54	1.00	0.00	8539.41	531.81	3.31	922.54	342.76	1982.96	233.26	29.03	2.13
Lake Mendelin Ests	2.31	2.91	100.00	941.82	780.99	4.90	734.07	1110.65	1979.02	408.83	23.62	6.44
Lake Mendelin Ests 1St Add	2.47	3.75	100.00	0.00	780.99	6.05	857.46	850.01	1980.90	631.91	34.15	8.75
Lake Mendelin Ests 2Nd Add	3.00	3.00	100.00	0.00	780.99	7.10	821.23	730.06	1979.25	1349.09	38.68	7.97
Lake Of Pines	2.01	3.00	100.00	1686.69	694.84	6.58	656.28	2150.47	1980.00	253.51	40.00	7.90
Lake Ola Ests	0.32	3.00	0.00	0.00	144.68	1.24	4390.51	3334.36	1992.20	6.25	22.90	7.94

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Lake Ola Farms Groves	0.36	3.07	2.13	0.00	65.86	0.70	6269.18	5139.52	1964.37	276.34	24.97	7.03
Lake Park Highlands	0.19	2.58	100.00	0.00	125.98	1.06	1017.60	1132.88	1984.25	79.71	26.14	5.68
Lake Park Highlands	0.21	4.59	100.00	20.52	558.79	2.53	580.73	637.93	1965.74	113.51	26.83	3.75
Lake Pickett Reserve	0.64	1.00	0.00	0.00	20.95	0.11	6650.40	4718.53	2016.65	495.34	18.27	2.54
Lake Pine Loch Hgts	0.29	3.00	0.00	400.45	821.19	1.41	45.05	545.67	1938.67	98.16	29.57	2.65
Lake Roper Pointe	0.71	3.00	0.00	103.69	269.48	2.18	1792.50	1151.30	2001.71	241.28	32.56	6.55
Lake Rose Pointe	2.13	3.00	0.00	0.00	569.88	5.25	322.52	1668.35	1985.70	533.01	33.66	5.77
Lake Rose Ridge Rep	2.02	5.00	0.00	0.00	757.96	3.75	345.09	1001.28	1990.33	361.81	33.98	7.03
Lake Rouse Ests	0.74	3.00	100.00	0.00	419.85	3.42	801.18	697.48	1969.14	1049.79	19.87	7.60
Lake Sheen Ests	0.71	3.08	0.00	0.00	131.10	0.80	400.16	339.15	1999.43	163.46	31.58	5.40
Lake Sherwood Cove	0.87	3.71	0.00	354.59	1089.31	1.14	438.19	1330.24	1990.00	402.54	31.85	6.39
Lake Sherwood Hills Ph 3 Ut 1	4.43	4.90	100.00	0.00	596.13	2.80	1427.75	1516.70	1985.18	438.11	34.08	5.90
Lake Sherwood Hills Ph 3 Ut 2	3.68	5.16	100.00	0.00	596.13	2.49	1178.69	1189.50	1984.84	229.82	33.52	4.90
Lake Sherwood Hills West Sec	3.05	6.00	100.00	0.00	596.13	6.79	1696.02	1370.21	1982.42	732.92	34.71	7.95
Lake Shore Ests	1.24	4.59	92.10	134.03	577.44	2.49	615.34	569.09	1966.18	275.95	29.34	7.72
Lake Sue Park	2.06	3.00	0.00	11.22	598.57	4.85	765.46	352.47	1953.33	1115.07	29.36	6.35
Lake View Farms	0.23	3.00	100.00	1677.36	954.45	2.43	45.56	215.83	1959.00	629.49	28.94	0.79
Lake Waunatta Cove	2.28	3.00	86.12	0.00	1074.79	4.94	200.59	376.24	1985.90	357.81	22.42	1.51
Lake Whippoorwill Ests	0.12	3.00	0.00	0.00	95.00	0.54	192.50	1107.13	1995.00	130.53	20.85	6.48
Lake Willis Camps 1St Add	0.23	3.00	36.80	0.00	16.74	0.13	382.47	323.84	1977.35	7.60	32.18	3.04
Lakes	0.61	3.00	0.00	164.61	331.55	1.88	1609.82	1230.77	1987.22	512.41	36.17	5.55
Lakeside Ests	0.20	3.08	90.78	134.03	340.23	0.75	72.47	246.72	1967.64	160.93	28.53	7.33
Lakeside Place	0.45	5.65	0.00	43.49	469.17	2.81	1125.73	1098.57	1998.00	124.67	47.44	6.19
Lakeside Place Annex	0.69	5.15	0.00	43.49	469.17	2.81	1908.10	1793.84	2001.14	142.24	48.03	9.63
Lakeside Terrace	0.59	3.00	71.93	0.00	609.54	3.13	450.27	299.77	1970.75	277.08	18.11	4.87
Lakeside Village	2.53	1.00	0.00	0.00	576.00	3.28	1818.67	1422.09	1962.23	374.36	27.69	7.93
Lakeside Woods	3.53	3.00	100.00	0.00	821.55	8.46	663.84	686.84	1986.71	639.32	26.26	7.67
Lakeview (Conway)	1.80	1.00	0.00	495.87	435.77	3.53	305.40	607.76	1965.24	325.84	26.53	1.52
Lakeview Acres	0.65	3.00	0.00	5.65	482.87	1.79	573.71	408.92	1984.20	272.43	18.44	7.56
Lakeview Hgts	0.32	3.00	0.00	110.70	334.32	0.97	490.31	712.77	1976.95	116.81	29.73	3.70

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Lakeview Hgts Rep	0.61	3.00	0.00	110.70	334.32	0.65	809.64	1887.59	1973.25	300.13	31.95	5.51
Lakeview Hgts Rep	1.92	3.00	0.00	110.70	1089.31	3.29	200.61	1264.26	1966.31	54.01	27.61	5.72
Lakeview Park	2.04	1.00	85.50	672.69	624.01	4.53	1000.22	1055.76	1960.59	262.34	26.88	6.45
Lakeville	0.02	4.42	100.00	0.00	30.49	0.20	923.13	1314.34	1970.00	235.77	30.27	7.11
Lakewood Park	1.14	3.00	45.42	0.00	482.87	4.07	114.80	158.23	1999.75	845.81	20.95	0.79
Lakewood Park	0.46	3.54	4.08	5.65	482.87	1.52	204.37	444.11	1975.34	74.98	18.72	3.00
Landings Of Lake Sawyer	0.65	3.00	0.00	0.00	237.29	1.42	954.37	482.97	1998.20	311.27	33.61	5.74
Las Alamedas	2.51	3.00	100.00	47.41	198.32	3.41	806.71	1827.87	1997.55	666.11	30.10	5.61
Laurels Of Mount Dora	0.77	5.22	0.00	19.57	135.35	0.97	10361.77	9396.09	2003.66	479.83	34.73	7.22
Lawndale	1.66	2.21	0.00	0.00	728.53	7.30	118.13	261.94	1964.77	2527.50	28.11	5.70
Lawndale Annex	1.52	1.96	0.00	0.00	728.53	0.36	155.17	347.89	1965.57	1440.42	28.03	7.93
Leawood	0.68	3.00	100.00	0.00	400.10	3.14	590.42	150.59	1976.54	2692.09	27.43	7.94
Leawood 1St Add	0.48	2.87	100.00	0.00	656.44	4.81	846.65	960.20	1971.36	2778.49	26.98	7.77
Lees Ests	0.75	3.39	100.00	0.00	400.46	3.80	725.10	621.71	1980.83	115.35	16.36	6.27
Leeside Ests	0.89	3.00	0.00	173.85	371.41	2.94	1079.43	252.47	1991.00	1254.28	39.44	7.11
Legacy Place	0.85	2.65	0.00	0.00	707.97	1.43	146.84	403.76	2007.57	4396.26	21.95	7.94
Les Terraces	0.90	3.00	0.00	0.00	371.41	2.94	2541.66	1507.78	1989.44	953.53	39.82	7.26
Liberty Hgts 1St Add	2.18	1.52	100.00	0.00	331.05	5.82	2474.76	1548.03	1963.27	2027.45	37.75	8.73
Liberty Hgts 2Nd Add	1.87	6.00	100.00	30.53	331.05	4.11	1397.74	1284.74	1973.78	1620.52	39.00	12.11
Liki Tiki Village 3 South	0.09	3.00	0.00	87.94	67.20	0.00	8970.67	3188.92	2009.00	545.37	34.00	7.95
Lincklaen Hgts	0.66	2.03	0.00	151.78	363.15	1.39	205.10	617.98	1985.42	970.30	27.95	7.93
Little Lake Bryan Parcel 8	0.05	3.62	100.00	0.00	2590.27	80.52	0.00	72.14	2008.00	1478.20	34.13	10.58
Little Lake Georgia Terrace	1.92	3.60	99.04	0.00	396.57	8.08	698.55	959.64	1979.70	196.34	18.00	12.69
Little Lake Park	1.53	3.47	100.00	1617.80	304.24	3.20	733.42	969.66	1974.68	126.26	24.53	6.97
Live Oak Ests Ph 1	0.57	2.33	0.00	0.00	75.59	0.77	8341.35	7930.50	1992.09	1590.44	19.05	7.95
Live Oak Ests Ph 2	0.54	1.05	0.00	0.00	37.16	0.55	7247.84	7224.84	1997.23	1106.05	19.66	7.50
Live Oak Ests Ph 3	0.24	2.45	0.00	0.00	75.59	0.36	6006.34	5155.43	2002.70	3345.82	19.20	7.74
Live Oaks Ests Ph 4	0.36	3.00	0.00	0.00	33.04	0.29	5748.19	4831.25	2011.19	5220.27	20.16	7.94
Livingston J H Land Sub	0.36	1.00	72.54	0.00	545.93	1.40	481.81	597.29	1956.22	303.05	27.84	5.90
Livingston J H Sub	0.79	1.09	0.00	495.87	435.77	2.71	776.51	508.66	1971.18	330.71	27.99	5.33
Lockhart Manor	2.20	3.00	100.00	402.83	445.94	6.01	91.45	840.64	1963.05	1549.42	27.05	7.89
Lockhart Sub No 1	2.09	3.00	100.00	513.34	351.17	4.27	271.43	362.58	1971.56	480.23	26.19	7.79
Lockmere	0.48	3.31	100.00	402.83	445.94	0.00	30.45	1207.37	1982.67	2774.38	25.69	7.33
Lockwood Stephen Sub	0.45	1.00	0.00	2.76	424.52	2.39	108.36	148.31	1969.00	2383.22	29.67	7.95



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**DRAFT**  
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Loes Add To Lockhart	2.11	3.75	100.00	513.34	351.17	1.44	433.24	786.70	1956.94	1322.95	29.14	7.94
Long Lake Ests	2.01	2.07	100.00	290.55	791.80	1.84	676.51	2704.60	1985.03	347.26	30.04	7.35
Long Lake Park Replat Ut 1	3.16	5.82	100.00	61.77	841.00	8.20	1743.05	1066.81	1990.39	856.18	33.32	7.95
Long Lake Park Replat Ut 2	1.71	3.90	100.00	61.77	791.80	4.79	1641.01	1249.96	1991.13	271.35	23.73	4.81
Long Lake Shores	1.98	3.29	100.00	193.40	791.80	4.13	1778.06	1733.41	1995.63	359.64	23.56	7.47
Long Lake Sub	1.63	2.91	100.00	61.77	791.80	3.97	825.49	2229.24	1969.87	40.84	26.55	6.65
Long Lake Villas Ph 1A	3.39	4.09	100.00	204.80	919.19	8.05	796.58	1016.52	1991.03	527.79	32.72	7.56
Long Lake Villas Ph 1B	6.09	4.11	100.00	204.80	919.19	11.39	776.95	1033.10	1994.75	381.89	29.94	7.95
Long Shores	0.70	3.00	100.00	61.77	791.80	3.47	1504.29	2185.11	1983.80	228.46	27.03	4.26
Lorena Gardens	1.13	1.00	100.00	1.82	624.01	4.28	162.83	1066.60	1950.80	659.50	27.75	7.95
Los Terranos	0.14	3.00	100.00	0.00	499.90	1.74	506.55	520.05	1980.40	5573.86	26.95	7.93
Los Terranos	0.29	2.88	37.44	0.00	150.33	1.89	499.85	585.77	1978.25	5634.55	27.23	7.86
Ltv 1400 Timeshare Resort	1.75	6.00	0.00	0.00	67.20	0.03	8643.18	3321.83	2007.00	175.27	34.00	7.95
Lukas Ests	0.46	3.00	0.00	205.12	174.69	0.11	3519.93	2285.32	2008.75	332.18	19.05	2.05
M & H Citrus Inc	0.03	1.00	0.00	0.00	49.47	0.05	5205.18	3330.86	2015.00	18.77	16.41	2.48
Magerstadt Sub	1.68	3.00	0.00	0.00	665.82	8.04	1051.57	142.03	1979.69	828.98	28.93	7.21
Magnolia Lakes	5.13	3.00	100.00	0.00	839.94	9.96	131.67	326.96	1990.06	665.43	26.44	2.47
Magnolia Oaks	0.72	4.25	100.00	0.00	35.07	0.29	6155.41	8535.84	1995.80	2604.23	37.32	6.52
Magnolia Park Of Windermere	0.80	4.08	0.00	0.00	407.73	1.12	599.30	628.35	1996.88	785.24	35.91	7.24
Magnolia Village Ut 1	2.53	3.00	100.00	0.00	839.94	5.79	364.13	597.97	1981.69	482.65	26.03	6.48
Magnolia Villas Orlando Condo	9.17	3.00	0.00	144.64	893.34	7.18	99.10	1972.41	1973.00	1116.34	29.71	7.93
Majestic Oaks	2.67	5.91	100.00	0.00	399.88	3.86	673.84	570.08	1987.69	1618.64	22.27	7.95
Mandalay Sub	1.00	1.28	0.00	205.12	203.34	2.70	3075.10	1530.61	2013.93	2030.90	20.36	6.09
Marots Add To Tangerine	0.39	2.88	0.00	19.57	135.35	1.15	8823.15	7866.21	1966.74	409.32	29.85	5.51
Martins Preserve	0.76	3.00	0.00	0.00	214.53	0.77	7563.26	6645.61	2014.80	887.97	38.06	5.59
Mason Add	1.50	3.00	100.00	1168.50	728.06	5.97	325.60	533.66	1971.91	913.43	29.36	4.59
Mc Queen Select Homesites	0.55	5.14	100.00	0.00	16.85	0.21	896.50	1974.71	1970.71	615.67	26.39	6.18
Mccormack Place	2.77	3.00	0.00	0.00	674.46	4.66	1392.92	2631.07	1980.13	642.42	30.00	7.95
Mcdonald & Wilkins Sub	0.40	4.61	100.00	0.00	21.23	0.71	287.32	4920.57	1982.89	1199.90	42.40	12.48

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Mcneils Orange Villa	0.51	3.00	100.00	166.05	555.66	3.47	1026.63	1204.17	1974.50	564.05	26.79	7.93
Mcneils Orange Villa	0.50	3.00	100.00	166.05	555.66	3.85	1408.74	1323.01	1972.50	261.68	23.95	7.93
Mcneils Orange Villa	0.29	3.00	100.00	166.05	555.66	2.91	483.76	483.84	1969.71	0.00	22.43	4.37
Mcneils Orange Villa	1.66	3.00	100.00	402.83	445.94	3.47	11.62	1384.09	1925.00	1557.41	28.00	7.93
Meadowbrook Acres	3.22	1.00	100.00	0.00	1083.53	6.56	501.78	671.03	1958.04	588.06	22.24	7.95
Meadowbrook Annex 1St Add	4.10	1.67	100.00	149.39	932.39	8.00	150.48	151.82	1959.00	1177.98	24.40	7.95
Meadowbrook Annex 2Nd Add	3.15	3.00	100.00	149.39	753.27	7.31	144.14	324.33	1958.75	910.32	21.50	7.86
Mejo Oscar Property	0.42	3.00	0.00	0.00	395.85	3.48	807.74	463.68	2001.50	1283.48	27.00	7.95
Meres	0.22	3.00	0.03	0.00	41.52	0.34	15624.55	14665.78	1992.00	3889.42	25.20	6.04
Merritt Park	2.47	3.00	0.00	11.22	598.57	5.79	444.84	508.11	1960.27	296.94	24.64	6.71
Metcalf Park Rep	0.35	3.15	29.03	0.00	288.16	1.22	3997.37	4009.59	1994.23	25.71	31.54	5.23
Michigan Hgts	2.06	3.00	100.00	513.34	351.17	1.30	465.16	690.93	1960.38	1291.60	27.52	7.95
Michigan Oaks	4.23	3.00	0.00	144.64	706.47	9.21	899.94	420.15	1984.00	1839.31	32.80	7.95
Miller And Pownall Sub	1.42	3.00	100.00	15898.31	408.51	0.98	182.78	768.53	1952.25	2360.41	27.00	7.93
Millers Sub (Lockhart)	2.47	6.00	100.00	402.83	304.24	6.23	230.07	2072.34	1970.42	1605.60	28.54	8.08
Monroe Manor	3.40	3.00	100.00	7928.67	623.01	8.41	1294.42	832.09	1965.21	800.35	25.95	7.82
Morningside	0.20	3.31	76.49	0.00	459.08	9.40	328.59	240.49	1983.33	104.23	20.69	7.06
Morningside Park	2.12	1.00	73.35	83.07	302.21	2.97	695.88	768.22	1962.46	367.62	29.79	5.69
Morrisons Sub	3.98	5.85	100.00	0.00	90.06	4.48	976.57	1687.66	1948.97	2429.45	37.88	7.95
Morrisons Sub 1St Add	3.12	6.00	100.00	16.59	90.06	6.46	389.13	1805.26	1981.05	2051.89	37.75	7.93
Mountain Park Orange Groves	0.16	3.11	0.00	0.00	4.80	0.03	2182.33	2284.05	1978.32	179.45	32.58	7.00
Mt Pleasant	1.43	3.00	100.00	36.32	174.10	0.53	1861.74	6902.76	1965.00	660.23	29.88	5.48
Mt Pleasant 1St Add	1.43	3.00	100.00	36.32	174.10	0.53	2152.60	7175.38	1970.00	593.55	30.15	5.48
Mt Plymouth Lakes Rep	3.23	3.65	100.00	0.00	337.29	9.03	3906.30	7574.84	1973.22	622.73	22.45	7.64
Mtp Enterprises Inc	0.38	3.00	0.00	38.09	505.95	2.48	265.65	195.45	1981.00	749.56	27.00	7.94
Munger Willis R Land Co	1.91	5.42	100.00	0.00	772.68	6.81	158.95	545.83	1985.60	1500.40	35.13	7.95
Munger Willis R Land Co	0.14	2.55	100.00	0.00	825.06	5.63	217.29	262.25	1976.00	1277.80	31.89	7.95
Munger Willis R Land Co	0.10	3.00	100.00	848.30	699.31	2.71	1229.28	865.66	1995.00	0.00	22.39	2.12
Munger Willis R Land Co	0.02	3.05	99.66	22.30	54.44	0.60	112.79	2325.33	1981.67	3839.21	30.73	5.73
Munger Willis R Land Co	0.10	3.44	100.00	47.57	778.83	3.90	1428.45	971.52	1984.00	181.60	25.18	7.82
Munger Willis R Land Co	0.17	3.00	100.00	1677.36	690.40	1.65	177.57	243.34	1992.25	693.95	27.00	7.92

Appendix A  
**DRAFT**  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Munger Willis R Land Co	0.39	4.14	100.00	149.39	772.68	3.41	789.28	417.83	1979.60	371.15	25.98	7.53
Munger Willis R Land Co	0.10	4.96	100.00	0.00	430.71	2.01	96.83	325.60	1981.64	1755.08	28.55	11.20
Munger Willis R Land Co	0.36	3.00	100.00	1.94	591.78	4.71	479.80	161.66	1970.41	941.32	27.53	7.93
Munger Willis R Land Co	0.05	1.53	100.00	0.00	837.68	4.38	122.01	386.27	1957.50	3.79	20.87	5.78
Munger Willis R Land Co	0.49	2.97	100.00	106.23	682.42	4.49	818.23	332.97	1973.11	1083.62	27.37	7.22
Munger Willis R Land Co	0.03	4.30	92.73	6358.64	160.97	0.94	53.13	554.58	1991.50	1900.83	35.56	13.10
Munger Willis R Land Co	0.22	2.21	100.00	15.98	603.96	4.38	101.41	1012.73	1974.75	321.59	27.32	7.45
Mungers Willis R Land Co	0.07	3.00	66.53	0.00	96.67	0.75	707.80	614.41	1987.05	30.15	29.80	6.87
Mungers Willis R Land Co	0.19	1.00	100.00	16.49	26.64	0.03	250.01	173.87	1977.65	3077.87	30.38	7.92
Nelaview	0.87	3.00	0.00	0.00	574.99	4.70	410.09	186.31	1965.91	577.12	28.73	1.59
North 441 Indus Park	0.46	6.00	100.00	30.53	331.05	0.58	475.39	425.33	1985.18	1352.46	37.46	9.75
North Bay Sec 1	1.32	3.64	0.00	3.20	499.43	3.31	753.77	646.47	1988.84	575.36	33.01	6.22
North Bay Sec 1 Rep	2.37	3.00	0.00	3.20	301.87	3.73	569.31	702.42	1987.88	395.50	32.25	7.00
North Bay Sec 1 Rep	1.55	3.83	0.00	0.00	499.43	3.86	832.15	414.29	1989.67	909.52	35.59	9.43
North Bay Sec 2	1.67	3.39	0.00	0.00	499.43	3.86	1091.82	1105.03	1988.50	412.54	33.14	6.47
North Bay Sec 4	2.02	3.97	0.00	81.52	499.43	3.73	412.68	1829.29	1994.35	705.02	33.93	9.15
North Pine Hills	3.23	3.00	100.00	2.28	1418.61	8.40	501.73	296.43	1964.46	672.92	25.58	7.95
Northpointe Condo	5.41	2.50	100.00	513.34	351.17	1.55	224.27	63.19	1998.00	793.34	28.40	7.95
Northshore	1.33	1.00	0.00	0.00	576.00	3.84	1936.10	1738.77	1995.33	313.66	29.44	7.94
Oak Acres	2.10	3.00	100.00	0.00	449.94	5.19	1062.31	1346.50	1977.81	1617.97	29.74	7.80
Oak Forest Sub	3.89	3.00	0.00	144.64	706.47	4.78	1685.55	429.06	1954.84	1839.35	32.78	7.95
Oak Heights Rep	0.23	5.95	100.00	107.11	439.23	0.56	575.02	1652.38	1977.75	980.78	32.60	7.95
Oak Hills Subdivision	0.72	5.80	100.00	0.00	221.44	0.19	2614.89	3995.31	1999.29	579.98	29.18	7.95
Oak Lakes	0.98	3.00	39.67	15.87	301.41	1.97	470.15	458.16	1985.38	365.92	19.37	7.94
Oak Meadows P D Ph 3 Ut 1	4.43	5.88	0.00	3.06	1054.56	8.83	384.55	187.44	1984.52	1445.29	41.11	7.95
Oak Meadows P D Ph 3 Ut 2	5.26	3.99	0.00	15.01	611.07	6.63	371.85	116.68	1988.88	467.45	27.65	7.95
Oak Meadows P D Ph 3 Villas/Oak Meadows Ph 2 R	5.35	6.00	0.00	133.07	1054.56	12.88	314.29	248.51	1991.10	1020.30	39.87	7.95
Oak Park Manor	1.49	3.10	100.00	0.00	1185.64	4.13	1083.74	1128.22	1976.38	766.02	39.51	7.95
Oak Ridge Manor	2.74	1.00	100.00	0.00	88.68	6.03	338.89	286.80	1976.47	1348.10	31.82	5.69
Oak Ridge Manor 1St Add	0.39	1.00	100.00	0.00	88.68	0.74	639.32	732.30	1965.00	1891.89	32.60	2.46

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Oak Ridge Manor Annex	2.51	1.00	100.00	0.00	88.68	2.49	580.80	765.82	1965.03	2270.93	32.82	4.97
Oak Terrace	3.25	3.00	100.00	106.23	682.42	8.07	1276.94	1259.86	1969.06	934.04	27.70	7.95
Oak Vista	1.73	3.00	100.00	1677.36	954.45	3.33	156.53	296.45	1972.80	1181.10	30.00	2.34
Oakland Pointe	2.05	3.00	100.00	0.00	378.80	3.17	4207.88	4187.02	2000.03	339.19	24.61	5.87
Oakland Shores 2Nd Add	1.08	3.00	0.00	375.90	443.04	2.10	848.11	608.14	1964.67	31.42	21.70	5.58
Oakland Town Of	1.48	3.23	99.58	196.55	273.69	3.06	3998.26	4281.55	1975.90	2161.69	34.78	7.39
Oakland Trails Phase 1	0.72	6.00	100.00	2113.05	54.94	0.00	9077.45	8548.87		677.79	36.50	7.95
Oakland Trails Phase 1	0.59	3.92	100.00	129.67	143.21	0.00	9388.53	8590.52	2018.38	1359.32	25.37	7.95
Oakland Trails Phase 1	3.46	4.90	88.54	2113.05	54.94	0.17	9710.29	9180.93	2017.81	1364.71	38.54	7.95
Oakland Trails Phase 2	4.43	5.20	96.99	129.67	143.21	0.17	10466.04	10035.61	2018.95	1541.41	35.91	7.95
Oakmont Park	1.10	3.00	100.00	727.97	770.65	4.85	255.15	704.97	1972.26	525.74	23.91	6.98
Oaks At Paradise	1.39	3.00	100.00	356.85	542.36	1.98	344.02	302.00	1992.29	1930.41	33.89	5.53
Oaks On The Lake	2.44	3.00	100.00	0.00	441.98	5.42	640.14	927.02	1989.58	550.00	20.02	5.57
Oakwater Ests	0.71	3.00	100.00	41.84	441.98	2.01	720.68	716.64	1990.25	130.91	19.86	3.64
Oakwater Prof Park Condo	0.46	1.00	0.00	1760.67	363.72	1.28	371.71	849.26	1990.11	289.79	32.17	4.65
Oasis Terrace	2.61	4.54	100.00	0.00	869.39	4.56	739.22	731.04	1983.20	778.48	32.83	7.95
Ocb Acres	0.02	3.42	100.00	0.00	12.07	0.04	5930.12	5185.97	2007.00	4914.36	41.41	6.52
Ocfs/Bhn Service Facilities	0.27	5.80	0.00	0.00	289.55	0.00	6644.09	3155.35	2008.00	226.48	36.73	7.80
Ohio Homesites 1St Ut	1.29	3.00	96.86	102.04	870.30	7.77	117.60	116.34	1960.60	923.00	31.14	7.95
Ola Beach On Lake Ola 2Nd Rep	1.50	3.48	0.00	0.00	117.10	3.62	3854.84	2852.98	1964.88	645.53	27.76	8.17
Oleander	2.61	3.21	100.00	0.00	778.91	6.37	566.59	743.45	1971.90	2421.21	40.68	7.95
Olympia Hgts	1.78	1.00	0.00	0.00	527.38	1.48	425.55	377.02	1958.46	1738.22	28.91	7.93
Olympia Hgts Annex	2.92	1.00	98.30	1266.89	527.38	4.07	947.97	552.76	1959.50	1812.69	29.29	7.93
Olympia Hgts Annex	2.11	1.00	0.00	0.00	523.43	4.01	380.63	298.36	1952.44	1923.98	29.13	7.93
Orange Blossom Indus Pk	1.22	1.00	100.00	187.14	101.61	0.00	596.83	2059.34	1988.19	831.83	37.15	7.94
Orange County Acres Sec 18	0.03	1.00	0.00	0.00	9.37	0.02	18074.87	16526.20	2006.00	5345.45	18.15	7.91
Orange County Acres Sec 36	0.04	1.00	0.00	0.00	1.98	0.02	19771.15	17320.57	1982.33	3404.81	19.07	7.94
Orange County Indus Pk	0.33	5.42	100.00	204.80	646.43	3.41	1546.27	1123.25	1990.53	1299.61	39.20	10.71
Orange County Indus Pk Ph 2	0.12	3.34	100.00	204.80	854.91	3.02	1248.16	563.95	1989.00	1140.44	31.70	8.07
Orange Ctr	0.35	3.13	100.00	0.42	190.51	1.04	393.68	725.48	1985.44	1318.37	35.85	8.35



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Orange Hgts	1.42	3.00	100.00	0.00	568.42	4.57	132.46	236.63	1973.95	884.15	37.16	7.95
Orange Hgts	0.25	3.00	0.00	22.08	312.35	0.72	496.52	294.06	1963.50	1345.11	28.03	7.93
Orange Hill	2.03	3.00	0.00	0.00	394.73	4.31	1024.14	301.92	1987.25	676.79	43.54	6.74
Orange Lake C C Villas Ph 7-A	0.25	3.00	0.00	0.00	14.91	0.00	4164.88	6939.85	1982.00	649.11	32.38	6.31
Orange Lake East Town Ctr Rep	0.22	3.16	0.00	0.00	89.63	0.00	8052.12	11177.96	2003.50	4326.91	30.14	10.77
Orange Lake East Town Ctr Rep 2	0.08	3.89	0.00	0.00	0.00	0.00	6652.56	10431.61	2003.00	3642.50	32.58	5.64
Orange Land Gardens	2.73	3.00	100.00	0.00	568.42	6.99	744.08	416.04	1976.57	336.91	34.58	7.95
Orange View	4.06	3.00	100.00	0.00	778.91	9.09	119.85	244.64	1967.58	1716.53	42.70	7.95
Orange Villa	1.82	3.00	0.00	0.00	776.82	2.85	979.30	63.54	1958.46	1624.78	30.32	7.95
Orlaman Park	0.98	3.00	6.32	64.78	240.74	0.95	163.13	75.19	1941.00	1027.60	30.00	7.95
Orlando Acres 1St Add	1.63	3.08	88.60	0.00	299.15	4.04	783.60	1187.52	1969.34	310.97	20.47	8.13
Orlando Acres 2Nd Add	2.79	3.00	45.82	0.00	249.41	5.88	1901.16	1695.85	1957.97	612.12	18.67	3.71
Orlando Acres Sec 1	1.24	3.00	100.00	0.00	299.15	2.70	164.07	951.50	1968.53	1790.81	21.29	6.45
Orlando Improvement Co No 1	0.98	3.00	27.50	0.00	439.90	2.28	139.99	616.91	1981.05	1326.33	21.82	7.93
Orlando Improvement Co No 1	1.17	3.00	46.24	0.00	748.26	2.61	597.67	399.83	1974.47	2841.80	21.52	7.96
Orlando Improvement Co No 2	0.65	3.29	0.00	0.00	412.65	3.47	311.60	486.84	1978.74	1480.66	22.43	9.26
Orlando Improvement Co No 2	0.10	3.00	0.00	0.00	748.26	2.81	70.39	110.48	1995.00	2152.19	22.15	7.94
Orlando Improvement Co No 2	1.96	3.00	0.00	0.00	664.71	3.74	578.16	748.08	1963.11	736.74	21.77	5.12
Orlando Improvement Co No 3	0.45	3.07	0.00	0.00	970.21	3.36	494.48	242.92	1983.95	3235.08	23.21	8.02
Orlando Kissimmee Farms	0.16	2.88	100.00	3.60	50.26	0.40	3197.73	2959.77	1989.73	10646.42	22.87	7.93
Orlando Terrace Sec 1	0.06	3.03	0.00	0.00	1098.38	8.66	62.60	132.26	1975.40	1329.33	27.39	7.86
Orlando Terrace Sec 8	0.57	3.00	0.00	38.09	505.95	2.48	46.46	199.08	1990.50	690.61	27.00	7.93
Orlo Vista Hgts	3.58	4.51	0.00	113.67	916.91	6.36	567.21	772.09	1980.98	432.51	39.92	9.93
Orlo Vista Hgts Add	3.33	3.41	0.00	113.67	864.93	8.94	1022.42	1744.16	1980.66	436.95	41.72	8.56
Orlo Vista Terrace	3.12	5.43	0.00	22.08	486.78	8.14	840.18	1110.46	1974.38	692.71	34.26	10.89

Appendix A  
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Orlo Vista Terrace Annex	0.86	5.31	0.00	22.08	486.78	0.47	286.60	754.47	1978.19	860.13	31.99	9.64
Orlo Vista Terrace Annex	1.62	3.70	0.00	22.08	429.00	4.15	260.29	438.07	1974.00	474.24	29.49	7.72
Overstreet	0.17	3.00	100.00	0.46	200.38	0.09	71.06	352.43	1970.83	2557.19	39.01	7.92
Overstreet Crate Co	0.40	3.00	0.00	188.32	657.56	0.87	51.73	342.32	1973.75	1216.56	34.87	7.93
Overstreet Crate Co	0.12	2.28	0.00	61.94	9.10	0.16	426.37	354.23	1968.56	2863.41	35.43	6.70
Overstreet Republic Drive Prop	0.09	3.00	0.00	0.00	0.00	0.00	423.50	394.03	1995.00	1363.14	31.73	7.95
Oxford Moor	1.00	3.00	0.00	0.00	411.89	2.09	1325.12	1197.26	2004.33	608.12	35.21	7.94
Palm Cove Ests	3.07	2.77	0.00	0.00	637.97	5.30	693.49	477.62	1989.61	493.22	32.94	6.05
Palm Cove Ests 2	2.05	3.00	0.00	353.90	637.97	4.23	711.54	431.13	1992.07	142.30	31.06	5.88
Palm Cove Ests 3	2.10	3.00	0.00	0.00	569.88	4.23	1212.93	1043.58	1992.90	196.83	32.96	4.60
Palm Cove Ests 4	1.77	3.00	0.00	0.00	569.88	3.81	653.24	1014.66	1993.67	291.30	28.91	6.07
Palm Cove Ests 5	3.05	3.00	0.00	0.00	569.88	4.21	1346.92	1164.95	1993.50	258.98	29.80	6.26
Palm Cove Ests 6	0.06	3.00	0.00	0.00	569.88	0.83	1058.50	986.35	2013.00	152.80	28.27	1.70
Palm Hgts	2.86	1.00	100.00	513.34	481.07	3.70	456.85	609.59	1961.71	614.68	27.89	6.98
Palm Lake	2.04	6.00	0.00	0.00	407.71	4.94	1419.75	472.03	1998.25	1339.39	47.80	21.34
Palm Lake Ests	1.14	3.00	100.00	0.00	636.77	3.26	69.77	319.88	1979.46	4426.40	17.53	7.93
Palm Lake Ests 1St Add	1.24	3.00	0.00	0.00	675.28	5.32	275.69	212.18	1988.52	820.96	16.40	7.93
Palm Lake Ests 2Nd Add	0.71	3.00	0.00	0.00	504.01	3.00	487.89	489.07	1993.38	722.19	16.82	7.27
Palm Lake Ests 3Rd Add	0.36	3.00	0.00	0.00	972.66	0.98	308.13	444.35	1988.22	259.77	15.70	7.56
Palm Lake Ests 4Th Add	0.86	3.00	0.00	0.00	504.01	2.24	411.97	528.98	1982.27	155.66	15.72	7.36
Palm Lake Ests 5Th Add	1.44	3.00	100.00	460.68	636.77	4.52	14.94	191.44	1976.29	3191.69	17.76	7.94
Palm Lake Manor	0.44	5.42	0.00	0.00	407.71	3.00	1522.97	742.03	1991.00	607.62	46.59	13.94
Palm Lake Manor 1St Add	0.44	5.41	0.00	0.00	454.77	3.10	1082.31	793.97	1997.47	244.19	46.30	13.53
Palms Sec 1	2.13	3.94	100.00	0.00	454.95	4.71	457.45	396.78	1984.69	3715.43	25.88	7.95
Palms Sec 2	2.19	5.79	100.00	0.00	454.95	4.75	1538.71	836.96	1987.96	2885.98	20.34	7.95
Palms Sec 3	2.58	6.00	100.00	0.00	465.05	6.03	2506.65	2005.71	1993.04	2885.70	20.26	7.95
Palms Sec 4	2.57	5.90	100.00	0.00	538.08	5.08	3116.62	2234.36	1992.02	2148.85	23.51	7.95
Paradise Hgts 1St Add	2.32	3.00	100.00	20.69	542.36	6.33	516.72	1161.21	1959.07	1271.71	30.20	7.70
Parc Corniche Condo Ph 1	12.20	3.00	100.00	99.48	465.87	1.15	1158.86	456.50	1989.00	122.22	27.42	7.92
Parc Corniche Condo Ph 2	18.05	3.00	100.00	99.48	465.87	1.15	1807.87	1032.28	1990.00	228.32	28.95	7.93
Park Avenue West	0.24	3.00	0.00	0.00	132.57	0.99	1572.41	1548.63	2033.67	495.60	33.99	7.94
Park Manor Ests Ut 11 C	0.80	3.00	0.00	0.00	782.62	6.32	220.72	173.02	1982.63	3007.65	22.55	6.33
Park Ridge	0.93	3.87	100.00	0.00	406.10	2.73	1448.28	1069.52	1973.94	2095.00	40.86	8.64

Appendix A  
**DRAFT**  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Park Springs	1.61	5.50	0.00	1.84	426.08	2.89	2063.13	1873.03	1992.35	355.19	41.43	9.94
Parker Hgts	1.81	3.00	0.00	0.00	706.90	7.70	766.81	184.37	1973.06	838.39	20.60	0.78
Parkway Dist Ctr Condo	1.06	3.00	100.00	0.00	75.02	2.85	1551.20	137.79	1984.00	3743.68	27.00	7.93
Parkway Dist Ctr Condo Ph 2	2.61	3.00	100.00	0.94	0.88	0.00	146.16	916.14	1986.00	1982.08	27.00	7.94
Partin Oaks	0.10	2.92	100.00	0.00	84.12	0.32	2663.17	2988.21	1996.00	543.69	12.43	7.93
Partin Park	0.04	1.00	100.00	0.00	3.85	0.06	9777.38	8183.89	2002.00	2440.52	17.97	7.93
Partridge Terrace	4.54	3.00	100.00	0.00	618.87	1.65	567.00	602.21	1986.09	1418.09	22.65	5.17
Pearl Lake Park	1.10	3.00	100.00	48.27	414.40	2.51	1620.40	1044.25	1986.06	153.28	36.43	5.03
Pelham Park 1St Add	3.69	3.00	0.00	144.64	706.47	7.25	245.73	937.97	1972.05	1834.51	32.17	7.95
Pell Ests	1.33	3.00	100.00	0.00	262.26	2.01	318.58	1144.68	1986.25	1233.55	15.56	3.08
Pennsy Park	1.81	6.00	100.00	0.00	278.95	0.58	117.15	204.86	1967.35	305.08	33.76	9.81
Perez Sub	0.20	1.00	0.00	25.40	210.85	0.20	2240.70	392.24	1986.50	5858.86	19.30	7.93
Pershing Villas	5.00	3.00	0.00	345.07	570.80	8.59	448.21	629.29	1994.47	2804.47	28.00	7.93
Peters Arthur Sub	0.04	4.34	100.00	0.00	57.72	0.53	3170.95	5551.89	1987.75	1338.54	40.27	6.87
Picketts Cove	0.32	3.00	0.00	0.00	21.45	0.32	11147.71	9967.92	1994.95	253.58	17.57	4.28
Picketts J T	0.48	3.00	100.00	50.50	174.10	1.08	2026.96	7329.08	1965.62	892.01	29.81	5.74
Piedmont Ests	1.99	3.00	100.00	0.00	924.83	7.20	179.32	177.21	1975.75	1356.92	33.00	7.95
Piedmont Ests	2.25	6.00	100.00	0.00	630.02	5.27	545.88	120.42	1967.18	1458.52	34.12	7.95
Piedmont Ests	1.40	3.00	100.00	0.00	924.83	7.20	523.88	215.23	1968.75	2337.14	32.66	7.95
Piedmont Ests	0.34	4.56	100.00	0.00	924.83	6.00	260.63	19.29	1983.75	1006.40	34.67	7.95
Piedmont Ests	0.21	6.00	100.00	1649.57	924.83	7.63	168.95	60.45	1962.00	111.13	31.00	7.95
Piedmont Ests 1St Add	0.40	4.64	100.00	98.42	599.15	3.61	104.26	540.27	1980.22	1017.18	28.58	7.77
Pinar Hgts Ut 3	3.94	3.00	0.00	38.09	505.95	1.62	53.18	174.43	1986.00	1813.07	27.00	3.34
Pine Acres Sub	2.16	3.00	0.00	27.34	550.14	7.21	758.80	995.38	1965.24	2014.07	27.91	7.29
Pine Acres Sub 1St Add	0.62	3.00	0.00	27.34	400.10	3.14	380.63	645.88	1965.60	1677.21	27.16	7.94
Pine Castle	0.04	3.18	100.00	1.17	0.00	0.00	202.30	510.81	1983.45	860.03	28.12	7.95
Pine Castle Pines	2.41	3.00	0.00	0.00	433.55	5.26	425.45	372.36	1963.56	1129.56	29.77	1.31
Pine Hill Ests	1.39	1.00	100.00	0.00	753.27	4.23	384.64	670.87	1966.34	778.65	23.93	7.95
Pine Hills Manor	0.54	1.16	100.00	367.03	1141.33	4.36	206.63	189.37	1974.11	324.49	27.57	7.95
Pine Hills Manor No 2	2.45	3.00	100.00	479.15	860.46	6.41	1110.38	123.47	1953.42	983.50	34.92	7.93
Pine Hills Manor No 3	3.13	3.00	100.00	0.00	1315.75	4.72	1090.75	136.57	1954.36	1243.36	32.66	7.95
Pine Hills Park	1.01	3.34	100.00	47.57	778.83	3.41	1103.78	494.40	1982.38	411.07	27.70	7.95

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**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000- 2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Pine Hills Park Sub 1St Rep	3.06	3.00	100.00	47.57	778.83	7.66	1609.85	787.66	1958.18	520.73	30.00	7.95
Pine Hills Retail/Office Condo	4.09	3.00	100.00	453.76	1069.12	0.00	224.34	154.65	1974.00	1272.85	32.00	7.93
Pine Loch Hgts	4.41	3.00	0.00	400.45	751.13	4.41	59.51	213.59	1953.00	182.96	31.00	7.95
Pine Meadows Ph 1	2.49	3.00	0.00	116.94	395.61	4.85	652.61	326.57	1986.95	4969.48	24.00	7.91
Pine Oaks	2.25	3.00	100.00	0.00	370.80	3.37	427.52	247.25	1983.31	630.92	21.11	5.96
Pine Ridge Ests	3.28	1.00	100.00	0.00	1083.53	7.82	293.00	489.45	1959.13	685.72	29.06	7.95
Pine Ridge Ests Sec 2	3.56	1.00	100.00	0.00	825.06	9.99	307.83	883.27	1960.44	737.57	25.76	7.54
Pine Shores	0.72	3.00	0.00	0.00	80.00	0.47	1967.35	1851.63	1986.29	264.30	19.95	5.17
Pine Villa	0.85	2.17	100.00	2.76	187.65	0.10	390.43	28.21	1958.62	2545.71	29.53	7.95
Pineloch Terrace	3.17	3.00	0.00	8246.55	751.13	7.92	218.70	221.82	1957.83	553.41	31.18	7.95
Piney Oak Shores	1.83	3.00	0.00	0.00	743.89	2.34	1322.67	502.40	1971.74	440.52	30.44	3.13
Piney Oak Shores 1St Add	0.64	3.00	0.00	0.00	743.89	1.93	704.18	434.19	1997.56	274.79	29.66	3.41
Piney Wood Lakes	1.58	3.00	0.00	0.00	699.50	4.40	1756.37	1322.80	1970.18	489.00	28.10	7.90
Piney Woods Point	4.63	3.00	0.00	0.00	782.62	9.17	992.07	710.02	1987.80	836.04	18.78	3.01
Pleasant Oaks	4.90	4.06	100.00	106.23	682.42	3.90	1809.93	1150.83	1988.25	782.44	27.62	7.40
Plymouth	0.13	3.15	88.62	0.00	430.80	0.73	466.63	961.95	1973.57	1051.88	33.93	7.32
Plymouth Hills	3.64	3.63	100.00	16.59	224.55	6.11	301.43	540.06	1974.42	1802.32	42.90	7.52
Ponce De Leon	1.63	3.00	95.53	3068.67	744.19	4.59	395.20	330.97	1969.56	541.14	28.28	7.59
Ponkan Pines	0.38	3.64	100.00	0.00	130.03	0.89	1226.07	2856.21	1977.87	1094.61	25.77	7.12
Ponkan Terrace	2.01	3.00	100.00	0.00	62.79	0.68	2262.40	9906.73	1974.00	1745.41	34.70	5.57
Ponyland Ests	0.41	3.00	100.00	47.57	778.83	4.07	1429.43	343.95	1978.00	77.60	25.55	7.90
Porter Place	2.11	3.00	0.00	155.87	801.68	5.63	574.38	398.01	1997.81	1112.72	31.48	7.65
Powers Pointe North	2.47	4.54	100.00	0.00	869.39	6.50	639.67	362.84	1984.98	1905.50	32.45	7.68
Powers Ridge	2.79	1.00	100.00	0.00	837.68	4.29	795.28	457.00	1984.70	1154.10	29.72	7.95
Prairie Oaks Sub	2.64	5.77	100.00	292.83	457.79	5.84	1325.00	922.62	1997.29	1573.84	36.33	11.40
Pros Ranch	2.10	3.00	100.00	4.93	106.34	2.42	1815.97	7594.34	1978.45	3118.55	23.28	5.56
Prosper Colony	0.06	3.00	100.00	0.00	0.00	0.00	647.80	289.68	2007.00	1028.71	26.00	7.94
Prosper Colony	0.02	3.00	100.00	0.00	0.00	0.00	53.32	205.61	1984.00	2660.90	27.00	7.93
Prosper Colony Blk 1	0.20	3.00	100.00	9217.67	554.54	1.58	559.00	274.78	1983.82	5676.43	27.53	6.89
Prosper Colony Blk D	0.04	2.74	93.62	0.00	11.68	0.00	167.51	537.30	1989.12	4108.25	28.47	8.18
Prosper Colony Blk E	0.25	1.92	99.45	83.07	136.29	1.73	234.55	549.62	1965.01	857.95	29.79	7.96
Prosper Colony Blk H	0.16	3.16	100.00	4.33	1.22	0.01	1500.19	2796.76	1985.74	3347.27	27.95	8.63



Appendix A  
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Prosper Colony Blk T	0.06	1.91	100.00	31.11	208.63	0.80	596.71	374.52	1991.56	4587.00	24.99	7.92
Provencial Square Condo	7.97	6.00	0.00	0.13	513.82	4.40	2645.69	1659.85	1985.69	1176.66	44.10	7.93
Quadrangle Tract 7	0.08	3.00	0.00	10.87	314.48	3.22	226.78	201.27	2006.00	1380.84	16.75	2.39
Queenswood Manor 2	2.07	3.00	100.00	1.94	772.41	7.90	352.61	105.13	1984.66	474.92	26.96	7.93
Raintree Place Ph 1	2.55	4.94	0.00	8.32	512.47	5.70	558.80	700.10	1985.60	740.20	37.11	7.63
Raintree Place Ph 2	2.17	4.75	0.00	0.00	794.58	6.51	1270.14	569.80	1986.23	556.03	35.38	6.83
Ranchette	2.67	3.00	100.00	1617.80	778.83	6.44	1269.92	743.09	1959.08	739.04	23.90	8.19
Rancho Bay Villa	0.90	5.84	0.00	0.00	532.73	0.88	970.92	417.93	1986.70	1058.75	37.24	14.96
Randolph Land Rep	0.24	1.00	0.00	40.05	369.29	1.89	63.42	229.23	1937.40	38.70	26.73	3.31
Randolph Plat	0.95	1.00	0.00	1760.67	369.29	1.26	341.28	690.32	1957.70	119.35	28.17	3.74
Randolph Plat	0.06	1.00	0.00	5.16	369.29	0.38	366.79	373.39	1996.00	0.00	27.17	0.87
Ravens Haven Sec 2	0.83	3.34	100.00	0.00	370.80	3.37	1088.13	809.75	1983.29	562.56	22.54	5.97
Reagans Reserve	3.10	5.77	100.00	0.00	367.71	3.45	2004.51	1449.89	2001.66	2345.96	22.81	7.95
Reaves J J Sub	0.60	1.00	0.00	1045.04	531.81	1.31	69.65	247.48	1967.73	625.27	28.74	1.00
Recherche Villas	0.21	4.48	100.00	0.00	498.67	0.60	8714.20	8608.04	2002.25	505.70	21.93	6.88
Red Gate	0.23	3.80	100.00	16.95	530.82	2.11	6.56	480.47	1975.00	249.67	27.18	6.59
Regency Indus Pk Sec 14	0.12	3.00	100.00	0.00	0.00	0.00	505.31	518.46	1986.20	1715.80	26.61	6.74
Regency Indus Pk Sec 16	0.08	1.30	100.00	31.11	32.40	0.41	1024.16	1151.44	1991.50	2726.41	25.28	7.93
Regency Indus Pk Sec 17	0.09	2.99	100.00	0.00	32.40	0.66	528.20	1168.84	1995.10	2370.15	25.00	7.94
Regency Park	3.31	5.80	100.00	0.00	841.00	8.52	761.18	428.50	1987.66	1958.19	35.85	7.95
Reserve At Lake Butler Sound	0.40	3.93	0.01	0.00	267.50	1.70	2869.28	2364.64	2008.03	326.29	32.21	7.48
Reserve At Lake Butler Sound Ut 2	0.97	3.46	0.00	0.00	309.92	2.90	3750.52	2305.64	2004.60	1647.46	33.89	7.94
Reserve At Waterford Pointe Ph 1	0.89	3.00	31.10	1854.46	189.90	2.12	1483.10	366.70	2001.63	328.27	34.08	5.00
Rests Haven	3.77	3.00	1.28	0.00	1112.54	7.32	591.36	498.40	1969.16	473.79	32.16	7.82
Richland Rep	1.18	3.00	0.00	0.00	279.69	1.84	282.82	604.99	1974.41	689.67	20.74	2.50
Richmond Terrace	3.48	3.00	6.54	155.87	844.26	7.70	2130.69	345.82	1949.69	235.62	26.73	7.64
Richwood Ests	4.00	3.00	0.00	6.86	665.56	4.25	658.94	730.44	1983.47	234.89	21.42	5.50
Ridge Manor 1St Add	2.81	2.53	100.00	0.00	825.06	6.52	338.33	527.37	1966.88	1332.41	30.49	7.95
Ridgemoore Ph 1	2.48	4.15	0.00	8.32	389.62	6.05	972.19	882.97	1989.00	974.51	37.70	7.16
Ridgemoore Ph 3	2.75	1.59	0.00	0.00	700.91	5.82	655.01	454.79	1992.78	1256.68	32.94	6.06
Rimar Ridge	2.85	3.00	100.00	1617.80	304.24	7.70	799.40	406.67	1961.45	857.56	21.49	11.87

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Rio Grande Homesites	1.15	3.00	100.00	1289.74	3069.64	47.48	48.13	67.70	1957.00	800.81	31.00	6.50
Rio Grande Terrace 3Rd Add	4.33	3.00	91.06	1289.74	1707.55	17.49	1340.03	404.41	1965.17	1678.00	30.00	7.93
Rio Grande Terrace 4Th Add	3.10	3.00	0.00	1289.74	1707.55	12.34	1359.96	806.08	1959.44	1017.31	30.00	7.70
Rio Pines Ut 1	0.95	3.00	0.00	0.00	260.60	1.78	692.92	335.92	1982.97	1334.96	25.97	7.73
Rio Pines Ut 2	3.06	3.00	0.00	0.00	552.26	3.34	727.62	500.78	1984.50	1230.45	25.93	4.75
River Crests	5.27	3.00	0.00	0.00	664.71	6.45	593.18	193.21	1986.00	1121.76	18.42	5.66
River Oaks East Condo	5.47	3.00	0.00	0.00	681.42	3.89	256.90	1297.53	1986.00	834.20	17.07	0.79
River Pines	3.39	3.00	0.00	0.00	782.62	6.45	727.88	531.93	1984.46	955.82	18.55	3.78
Riverbend Ests	5.59	3.00	0.00	2328.00	759.39	7.39	679.90	532.11	1984.91	326.25	24.00	7.92
Riverdale Farms	0.73	2.96	0.00	0.00	542.93	1.85	367.17	301.91	1978.69	284.95	14.27	7.90
Rivers Edge	2.09	3.00	0.00	0.00	783.94	4.33	220.07	631.32	1986.94	344.94	16.13	7.93
Rivers Edge Rep	5.86	3.00	0.00	0.00	424.01	4.07	333.03	881.69	1997.33	292.19	16.65	7.93
Riverside Acres	2.64	3.00	100.00	7928.67	623.01	5.23	109.90	1039.91	1956.00	1989.08	25.01	7.93
Riverside Acres 1St Add	1.95	3.00	100.00	7928.67	623.01	4.17	446.04	385.90	1956.80	1585.47	24.79	7.93
Riverside Acres 3Rd Add	2.66	3.00	100.00	0.00	623.01	4.43	754.79	463.70	1958.62	401.20	19.63	7.68
Riverside Park	2.63	3.00	100.00	0.00	821.55	4.26	257.00	1158.79	1948.25	1132.98	25.57	7.95
Riverside Park Ests	3.79	3.00	100.00	0.00	690.40	7.05	496.62	424.11	1958.00	1753.94	24.60	7.95
Riverside Park Ests Ut 2	2.50	3.00	100.00	0.00	690.40	5.89	507.84	410.18	1958.80	1923.27	25.71	7.94
Riverside Woods	3.41	3.00	100.00	0.00	821.55	8.03	863.29	1141.99	1984.41	1062.16	27.72	7.80
Riverwood	5.16	3.00	0.00	0.00	681.42	5.85	496.01	1278.87	1983.69	339.06	14.83	1.22
Roberta Place	2.79	3.00	10.83	0.00	699.50	5.30	890.21	588.06	1962.50	275.89	26.83	6.81
Roberts Island	0.47	1.08	21.46	0.00	180.47	1.38	11617.13	11591.18	2004.44	361.81	17.95	7.12
Roberts Landing	0.75	3.00	0.00	173.85	386.09	1.43	608.64	585.61	1986.39	378.49	32.65	6.27
Robinsdale	3.10	3.00	4.84	878.86	1692.31	6.74	755.91	403.77	1958.73	351.45	30.14	7.16
Robinson R G Sub	0.85	3.00	100.00	36.32	174.10	1.10	933.16	6123.49	1966.21	1279.90	30.25	5.48
Rock Spgs Park	0.79	5.70	100.00	0.00	46.82	1.88	330.97	9164.93	1982.96	1489.28	21.16	7.95
Rock Springs	0.19	3.62	100.00	4.93	84.55	0.60	1026.65	6103.78	1979.61	3082.83	24.93	6.12
Rock Springs Homesites	0.92	3.25	100.00	0.00	233.19	2.10	907.78	7078.14	1975.15	3612.68	21.27	5.88
Rock Springs Ridge Ph 1	0.97	3.35	100.00	0.00	148.02	1.22	986.90	3722.61	1999.80	3913.66	21.23	6.11
Rockinghorse Ranches Ut 2	0.23	3.00	0.00	0.00	444.86	3.23	1065.57	479.21	1991.50	541.27	15.04	4.19
Rolling Green Ridge	2.96	3.00	100.00	9.59	842.91	6.69	460.06	675.45	1972.00	1379.65	26.90	7.86

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Rolling Hills Of Avalon Annex	0.36	3.86	0.00	0.00	13.36	0.46	3719.63	2846.31	1978.13	5687.57	37.63	7.95
Rolling Oaks Ut 1	2.58	6.00	100.00	0.00	367.71	3.79	2818.10	2274.28	1983.76	2067.17	26.27	7.95
Rolling Oaks Ut 2	2.11	6.00	100.00	0.00	538.08	4.79	3183.86	2587.53	1984.07	2520.35	22.16	7.95
Rolling Oaks Ut 4	2.35	5.54	100.00	67.68	423.64	3.81	2470.17	2222.67	1987.56	1248.17	23.35	7.58
Rose Gardens	1.67	6.00	100.00	402.83	445.94	3.32	135.03	150.24	1990.67	1185.44	29.00	7.95
Rose Hill	2.61	3.72	100.00	109.82	657.15	4.73	1145.44	742.07	1985.22	319.83	31.90	5.70
Rose Hill Groves	0.07	5.32	100.00	140.24	741.05	3.17	138.79	1027.21	1975.14	747.62	33.08	14.48
Rose Hill Groves Ut No 1	2.48	5.13	100.00	0.24	741.05	8.41	454.13	298.51	1990.35	537.97	33.89	7.47
Rose W W Rep	0.20	3.00	0.00	0.00	334.32	0.87	14.79	2228.02	1943.33	678.96	34.10	7.06
Roselle Park	3.87	3.00	0.00	0.00	806.05	4.86	1727.52	1570.37	1958.20	1153.19	32.07	7.95
Roseview Sub	2.90	5.01	0.00	0.00	757.96	5.85	334.09	1773.23	1987.44	965.04	35.05	7.94
Round Lake	0.13	3.54	100.00	0.00	14.93	0.19	8449.17	7659.37	1977.45	2031.06	46.63	6.84
Round Lake Hgts Rep	0.13	3.67	100.00	0.00	57.72	0.53	3744.05	6658.20	2008.25	643.06	37.87	6.13
Royal Ests Sec 1	4.11	3.76	0.00	0.00	996.35	11.98	1897.18	892.35	1962.42	170.64	19.87	3.20
Royal Ests Sec 2	4.22	4.26	0.00	0.00	996.35	12.16	1513.99	787.17	1968.02	262.08	17.75	5.92
Royal Ranch Ests	0.08	3.00	0.00	0.00	217.71	1.99	39.84	1657.41	1993.00	0.00	28.71	7.29
Royal Ranch Ests 1St Add Sec 1	0.44	3.00	0.00	0.00	223.86	1.53	577.37	1670.84	1991.08	834.23	31.88	7.92
Royal Ranch Ests 1St Add Sec 2	0.44	3.00	0.00	0.00	223.86	1.25	453.34	2408.52	1993.22	496.24	31.02	6.60
Royal Ranch Ests 1St Add Sec 3	0.29	3.00	0.00	0.00	223.86	1.98	277.60	3097.55	1995.80	400.86	30.27	6.90
Royal Villa	1.99	3.00	100.00	2.02	66.56	1.03	135.69	465.51	1972.76	748.75	27.00	7.93
Ruthwood Acres	1.76	3.00	98.14	0.00	499.90	1.08	459.29	724.83	1979.07	6174.58	27.00	7.93
Saddlebrook Rep	2.74	3.95	100.00	48.27	414.40	5.15	2479.70	1724.11	1995.76	1155.07	42.15	8.71
San Susan	0.28	5.67	0.00	113.67	486.78	0.88	336.98	999.07	1953.89	2.24	33.92	4.55
Sand Lake Hills Sec 11	2.48	3.58	0.00	0.00	761.73	5.27	856.41	343.45	1986.53	1919.27	48.06	7.19
Sand Lake Hills Sec 9	2.55	5.68	0.00	0.00	761.73	6.23	1768.36	559.15	1984.85	924.49	48.48	19.58
Sand Lake Hills Sec 9A	0.72	3.26	0.00	0.00	761.73	3.30	2094.86	970.36	1991.50	294.71	44.35	8.81
Sand Lake Point Ut 1	1.36	2.05	27.98	0.37	899.97	4.67	900.01	745.20	1988.70	604.20	29.00	8.20
Sand Lake Point Ut 2	1.75	1.00	25.97	0.00	627.65	4.84	2122.05	1720.65	1990.38	766.21	30.96	7.28
Sand Lake Point Ut 4	2.16	1.98	7.00	108.86	709.85	4.69	1295.02	626.89	1994.68	907.37	33.10	7.45
Sand Pines	2.20	5.30	0.00	5.33	492.27	5.03	985.81	423.11	1987.07	916.25	47.07	12.96

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Sandy Shores	1.79	3.00	0.00	0.00	218.61	0.99	432.89	406.02	1975.93	4.58	30.94	7.93
Sandy Springs	2.43	3.95	0.00	0.13	682.42	6.20	650.04	502.89	1987.60	812.83	49.42	8.81
Saracity Gardens Sub	3.24	2.31	0.00	114.13	1000.16	5.09	1212.38	1357.17	1994.62	3143.20	22.98	7.77
Sawmill Ph 1	2.24	5.68	100.00	827.41	739.84	6.32	1226.46	986.35	1989.78	1199.36	31.81	7.53
Sawmill Ph 2	2.60	4.58	100.00	3550.64	739.84	7.29	1710.97	891.72	1990.50	1676.16	31.79	7.22
Sawyer Shores Sub	1.02	3.00	0.00	4.85	218.61	1.49	360.54	747.12	1980.30	135.24	32.32	5.36
School Terrace	3.21	1.00	10.49	1266.89	523.43	4.03	389.05	622.00	1951.69	1104.85	29.91	7.93
Seaward Plantation Ests	0.32	3.00	100.00	3.44	262.26	1.33	306.41	1200.59	1980.03	655.23	12.58	7.14
Seaward Plantation Ests	0.15	3.00	100.00	3.44	73.26	0.88	1332.13	1717.14	1979.78	226.61	9.54	7.38
Seaward Plantation Ests 1St Add	0.34	3.00	100.00	0.00	74.57	0.67	1162.09	2479.20	1980.30	413.18	13.71	6.09
Seaward Plantation Ests 2Nd Add	0.17	2.77	93.64	0.00	90.80	1.05	2465.15	2128.08	1986.96	375.01	11.11	7.63
Seaward Plantation Ests 3Rd Add	0.24	3.00	100.00	0.00	158.29	1.14	1898.31	1220.08	1993.87	1736.48	14.83	7.40
Seaward Plantation Ests 4Th Add	0.26	2.97	100.00	0.00	58.51	0.80	1969.46	1048.07	1990.01	1406.96	14.80	7.69
Seaward Plantation Ests 5Th Add	0.16	3.00	88.02	0.00	82.52	0.76	4024.93	3112.95	1996.08	374.20	12.34	7.93
Semoran Business Ctr	0.51	4.02	100.00	498.41	922.76	2.34	333.33	327.00	1987.08	1879.38	32.52	6.55
Semoran Club Condo	9.37	3.00	100.00	11783.07	1298.16	22.45	181.03	8.44	1978.00	660.50	28.00	7.94
Seneca Ests Sub	0.19	3.00	82.11	0.00	14.32	0.03	32990.71	30780.35	1990.78	1952.11	12.06	6.55
Shadow Bay Spgs Ut 1	2.51	6.00	0.00	0.13	426.08	5.78	1791.80	1751.57	1984.63	443.51	46.66	7.93
Shadow Bay Spgs Ut 2	2.62	6.00	0.00	0.00	682.42	6.06	2076.66	1967.53	1983.46	572.15	45.60	10.19
Shadow Bay Spgs Ut 3	2.45	5.88	0.00	0.00	682.42	3.52	2410.06	2330.77	1984.50	467.87	44.76	10.89
Shadow Bay Spgs Ut 4	2.37	6.00	0.00	0.13	682.42	5.35	2035.58	2008.24	1985.21	386.23	45.74	8.56
Shadow Bay Spgs Ut 5	3.09	6.00	0.00	0.00	651.15	6.93	1615.03	1627.17	1985.63	350.84	43.35	15.65
Shadowridge	2.78	4.98	100.00	140.24	741.05	5.56	575.76	683.88	1987.37	615.03	37.80	7.67
Shady Acres	2.87	3.00	0.00	0.00	801.68	6.71	425.99	231.10	1957.88	1058.55	33.00	7.93
Shady Oak Cove	2.89	3.00	100.00	103.99	728.06	5.19	764.09	1351.71	1984.42	83.54	30.73	7.95
Shenna Hill	3.11	3.43	100.00	140.24	741.05	6.02	189.95	532.69	1991.09	630.77	31.40	7.95
Sherman Farms	0.09	3.00	35.25	0.00	443.54	1.91	664.24	319.24	1947.00	638.99	12.05	3.61
Sherman Farms	0.24	3.00	20.99	0.00	465.82	4.58	378.05	440.34	1979.31	1628.97	15.88	2.29
Sherwood Forest	4.17	3.00	0.00	0.00	1904.48	9.24	474.89	227.22	1986.01	2001.20	17.05	7.93



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**DRAFT**  
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Sherwood Park Ut 1	0.40	3.00	0.00	9.16	366.41	3.66	347.87	290.59	1961.00	832.74	20.73	7.84
Shiocton Hgts	2.93	3.00	63.69	0.00	443.54	1.65	834.36	413.97	1992.90	2204.39	14.69	6.54
Siesta Hills	4.53	3.00	100.00	0.00	742.81	6.92	193.93	561.65	1969.56	460.95	31.68	7.95
Sillers Add To Gotha	0.40	3.00	0.00	164.61	356.75	2.32	86.13	252.47	1982.40	482.15	34.85	6.76
Silver Beach Sub	3.57	3.00	0.00	0.00	651.79	9.48	861.61	485.14	1959.14	853.09	27.82	7.93
Silver Ridge Ph 1	2.34	5.38	100.00	1297.49	924.49	8.25	1041.85	969.99	1985.82	2132.85	30.08	6.68
Silver Ridge Ph 3	2.62	5.95	100.00	1297.49	870.95	7.68	2591.38	2323.10	1988.24	1081.41	38.77	7.95
Silver Ridge Ph 4 Ut 1	1.54	2.37	100.00	0.00	870.95	5.99	1287.94	1131.76	1993.50	448.11	31.71	6.55
Silver Ridge Ph 4 Ut 2	1.90	1.93	100.00	0.00	870.95	5.37	1431.77	1299.98	1994.53	516.23	31.51	7.73
Silver Ridge Ph 4 Ut 3	2.13	2.15	100.00	0.00	870.95	5.34	922.98	733.93	1995.68	390.48	28.05	7.94
Silver Rose	2.40	6.00	100.00	20.22	924.83	7.20	898.92	546.79	1987.80	2160.11	32.10	7.95
Silver Star Ests	3.22	3.00	100.00	1297.49	924.49	4.01	1242.20	1629.74	1960.13	1281.77	30.38	7.95
Silver Star Ests 1St Add	2.71	1.86	100.00	0.00	870.95	6.05	1978.64	2090.72	1968.90	247.69	29.39	7.28
Silver Star Manor	3.28	3.00	100.00	0.00	1599.69	7.13	830.57	432.47	1962.42	1776.88	29.57	7.95
Silver Woods Ph 1	2.60	4.74	0.00	81.52	482.54	5.94	1110.47	1102.87	1985.76	1222.31	44.33	10.53
Silver Woods Ph 3	2.80	3.63	0.00	3.85	482.54	5.28	1797.44	690.09	1985.88	1370.77	41.73	8.29
Silver Woods Ph 3A	3.26	3.47	0.00	81.52	482.54	7.84	1216.47	1523.50	1986.30	890.73	42.43	7.16
Silver Woods Ph 4	2.65	3.05	0.00	81.52	482.54	5.57	1117.57	1852.81	1987.00	617.30	39.84	5.62
Silver Woods Ph 5	2.98	3.00	0.00	81.52	482.54	6.13	272.45	1875.36	1987.06	1047.76	40.63	6.53
Sinclair Park	1.36	3.00	0.00	0.00	1000.16	2.02	261.41	1659.68	1968.41	2042.08	21.72	7.16
Sky Acres	1.72	3.00	100.00	0.00	299.15	1.51	190.89	678.98	1978.27	1379.94	16.30	7.94
Skycrests	2.53	3.00	0.00	1303.76	903.57	5.19	728.58	437.12	1959.25	508.86	31.42	6.97
Skycrests 1St Add	1.23	3.00	0.00	8246.55	903.57	2.19	1365.00	462.58	1964.11	81.52	28.02	3.72
Slauson And Gibons	1.52	3.00	100.00	30.53	1121.91	6.78	523.60	308.54	1972.22	2249.14	41.48	7.95
Sleepy Hollow Ph 2	1.95	3.35	100.00	193.40	791.80	3.47	1468.25	2420.69	1986.34	181.04	28.53	6.76
Sloewood East Ut 1	0.80	3.00	0.00	1.65	172.00	1.24	4081.86	3229.36	1992.70	156.40	23.36	7.93
Smith Emery Sub	0.25	3.00	100.00	0.00	34.88	0.26	1774.74	1006.60	1983.40	948.36	41.70	5.59
Smith G T Sub No 7	0.93	3.00	0.00	188.32	657.56	1.76	410.77	359.87	1959.89	1897.53	35.40	7.33
Somerset At Lakeville Oaks	2.48	4.02	100.00	0.00	854.91	6.51	1304.31	1165.20	1989.98	1297.95	26.93	7.49
Somerset At Lakeville Oaks Ph 2	2.87	5.41	100.00	0.00	368.25	7.42	572.40	569.21	1994.80	1721.40	30.32	7.95
South Bay Sec 2	1.27	1.67	0.00	0.00	443.22	3.15	932.66	191.48	1987.65	743.52	34.11	7.57
South Bay Sec 3	0.95	3.00	0.00	0.00	340.26	2.81	347.83	263.87	1991.39	335.05	33.11	6.36

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South Bay Sec 4	1.90	2.26	0.00	0.00	661.96	2.61	367.59	237.21	1990.00	981.12	35.00	7.95
South Bay Sec 6	1.63	1.83	0.00	0.00	402.99	4.05	906.44	265.34	1988.90	870.62	35.55	9.10
South Bay Villas	2.41	2.81	0.00	0.00	402.99	2.81	254.74	432.67	1991.00	467.81	34.77	7.22
Southchase Ph 1A Par 13	0.21	3.00	100.00	0.00	291.32	0.00	800.83	903.39	2001.00	3104.95	25.05	7.94
Southern Acres Sub	0.88	5.31	0.00	0.00	197.88	0.99	2121.63	976.65	1999.59	956.38	37.00	7.95
Southfork Sub Ut 1	1.38	3.00	0.00	0.00	820.76	2.84	1237.81	617.53	1989.83	460.83	31.57	4.38
Southfork Sub Ut 2	3.30	3.00	0.00	0.00	820.76	7.06	701.36	432.01	1990.02	613.40	32.00	7.94
Southridge	4.10	4.60	0.00	15.01	864.93	7.90	642.93	622.17	1987.50	1109.31	36.09	7.95
Sparling Hills	2.79	4.10	100.00	0.00	772.68	7.72	420.65	372.05	1983.46	1402.44	34.36	7.95
Spences Point	1.63	3.00	0.00	110.70	334.32	2.33	1595.10	1673.54	1988.70	103.85	30.75	6.48
Sphaler Add To Prosper Colony	0.06	3.00	100.00	4.33	1.22	0.00	382.47	2220.91	1985.88	4784.20	28.00	7.94
Sphaler Add To Taft	0.07	3.00	100.00	1.17	1.42	0.00	209.96	349.66	2016.00	2007.60	28.08	7.94
Sphaler Add To Taft	1.39	3.00	100.00	741.92	310.76	3.31	596.17	1524.64	1987.57	3156.05	28.00	7.93
Sphaler Add To Taft Resub	2.12	3.00	100.00	741.92	695.49	7.83	908.96	974.78	1957.81	2765.90	28.00	7.95
Spillmans Ridge	6.36	3.00	100.00	166.05	555.66	3.47	617.34	1341.28	1989.29	826.32	27.68	7.93
Spring Hollow Ph 1	0.54	3.86	100.00	87.46	148.02	1.48	1182.32	2289.83	1991.78	2189.44	21.38	6.32
Spring Pine Villas	4.83	3.00	0.00	0.00	1099.05	6.44	1355.17	1323.00	1984.13	1351.61	22.04	7.93
Spring Pines	2.62	2.89	0.00	43.06	1099.05	8.48	1267.59	859.83	1981.95	2621.71	22.70	4.53
Spring Pines 1St Add	2.83	3.00	0.00	0.00	1099.05	6.47	1140.20	951.60	1982.43	1265.99	22.46	7.93
Stansbury Ests	3.03	3.00	0.00	31.73	728.53	7.71	225.96	132.28	1941.55	2152.03	30.00	0.78
Stewart Homestead	0.57	3.00	100.00	0.00	728.06	3.87	535.15	556.16	1972.53	1465.73	26.33	7.05
Stokes Sub	0.76	1.00	33.12	1266.89	250.45	0.94	816.84	654.04	1973.00	0.00	26.24	4.13
Suburban Homes	2.03	3.00	100.00	11757.90	500.46	1.93	56.81	650.19	1959.19	897.87	24.91	1.79
Suburban Homes 1St Add	2.33	3.00	100.00	0.00	500.46	6.41	89.60	280.65	1972.56	1400.56	24.98	0.95
Summer Lakes	1.80	3.16	0.00	8.32	512.47	4.05	515.82	957.34	1986.99	302.18	27.56	5.10
Summer Oaks	2.24	3.00	59.60	0.00	204.42	1.84	438.62	680.85	1984.00	816.57	18.24	3.06
Summerbrook	3.47	4.70	100.00	204.80	791.80	7.71	565.08	1350.51	1985.34	605.27	34.16	7.95
Summerfield Ests	2.95	2.14	100.00	290.55	646.43	5.79	323.91	3048.15	1981.48	628.53	34.87	7.95
Summerlake Pd Ph 1A	0.06	3.00	0.00	0.00	11.96	0.05	34.20	24.31		563.58	31.84	7.94
Summerport Beach	2.25	5.83	0.00	68.72	171.97	0.99	2811.15	2505.62	1973.65	0.00	34.24	7.82
Sun Kist Park	0.45	3.00	0.00	151.78	363.15	1.29	814.01	181.88	1964.75	100.04	27.52	7.93
Sunday Blk	1.36	1.00	0.00	495.87	376.16	0.33	10.82	134.16	1951.17	784.01	29.00	0.21
Sunrise City Rep	0.12	3.00	0.00	0.00	1000.16	1.27	133.03	1491.80	1945.00	1519.77	20.68	6.68

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Sunset Bay	0.40	3.00	0.00	3.85	182.72	0.95	365.77	569.91	1996.62	189.84	30.64	2.64
Sunset Lakes	0.59	3.00	0.00	1854.46	269.48	1.76	1252.17	1294.40	1997.00	149.06	33.34	5.78
Sunset Preserve Phase 1	0.54	1.00	0.00	0.00	25.95	0.15	9396.20	7425.50	2032.27	1140.21	18.20	5.19
Sunshine Gardens	3.32	1.00	36.76	1.82	425.65	6.68	1015.01	1106.50	1961.71	1137.55	29.98	7.93
Sunshine Gardens 1St Add	3.42	1.00	73.57	1.82	752.19	4.72	365.38	477.70	1961.33	1356.36	29.85	7.93
Sunshine Sub	3.42	3.00	100.00	0.00	1380.68	15.45	626.11	160.85	1966.58	1175.67	26.35	7.95
Surrey Ridge	3.50	3.00	0.00	0.00	309.23	7.34	821.41	379.87	1988.34	1013.49	21.37	7.10
Sussex Place Ph 1	6.38	3.00	100.00	220.54	1647.21	11.98	216.50	376.39	1984.30	2654.34	25.45	7.85
Sweetaire Of Wekiva	3.03	5.15	100.00	98.42	630.02	6.73	257.33	272.54	1985.93	1193.44	32.26	7.95
Sweetwater Country Club Place	2.56	5.08	100.00	0.00	445.17	3.34	554.80	269.86	1986.63	2137.91	27.65	7.95
Sweetwater West	1.95	4.24	100.00	0.00	465.05	5.02	1213.48	1170.89	1995.16	3135.38	19.44	7.34
Taft	1.60	3.00	100.00	741.92	310.76	4.02	785.05	1398.44	1979.32	4478.62	28.00	7.90
Taft (Tier 10 & Above)	3.30	3.00	100.00	13922.95	380.01	6.66	1950.02	690.95	1985.59	5823.29	28.00	7.93
Taft Rep Blk C Tier 2	4.01	3.00	100.00	741.92	310.76	6.21	752.34	1795.21	1950.57	3539.91	28.00	7.93
Tamarack Village	2.73	3.66	100.00	0.00	702.60	2.36	356.39	558.20	1986.13	2193.09	17.62	7.00
Tangerine	1.81	4.66	0.00	93.67	214.53	3.99	9473.10	8520.07	1974.50	2273.70	46.25	6.84
Tangerine Hgts	0.24	3.00	0.00	71.05	73.43	0.40	14440.91	13704.07	1986.00	287.34	24.73	5.97
Tangerine Reserve	0.89	6.00	0.00	0.00	144.84	0.97	10225.83	9186.08	2014.45	1853.88	47.90	7.95
Tangerine Terrace On Lake Ola	0.40	3.00	0.00	93.67	214.53	1.35	8208.35	7182.90	1968.45	345.32	27.89	6.59
Tangerine Woods	0.09	1.00	67.94	19.57	49.10	0.16	9656.53	8637.60	2009.00	971.51	27.11	7.95
Taylor Creek Hgts	1.06	3.00	0.00	0.00	10.85	0.09	39224.02	36832.81	1987.50	4992.70	13.71	6.94
Teeples Add	1.86	3.00	100.00	0.00	130.57	2.35	173.02	5224.55	1964.73	1509.69	27.61	5.49
Terrell Terrace	2.10	6.00	100.00	0.00	52.71	0.32	10675.11	10119.93	2008.00	2616.55	45.02	7.95
Thompson John A Sub	0.33	1.00	0.00	1760.67	494.96	0.00	161.08	425.72	1992.00	189.20	32.65	7.93
Tiffany Acres	1.71	3.10	100.00	0.00	618.87	1.24	595.15	608.34	1976.24	1600.84	23.43	6.72
Tiffany Terrace	2.77	3.00	100.00	0.00	381.58	7.24	546.87	351.23	1966.06	2178.46	25.17	5.50
Tilden Manor	0.25	3.00	100.00	71.03	200.39	0.55	44.41	82.30	1978.17	3084.95	25.18	7.93
Tildens Grove Ph 1	0.67	3.20	0.00	68.72	171.97	1.36	1368.31	1423.49	2004.01	362.58	34.55	6.61
Tildens Grove Ph 2	1.18	3.11	0.00	0.00	197.88	2.74	761.38	1266.42	2005.87	866.88	36.89	7.93
Tindaro Pine Ests	4.00	3.00	0.00	0.00	664.71	6.08	673.62	421.70	1984.11	1195.38	21.89	7.85
Torey Pines Ut 1	1.04	4.96	0.00	81.52	447.39	2.96	527.67	1116.09	1989.67	1067.82	42.36	7.83

Appendix A  
**DRAFT**  
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Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Torey Pines Ut 2	1.58	5.82	0.00	0.00	447.39	4.37	2019.70	857.90	1991.09	1769.44	48.33	17.41
Torey Pines Ut 3	1.33	5.68	0.00	0.00	386.64	3.38	1551.75	900.28	1993.04	1490.17	52.03	19.97
Toronto	0.10	1.00	100.00	187.14	49.22	0.07	284.06	2511.38	1984.00	2655.12	37.00	7.87
Townhomes At Tuscany Condo	9.95	3.00	0.00	31.73	728.53	8.17	24.12	179.76	2003.00	2746.39	28.00	0.78
Treasure Oaks	5.11	3.00	0.00	0.00	796.22	2.67	32.09	534.59	1985.19	2249.00	30.94	7.93
Trentonian Court	1.72	3.00	0.00	0.00	861.99	4.87	324.22	680.99	1948.77	457.69	29.32	6.99
Triangle Terrace	0.85	3.00	100.00	2.02	1078.15	1.78	179.59	643.41	1955.00	1587.49	27.00	3.00
Trocadero Sub	1.03	3.00	0.00	0.00	279.69	1.71	65.90	1425.75	1978.94	1213.65	18.20	1.34
Trotwood Park	1.49	3.00	100.00	2.02	1078.15	3.37	434.13	837.65	1964.35	1441.47	27.00	7.93
Trout Lake Camp	0.28	3.36	100.00	0.78	324.86	0.40	486.05	380.47	1949.42	166.92	19.24	2.51
Troynelle By Big Lake Apopka	1.62	4.61	100.00	129.67	143.21	5.54	11274.21	10911.41	1960.21	330.26	26.34	10.38
Tuckaway Terrace	2.97	3.00	100.00	166.05	644.19	6.84	179.40	330.07	1966.32	581.70	27.53	7.75
Turnbury Woods	1.08	5.99	0.00	81.52	407.71	2.82	1195.72	1442.68	1986.09	1627.43	43.44	19.51
Tuscany Village Vacation Suites Ph 1	0.10	3.00	100.00	0.00	104.70	1.43	8.18	1128.55	2005.00	2162.36	35.03	7.90
Tuscany Village Vacation Suites Ph 7	0.06	3.00	100.00	0.00	104.70	0.26	114.95	1098.52	2004.00	1575.90	34.89	7.82
Twin Oaks	3.88	1.00	100.00	1.82	752.19	4.64	488.33	380.70	1983.06	896.43	28.20	7.93
Twin Oaks Manor	1.56	2.89	0.00	0.00	245.16	2.25	160.75	208.31	1969.64	2922.94	19.19	5.21
Union Park Ests	2.07	3.00	0.00	11.45	279.69	3.33	473.61	1765.88	1969.42	886.07	15.61	3.74
Universal Center Condo	9.76	3.00	0.00	12.34	601.55	4.17	250.54	245.88	2005.00	794.90	38.00	7.95
University Forest	2.68	3.00	95.54	0.00	900.41	9.21	329.27	233.25	1985.68	443.50	20.79	0.79
University Garden	2.62	3.00	100.00	21.23	867.00	16.04	444.49	482.13	1985.15	159.49	23.07	7.60
University Hgts	2.43	1.00	97.72	672.69	522.54	5.50	506.55	312.05	1968.46	572.38	28.17	7.93
University Hills	3.20	4.48	100.00	0.00	1372.96	8.46	1210.21	1163.52	1982.51	2266.74	25.78	10.04
University Oaks Office Park Condo	1.33	3.00	0.00	0.09	635.38	0.00	90.91	43.94	2000.80	199.29	16.46	4.33
University Place Ut 2	3.62	3.83	100.00	0.00	1372.96	7.63	1186.58	743.86	1982.82	2154.87	26.85	9.46
University Woods Ph 1	2.90	3.00	0.00	0.00	1248.04	8.72	138.27	152.38	1986.57	584.58	18.90	4.36
University Woods Ph 2	2.11	3.00	0.00	127.39	1248.04	9.87	900.89	584.35	1986.76	343.07	19.45	4.89
Unrecorded Plat Of Dorwood Manor	0.56	3.70	100.00	0.00	497.63	1.16	467.02	797.72	1968.60	2307.03	37.79	8.88



Appendix A  
**DRAFT**  
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Unrecored Fleckenstein-Grier	1.77	1.00	93.24	672.69	624.01	5.82	432.14	1521.23	1956.89	354.36	27.31	7.62
Valencia Hills Ut 1	2.69	6.00	0.00	133.07	987.15	7.51	631.04	1820.81	1984.70	1330.16	40.36	7.95
Valencia Hills Ut 2	2.69	6.00	0.00	133.07	987.15	6.32	369.87	1354.99	1986.11	1368.34	40.36	7.95
Valencia Hills Ut 3	2.67	6.00	0.00	0.00	757.96	6.83	526.99	1037.69	1988.31	1563.12	38.96	7.95
Valeview	2.90	3.00	100.00	47.41	224.55	1.65	442.25	485.66	1990.00	1658.82	38.55	7.11
Verhovay Colony	0.03	3.00	100.00	0.00	2.02	0.00	1701.34	382.21	1999.00	1794.87	24.13	4.89
Victor Hgts	0.96	3.00	100.00	1324.08	842.91	4.22	301.96	1103.02	1963.20	919.04	30.65	7.94
Victoria	0.02	3.01	83.60	0.00	10.91	0.03	7947.59	6813.73	1981.67	474.20	23.60	5.07
Victoria Pines Condo Ph 1	2.14	1.00	0.00	56.02	618.58	4.69	93.84	34.45	2005.00	7065.32	24.00	7.93
Victoria Pines Condo Ph 2	2.73	1.00	0.00	56.02	736.01	4.69	52.26	187.47	2005.00	7055.42	24.00	7.95
Victoria Pines Condo Ph 3	2.73	1.00	0.00	56.02	618.58	19.46	218.73	152.05	2006.00	7208.33	24.00	7.93
Victoria Pines Condo Ph 4	2.60	1.00	0.00	56.02	618.58	21.73	156.96	200.59	2006.00	7201.73	24.00	7.93
Victoria Pines Condo Ph 5	3.21	1.00	0.00	56.02	618.58	5.03	40.47	294.93	2005.00	7136.02	24.00	7.94
Victoria Place Ut 1	2.75	5.57	0.00	0.00	757.96	7.26	798.47	1208.98	1988.52	868.87	37.48	7.62
Villas At Pine Hills	0.10	3.00	100.00	20010.51	1083.53	8.74	84.90	167.90	1984.00	1449.64	32.10	7.73
Villas Of Lake Destiny	7.40	3.00	100.00	32.36	166.70	4.45	1121.76	483.14	1998.47	400.20	27.64	6.89
Vineland Oaks	1.82	3.32	0.00	0.00	757.96	6.00	247.70	325.74	1995.96	188.99	25.88	4.95
Vineyard Ph 1	10.16	3.00	100.00	0.00	449.94	5.19	264.86	1545.31	1981.00	1043.84	24.60	7.94
Vineyard Ph 2	10.97	3.00	100.00	0.00	449.94	8.25	556.26	1398.87	1983.00	1011.11	25.25	7.95
Vineyard Ph 3	11.15	3.00	100.00	103.99	449.94	5.19	656.58	1341.34	1983.00	668.97	29.33	6.49
Vineyard Ph 4	10.74	3.00	100.00	0.00	449.94	5.19	680.39	1260.21	1984.00	792.10	28.25	6.44
Vineyard Ph 5	8.79	3.00	100.00	0.00	449.94	6.87	721.59	1178.85	1984.00	934.90	27.60	6.57
Vineyard Ph 6	8.95	3.00	100.00	0.00	449.94	5.19	284.45	1660.38	1988.00	875.75	26.00	7.95
Vista Del Lago P D	0.11	4.20	0.00	0.00	372.97	0.80	9795.91	4692.78	2007.00	26.14	33.67	6.92
Vista Hills Ut 1	2.71	4.79	100.00	0.00	841.00	6.70	614.40	731.28	1983.37	1102.17	34.59	7.95
Vistana Fountains Condo Ph 6	0.26	3.53	0.00	104.65	149.28	0.00	409.32	275.29	1990.00	1472.36	32.65	3.79
Vistana Fountains Condo Ph 7	0.65	5.63	0.00	104.65	149.28	0.00	603.48	449.74	1992.00	1469.61	32.50	6.14
Vistana Lakes Ph 4	1.52	3.00	0.00	104.65	149.28	0.09	759.61	788.04	1996.00	1794.68	30.88	3.91
Vizcaya Heights Condo 3	0.76	3.00	0.00	7.20	536.55	1.02	721.46	393.75	2003.00	117.67	28.63	1.18
W E Hudson	0.27	3.19	0.00	0.00	144.68	1.24	3892.32	2865.05	1970.88	218.24	23.94	7.93
Wagner Nicholas Sub	1.00	3.00	0.00	64.78	260.35	1.62	1140.78	122.57	1954.93	1716.12	30.00	7.95

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**DRAFT**  
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Waikiki Beach	0.37	5.60	100.00	0.00	596.13	1.32	309.02	306.78	1962.30	205.84	30.91	5.39
Waikiki Beach 1St Add	0.11	3.49	100.00	0.00	596.13	0.99	98.44	342.46	1950.67	31.97	26.94	3.20
Waits W H Sub	2.18	3.00	0.00	0.00	798.74	2.66	323.55	242.75	1955.45	1462.54	31.22	7.95
Walden Grove Ut 1	3.13	5.82	100.00	0.00	1471.25	9.96	532.60	283.54	1985.43	1559.60	38.92	7.95
Walden Woods	5.13	3.00	0.00	0.00	1904.48	5.70	25.58	107.33	1982.06	707.75	14.61	7.95
Walker-Dean Sub Ut 2	0.72	3.00	0.00	0.00	279.69	3.43	143.83	322.55	1971.00	1018.04	18.46	5.24
Walker-Rouse Sub	0.08	3.00	100.00	0.00	249.41	1.37	32.96	292.85	1990.33	648.73	13.36	7.62
Walmar	0.25	4.80	100.00	0.00	52.27	0.43	1073.68	1186.88	1987.15	5258.12	39.46	7.95
Washington Manor	0.74	3.00	0.00	0.22	260.35	1.27	1429.69	97.37	1951.67	1696.95	30.00	7.95
Waterford Pointe	0.58	3.00	0.00	1854.46	360.53	1.82	1074.98	863.05	1994.18	217.45	34.91	7.37
Waterford Pointe Ph 2 Rep	0.39	3.00	51.38	0.00	180.08	0.99	1080.80	819.12	1998.29	139.85	33.72	3.78
Watermill Sec 1	1.51	3.00	87.54	0.00	624.31	3.74	1325.94	724.31	1983.01	333.08	17.06	6.47
Watermill Sec 2	1.65	3.00	100.00	6.67	624.31	3.22	1971.51	1979.23	1984.00	661.99	17.17	6.16
Watermill Sec 2	1.78	3.00	90.85	28.64	360.36	3.27	2341.87	2193.87	1985.60	593.81	16.97	7.23
Watermill Sec 2 Rep	0.35	3.00	100.00	6.67	624.31	2.58	1998.75	1478.29	1984.00	306.75	17.00	6.80
Watermill Sec 3	2.76	3.00	100.00	28.64	368.16	4.70	1753.59	1470.09	1985.86	892.17	17.91	7.94
Watermill Sec 4	2.18	3.00	100.00	28.64	368.16	4.36	1040.36	676.57	1986.95	418.60	17.77	6.82
Watermill Sec 5	2.22	3.00	84.18	28.64	360.36	5.26	2185.07	2067.80	1988.43	335.41	17.75	6.73
Watermill Sec 6	1.73	3.00	100.00	6.67	399.41	1.54	1006.68	2771.86	1992.56	263.85	17.59	2.06
Watermill Sec 7	1.72	3.00	89.82	6.67	399.41	4.10	1044.99	1884.76	1991.75	250.54	17.42	4.03
Watermill Sec 8	0.80	3.00	56.47	6.67	624.31	2.91	1364.24	917.92	1992.00	163.37	16.46	3.73
Watermill West	2.25	3.00	100.00	0.00	482.87	5.18	609.75	165.51	1984.79	523.95	18.57	6.56
Waterwitch Club	2.41	1.00	0.00	40.05	489.70	5.19	2130.09	1940.56	1961.93	495.01	30.55	7.95
Waunatta Shores	0.63	3.00	49.00	0.00	765.50	2.28	355.22	316.89	1979.56	73.88	18.91	2.39
Wawa Store At Avalon Road	0.10	4.68	0.00	87.94	128.55	0.65	9452.24	3347.73	2014.00	0.00	33.17	6.38
Weatherstone On Lake Olivia	0.32	3.00	0.00	7.69	187.73	0.68	220.31	1725.73	2002.15	153.24	33.15	3.33
Weissinger Fairvilla Sub	0.28	2.79	100.00	7010.80	233.41	0.09	160.77	101.53	1971.85	1924.36	30.00	7.92
Wekiva Forest Trails	0.05	3.00	100.00	208.95	43.50	0.07	2406.20	2770.82	2016.33	711.64	26.40	5.62
Wekiva Landing Partial Rep	0.29	3.00	100.00	0.00	370.80	2.54	994.25	682.35	1991.00	167.62	19.67	4.72
Wekiva Landing Sub	0.51	3.00	100.00	0.00	370.80	2.49	707.36	555.31	1989.71	207.35	19.73	4.56
Wekiva Ridge	2.84	4.71	100.00	98.42	630.02	3.34	597.74	721.24	1982.43	1372.94	30.80	7.95

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Wekiwa Highlands	1.72	3.23	100.00	0.00	465.05	4.49	2055.78	2000.55	1970.50	2477.76	24.72	5.64
Wekiwa Highlands	0.86	3.00	100.00	0.00	399.88	2.92	361.03	153.22	1958.50	2437.11	17.90	7.95
Wekiwa Hills	1.19	3.93	100.00	67.68	399.88	3.07	1627.93	1528.95	1978.57	1051.59	23.15	7.58
Wekiwa Hills 2Nd Add	1.14	5.38	100.00	67.68	538.08	3.25	2776.51	2743.57	1980.27	1168.52	23.97	7.95
Wekiwa Manor Sec 2	4.15	3.00	100.00	498.41	924.83	12.43	671.93	585.11	1962.69	758.47	31.83	7.79
Wekiwa Manor Sec 3	3.41	3.06	100.00	0.00	924.83	9.07	61.15	248.08	1970.83	443.69	31.47	7.95
Wekiwa Spgs Park Rep	0.60	6.00	100.00	0.11	68.94	2.93	153.93	175.65	1965.00	1539.67	24.11	7.95
Wekiwa Woods Ph 1	1.97	3.00	100.00	155.25	221.45	3.30	3222.68	3370.08	1993.68	628.88	19.97	6.01
Wekiwa Woods Ph 2	1.99	3.00	100.00	155.25	221.45	1.74	3072.88	3056.74	1995.19	679.91	22.40	6.38
Wells Gap	0.70	3.00	100.00	486.46	542.36	2.38	1255.46	1634.23	1944.67	0.00	19.18	4.45
West Orlando	0.97	3.00	100.00	2.76	415.89	0.06	297.17	88.88	1963.32	2488.54	29.91	7.95
West Winter Park	0.24	3.00	0.00	0.00	562.32	2.39	227.41	829.99	1968.95	286.69	27.35	5.05
Westmont	4.00	4.07	0.00	3.06	916.91	8.21	532.72	583.01	1979.33	741.48	41.91	8.84
Westmoor Ph 1	1.97	4.25	0.00	15.01	755.17	5.53	977.44	730.78	1984.24	707.08	32.82	5.88
Westmoor Ph 3	3.26	6.00	0.00	15.01	755.17	6.60	670.45	429.40	1988.12	967.70	37.98	7.95
Westmoor Ph 4A	2.71	5.36	0.00	133.07	755.17	3.85	352.19	1015.57	1985.89	1401.76	39.73	7.95
Westmoor Ph 4B	2.70	5.10	0.00	15.01	755.17	6.84	786.08	747.71	1986.66	1008.24	37.80	7.80
Westmoor Ph 4D	2.31	4.24	0.00	15.01	755.17	5.45	568.27	915.26	1988.70	316.31	36.20	7.32
Weston Woods	3.10	6.00	100.00	0.00	596.13	4.24	1794.37	1763.38	1992.73	675.94	33.89	7.95
Westover Hills	3.15	4.74	100.00	109.82	657.15	7.65	1515.63	777.66	1989.31	648.87	34.21	6.97
Westwind Ut 2	0.75	6.00	100.00	0.00	368.25	1.67	2956.65	2961.57	1981.35	1234.90	29.10	7.95
Westwind Ut 3	0.70	4.77	100.00	0.00	131.78	1.28	2663.79	2786.03	1985.07	975.29	25.45	7.26
Whipple Bishop Sub	0.98	1.00	100.00	692.41	72.71	0.98	884.85	972.98	1966.80	395.13	29.61	2.54
Whipple Bishop Sub	0.17	1.00	100.00	0.00	72.71	0.84	230.65	125.85	1976.16	1858.54	29.99	4.80
Whisper Ridge	2.45	6.00	100.00	0.00	772.68	7.08	571.24	340.23	1991.06	1395.20	34.55	7.95
Whispering Hills	2.64	2.90	100.00	290.55	646.43	6.49	566.27	2080.47	1974.32	239.97	34.37	7.95
Whispering Pines	3.61	3.00	0.00	144.64	706.47	9.22	682.94	480.82	1982.86	1832.68	32.33	7.95
Whispering Pines Ests	3.35	3.00	100.00	7928.67	674.70	5.59	192.41	886.87	1962.86	2580.52	27.11	7.92
Whispering Pines Ests 1St Add	2.58	3.00	100.00	7928.67	674.70	4.78	203.89	767.62	1971.60	2803.07	27.09	7.93
Whispering Pines Place Condo	16.07	3.00	0.00	144.64	706.47	9.22	774.95	351.99	1984.00	2109.68	33.00	7.95
Wiles Carl Resub	0.36	3.00	0.00	93.67	135.35	1.13	9001.21	8029.70	1993.00	603.98	31.13	2.33
Willis And Brundidge Sub	2.58	3.00	0.00	0.00	674.46	4.65	1572.59	2040.77	1967.31	318.32	29.15	7.95

Appendix A  
DRAFT  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Willis R Mungers Land	0.15	3.05	100.00	0.00	841.00	4.69	10.98	141.90	1954.50	966.81	27.21	7.95
Willis R Mungers Land Sub	0.03	3.02	8.60	222.25	465.97	1.34	476.79	375.43	1991.73	254.63	29.56	5.19
Willow Creek Ph 1	2.18	3.34	100.00	0.00	919.19	5.74	837.77	796.69	1986.06	612.80	34.19	6.51
Willow Creek Ph 2	2.83	3.94	100.00	0.00	919.19	7.78	1569.12	1557.45	1988.29	1113.45	34.93	7.95
Willow Creek Ph 3 A	3.13	5.90	100.00	0.00	919.19	7.79	1516.12	1512.16	1988.58	1535.53	38.56	7.95
Willow Creek Ph 4	2.76	3.00	100.00	204.80	919.19	7.85	818.63	811.97	1994.74	776.97	33.52	7.95
Willowbrook Cove	4.80	1.72	0.00	27.34	550.14	5.49	581.75	469.90	1985.36	1775.17	28.61	7.94
Willows At Lake Rhea Ph 1	1.03	3.00	0.00	0.00	284.65	2.31	1337.23	896.72	1990.08	1399.74	36.95	7.95
Willows At Lake Rhea Ph 2	1.09	3.00	0.00	0.00	270.51	2.16	2619.19	1769.13	1993.12	1535.29	35.72	7.37
Willows At Lake Rhea Ph 3	0.63	3.00	0.00	4.41	430.99	2.39	1577.04	647.46	1994.39	568.34	36.05	7.03
Willowwood Ut 1	0.94	5.19	0.00	157.81	469.17	2.56	1724.14	1628.73	1986.35	981.31	44.91	10.57
Willowwood Ut 2	0.97	3.98	0.00	0.00	368.72	2.17	998.62	696.08	1987.44	1630.51	43.96	7.06
Winderlakes	1.49	3.88	0.00	1.84	426.08	2.09	1901.71	1393.11	1980.41	256.42	45.58	7.37
Winderlakes 2	1.58	5.42	0.00	1.84	453.98	3.15	1203.48	954.60	1983.76	436.20	41.87	8.92
Windermere	0.95	3.37	10.70	0.00	405.24	2.06	3268.01	4407.86	1973.21	343.72	33.04	4.80
Windermere Downs Ph 3	0.87	3.00	0.00	164.61	331.55	2.79	1236.25	528.68	2000.19	1298.72	38.52	7.64
Windermere Grande	0.88	3.00	0.00	20.76	180.73	1.61	2976.16	1859.68	2004.68	575.46	34.42	5.57
Windermere Hgts 1St Sec	0.26	3.44	0.00	43.49	469.17	3.14	1427.32	1189.20	1979.00	447.25	47.26	9.59
Windermere Hgts 2Nd Sec	0.79	6.00	0.00	43.49	386.64	2.93	1478.19	572.01	1993.19	1944.62	52.81	17.62
Windermere Hgts 3Rd Sec	0.88	5.60	0.00	43.49	386.64	3.04	762.68	399.11	1990.94	1750.14	51.61	15.64
Windermere Pointe At Lake Roper	0.53	3.00	0.00	103.69	269.48	1.43	2293.04	1408.51	2002.92	12.86	32.00	5.71
Windermere Town Of Rep	0.89	3.00	0.00	219.86	404.56	2.35	1657.98	3372.77	1979.27	142.46	32.86	4.93
Winderwood	2.50	5.11	0.00	0.13	426.08	3.29	1313.23	679.04	1987.29	722.75	48.49	10.09
Windridge	3.65	3.00	100.00	166.05	555.66	3.47	579.22	1708.67	1980.72	1296.95	27.87	7.93
Windridge Ut 2	2.68	3.00	100.00	166.05	555.66	3.60	1489.27	1568.86	1982.56	600.51	24.51	7.93
Windsor Hill	1.19	3.03	0.00	0.00	456.88	3.54	1787.69	1052.43	1997.74	2133.19	49.50	7.10
Windsor Hill	0.20	3.00	0.00	0.00	371.41	2.94	2484.43	2252.00	2007.00	1057.06	39.88	6.17
Windsor Hill Reserve	0.58	3.00	0.00	0.00	371.41	2.94	2503.36	1809.14	2008.43	1540.94	44.76	7.13
Windward Ests	3.02	3.00	0.00	0.00	861.99	8.20	216.44	318.75	1988.87	1736.33	31.33	7.95
Windward Place	2.99	3.00	0.00	0.00	861.99	5.54	304.83	478.28	1986.84	1388.15	31.33	7.95
Wingrove Ests	2.75	4.01	0.00	43.49	469.17	3.21	1046.74	1058.74	1990.58	938.69	49.83	9.18
Winter Garden Manor	1.36	3.00	0.00	61.94	321.04	3.13	207.17	278.31	1951.88	2042.69	35.90	7.86



Appendix A  
**DRAFT**  
Parameters for the Development of Pollution Potential Scheme (sorted by Subdivision Name)

Subdivision Name	Septic Density (Parcels/ Acre)	OCAVA Class Mean	% Subdivisions in Impaired Surface or Spring Watershed	House Density Change 2020-2050	Population Density Change 2000-2020	Mean Population Density 2010	Mean Distance to Force Main (ft)	Mean Distance to Gravity Main (ft)	Mean Year Built	Mean Distance to Waterbody (ft)	Mean Elevation (mABSL)	Mean Hydraulic Conductivity (Ksat)
Winter Ridge	5.11	5.19	0.00	3.06	1054.56	10.35	331.90	374.50	1984.70	2003.90	39.68	7.95
Winwood	2.66	3.07	0.00	0.13	426.08	5.77	351.20	240.08	1986.73	1172.35	48.28	7.94
Wofford Property	0.08	2.78	61.01	692.41	244.81	1.68	98.10	353.51	1971.70	338.59	27.00	4.79
Wood Green	3.23	3.00	0.00	0.00	838.31	7.59	393.06	339.32	1987.23	2021.34	31.40	7.95
Woodbridge On The Green	1.79	3.00	0.00	70.36	407.73	0.24	582.80	555.15	1998.24	1549.48	32.44	7.08
Woodbridge Ph 2	0.64	2.84	0.00	0.00	100.99	1.24	1745.06	633.37	1998.40	328.52	31.00	7.94
Woodhaven	0.36	3.00	0.00	0.00	700.85	0.02	335.76	213.84	1972.53	1704.49	29.63	7.93
Woodhaven Rep	0.55	3.00	0.00	34.87	700.85	2.96	281.34	39.56	1962.40	933.66	30.00	7.93
Woodlands Of Windermere Ut 3 1St Add	2.05	6.00	0.00	303.21	513.82	3.37	1320.52	282.91	1986.81	1840.17	43.62	8.71
Woodlands Village	1.76	3.56	0.00	0.00	513.82	3.95	1311.28	529.23	1986.73	1500.45	40.73	10.39
Woodlands Village Rep	1.47	3.00	0.00	0.00	513.82	3.37	766.61	434.81	1988.14	1509.51	37.91	7.93
Woodlawn Hgts	1.60	3.00	0.00	93.67	214.53	0.77	8427.84	7388.19	1949.40	1191.08	40.23	5.48
Woodsmere Manor	0.66	1.75	100.00	0.00	125.98	0.79	1729.51	1710.00	1973.78	75.78	24.85	3.56
World Gateway Ph 4B	0.02	3.00	0.00	175.57	195.27	2.66	11.94	61.21		4782.51	27.13	7.94
Worthington Park	0.86	3.00	0.00	164.61	356.75	2.32	199.75	410.07	2010.70	582.88	35.33	7.87
Wyldwoode	2.68	3.00	0.00	0.00	674.46	5.22	1708.42	2464.69	1960.59	334.96	27.10	7.43
Zellwood	0.08	3.04	95.78	2.69	99.58	0.42	1335.65	2539.46	1957.00	499.85	33.12	5.60
Zellwood Ranch Ests	0.21	3.00	100.00	2.69	50.85	0.31	2681.34	2795.00	1998.69	1557.31	41.50	5.49

Appendix B  
DRAFT  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Long Lake Villas Ph 1B	6	4.11	6	3	5.50	4	2	5	4	4.45	4.69	4.59
Piedmont Ests	1	6.00	6	5	5.00	6	5	6	3	4.63	4.65	4.85
Lake Florence Highlands Ph 1	4	5.28	6	1	4.50	6	3	6	4	4.22	4.59	4.80
Eden Park Ests	5	3.00	6	3	3.50	5	5	5	5	4.44	4.59	4.65
Semoran Club Condo	6	3.00	6	6	5.50	6	4	3	4	4.69	4.59	4.80
J L M Condo	6	3.00	6	1	4.50	6	3	6	4	4.19	4.54	4.76
Little Lake Park	3	3.47	6	5	2.50	5	4	6	5	4.37	4.54	4.61
Parc Corniche Condo Ph 1	6	3.00	6	3	2.00	4	2	6	4	4.00	4.52	4.44
Troynelle By Big Lake Apopka	3	4.61	6	3	2.50	1	6	5	4	4.26	4.48	3.96
Wells Gap	2	3.00	6	4	2.50	4	6	6	6	4.44	4.46	4.39
Lake Cortez Woods	3	4.46	6	5	3.50	6	3	5	4	4.25	4.41	4.64
Little Lake Georgia Terrace	3	3.60	6	1	4.00	5	4	6	6	4.20	4.37	4.46
Ranchette	4	3.00	6	5	4.00	4	6	3	5	4.50	4.35	4.30
Parc Corniche Condo Ph 2	6	3.00	6	3	2.00	4	2	5	4	3.88	4.35	4.30
Rimar Ridge	4	3.00	6	5	3.50	5	6	3	5	4.44	4.33	4.43
University Garden	4	3.00	6	1	5.50	6	3	6	5	4.19	4.33	4.57
Holiday Hgts	4	3.00	6	6	3.50	5	5	3	5	4.44	4.33	4.43
Pennsy Park	3	6.00	6	1	1.50	6	5	5	3	3.81	4.33	4.57
Millers Sub (Lockhart)	4	6.00	6	3	3.00	3	5	2	4	4.13	4.30	4.11
Lake Barton Park	3	3.00	6	3	5.00	6	6	5	4	4.38	4.30	4.56
Callum Mac Sub	1	6.00	5	3	2.50	6	5	6	4	4.06	4.28	4.54
Enclave At Oxford Place Condo	6	3.00	6	1	4.50	6	1	5	5	3.94	4.28	4.54
Monroe Manor	4	3.00	6	6	4.50	4	5	3	4	4.44	4.28	4.24
Lake Florence Ests	4	5.56	6	1	4.00	4	3	4	4	3.95	4.27	4.23
Lake Gandy Shores	3	3.00	6	3	4.00	5	3	6	5	4.13	4.26	4.37
Riverside Acres	4	3.00	6	6	4.00	4	6	2	5	4.50	4.26	4.22
Shady Oak Cove	4	3.00	6	3	4.00	4	3	6	3	4.00	4.26	4.22
Huntley Park	5	5.47	6	3	4.00	4	3	2	4	4.06	4.26	4.22
Lake Sherwood Hills Ph 3 Ut 2	4	5.16	6	1	3.00	4	3	5	3	3.77	4.24	4.21
Riverside Acres 3Rd Add	4	3.00	6	1	3.50	5	6	4	6	4.19	4.24	4.35
Wekiwa Manor Sec 2	5	3.00	6	4	5.50	5	5	3	3	4.31	4.24	4.35
Long Lake Sub	3	2.91	6	2	3.50	3	5	6	4	4.05	4.22	4.04
Buckingham At Lakeville Oaks P	3	6.00	6	1	3.00	3	2	5	4	3.75	4.22	4.04
Lake Gandy Ests	3	3.00	6	3	3.00	5	3	6	5	4.00	4.22	4.33
Hudson Isles 1St Add	2	6.00	4	3	3.00	4	4	6	4	4.00	4.22	4.19

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Bent Oak Ph 5	2	5.00	6	3	3.00	4	3	5	5	4.00	4.22	4.19
Sleepy Hollow Ph 2	3	3.35	6	3	3.50	3	3	6	4	3.98	4.21	4.03
Lake Sherwood Hills Ph 3 Ut 1	5	4.90	6	1	3.00	4	3	4	3	3.74	4.20	4.17
Pine Hills Park Sub 1St Rep	4	3.00	6	2	4.50	4	6	4	4	4.19	4.20	4.17
Meadowbrook Annex 2Nd Add	4	3.00	6	3	4.50	6	6	3	5	4.31	4.20	4.46
Suburban Homes	3	3.00	6	6	2.50	5	6	3	5	4.31	4.20	4.31
Rose Hill	4	3.72	6	3	3.50	4	3	5	3	3.90	4.19	4.16
Lake Sherwood Hills West Sec	4	6.00	6	1	4.00	4	4	3	3	3.88	4.17	4.15
Bent Oak Ph 3	3	6.00	6	3	4.00	4	3	3	4	4.00	4.17	4.15
Tuckaway Terrace	4	3.00	6	3	4.00	6	5	4	4	4.13	4.17	4.44
Citrus Oaks Ph 2	6	3.09	6	1	5.50	5	3	4	3	3.95	4.17	4.29
Pleasant Oaks	5	4.06	6	3	3.50	4	3	3	4	3.94	4.16	4.14
Whispering Hills	4	2.90	6	3	4.00	3	4	5	3	3.99	4.16	3.99
Vineyard Ph 3	6	3.00	6	3	3.50	4	3	3	4	3.94	4.15	4.13
Ponce De Leon	3	3.00	6	5	3.50	6	5	4	4	4.19	4.15	4.43
Bent Oak Ph 4	3	4.95	6	2	3.50	4	3	4	5	3.93	4.14	4.12
Oakland Trails Phase 1	2	6.00	6	5	1.00	1	6	3	2	3.88	4.13	3.67
Silver Ridge Ph 3	4	5.95	6	4	5.00	3	3	2	2	3.99	4.12	3.96
Lees Ests	2	3.39	6	1	3.00	5	4	6	6	3.92	4.11	4.24
Villas Of Lake Destiny	6	3.00	6	2	2.50	4	2	4	4	3.69	4.11	4.09
Pine Hills Manor No 2	4	3.00	6	4	4.50	4	6	3	3	4.19	4.11	4.09
Carol Woods	4	5.73	6	3	3.50	5	3	2	4	3.90	4.10	4.24
Long Lake Park Replat Ut 1	4	5.82	6	2	5.00	4	2	3	3	3.85	4.10	4.08
Lake Of Pines	3	3.00	6	5	4.00	3	4	5	2	4.00	4.09	3.93
Siesta Hills	5	3.00	6	1	4.00	5	5	4	3	3.88	4.09	4.22
Alafaya Prof Park 2 Condo	5	3.00	6	4	2.00	6	1	4	5	3.75	4.09	4.37
Lake Mendelin Ests	3	2.91	6	4	4.00	4	4	4	5	4.11	4.07	4.06
Lake Florence Highlands Ph 2	4	6.00	6	1	3.50	4	3	3	3	3.69	4.07	4.06
Lake Gandy Cove	4	3.00	6	3	3.50	4	3	4	5	3.94	4.07	4.06
Edgewater Prof Ctr Condo	5	1.00	6	4	3.50	4	5	4	4	4.06	4.07	4.06
Riverside Acres 1St Add	3	3.00	6	6	3.50	6	6	2	5	4.31	4.07	4.35
Dovehill	6	3.00	6	3	3.50	5	3	3	3	3.81	4.07	4.20
Lake Shore Ests	2	4.59	5	3	3.00	5	5	5	4	3.95	4.06	4.20
Long Lake Villas Ph 1A	4	4.09	6	3	5.00	4	2	4	3	3.89	4.06	4.05
Summerbrook	4	4.70	6	3	4.50	4	3	3	3	3.90	4.06	4.05

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Long Lake Park Replat Ut 2	3	3.90	6	2	3.50	4	2	5	5	3.80	4.05	4.04
Rose Hill Groves Ut No 1	4	5.13	6	1	4.50	6	2	4	3	3.70	4.04	4.33
Eden East	4	3.00	6	3	3.00	4	3	4	5	3.88	4.04	4.04
Spillmans Ridge	6	3.00	6	3	3.00	4	2	3	4	3.75	4.04	4.04
Fairbanks Shores	4	1.00	6	4	3.00	4	6	5	3	4.00	4.04	4.04
Trout Lake Camp	1	3.36	6	1	1.50	6	6	6	6	3.86	4.04	4.33
Lake Park Highlands	1	4.59	6	1	2.50	5	5	6	4	3.76	4.04	4.18
Long Lake Shores	3	3.29	6	3	3.50	4	2	5	5	3.85	4.03	4.03
John Heist Estates	2	3.41	6	1	1.00	1	4	6	6	3.68	4.03	3.58
Majestic Oaks	4	5.91	6	1	3.00	5	3	2	5	3.74	4.03	4.17
Royal Ests Sec 1	5	3.76	1	1	5.50	4	5	6	6	4.16	4.02	4.02
Riverside Park Ests	5	3.00	6	1	4.50	6	6	2	5	4.06	4.02	4.31
Lockhart Sub No 1	3	3.00	6	4	2.50	6	5	4	4	3.94	4.02	4.31
Mcneils Orange Villa	1	3.00	6	3	2.50	6	5	6	5	3.94	4.02	4.31
Oak Terrace	4	3.00	6	3	4.50	4	5	3	4	4.06	4.02	4.02
Hunts Park	3	3.00	6	3	2.50	4	4	5	4	3.81	4.02	4.02
Fairview Shores	3	2.70	6	6	3.50	5	5	3	4	4.15	4.01	4.16
Silver Star Ests	4	3.00	6	4	4.00	4	6	2	4	4.13	4.00	4.00
Henderson Shores	3	1.00	5	4	4.00	4	6	6	4	4.13	4.00	4.00
Bay Lake Shores	3	1.00	6	4	2.00	5	5	6	4	3.88	4.00	4.15
Rio Grande Terrace 3Rd Add	5	3.00	5	4	6.00	4	5	2	4	4.25	4.00	4.00
Aloma Business Ctr Condo	6	3.00	6	1	2.00	6	3	3	5	3.63	4.00	4.30
Sussex Place Ph 1	6	3.00	6	3	6.00	6	3	1	5	4.13	4.00	4.30
Avondale Park 1St Add	4	3.00	6	3	4.00	4	5	3	4	4.00	4.00	4.00
Silver Star Ests 1St Add	4	1.86	6	1	4.50	3	5	5	4	3.92	4.00	3.85
Shadowridge	4	4.98	6	3	4.00	5	3	3	2	3.75	4.00	4.14
Meadowbrook Annex 1St Add	5	1.67	6	3	5.00	6	6	2	5	4.21	3.99	4.28
Lake Georgia Shores	2	4.88	3	2	2.00	5	5	6	6	3.86	3.98	4.13
Vineyard Ph 6	6	3.00	6	1	3.50	4	3	3	4	3.69	3.98	3.98
Oakmont Park	2	3.00	6	4	3.50	5	5	4	5	4.06	3.98	4.13
Vineyard Ph 1	6	3.00	6	1	3.50	4	4	2	5	3.81	3.98	3.98
Weston Woods	4	6.00	6	1	3.50	4	2	3	3	3.56	3.98	3.98
Orange Land Gardens	4	3.00	6	1	3.50	5	4	5	3	3.69	3.98	4.13
North Pine Hills	4	3.00	6	1	5.50	5	5	3	5	4.06	3.98	4.13
Vineyard Ph 5	6	3.00	6	1	3.50	4	3	3	4	3.69	3.98	3.98



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Vineyard Ph 4	6	3.00	6	1	3.50	4	3	3	4	3.69	3.98	3.98
Carlson Park	4	1.00	6	6	3.50	5	6	3	4	4.19	3.98	4.13
Westover Hills	4	4.74	6	3	4.50	4	2	3	3	3.78	3.98	3.98
Morrisons Sub	5	5.85	6	1	2.00	4	6	1	2	3.61	3.97	3.98
Hiawassee Oaks Ut 3	3	4.35	6	4	4.00	5	2	4	3	3.79	3.97	4.13
Wekiwa Manor Sec 3	4	3.06	6	1	5.00	6	5	4	3	3.88	3.97	4.27
Chaudoin Hills	2	5.53	6	1	1.00	2	4	6	1	3.32	3.96	3.67
Citrus Oaks Ph 1	5	3.00	6	1	5.00	5	3	4	3	3.75	3.96	4.11
Lake Lovely Ests	4	3.00	6	1	3.00	5	5	4	4	3.75	3.96	4.11
Windridge Ut 2	4	3.00	6	3	3.00	4	4	3	5	3.88	3.96	3.96
Bay Lake Ests	2	2.00	6	4	1.00	5	5	6	4	3.75	3.96	4.11
Taft Rep Blk C Tier 2	5	3.00	6	4	3.00	4	6	1	4	4.00	3.96	3.96
University Forest	4	3.00	6	1	5.00	6	3	4	5	3.88	3.96	4.26
Waikiki Beach	1	5.60	6	1	2.50	6	5	5	3	3.64	3.95	4.26
Sawmill Ph 2	4	4.58	6	5	4.50	4	2	2	3	3.88	3.95	3.96
Sweetaire Of Wekiva	4	5.15	6	3	4.00	6	3	2	3	3.77	3.94	4.25
Royal Ests Sec 2	5	4.26	1	1	5.50	4	5	5	6	4.10	3.94	3.95
Lake Lovely Ests 1St Add	4	3.00	6	1	2.50	5	5	4	4	3.69	3.93	4.09
Magnolia Village Ut 1	4	3.00	6	1	4.50	5	4	4	4	3.81	3.93	4.09
Bent Oak Ph 3	2	3.00	6	2	2.50	3	3	6	5	3.69	3.93	3.80
Oakwater Ests	2	3.00	6	2	2.50	5	2	6	6	3.69	3.93	4.09
Waikiki Beach 1St Add	1	3.49	6	1	2.50	6	6	6	4	3.75	3.93	4.24
Canyon Ridge Ph 1	4	5.23	6	3	3.50	4	3	2	3	3.72	3.93	3.94
Wekiva Ridge	4	4.71	6	3	3.50	5	4	2	3	3.78	3.93	4.09
Regency Park	4	5.80	6	1	5.00	5	3	2	3	3.72	3.92	4.08
Mt Plymouth Lakes Rep	4	3.65	6	1	3.50	1	4	3	5	3.77	3.92	3.49
Munger Willis R Land Co	1	4.14	6	3	3.50	5	4	5	4	3.83	3.92	4.08
Kelly Park Hills South Ph 4	4	5.51	6	5	4.00	4	2	1	3	3.81	3.91	3.93
Piedmont Ests	3	6.00	6	1	4.00	5	5	2	3	3.75	3.91	4.07
Whispering Pines Ests	4	3.00	6	6	4.00	5	5	1	4	4.13	3.91	4.07
Mason Add	3	3.00	6	4	4.00	5	5	3	4	4.00	3.91	4.07
Vineyard Ph 2	6	3.00	6	1	4.00	4	3	2	5	3.75	3.91	3.93
Fairview Terrace	2	1.00	6	6	4.00	5	5	5	4	4.13	3.91	4.07
Lake Lucy Ests	3	5.87	6	1	2.50	4	1	4	4	3.42	3.91	3.93
Jamajo	3	5.93	5	1	4.00	6	5	3	3	3.74	3.90	4.21

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Bentley Woods	4	5.90	6	1	4.00	5	3	2	3	3.61	3.90	4.06
Oaks On The Lake	4	3.00	6	1	3.50	5	2	4	6	3.69	3.89	4.06
Ponyland Ests	1	3.00	6	2	3.50	4	4	6	5	3.81	3.89	3.91
Watermill Sec 5	3	3.00	5	2	3.50	3	3	5	6	3.81	3.89	3.76
Griffiths Add	4	3.00	6	3	3.50	5	6	2	4	3.94	3.89	4.06
Bent Oak Ph 2	3	6.00	6	1	3.50	4	4	2	4	3.69	3.89	3.91
Whispering Pines Ests 1St Add	4	3.00	6	6	3.50	5	5	1	4	4.06	3.89	4.06
Hiawassee Hills Ut 4	4	3.23	6	4	4.50	4	3	3	3	3.84	3.89	3.90
Munger Willis R Land Co	1	3.44	6	2	3.50	4	3	6	5	3.74	3.88	3.90
Rolling Oaks Ut 4	3	5.54	6	2	3.00	3	3	2	5	3.69	3.88	3.75
Munger Willis R Land Co	1	3.00	6	4	3.00	4	2	6	5	3.75	3.87	3.89
Mcneils Orange Villa	1	3.00	6	3	3.00	4	5	5	5	3.88	3.87	3.89
Brownie Villa	5	3.00	6	1	3.00	5	6	2	4	3.75	3.87	4.04
Coronation Add	5	3.00	6	3	3.00	5	4	2	4	3.75	3.87	4.04
Watermill Sec 3	4	3.00	6	2	3.00	4	3	3	6	3.75	3.87	3.89
Watermill Sec 4	3	3.00	6	2	3.00	4	3	4	6	3.75	3.87	3.89
Jb & Te Walker Sub	2	3.00	6	4	3.00	4	5	4	4	3.88	3.87	3.89
Rose Gardens	3	6.00	6	3	3.00	6	2	2	4	3.63	3.87	4.19
Deer Lake Run	3	4.11	6	1	2.50	3	3	4	5	3.58	3.87	3.74
Hiawassee Point	5	3.73	6	1	6.00	5	2	3	3	3.72	3.87	4.03
Orlando Acres 1St Add	3	3.08	5	1	2.50	4	5	5	5	3.70	3.86	3.88
Walden Grove Ut 1	4	5.82	6	1	5.50	5	3	2	2	3.67	3.86	4.03
Sawmill Ph 1	3	5.68	6	4	4.00	4	2	2	3	3.71	3.86	3.88
Willow Creek Ph 3 A	4	5.90	6	1	5.00	4	3	2	2	3.61	3.85	3.87
Prairie Oaks Sub	4	5.77	6	3	3.50	4	2	2	2	3.53	3.85	3.87
Silver Ridge Ph 1	3	5.38	6	4	5.00	4	3	1	4	3.92	3.85	3.87
Whisper Ridge	4	6.00	6	1	4.50	5	2	2	3	3.56	3.85	4.02
Loes Add To Lockhart	3	3.75	6	4	1.50	5	6	2	4	3.78	3.85	4.02
Meadowbrook Acres	4	1.00	6	1	4.50	5	6	4	5	3.94	3.85	4.02
Watermill Sec 6	3	3.00	6	1	2.50	3	2	5	6	3.56	3.85	3.72
Lake Apopka Beach Rep	3	3.00	6	1	2.50	3	5	4	5	3.69	3.85	3.72
Kensington Sec 1	4	4.86	6	3	5.00	4	3	1	4	3.86	3.84	3.87
Bay Lake Manor	2	1.56	6	4	2.00	5	4	6	4	3.69	3.84	4.01
Oasis Terrace	4	4.54	6	1	4.00	5	3	3	3	3.57	3.83	4.01
Northpointe Condo	5	2.50	6	4	2.00	6	2	3	4	3.56	3.83	4.15

Appendix B  
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Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Oak Vista	3	3.00	6	5	4.00	6	5	2	4	4.00	3.83	4.15
Rio Grande Homesites	2	3.00	6	4	6.00	6	6	3	3	4.13	3.83	4.15
Unrecorded Fleckenstein-Grier	3	1.00	5	4	4.00	4	6	5	4	4.00	3.83	3.85
Hiawassee Landings Ut 2	5	4.23	6	3	5.00	4	2	1	4	3.78	3.82	3.85
Somerset At Lakeville Oaks Ph 2	4	5.41	6	1	4.00	5	2	2	4	3.55	3.81	3.99
Mt Pleasant 1St Add	3	3.00	6	2	1.50	1	5	4	4	3.56	3.80	3.39
Lake Maggiore Ests	3	3.00	6	2	1.50	2	3	5	4	3.44	3.80	3.54
Wekiwa Spgs Park Rep	2	6.00	6	1	1.50	6	5	2	5	3.56	3.80	4.13
Citrus Oaks Landings Condo	4	3.00	6	1	3.50	5	1	5	4	3.44	3.80	3.98
Pine Loch Hgts	5	3.00	1	3	3.50	6	6	6	3	3.81	3.80	4.13
Riverside Park	4	3.00	6	1	3.50	4	6	2	5	3.81	3.80	3.83
Watermill West	3	3.00	6	1	3.50	5	3	4	6	3.69	3.80	3.98
Watermill Sec 1	3	3.00	5	1	3.50	4	3	5	6	3.69	3.80	3.83
Palms Sec 3	4	6.00	6	1	3.50	3	2	1	5	3.56	3.80	3.69
Lakeview Park	3	1.00	5	4	3.50	4	6	5	4	3.94	3.80	3.83
Long Lake Ests	3	2.07	6	3	3.00	3	3	5	4	3.63	3.79	3.68
Fox Hunt Lanes Ph 1	5	3.31	6	1	6.00	6	3	2	4	3.79	3.79	4.12
Palms Sec 4	4	5.90	6	1	3.50	2	2	1	5	3.55	3.79	3.52
Johns Lake Homesites	3	5.78	1	3	2.00	1	4	6	4	3.60	3.79	3.37
Lake Mendelin Ests 1St Add	4	3.75	6	1	4.00	5	4	3	3	3.59	3.78	3.96
Hiawassa Highlands 2Nd Add	4	3.00	6	1	5.00	6	5	3	3	3.75	3.78	4.11
Palm Hgts	4	1.00	6	4	3.00	5	6	3	4	3.88	3.78	3.96
Magnolia Lakes	5	3.00	6	1	5.00	6	2	3	4	3.63	3.78	4.11
Pine Hills Retail/Office Condo	5	3.00	6	3	3.00	6	4	2	3	3.63	3.78	4.11
Carlton Oaks	4	6.00	6	1	3.00	4	1	2	4	3.38	3.78	3.81
Rolling Oaks Ut 1	4	6.00	6	1	3.00	3	3	1	4	3.50	3.78	3.67
Biltmore Shores Sec 2	3	1.00	5	4	3.00	4	6	5	4	3.88	3.78	3.81
Dubsdread Hgts	4	1.00	6	4	3.00	5	6	3	4	3.88	3.78	3.96
Lake Apopka 1St Add	4	3.00	6	1	3.00	4	5	3	4	3.63	3.78	3.81
Fairvilla Park	3	2.33	6	6	3.50	6	5	2	4	3.98	3.78	4.10
Oak Hills Subdivision	2	5.80	6	1	1.50	2	2	4	4	3.29	3.77	3.51
Lakeville	1	4.42	6	1	1.00	4	5	5	4	3.43	3.77	3.80
Deer Lake Chase	3	5.04	6	1	2.50	4	2	3	5	3.44	3.77	3.80
Wekiwa Hills 2Nd Add	2	5.38	6	2	3.00	3	4	2	5	3.67	3.76	3.65
Liberty Hgts 2Nd Add	3	6.00	6	2	2.50	4	4	2	2	3.44	3.76	3.80

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Glenmoor	4	3.00	6	1	4.50	6	3	3	5	3.69	3.76	4.09
Lake Waunatta Cove	3	3.00	5	1	4.50	6	3	5	5	3.69	3.76	4.09
Riverbend Ests	5	3.00	1	5	4.50	5	3	5	5	3.94	3.76	3.94
Dean Hilands	2	5.32	6	3	3.00	5	4	2	4	3.67	3.75	3.94
Anderson George W	1	3.17	6	1	1.50	5	4	6	5	3.46	3.75	3.93
Hiawassee Meadows Ph 1	4	3.79	6	1	5.00	5	3	2	5	3.72	3.75	3.93
Munger Willis R Land Co	1	1.53	6	1	4.00	6	6	6	5	3.82	3.74	4.08
Victor Hgts	2	3.00	6	4	4.00	4	5	3	4	3.88	3.74	3.78
Fan-San Manor	2	6.00	1	3	2.00	5	6	6	3	3.63	3.74	3.93
Sunshine Sub	4	3.00	6	1	6.00	5	5	2	4	3.88	3.74	3.93
Cobble Stone	4	3.00	6	1	4.00	6	3	3	5	3.63	3.74	4.07
Riverside Park Ests Ut 2	4	3.00	6	1	4.00	5	6	2	4	3.75	3.74	3.93
Miller And Pownall Sub	3	3.00	6	6	2.00	5	6	1	4	3.88	3.74	3.93
Lakeside Ests	1	3.08	5	3	1.50	6	5	6	4	3.57	3.73	4.07
Oak Heights Rep	1	5.95	6	3	2.00	4	4	3	3	3.49	3.73	3.77
Oakland Trails Phase 2	5	5.20	6	3	1.00	1	1	2	2	3.15	3.73	3.33
Avondale Park 2Nd Add	2	3.69	6	3	3.00	5	5	3	4	3.71	3.73	3.92
Shenna Hill	4	3.43	6	3	4.00	5	2	3	3	3.55	3.73	3.92
Vista Hills Ut 1	4	4.79	6	1	4.50	5	3	2	3	3.54	3.72	3.91
Blackwood Acres Rep	2	3.63	6	5	3.00	4	5	3	2	3.70	3.72	3.76
Long Shores	2	3.00	6	2	3.50	3	3	5	4	3.56	3.72	3.61
Silver Star Manor	4	3.00	6	1	5.50	5	5	2	4	3.81	3.72	3.91
Michigan Hgts	3	3.00	6	4	1.50	5	6	2	4	3.69	3.72	3.91
Central Park	3	3.00	6	4	1.50	4	6	2	4	3.69	3.72	3.76
Taft (Tier 10 & Above)	4	3.00	6	6	3.50	4	3	1	4	3.81	3.72	3.76
University Hgts	3	1.00	6	4	3.50	5	5	4	4	3.81	3.72	3.91
Lake View Farms	1	3.00	6	5	3.50	6	6	3	4	3.94	3.72	4.06
Hull J C Sub	1	3.00	4	3	3.50	3	6	6	4	3.81	3.72	3.61
University Hills	4	4.48	6	1	5.50	4	4	1	4	3.75	3.71	3.76
Good Homes Vista	4	4.86	6	3	4.00	6	1	2	3	3.48	3.71	4.05
Clearview Hgts 1St Add	4	3.26	6	1	4.00	4	5	2	4	3.66	3.70	3.74
Willow Creek Ph 4	4	3.00	6	3	5.00	5	2	3	3	3.63	3.70	3.89
Hiawassa Highlands	4	3.00	6	1	5.00	6	5	2	4	3.75	3.70	4.04
Ohio Homesites 1St Ut	2	3.00	6	3	5.00	6	6	3	3	3.88	3.70	4.04
Partridge Terrace	5	3.00	6	1	3.00	5	3	2	5	3.50	3.70	3.89



Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Watermill Sec 7	3	3.00	5	1	3.00	4	2	5	6	3.50	3.70	3.74
Watermill Sec 2	3	3.00	5	2	3.00	3	3	4	6	3.63	3.70	3.59
Rolling Oaks Ut 2	3	6.00	6	1	3.00	2	3	1	5	3.50	3.70	3.44
Oakland Pointe	3	3.00	6	1	3.00	1	1	5	5	3.38	3.70	3.30
Mcneils Orange Villa	3	3.00	6	3	3.00	4	6	2	4	3.75	3.70	3.74
Windridge	4	3.00	6	3	3.00	4	4	2	4	3.63	3.70	3.74
Robinsdale	4	3.00	1	4	5.00	5	6	5	4	4.00	3.70	3.89
Pine Hills Park	2	3.34	6	2	3.50	4	4	4	4	3.60	3.69	3.74
Rose Hill Groves	1	5.32	6	3	3.50	4	4	3	3	3.60	3.69	3.73
Gatewood Ph 2	4	5.56	6	1	4.50	5	3	1	3	3.51	3.68	3.88
Powers Pointe North	4	4.54	6	1	4.50	5	3	2	3	3.50	3.68	3.88
Summerfield Ests	4	2.14	6	3	4.00	2	4	3	3	3.64	3.68	3.43
Morrisons Sub 1St Add	4	6.00	6	1	2.50	4	4	1	2	3.31	3.67	3.72
Wekiwa Woods Ph 1	3	3.00	6	3	2.50	2	2	3	6	3.56	3.67	3.43
Rolling Green Ridge	4	3.00	6	1	4.50	5	5	2	4	3.69	3.67	3.87
Westwind Ut 2	2	6.00	6	1	2.50	3	4	2	4	3.44	3.67	3.57
Orange View	5	3.00	6	1	4.50	6	5	2	2	3.56	3.67	4.02
Pearl Lake Park	2	3.00	6	2	2.50	4	3	6	2	3.31	3.67	3.72
Queenswood Manor 2	3	3.00	6	1	4.50	6	3	4	4	3.56	3.67	4.02
Sphaler Add To Taft Resub	3	3.00	6	4	4.50	5	6	1	4	3.94	3.67	3.87
Lakeside Woods	4	3.00	6	1	4.50	5	3	3	4	3.56	3.67	3.87
Annandale Park	3	3.00	6	1	2.50	5	6	3	4	3.56	3.67	3.87
Wekiva Landing Partial Rep	1	3.00	6	1	2.50	5	2	6	6	3.44	3.67	3.87
Pine Hills Manor No 3	4	3.00	6	1	4.50	4	6	2	3	3.69	3.67	3.72
Hiawassee Hills Ut 2	3	5.09	6	1	4.00	4	3	2	4	3.51	3.67	3.72
Rock Spgs Park	2	5.70	6	1	1.50	1	4	2	5	3.40	3.67	3.27
Palms Sec 2	3	5.79	6	1	3.00	4	3	1	5	3.47	3.66	3.71
Reagans Reserve	4	5.77	6	1	3.00	3	1	1	5	3.35	3.66	3.56
Condel Gardens	4	3.00	1	4	4.00	5	6	5	4	3.88	3.65	3.85
Jamajo Rep	3	3.00	6	1	4.00	6	5	3	4	3.63	3.65	4.00
Cypress Park Ut No 1	5	3.00	6	4	4.00	4	2	1	4	3.63	3.65	3.70
Woodsmere Manor	2	1.75	6	1	1.00	4	4	6	5	3.34	3.65	3.70
Kelly Park Hills South Ph 2	4	3.98	6	5	4.00	4	2	1	3	3.62	3.65	3.70
Joslin Grove Park	5	4.83	1	3	4.50	5	3	4	4	3.67	3.64	3.85
Eden Park	2	3.06	6	3	3.50	6	2	4	5	3.57	3.64	3.99

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Red Gate	1	3.80	6	1	2.50	6	4	5	4	3.41	3.64	3.99
Munger Willis R Land Co	3	5.42	6	1	4.00	5	3	2	3	3.43	3.64	3.84
Mt Pleasant	3	3.00	6	2	1.50	1	5	3	4	3.44	3.63	3.24
Holden Park	4	3.00	1	5	3.50	6	5	5	4	3.81	3.63	3.98
Watermill Sec 2	3	3.00	6	1	3.50	4	3	3	6	3.56	3.63	3.69
Lockhart Manor	3	3.00	6	3	3.50	5	5	2	4	3.69	3.63	3.83
Fairview Gardens	4	3.00	6	1	3.50	5	5	2	4	3.56	3.63	3.83
Fairview Court	4	1.00	6	1	3.50	4	5	4	4	3.56	3.63	3.69
Hull Island Ests	2	3.00	6	1	1.50	1	1	6	5	3.19	3.63	3.24
Hiawassee Oaks Ut 2	3	3.11	6	1	3.00	4	2	4	5	3.39	3.63	3.68
Sweetwater Country Club Place	4	5.08	6	1	3.00	5	3	1	4	3.38	3.62	3.83
Lake Barton Shores Sec 1	2	5.06	5	1	3.00	5	6	3	3	3.51	3.62	3.82
Buckingham At Lakeville Oaks P	3	4.55	6	1	3.00	4	2	3	4	3.32	3.62	3.67
Silver Ridge Ph 4 Ut 3	3	2.15	6	1	4.50	5	2	5	4	3.46	3.61	3.82
Silver Rose	3	6.00	6	1	5.00	5	3	1	3	3.50	3.61	3.81
Pine Ridge Ests	4	1.00	6	1	5.00	6	6	3	4	3.75	3.61	3.96
Watermill Sec 2 Rep	1	3.00	6	1	3.00	4	3	5	6	3.50	3.61	3.67
Olympia Hgts Annex	4	1.00	6	4	3.00	5	6	2	4	3.75	3.61	3.81
Seaward Plantation Ests	1	3.00	6	1	1.00	4	4	5	6	3.38	3.61	3.67
Richmond Terrace	4	3.00	1	3	5.00	3	6	5	4	3.88	3.61	3.52
Whipple Bishop Sub	2	1.00	6	4	1.00	5	5	5	4	3.50	3.61	3.81
Sparling Hills	4	4.10	6	1	4.50	6	3	2	3	3.45	3.60	3.96
University Place Ut 2	4	3.83	6	1	5.50	4	4	1	4	3.67	3.60	3.66
Summerport Beach	3	5.83	1	2	1.50	3	4	6	3	3.29	3.60	3.51
Willow Creek Ph 2	4	3.94	6	1	5.00	4	3	2	3	3.49	3.60	3.66
Somerset At Lakeville Oaks	4	4.02	6	1	4.50	4	2	2	4	3.44	3.59	3.65
Las Alamedas	4	3.00	6	2	2.50	4	2	3	4	3.31	3.59	3.65
Pine Ridge Ests Sec 2	4	1.00	6	1	4.50	5	6	3	4	3.69	3.59	3.80
Lake Cane Hills 1St Add	4	6.00	1	4	4.50	4	5	3	2	3.69	3.59	3.65
Pineloch Terrace	4	3.00	1	6	4.50	6	6	4	3	3.94	3.59	3.94
Fairview Spgs	2	1.00	4	4	2.50	4	6	6	4	3.69	3.59	3.65
Crystal Lake Park	4	3.00	1	3	4.50	4	6	5	4	3.81	3.59	3.65
Hiawassee Villas	5	3.24	6	1	3.50	6	3	2	3	3.34	3.58	3.94
Hull Island Ests 1St Add	2	5.10	6	3	2.00	1	4	2	3	3.39	3.58	3.20
Ravens Haven Sec 2	2	3.34	6	1	3.00	4	3	4	5	3.42	3.58	3.64

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Lake Cane Villa	2	5.94	1	1	2.50	5	6	6	3	3.43	3.58	3.79
Ridge Manor 1St Add	4	2.53	6	1	4.00	5	5	2	4	3.57	3.57	3.78
Westwind Ut 3	2	4.77	6	1	1.00	3	3	3	5	3.22	3.57	3.48
Wekiwa Woods Ph 2	3	3.00	6	3	2.00	2	2	3	5	3.38	3.57	3.33
Lake Bosse Oaks	3	3.00	6	1	4.00	6	3	3	5	3.50	3.57	3.93
Bonnie Brae	4	1.00	6	3	4.00	6	5	2	5	3.75	3.57	3.93
Tiffany Terrace	4	3.00	6	1	4.00	5	5	1	5	3.63	3.57	3.78
Bear Lake Highlands	3	4.87	6	2	2.50	3	4	2	2	3.30	3.56	3.48
Breckenridge Estates	4	3.34	6	1	4.50	5	3	3	2	3.35	3.56	3.77
Frisco Bay Ut 2	4	4.84	1	3	4.50	5	3	5	3	3.54	3.56	3.77
Lake Cane Ests	4	5.58	1	4	3.50	3	4	4	2	3.51	3.56	3.47
Gardenia Sub No 2	3	2.20	6	5	3.00	4	4	2	4	3.65	3.56	3.62
Horseshoe Bend Sec 2	4	1.32	6	1	4.50	5	3	4	4	3.48	3.56	3.77
Tamarack Village	4	3.66	6	1	3.00	5	3	1	6	3.46	3.55	3.76
Caroline Ests	3	4.40	6	1	4.00	4	3	3	2	3.30	3.55	3.61
Mc Queen Select Homesites	1	5.14	6	1	1.00	4	5	3	4	3.27	3.55	3.61
Hiawassee Oaks Ut 5	4	4.26	6	1	4.50	4	2	2	3	3.34	3.54	3.61
Bentons Garden Cove	5	6.00	1	3	5.50	5	3	3	2	3.56	3.54	3.76
Hiawassa Highlands 1St Add	4	3.00	6	1	5.50	6	5	2	2	3.56	3.54	3.91
Skycrests 1St Add	2	3.00	1	6	3.50	4	5	6	4	3.81	3.54	3.61
Brookwood	2	3.00	5	1	1.50	5	3	5	6	3.31	3.54	3.76
Suburban Homes 1St Add	3	3.00	6	1	3.50	6	5	2	5	3.56	3.54	3.91
Hudson Shores	1	3.00	3	3	3.50	4	6	6	4	3.69	3.54	3.61
Paradise Hgts 1St Add	3	3.00	6	1	3.50	4	6	2	4	3.56	3.54	3.61
Palm Lake Ests 5Th Add	3	3.00	6	3	3.50	6	4	1	6	3.69	3.54	3.91
Dowd Park	4	1.00	6	1	3.50	4	6	3	4	3.56	3.54	3.61
Buckingham At Lakeville Oaks P	3	5.10	6	1	3.00	4	2	2	4	3.26	3.54	3.61
Hiawassee Oaks	4	3.29	6	1	4.00	5	3	2	4	3.41	3.53	3.75
Royal Villa	3	3.00	6	1	1.00	6	5	3	4	3.25	3.52	3.89
Mcneils Orange Villa	1	3.00	6	3	3.00	4	4	4	4	3.50	3.52	3.59
Lake Holden Gardens	3	3.00	2	3	3.00	5	6	5	4	3.63	3.52	3.74
Gary Park	2	3.00	6	1	3.00	6	5	3	5	3.50	3.52	3.89
Watermill Sec 8	2	3.00	4	1	3.00	4	2	6	6	3.38	3.52	3.59
Orlando Acres 2Nd Add	4	3.00	3	1	3.00	4	6	3	6	3.63	3.52	3.59
Fair Plain Sub	2	3.00	6	1	3.00	5	6	3	4	3.50	3.52	3.74

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Waunatta Shores	2	3.00	3	1	3.00	6	4	6	6	3.50	3.52	3.89
Pine Oaks	3	3.00	6	1	3.00	6	3	3	5	3.38	3.52	3.89
Beatrice Village	3	3.00	6	1	5.00	6	5	2	4	3.63	3.52	3.89
San Susan	1	5.67	1	3	2.00	5	6	6	3	3.46	3.51	3.73
Oakland Trails Phase 1	4	4.90	5	5	1.00	1	1	2	2	3.11	3.50	3.13
Bonnie Belle Point	3	3.00	1	3	2.50	3	5	6	5	3.56	3.50	3.43
Glenwood Oaks	4	3.00	6	1	4.50	5	3	2	4	3.44	3.50	3.72
Riverside Woods	4	3.00	6	1	4.50	4	3	2	4	3.44	3.50	3.57
Johns Lake Homesites 1St Add	3	6.00	1	3	2.50	1	4	5	2	3.31	3.50	3.13
Wekiwa Landing Sub	1	3.00	6	1	2.50	5	2	5	6	3.31	3.50	3.72
Wekiwa Hills	2	3.93	6	2	2.50	4	4	2	5	3.43	3.49	3.56
Piedmont Ests 1St Add	1	4.64	6	3	3.50	5	4	2	4	3.52	3.48	3.71
Lakeview Hgts Rep	3	3.00	1	3	4.00	4	5	6	4	3.63	3.48	3.56
Lake Marsha 2Nd Add	3	6.00	1	4	4.00	3	4	4	2	3.50	3.48	3.41
Merritt Park	4	3.00	1	1	4.00	5	6	5	5	3.63	3.48	3.70
Roberta Place	4	3.00	2	1	4.00	5	5	5	4	3.50	3.48	3.70
Arbor Woods Ut 3	5	3.00	1	3	4.00	4	3	4	6	3.63	3.48	3.56
East Orlando Medical Ctr Condo	6	3.00	1	1	2.00	5	3	5	5	3.25	3.48	3.70
Sky Acres	3	3.00	6	1	2.00	5	4	2	6	3.38	3.48	3.70
Riverwood	5	3.00	1	1	4.00	4	3	5	6	3.50	3.48	3.56
Apopka Wekiva Homesites	3	3.00	6	1	4.00	5	4	2	5	3.50	3.48	3.70
Lake Hiawassa Terrace Rep	3	3.00	1	1	4.00	5	6	6	5	3.63	3.48	3.70
Trotwood Park	3	3.00	6	1	4.00	5	5	2	4	3.50	3.48	3.70
Willow Creek Ph 1	3	3.34	6	1	4.50	5	3	3	3	3.36	3.47	3.70
Kensington Sec 5	3	2.46	6	1	4.00	5	2	4	4	3.31	3.47	3.70
Graceland	2	3.66	6	1	3.00	4	2	4	4	3.21	3.46	3.54
Fletchers Cove	4	3.15	6	1	5.00	4	3	2	3	3.39	3.46	3.54
Lake Barton Manor 1St Add	2	3.00	6	5	3.50	6	5	1	4	3.69	3.46	3.83
Kates J J Sub	2	3.00	6	5	3.50	6	5	1	4	3.69	3.46	3.83
Twin Oaks	5	1.00	6	1	3.50	6	3	3	4	3.31	3.46	3.83
Lakeside Terrace	1	3.00	4	1	3.50	6	5	5	6	3.56	3.46	3.83
Foxborough	1	5.22	6	1	2.50	2	4	2	5	3.34	3.45	3.24
Lake Park Highlands	1	2.58	6	1	1.00	4	3	6	4	3.07	3.45	3.53
Saddlebrook Rep	4	3.95	6	2	3.50	3	2	2	2	3.18	3.45	3.38
Morningside	1	3.31	4	1	4.00	6	3	6	5	3.41	3.45	3.82



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Country Shire	4	3.40	6	1	1.50	1	3	2	4	3.11	3.44	3.08
Wofford Property	1	2.78	4	4	2.00	6	5	5	4	3.47	3.44	3.82
Adams Ridge Ut 2	4	3.00	6	1	5.00	6	3	2	3	3.38	3.43	3.81
Lake Rouse Ests	2	3.00	6	1	3.00	5	5	2	6	3.50	3.43	3.67
Heatherwood	4	3.00	6	1	5.00	5	3	2	3	3.38	3.43	3.67
Hamlin Hgts	2	6.00	6	1	5.00	6	1	2	3	3.25	3.43	3.81
Forrest Cove	3	3.00	6	4	5.00	4	4	1	3	3.63	3.43	3.52
Seaward Plantation Ests 1St Add	1	3.00	6	1	1.00	3	4	4	6	3.25	3.43	3.37
Hull Island At Oakland	1	3.00	6	1	1.00	1	1	6	5	3.00	3.43	3.07
Tiffany Acres	3	3.10	6	1	2.50	5	4	2	5	3.33	3.43	3.66
Lake Cane Shores	2	4.30	1	4	1.50	4	5	6	3	3.35	3.42	3.51
Weissinger Fairvilla Sub	1	2.79	6	6	1.50	6	5	2	4	3.54	3.42	3.80
Pine Hills Manor	1	1.16	6	3	4.00	6	4	5	4	3.52	3.42	3.80
Lake Mendelin Ests 2Nd Add	4	3.00	6	1	4.50	5	4	2	2	3.31	3.41	3.65
Skycrests	4	3.00	1	4	4.50	5	6	4	3	3.69	3.41	3.65
Taft	3	3.00	6	4	2.50	4	4	1	4	3.44	3.41	3.50
Buff Sub	2	3.00	1	3	4.50	4	6	6	4	3.69	3.41	3.50
Sweetwater West	3	4.24	6	1	3.50	4	2	1	6	3.34	3.41	3.50
Oak Park Manor	3	3.10	6	1	4.00	4	4	3	2	3.26	3.41	3.50
Munger Willis R Land Co	1	2.21	6	1	3.50	4	4	5	4	3.34	3.41	3.49
Willis R Mungers Land	1	3.05	6	1	4.00	6	6	3	4	3.51	3.40	3.78
Crescent Hgts 1St Add	5	5.50	1	3	4.00	5	5	2	2	3.44	3.39	3.63
Hiawassee Hills Ut 3	3	3.00	6	1	4.00	4	3	2	5	3.38	3.39	3.48
Shadow Bay Spgs Ut 5	4	6.00	1	1	4.00	4	3	5	1	3.13	3.39	3.48
Wyldwoode	4	3.00	1	1	4.00	3	6	5	4	3.50	3.39	3.33
Silver Ridge Ph 4 Ut 1	3	2.37	6	1	4.50	4	2	4	3	3.23	3.39	3.48
Wekiwa Highlands	3	3.23	6	1	3.00	3	5	1	5	3.40	3.39	3.33
Recherche Villas	1	4.48	6	1	2.00	1	1	4	5	3.06	3.39	3.03
Baileys Add To Plymouth	1	4.39	6	4	2.00	5	4	2	3	3.30	3.37	3.61
Plymouth Hills	4	3.63	6	1	3.00	5	4	2	1	3.08	3.37	3.61
Teeples Add	3	3.00	6	1	1.50	1	5	2	4	3.19	3.37	3.02
Bretwood	4	1.00	6	1	3.50	6	3	3	5	3.31	3.37	3.76
Richwood Ests	5	3.00	1	1	3.50	5	3	5	5	3.31	3.37	3.61
Armstrong Acres	1	3.00	2	3	3.50	5	6	6	4	3.56	3.37	3.61
Oak Acres	3	3.00	6	1	3.50	4	4	2	4	3.31	3.37	3.46

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Triangle Terrace	2	3.00	6	1	3.50	5	6	2	4	3.44	3.37	3.61
Buckeye Court Rep	4	1.00	6	1	3.50	4	6	2	4	3.44	3.37	3.46
Hiawasseelandings Ut 1	4	2.58	6	1	5.00	4	3	2	3	3.32	3.36	3.46
Floral Park Realty Co Sub	1	3.42	6	1	1.50	4	5	3	5	3.24	3.36	3.45
Zellwood	1	3.04	6	1	1.00	3	6	4	3	3.13	3.35	3.30
Bent Oak Ph 1	3	3.28	6	1	4.00	5	4	2	3	3.29	3.35	3.60
Piedmont Ests	3	3.00	6	1	5.00	6	4	2	3	3.38	3.35	3.74
Orange Hgts	3	3.00	6	1	3.00	6	4	3	2	3.13	3.35	3.74
Villas At Pine Hills	1	3.00	6	6	5.00	6	3	2	3	3.63	3.35	3.74
Parkway Dist Ctr Condo Ph 2	4	3.00	6	1	1.00	5	3	2	4	3.00	3.35	3.59
University Woods Ph 2	3	3.00	1	3	5.00	5	3	5	6	3.63	3.35	3.59
Munger Willis R Land Co	1	3.00	6	5	3.00	6	2	3	4	3.38	3.35	3.74
Rivers Edge Rep	5	3.00	1	1	3.00	5	2	5	6	3.25	3.35	3.59
Dcp Idrive Condominium	6	3.00	6	1	1.00	2	1	2	2	2.75	3.35	3.15
Oleander	4	3.21	6	1	4.00	5	5	1	2	3.28	3.34	3.59
Lake Marsha 1St Add	2	5.91	1	1	3.00	4	4	6	2	3.11	3.33	3.43
Orlo Vista Hgts	4	4.51	1	3	4.50	5	4	4	2	3.38	3.33	3.58
Oakland Shores 2Nd Add	2	3.00	1	3	2.50	5	5	6	5	3.44	3.33	3.57
East Dale Acres	4	3.00	1	1	4.50	5	6	4	5	3.56	3.33	3.57
Dean Acres	6	3.00	1	1	4.50	5	3	3	6	3.44	3.33	3.57
El Rancho Farms	2	3.00	6	1	2.50	5	4	2	6	3.31	3.33	3.57
Wekiwa Highlands	2	3.00	6	1	2.50	6	6	1	6	3.44	3.33	3.72
Hoenstine Ests	2	3.00	6	6	2.50	6	3	1	4	3.44	3.33	3.72
Interlaken Add	2	1.00	4	1	2.50	5	6	6	4	3.31	3.33	3.57
Munger Willis R Land Co	1	4.96	6	1	2.50	6	4	2	4	3.18	3.32	3.72
Kentzelmans Rep	3	3.82	6	1	3.00	4	4	1	4	3.23	3.32	3.42
Silver Ridge Ph 4 Ut 2	3	1.93	6	1	4.50	4	2	4	3	3.18	3.31	3.42
Foxbriar Country Ests	2	5.30	6	1	1.00	4	2	3	2	2.79	3.31	3.41
Lake Cane Hills	3	3.79	1	4	3.00	3	5	5	2	3.35	3.31	3.27
Seaward Plantation Ests 2Nd Ad	1	2.77	5	1	1.00	3	3	5	6	3.10	3.31	3.26
Combs Add To Zellwood	3	3.00	6	1	2.00	1	4	2	4	3.13	3.30	2.96
Foxborough 2Nd Add	2	3.00	6	1	2.00	2	3	3	5	3.13	3.30	3.11
Country Grove	4	6.00	1	3	4.00	5	3	3	2	3.25	3.30	3.56
Lake Bryan Shores	1	3.00	3	3	2.00	4	4	6	4	3.25	3.30	3.41
Morningside Park	3	1.00	4	2	2.00	5	5	5	4	3.25	3.30	3.56

Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Orlando Acres Sec 1	2	3.00	6	1	2.00	5	5	2	5	3.25	3.30	3.56
Crowne Plaza Resort Ph 1 At Wi	1	3.00	6	1	2.00	5	2	5	4	3.00	3.30	3.56
Hunters Creek Tr 415	1	3.00	6	5	6.00	6	2	2	4	3.62	3.30	3.70
Oak Meadows P D Ph 3 Ut 2	5	3.99	1	1	4.00	6	3	4	4	3.25	3.30	3.70
Johns Cove	3	5.40	1	5	2.00	1	1	5	2	3.05	3.29	2.95
Semoran Business Ctr	1	4.02	6	4	3.50	6	3	2	3	3.31	3.29	3.69
Falcon Pointe Rep	4	3.50	6	1	3.50	4	2	2	2	3.00	3.28	3.39
Picketts J T	1	3.00	6	2	1.50	1	5	3	4	3.19	3.28	2.94
Robinson R G Sub	2	3.00	6	2	1.50	1	5	2	4	3.19	3.28	2.94
North 441 Indus Park	1	6.00	6	2	1.50	6	3	2	2	2.94	3.28	3.69
Oak Meadows P D Ph 3 Villas/O	5	6.00	1	3	5.50	6	2	2	2	3.31	3.28	3.69
Crescent Hgts	5	3.00	1	3	5.50	4	6	3	2	3.56	3.28	3.39
Castle Place	4	3.00	1	1	3.50	5	5	5	4	3.31	3.28	3.54
Willis And Brundidge Sub	4	3.00	1	1	3.50	3	5	5	4	3.31	3.28	3.24
Blue Bird Park	1	3.00	6	3	1.50	6	3	4	3	3.06	3.28	3.69
Seaward Plantation Ests	1	3.00	6	1	1.50	4	4	3	6	3.19	3.28	3.39
Munger Willis R Land Co	1	3.00	6	1	3.50	6	5	3	4	3.31	3.28	3.69
Foxborough 3Rd Add	2	3.56	6	1	3.00	2	3	2	5	3.20	3.27	3.08
J B Babcocks Sub	1	3.55	5	1	1.00	1	2	5	5	2.94	3.27	2.93
Orange County Indus Pk	1	5.42	6	3	3.50	4	2	2	2	3.12	3.27	3.38
Ltv 1400 Timeshare Resort	3	6.00	1	1	1.00	1	1	6	3	2.75	3.26	2.93
Falcon Pointe 2Nd Rep	4	3.00	6	1	3.00	4	1	3	2	2.88	3.26	3.37
Birr Court	4	1.00	1	4	3.00	5	6	5	4	3.50	3.26	3.52
Magnolia Villas Orlando Condo	6	3.00	1	3	5.00	4	4	2	4	3.50	3.26	3.37
Rests Haven	5	3.00	1	1	5.00	5	5	4	3	3.38	3.26	3.52
Cheney Hwy Acres 1St Add	3	3.00	6	1	3.00	5	3	1	6	3.25	3.26	3.52
Walden Woods	5	3.00	1	1	5.00	6	4	3	6	3.50	3.26	3.67
Seaward Plantation Ests 5Th Ad	1	3.00	5	1	1.00	1	2	5	6	3.00	3.26	2.93
Bithlo Ranches Annex Unrec Pla	2	1.00	6	5	1.00	1	4	2	6	3.38	3.26	2.93
Hull Island At Oakland	2	3.00	6	3	1.00	1	1	3	5	3.00	3.26	2.93
Oakland Town Of	3	3.23	6	3	2.00	1	4	1	3	3.15	3.26	2.92
Butler Manor	1	3.22	6	3	2.00	4	1	4	4	3.03	3.26	3.37
Colony	3	3.07	6	1	4.50	5	3	2	3	3.20	3.25	3.51
Palms Sec 1	3	3.94	6	1	3.00	6	3	1	4	3.12	3.25	3.66
Bunker Hill	2	3.44	4	4	3.00	4	3	2	6	3.43	3.25	3.36

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Partin Oaks	1	2.92	6	1	1.00	3	2	4	6	2.99	3.25	3.21
Oakland Trails Phase 1	2	3.92	6	3	1.00	1	1	2	5	2.99	3.25	2.91
Coco Plum Villas Condo	6	3.00	1	3	4.50	4	5	2	3	3.44	3.24	3.35
Irma Shores Rep	3	3.50	1	1	2.50	5	4	5	6	3.25	3.24	3.50
Interlaken	2	1.00	4	1	2.50	5	5	6	4	3.19	3.24	3.50
Slauson And Gibbons	3	3.00	6	2	4.50	5	5	1	2	3.31	3.24	3.50
Lake Apopka 2Nd Add	3	3.00	6	1	2.50	4	4	2	3	3.06	3.24	3.35
Kelly Park Hills Ut 4	3	4.81	6	1	3.00	2	2	1	3	2.98	3.23	3.05
Foxborough Farms	2	3.00	6	1	2.00	2	2	3	5	3.00	3.22	3.04
Downs Cove Camp Sites	3	3.00	1	1	2.00	4	6	6	3	3.13	3.22	3.33
Shadow Bay Spgs Ut 4	3	6.00	1	1	4.00	3	3	5	1	3.00	3.22	3.19
Shadow Bay Spgs Ut 2	4	6.00	1	1	4.00	3	3	4	1	3.00	3.22	3.19
Duskin Frank Sub	3	1.00	6	1	4.00	6	6	2	4	3.38	3.22	3.63
Rio Grande Terrace 4Th Add	4	3.00	1	4	6.00	4	6	2	4	3.75	3.22	3.33
Summer Oaks	3	3.00	4	1	2.00	5	3	3	6	3.13	3.22	3.48
Oak Lakes	2	3.00	3	1	2.00	6	3	5	6	3.13	3.22	3.63
Pell Ests	2	3.00	6	1	2.00	4	3	2	6	3.13	3.22	3.33
Fairview Spgs Rep 1St Add	1	1.00	6	1	4.00	5	6	4	4	3.38	3.22	3.48
Valeview	4	3.00	6	2	2.00	6	2	2	2	2.88	3.22	3.63
Frisco Bay Ut 1	3	3.82	1	3	4.50	5	3	5	3	3.29	3.21	3.47
Orlo Vista Terrace	4	5.43	1	1	4.00	4	4	3	3	3.18	3.21	3.32
Shadow Bay Spgs Ut 1	4	6.00	1	1	3.50	4	3	4	1	2.94	3.20	3.31
Pine Hill Ests	2	1.00	6	1	3.50	5	5	3	5	3.31	3.20	3.46
Henderson & Mcdonald Sub	3	1.00	6	1	3.50	4	6	2	4	3.31	3.20	3.31
Jewel Oaks	3	1.00	1	5	3.50	5	6	5	4	3.56	3.20	3.46
Bithlo (Blk 2018-2240)	2	1.00	5	5	1.50	1	3	3	6	3.31	3.20	2.87
Pros Ranch	3	3.00	6	1	1.50	1	4	1	5	3.06	3.20	2.87
Lorena Gardens	2	1.00	6	1	3.50	4	6	3	4	3.31	3.20	3.31
Lake Bell Terrace	3	3.00	1	1	3.50	5	6	5	4	3.31	3.20	3.46
Stokes Sub	2	1.00	3	4	1.50	5	4	6	4	3.19	3.20	3.46
Fairview Spgs Rep 1St Add	1	1.00	6	1	3.50	6	4	5	4	3.19	3.20	3.61
Palm Lake Ests	2	3.00	6	1	3.50	6	4	1	6	3.31	3.20	3.61
Munger Willis R Land Co	1	2.97	6	3	3.50	5	4	2	4	3.31	3.19	3.46
Hall Ests	2	5.84	6	2	4.00	4	1	1	2	2.98	3.19	3.31
Knollwood Park	2	3.21	6	1	2.50	5	4	1	6	3.21	3.19	3.46



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Hunter Land Co Sub	1	2.82	6	6	2.00	4	4	1	4	3.35	3.19	3.31
Isle Of Pines	1	1.91	4	1	1.50	1	3	6	6	3.05	3.18	2.86
Crescent Hill	4	3.02	1	3	5.00	4	5	4	2	3.38	3.18	3.30
Victoria	1	3.01	5	1	1.00	1	4	4	5	3.00	3.18	2.85
Shadow Bay Spgs Ut 3	4	5.88	1	1	3.50	3	3	4	1	2.92	3.17	3.15
Ponkan Terrace	3	3.00	6	1	1.00	1	4	2	3	2.88	3.17	2.85
Valencia Hills Ut 1	4	6.00	1	3	5.00	4	3	2	2	3.25	3.17	3.30
Provencial Square Condo	6	6.00	1	1	3.00	3	3	2	1	2.88	3.17	3.15
Bedford Hgts	5	3.00	1	1	5.00	4	3	4	4	3.25	3.17	3.30
Event Warehouse Condo	3	3.00	6	1	1.00	5	3	2	4	2.88	3.17	3.44
Eastwood Park	2	3.00	6	1	3.00	6	2	2	6	3.13	3.17	3.59
University Woods Ph 1	4	3.00	1	1	5.00	6	3	4	6	3.38	3.17	3.59
Mungers Willis R Land Co	1	3.00	4	1	1.00	5	3	6	4	2.88	3.17	3.44
Avondale	4	3.47	1	2	5.00	4	4	4	3	3.31	3.17	3.29
Piedmont Ests	1	4.56	6	1	4.50	6	3	2	3	3.13	3.16	3.58
Orlo Vista Hgts Add	4	3.41	1	3	5.00	4	4	4	2	3.30	3.16	3.28
Jewel Shores	4	1.13	1	5	4.00	4	6	4	3	3.52	3.15	3.28
Oak Meadows P D Ph 3 Ut 1	5	5.88	1	1	5.00	6	3	2	2	3.11	3.15	3.57
Valencia Hills Ut 2	4	6.00	1	3	4.50	4	3	2	2	3.19	3.15	3.28
Sphaler Add To Taft	2	3.00	6	4	2.50	4	3	1	4	3.19	3.15	3.28
Lake Pine Loch Hgts	1	3.00	1	3	2.50	5	6	6	4	3.31	3.15	3.43
Barnum Lillian Sub	2	1.00	1	5	2.50	4	6	6	4	3.44	3.15	3.28
Palm Lake Ests 4Th Add	2	3.00	1	1	2.50	5	4	6	6	3.19	3.15	3.43
Fairview Hgts Rep	3	1.00	4	4	2.50	4	6	3	3	3.31	3.15	3.28
East Highlands Sub	3	3.00	1	1	2.50	6	5	5	5	3.19	3.15	3.57
Piney Woods Point	5	3.00	1	1	4.50	5	3	3	6	3.31	3.15	3.43
Cross Rds Sub	3	1.00	6	3	2.50	3	5	2	3	3.19	3.15	3.13
Brentwood	3	3.00	6	1	2.50	4	4	1	4	3.06	3.15	3.28
Cloverlawn	4	3.00	1	3	4.50	4	5	3	4	3.44	3.15	3.28
Cobblestone Walk At Kaley Condo	6	3.00	1	3	4.50	5	1	3	4	3.19	3.15	3.43
Prosper Colony Blk 1	1	3.00	6	6	2.50	5	3	1	4	3.31	3.15	3.43
Bunker Hill 2Nd Sec	1	3.45	2	4	2.50	6	4	4	6	3.37	3.14	3.57
Munger Willis R Land Co	1	4.30	5	6	1.00	5	2	2	3	3.04	3.14	3.41
Becks Add To Zellwood	2	3.00	6	1	2.00	1	6	1	4	3.13	3.13	2.81
Westmoor Ph 3	4	6.00	1	1	4.00	5	3	3	2	3.00	3.13	3.41

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Powers Ridge	4	1.00	6	1	4.00	5	3	2	4	3.13	3.13	3.41
Fairbanks Shores 2Nd Add	4	1.00	3	2	4.00	4	6	3	4	3.38	3.13	3.26
Randolph Plat	2	1.00	1	5	2.00	5	6	6	4	3.38	3.13	3.41
Bass Lake Manor	4	3.00	1	1	4.00	4	6	4	3	3.25	3.13	3.26
Spences Point	3	3.00	1	3	2.00	4	3	6	3	3.00	3.13	3.26
Ruthwood Acres	3	3.00	6	1	2.00	5	4	1	4	3.00	3.13	3.41
Avondale	2	3.00	6	1	2.00	6	5	2	3	3.00	3.13	3.56
Apopka Ranches	1	3.05	6	4	1.50	4	4	2	3	3.07	3.12	3.25
Avondale Add	3	3.26	1	3	4.50	4	4	5	2	3.22	3.11	3.24
Lake Rose Ridge Rep	3	5.00	1	1	3.50	4	2	5	3	2.94	3.11	3.24
Fort Gatlin Hgts	3	1.00	1	2	3.50	6	6	6	4	3.31	3.11	3.54
Oak Forest Sub	5	3.00	1	3	3.50	4	6	2	3	3.31	3.11	3.24
River Oaks East Condo	5	3.00	1	1	3.50	4	3	3	6	3.19	3.11	3.24
Walker-Rouse Sub	1	3.00	6	1	1.50	6	2	3	6	2.94	3.11	3.54
Stewart Homestead	1	3.00	6	1	3.50	5	5	2	4	3.19	3.11	3.39
Rivers Edge	3	3.00	1	1	3.50	5	3	5	6	3.19	3.11	3.39
Palm Cove Ests 2	3	3.00	1	3	3.50	5	2	6	3	3.06	3.11	3.39
Bay Vista Ests Ut 3	2	3.37	3	1	4.00	5	2	5	4	3.05	3.11	3.39
East Coast Villa	1	3.33	6	1	2.00	5	4	3	3	2.92	3.10	3.38
Westmont	5	4.07	1	1	5.00	5	4	3	2	3.13	3.10	3.38
Vineland Oaks	3	3.32	1	1	4.00	6	2	6	4	3.04	3.10	3.53
Prosper Colony Blk E	1	1.92	6	2	1.50	5	5	3	4	3.05	3.10	3.38
Lafayette Club	3	5.67	1	1	2.50	3	2	5	2	2.77	3.09	3.08
Lake Johns Shores	2	4.91	1	4	1.50	2	4	4	3	3.05	3.09	2.93
Kelly Park Hills Ut 3	3	4.65	6	1	2.50	2	2	1	2	2.77	3.09	2.93
Terrell Terrace	3	6.00	6	1	1.00	1	1	1	1	2.50	3.09	2.78
Piedmont Ests	2	3.00	6	1	5.00	5	5	1	3	3.25	3.09	3.37
Fairbanks Shores 4Th Add	5	1.00	1	2	3.00	5	6	4	4	3.25	3.09	3.37
Lake Mary Jess Shores	3	1.00	1	6	3.00	5	4	5	4	3.38	3.09	3.37
Conway Terrace	4	3.00	1	1	5.00	4	6	3	4	3.38	3.09	3.22
East Dale Acres Rep	5	3.00	1	1	5.00	5	5	2	5	3.38	3.09	3.37
East Cloverdale	1	3.00	6	1	1.00	6	6	1	6	3.13	3.09	3.52
Cloverdale Sub	3	3.00	1	3	5.00	4	6	3	4	3.50	3.09	3.22
Rock Springs Homesites	2	3.25	6	1	2.00	1	4	1	5	3.03	3.09	2.78
Highland Ests	2	3.60	6	1	2.50	3	4	2	2	2.89	3.08	3.07

Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Victoria Place Ut 1	4	5.57	1	1	4.50	4	3	3	2	3.01	3.08	3.21
Lakewood Park	1	3.54	1	1	2.50	6	4	6	6	3.13	3.07	3.51
Blue Ridge Acres	1	5.29	6	1	1.50	4	4	1	3	2.85	3.07	3.21
Oaks At Paradise	2	3.00	6	3	2.50	6	2	2	3	2.94	3.07	3.50
Oak Ridge Manor	4	1.00	6	1	2.50	6	4	2	3	2.94	3.07	3.50
Silver Beach Sub	4	3.00	1	1	4.50	5	6	3	4	3.31	3.07	3.35
Backachers Ests	3	2.75	1	1	3.50	4	3	6	4	3.03	3.07	3.20
Adirondack Hgts	4	3.00	1	3	4.50	4	5	3	3	3.31	3.07	3.20
Irwin Manor	4	3.00	1	4	2.50	6	6	2	4	3.31	3.07	3.50
Windermere Town Of Rep	2	3.00	1	3	2.50	2	4	6	3	3.06	3.07	2.91
Park Springs	3	5.50	1	1	2.50	3	2	5	2	2.75	3.06	3.05
Bear Lake Highland Acres	1	5.43	6	1	2.50	3	2	2	2	2.74	3.05	3.05
Alafaya Woods	4	4.67	1	1	3.50	4	4	2	5	3.15	3.05	3.19
Roseview Sub	4	5.01	1	1	4.00	4	3	3	3	3.00	3.05	3.19
Down Acres Ests 1St Rep	3	3.00	1	1	2.00	5	4	6	3	2.88	3.04	3.33
Sun Kist Park	1	3.00	1	3	2.00	5	5	6	4	3.13	3.04	3.33
West Orlando	2	3.00	6	1	2.00	6	5	1	4	3.00	3.04	3.48
Trentonian Court	3	3.00	1	1	4.00	5	6	4	4	3.25	3.04	3.33
Flowers Manor	2	3.00	1	1	2.00	5	4	6	5	3.00	3.04	3.33
Sunset Lakes	2	3.00	1	5	2.00	4	2	6	3	3.00	3.04	3.19
Clover Hgts Rep	4	3.00	1	3	4.00	4	5	3	3	3.25	3.04	3.19
Fairbanks Shores	1	1.00	2	4	2.00	4	6	6	4	3.25	3.04	3.19
Keenes Pointe Ut 2	3	3.00	1	4	2.00	4	1	6	3	2.88	3.04	3.19
Pine Castle	1	3.18	6	1	1.00	5	3	3	4	2.77	3.03	3.32
Ponkan Pines	1	3.64	6	1	1.00	3	4	2	4	2.83	3.03	3.02
Bretwood 2	4	1.00	6	1	3.50	5	2	2	4	2.94	3.02	3.31
Hidden Springs Ut 5	3	6.00	1	1	3.50	5	3	4	1	2.81	3.02	3.31
Inwood Haven	3	3.00	1	1	3.50	6	2	6	4	2.94	3.02	3.46
Grove Villa	5	3.00	1	1	5.50	6	6	2	3	3.31	3.02	3.46
Killarney Circle	4	1.00	1	2	3.50	6	5	5	4	3.19	3.02	3.46
Sandy Shores	3	3.00	1	1	1.50	6	4	6	3	2.81	3.02	3.46
Cheney Highlands 2Nd Add	3	3.00	1	1	3.50	5	5	4	5	3.19	3.02	3.31
Cypress Landing Ph 1	3	6.00	1	2	3.50	4	2	4	1	2.81	3.02	3.17
Sunshine Gardens 1St Add	4	1.00	4	1	3.50	6	6	2	4	3.19	3.02	3.46
Mcdonald & Wilkins Sub	1	4.61	6	1	1.00	1	4	2	2	2.70	3.02	2.72

Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Lake Holden Hills	2	1.07	1	3	3.00	5	6	6	4	3.26	3.01	3.31
Lockmere	1	3.31	6	3	2.00	4	4	1	4	3.04	3.01	3.16
Hidden Springs Ut 2	3	5.31	1	1	4.00	4	4	4	1	2.91	3.01	3.16
Hilltop Stable Sub	1	4.53	6	1	1.00	4	2	3	2	2.57	3.00	3.15
Palm Cove Ests 5	4	3.00	1	1	3.00	4	2	5	4	2.88	3.00	3.15
Wekiva Forest Trails	1	3.00	6	3	1.00	3	1	3	4	2.75	3.00	3.00
Cheney Highlands	3	3.00	1	1	3.00	5	5	4	5	3.13	3.00	3.30
Leawood	2	3.00	6	1	3.00	5	4	1	4	3.00	3.00	3.30
Lake Willis Camps 1St Add	1	3.00	3	1	1.00	6	4	6	3	2.75	3.00	3.44
Lakeview (Conway)	3	1.00	1	4	3.00	5	5	5	4	3.25	3.00	3.30
Ford & Warren Sub	4	3.00	1	1	5.00	4	5	3	4	3.25	3.00	3.15
Hickory Lake Ests	1	3.00	3	1	1.00	4	3	6	4	2.75	3.00	3.15
Raintree Place Ph 2	3	4.75	1	1	4.00	4	3	4	3	2.97	3.00	3.15
Westmoor Ph 4A	4	5.36	1	3	3.50	4	3	2	2	2.98	3.00	3.15
Westmoor Ph 4D	3	4.24	1	1	4.00	5	3	5	2	2.90	3.00	3.29
Harbor Hgts Ph 2	5	4.85	1	1	5.50	6	3	2	2	3.04	2.99	3.44
Orange County Indus Pk Ph 2	1	3.34	6	3	3.50	4	2	2	3	2.98	2.99	3.14
Angebilt Add	3	2.94	1	1	3.00	6	6	4	4	3.12	2.99	3.44
Sand Lake Hills Sec 9	4	5.68	1	1	4.00	4	3	3	1	2.83	2.99	3.14
Winderlakes 2	3	5.42	1	1	3.00	4	3	4	2	2.80	2.99	3.14
Edgewater Beach 2Nd Rep	1	4.38	1	1	1.00	1	5	6	3	2.80	2.98	2.69
Easton Sub	5	3.00	1	1	4.50	3	3	2	6	3.19	2.98	2.98
Carmel Park	5	3.00	1	1	4.50	6	3	2	6	3.19	2.98	3.43
Sherman Farms	1	3.00	3	1	2.50	5	6	3	6	3.19	2.98	3.28
Boone Terrace	4	3.00	1	1	4.50	4	6	3	3	3.19	2.98	3.13
Eastpoint Indus Park	1	3.00	6	3	2.50	5	2	2	4	2.94	2.98	3.28
Shiocton Hgts	4	3.00	4	1	2.50	5	2	1	6	2.94	2.98	3.28
Cobblestone Walk At Kaley Condo	6	3.00	1	3	4.50	5	1	2	4	3.06	2.98	3.28
Lake Holden Grove	2	1.00	3	3	2.50	4	4	5	4	3.06	2.98	3.13
Ethans Glenn	4	4.60	1	4	4.00	4	4	1	3	3.20	2.97	3.13
Riverdale Farms	2	2.96	1	1	2.50	6	4	5	6	3.06	2.97	3.42
Isle Of Pines 4Th Add	2	1.19	3	1	1.50	1	4	5	6	2.96	2.97	2.68
Hidden Ests	4	5.55	1	1	4.00	5	3	3	1	2.82	2.97	3.27
Pine Villa	2	2.17	6	1	1.50	6	6	1	4	2.96	2.97	3.41
Valencia Hills Ut 3	4	6.00	1	1	4.00	4	3	2	2	2.88	2.96	3.11



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Lake Jennie Jewell Hgts	3	1.00	1	5	4.00	4	6	4	3	3.38	2.96	3.11
Holden Manor	5	3.00	1	3	4.00	5	2	3	3	3.00	2.96	3.26
Inwood Landing	3	3.00	1	1	4.00	6	3	5	4	3.00	2.96	3.41
River Pines	4	3.00	1	1	4.00	5	3	3	6	3.13	2.96	3.26
River Crests	5	3.00	1	1	4.00	5	3	2	6	3.13	2.96	3.26
Reserve At Waterford Pointe Ph	2	3.00	2	5	2.00	4	1	5	3	2.88	2.96	3.11
Livingston J H Land Sub	1	1.00	4	1	2.00	5	6	5	4	3.00	2.96	3.26
Beeman Park	4	3.00	1	3	4.00	4	5	2	4	3.25	2.96	3.11
Park Ridge	2	3.87	6	1	2.50	4	4	1	2	2.80	2.96	3.11
Orlo Vista Terrace Annex	3	3.70	1	1	3.00	6	4	4	4	2.96	2.95	3.40
Hewett Hgts	3	2.17	1	3	3.00	6	5	4	4	3.15	2.94	3.40
Summer Lakes	3	3.16	1	1	3.00	5	3	5	4	2.90	2.94	3.25
Cypress Shores 1St Add	3	3.15	1	1	1.00	3	3	6	3	2.64	2.94	2.95
Fairbanks Shores 3Rd Add	5	1.00	1	2	3.50	4	6	3	4	3.19	2.93	3.09
Oak Ridge Manor Annex	4	1.00	6	1	1.50	5	5	1	3	2.81	2.93	3.24
Lago De Oro Condo Ph 2	6	3.00	1	1	3.50	6	1	2	6	2.94	2.93	3.39
Roselle Park	5	3.00	1	1	3.50	4	6	2	3	3.06	2.93	3.09
Arbor Woods North	5	3.00	1	1	5.50	5	3	2	5	3.19	2.93	3.24
Piney Wood Lakes	3	3.00	1	1	3.50	4	5	4	4	3.06	2.93	3.09
Lakeview Hgts	1	3.00	1	3	1.50	5	4	6	4	2.94	2.93	3.24
Tilden Manor	1	3.00	6	2	1.50	6	4	1	5	2.94	2.93	3.39
Holden Shores	3	3.00	1	1	3.50	5	6	4	3	3.06	2.93	3.24
Cheney Highlands 3Rd Add	3	3.00	1	1	3.50	5	2	5	5	2.94	2.93	3.24
Keen Theron H Sub	2	3.00	6	1	1.50	6	2	3	2	2.56	2.93	3.39
Rock Springs	1	3.62	6	1	1.00	1	4	1	5	2.83	2.93	2.65
Bay Park	3	5.98	1	1	3.50	6	2	4	1	2.69	2.93	3.39
Southridge	5	4.60	1	1	5.00	5	3	2	2	2.95	2.93	3.24
Raintree Place Ph 1	4	4.94	1	1	3.50	5	3	3	2	2.80	2.92	3.23
Lakeside Place Annex	2	5.15	1	2	2.50	4	1	6	1	2.58	2.92	3.08
Lakeside Place	1	5.65	1	2	2.50	4	2	6	1	2.64	2.92	3.08
Piney Oak Shores	3	3.00	1	1	3.00	4	5	4	4	3.00	2.91	3.07
Kings Cove	6	3.00	1	1	3.00	5	3	2	4	2.88	2.91	3.22
Lakeside Village	4	1.00	1	1	3.00	4	5	5	4	3.00	2.91	3.07
Fernway	5	3.00	1	1	5.00	4	5	2	3	3.13	2.91	3.07
Crittenden Camp Sites	2	3.00	2	1	3.00	6	1	6	4	2.75	2.91	3.37

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Seaward Plantation Ests 3Rd Ad	1	3.00	6	1	1.00	4	2	2	6	2.75	2.91	3.07
East Orlando Gateway Annex Ur	3	1.00	6	1	3.00	2	3	1	6	3.00	2.91	2.78
Glencoe Sub Rep	3	3.00	1	2	3.00	5	6	3	4	3.13	2.91	3.22
Bithlo Ranches Annex Unrec Pla	1	1.00	6	1	1.00	1	2	4	6	2.75	2.91	2.63
Foxbower Manor	3	3.00	1	1	3.00	4	5	3	6	3.13	2.91	3.07
Palm Cove Ests 3	3	3.00	1	1	3.00	4	2	6	3	2.75	2.91	3.07
Leawood 1St Add	1	2.87	6	1	3.50	5	5	1	4	3.05	2.91	3.22
Seaward Plantation Ests 4Th Ad	1	2.97	6	1	1.00	4	2	2	6	2.75	2.91	3.07
Spring Pine Villas	5	3.00	1	1	4.50	4	3	2	5	3.06	2.89	3.06
Whispering Pines Place Condo	6	3.00	1	3	4.50	5	3	1	3	3.06	2.89	3.20
Pelham Park 1St Add	4	3.00	1	3	4.50	5	5	2	3	3.19	2.89	3.20
East Orlando Gateway Unrec	3	1.00	6	1	2.50	4	3	1	6	2.94	2.89	3.06
Lakeview Acres	2	3.00	1	1	2.50	5	3	5	6	2.94	2.89	3.20
University Oaks Office Park Con	2	3.00	1	1	2.50	6	1	6	6	2.81	2.89	3.35
Michigan Oaks	5	3.00	1	3	4.50	5	3	2	3	3.06	2.89	3.20
Union Park Ests	3	3.00	1	1	2.50	4	5	3	6	3.06	2.89	3.06
Keenes Pointe Ut 4 (Sec 31)	4	3.00	1	1	4.50	6	1	5	3	2.81	2.89	3.35
Edgewood Sub	4	3.00	1	3	4.50	6	5	2	3	3.19	2.89	3.35
Little Lake Bryan Parcel 8	1	3.62	6	1	6.00	6	1	2	3	2.95	2.89	3.35
Spring Hollow Ph 1	1	3.86	6	2	1.00	3	2	1	5	2.73	2.89	2.91
Rock Springs Ridge Ph 1	2	3.35	6	1	1.00	2	2	1	5	2.67	2.89	2.76
Peters Arthur Sub	1	4.34	6	1	1.00	1	3	2	2	2.54	2.89	2.61
Winter Ridge	5	5.19	1	1	5.50	6	3	1	2	2.96	2.88	3.34
Bithlo (Blk A-X)	3	1.05	4	5	2.00	1	3	1	6	3.13	2.88	2.60
Munger Willis R Land Co	1	2.55	6	1	4.00	6	4	2	3	2.94	2.88	3.34
Cypress Landing Ph 2	3	5.79	1	3	3.00	3	2	3	1	2.72	2.88	2.90
Winderlakes	3	3.88	1	1	2.50	4	4	5	1	2.67	2.87	3.04
Karolina On Killarney	5	1.00	1	1	4.00	5	6	3	4	3.13	2.87	3.19
Jenny Jewel Point	4	1.00	1	5	4.00	4	3	4	3	3.13	2.87	3.04
Harrell Hgts Rep	3	3.00	1	1	4.00	6	4	3	6	3.13	2.87	3.33
Anderson Village	4	3.00	1	1	2.00	4	2	4	5	2.75	2.87	3.04
Banana Bay Ests	2	3.00	1	3	2.00	5	2	6	3	2.75	2.87	3.19
Tindaro Pine Ests	5	3.00	1	1	4.00	5	3	2	5	3.00	2.87	3.19
Handsonhurst Park 1St Add	4	3.00	1	3	4.00	6	4	2	4	3.13	2.87	3.33
Wawa Store At Avalon Road	1	4.68	1	3	1.00	1	1	6	3	2.59	2.86	2.58

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Sloewood East Ut 1	2	3.00	1	1	1.50	1	2	6	5	2.69	2.85	2.57
Lakeview Hgts Rep	2	3.00	1	3	1.50	4	4	5	3	2.81	2.85	3.02
Fairbanks Shores 1St Add	5	1.00	1	2	3.50	4	6	3	3	3.06	2.85	3.02
Sunshine Gardens	4	1.00	3	1	3.50	4	6	2	4	3.06	2.85	3.02
Parkway Dist Ctr Condo	2	3.00	6	1	1.50	4	3	1	4	2.69	2.85	3.02
Mccormack Place	4	3.00	1	1	3.50	3	4	3	4	2.94	2.85	2.87
Sherwood Forest	5	3.00	1	1	5.50	6	3	1	6	3.19	2.85	3.31
Sawyer Shores Sub	2	3.00	1	1	1.50	5	4	6	3	2.69	2.85	3.17
Orlando Improvement Co No 2	3	3.00	1	1	3.50	5	5	3	5	3.06	2.85	3.17
Waterford Pointe Ph 2 Rep	1	3.00	3	1	1.50	4	2	6	3	2.56	2.85	3.02
Tangerine Terrace On Lake Ola	1	3.00	1	3	1.50	1	5	5	4	2.94	2.85	2.57
Kelso On Lake Butler	1	4.62	1	1	1.00	4	3	6	3	2.58	2.85	3.02
Winderwood	4	5.11	1	1	3.00	4	3	3	1	2.64	2.85	3.02
Lake Avalon Hgts	1	4.06	1	1	1.00	3	4	6	3	2.63	2.84	2.86
Fleming Hgts	3	2.93	1	3	3.50	5	4	3	4	3.05	2.84	3.16
Liberty Hgts 1St Add	3	1.52	6	1	3.00	3	5	1	2	2.82	2.83	2.86
Smith Emery Sub	1	3.00	6	1	1.00	4	3	3	2	2.50	2.83	3.00
Woodlands Of Windermere Ut 3	3	6.00	1	3	3.00	4	3	2	1	2.75	2.83	3.00
Bay Vista Ests Ut 2	3	3.00	2	1	3.00	4	3	4	3	2.75	2.83	3.00
Flamingo Shores	3	1.00	1	1	3.00	5	6	5	4	3.00	2.83	3.15
Agnes Hgts	4	3.00	1	1	5.00	5	6	2	3	3.13	2.83	3.15
Pine Shores	2	3.00	1	1	1.00	4	3	5	6	2.75	2.83	3.00
Justamere Camp Rep	3	1.00	1	2	3.00	4	5	5	4	3.00	2.83	3.00
Bithlo (Blk 2000-2017)	1	1.00	5	5	1.00	1	3	2	6	3.00	2.83	2.56
Regency Indus Pk Sec 14	1	3.00	6	1	1.00	5	3	2	4	2.63	2.83	3.15
Orange Blossom Indus Pk	2	1.00	6	3	1.00	3	3	3	2	2.63	2.83	2.85
Almond Tree Ests	3	3.00	1	1	3.00	5	3	5	3	2.75	2.83	3.15
Palm Cove Ests 4	3	3.00	1	1	3.00	4	2	5	4	2.75	2.83	3.00
Keen Castle	3	3.00	1	4	3.00	6	5	2	4	3.13	2.83	3.30
Verhovay Colony	1	3.00	6	1	1.00	4	2	2	5	2.63	2.83	3.00
Lake Avalon Ests 2Nd Rep	1	3.00	1	1	1.00	4	5	6	4	2.75	2.83	3.00
Grand Cypress Resort Ph 1	1	3.00	6	1	1.00	3	3	2	4	2.63	2.83	2.85
Livingston J H Sub	2	1.09	1	4	2.50	5	5	5	4	3.07	2.82	3.14
Unrecorded Plat Of Dorwood Ma	1	3.70	6	1	2.00	5	5	1	2	2.71	2.82	3.14
Gibons W C & J R Sub	1	4.44	6	1	1.00	1	4	1	2	2.55	2.81	2.55

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
North Bay Sec 1 Rep	3	3.00	1	1	2.50	5	3	5	3	2.69	2.80	3.13
Pinar Hgts Ut 3	5	3.00	1	2	2.50	6	3	2	4	2.81	2.80	3.28
Spring Pines 1St Add	4	3.00	1	1	4.50	4	4	2	5	3.06	2.80	2.98
Los Terranos	1	3.00	6	1	2.50	5	4	1	4	2.81	2.80	3.13
Whispering Pines	4	3.00	1	3	4.50	5	4	2	3	3.06	2.80	3.13
Parker Hgts	3	3.00	1	1	4.50	5	4	3	5	3.06	2.80	3.13
Stansbury Ests	4	3.00	1	2	4.50	6	6	1	4	3.19	2.80	3.28
Westmoor Ph 4B	4	5.10	1	1	4.00	5	3	2	2	2.76	2.80	3.13
Walmar	1	4.80	6	1	1.00	4	3	1	2	2.48	2.79	2.97
Harrell Hgts	2	3.02	2	1	2.00	6	4	3	6	2.88	2.79	3.26
Orange Ctr	1	3.13	6	1	1.50	5	3	2	3	2.58	2.78	3.11
Magnolia Oaks	2	4.25	6	1	1.00	1	2	1	2	2.41	2.78	2.52
Granada Villas Ph 1	5	3.00	1	1	4.00	5	3	3	2	2.75	2.78	3.11
Roberts Landing	2	3.00	1	3	2.00	5	3	5	3	2.75	2.78	3.11
Shady Acres	4	3.00	1	1	4.00	6	6	2	3	3.00	2.78	3.26
Bunker Hill 3Rd Sec	2	3.00	1	4	4.00	6	2	3	6	3.13	2.78	3.26
Lake Marsha 1St Add Rep	1	3.38	1	1	2.50	4	5	6	2	2.73	2.78	2.96
Conway Park	4	3.00	1	1	4.00	4	5	2	4	3.00	2.78	2.96
Windermere	2	3.37	1	1	2.50	1	4	5	3	2.73	2.78	2.52
Ola Beach On Lake Ola 2Nd Rep	3	3.48	1	1	2.00	2	5	3	4	2.81	2.78	2.66
Bay Vista Ests Ut 1	3	1.60	2	1	3.50	5	3	5	3	2.76	2.78	3.11
Silver Woods Ph 3A	4	3.47	1	2	4.00	4	3	3	2	2.81	2.78	2.96
Forest Highlands	1	3.47	5	1	6.00	5	3	1	4	3.06	2.78	3.11
W E Hudson	1	3.19	1	1	1.00	2	5	5	5	2.77	2.77	2.66
Round Lake Hgts Rep	1	3.67	6	1	1.00	1	1	3	2	2.33	2.77	2.51
Central Orange Park	1	2.66	6	1	1.00	5	2	3	3	2.46	2.77	3.10
Lake Fischer Ests	4	3.39	1	4	2.00	4	2	3	2	2.67	2.76	2.95
Universal Center Condo	6	3.00	1	1	3.50	6	1	3	2	2.56	2.76	3.24
Lake Down Shores	2	3.00	1	1	1.50	2	2	6	4	2.56	2.76	2.65
Waterwitch Club	3	1.00	1	2	3.50	3	6	4	4	3.06	2.76	2.80
Green Fields	4	3.00	1	1	3.50	4	6	2	3	2.94	2.76	2.94
Aein Sub	1	3.00	1	1	1.50	4	4	5	6	2.81	2.76	2.94
Bonaventure 3	3	1.00	6	1	1.50	4	2	1	6	2.69	2.76	2.94
Ghio Terrace 1St Sec	4	3.00	1	2	3.50	5	5	2	3	2.94	2.76	3.09
Avon Vista	2	1.00	6	3	1.50	3	6	1	2	2.81	2.76	2.80



Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Handsonhurst	4	3.00	1	1	3.50	5	6	2	3	2.94	2.76	3.09
Butler Bay Ut 1	1	3.00	1	3	1.50	1	3	6	3	2.69	2.76	2.50
Lake Ola Farms Groves	1	3.07	1	1	1.00	1	5	5	5	2.76	2.75	2.49
Orlo Vista Terrace Annex	2	5.31	1	1	2.00	5	4	3	3	2.66	2.75	3.08
Gatlin With Hobbs	2	1.04	1	1	3.00	4	5	6	4	2.88	2.75	2.93
Cypress Landing Ph 3	3	3.54	1	3	3.00	4	2	4	2	2.69	2.75	2.93
Palm Cove Ests	4	2.77	1	1	4.00	5	2	4	3	2.72	2.74	3.08
Gibbons W C & J R Sub	1	4.00	6	1	1.00	1	4	1	2	2.50	2.74	2.48
Highlands North 2	1	6.00	6	1	1.00	1	1	1	1	2.25	2.74	2.48
Westmoor Ph 1	3	4.25	1	1	4.00	5	3	3	3	2.78	2.74	3.07
Lakewood Park	2	3.00	3	1	3.00	6	2	3	5	2.75	2.74	3.22
Palm Lake Ests 3Rd Add	1	3.00	1	1	3.00	6	3	5	6	2.88	2.74	3.22
Lake Drawdy Ests	2	3.00	1	3	1.00	1	2	4	6	2.75	2.74	2.48
Lake Clarice Plantation	2	3.00	1	3	1.00	4	1	6	3	2.50	2.74	2.93
School Terrace	4	1.00	1	4	3.00	5	6	2	4	3.13	2.74	3.07
Greenhurst	1	3.00	6	1	1.00	4	2	2	4	2.50	2.74	2.93
Lake Drawdy Terrace	2	3.00	1	1	1.00	1	2	5	6	2.63	2.74	2.48
Nelaview	2	3.00	1	1	3.00	6	5	4	4	2.88	2.74	3.22
Seneca Ests Sub	1	3.00	5	1	1.00	1	2	2	6	2.63	2.74	2.48
Braemar Phase 2	1	3.00	1	4	1.00	3	1	6	4	2.63	2.74	2.78
Dickson H H Sub Of Livingston S	3	1.00	1	4	3.00	6	6	3	4	3.13	2.74	3.22
Crocker Hgts	4	3.00	1	1	5.00	6	5	2	3	3.00	2.74	3.22
Sand Pines	3	5.30	1	1	3.50	5	3	3	1	2.60	2.73	3.06
Fleming Hgts Extended	1	4.05	2	3	2.50	6	4	2	5	2.94	2.73	3.21
Deer Island	2	3.16	1	1	2.00	1	2	6	3	2.52	2.72	2.47
Plymouth	1	3.15	5	1	2.00	5	4	2	3	2.64	2.72	3.06
North Bay Sec 2	3	3.39	1	1	3.00	4	3	4	3	2.67	2.72	2.91
Spring Pines	4	2.89	1	2	5.00	4	4	1	5	3.11	2.72	2.91
Waterford Pointe	1	3.00	1	5	2.50	4	2	5	3	2.81	2.72	2.91
Magerstadt Sub	3	3.00	1	1	4.50	4	4	3	4	2.94	2.72	2.91
Townhomes At Tuscany Condo	6	3.00	1	2	4.50	6	1	1	4	2.81	2.72	3.20
Gore Sub	2	1.00	1	1	2.50	6	5	6	4	2.81	2.72	3.20
Randolph Land Rep	1	1.00	1	2	2.50	6	6	6	4	2.94	2.72	3.20
Conway Plaza	1	1.00	1	4	2.50	6	6	5	4	3.06	2.72	3.20
Conway Ests Rep	4	3.00	1	1	4.50	4	5	2	3	2.94	2.72	2.91

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Harbour Island Sub	2	1.00	1	2	2.50	4	4	6	4	2.81	2.72	2.91
West Winter Park	1	3.00	1	1	2.50	5	5	5	4	2.81	2.72	3.06
Silver Woods Ph 1	4	4.74	1	2	3.50	4	3	2	1	2.66	2.72	2.91
Lake Hill	4	3.22	1	3	3.50	6	4	2	2	2.84	2.71	3.20
Highlands North	1	4.80	6	1	1.00	1	3	1	1	2.35	2.71	2.45
Ridgemoore Ph 1	4	4.15	1	1	3.50	5	2	3	2	2.58	2.70	3.04
Metcalf Park Rep	1	3.15	2	1	1.50	1	2	6	3	2.46	2.70	2.45
Estates At Windermere 1St Add	2	3.00	1	3	2.00	3	2	5	3	2.63	2.70	2.74
Angebilt Add 2	3	3.00	1	1	4.00	5	6	2	4	3.00	2.70	3.04
Lake Drawdy Reserve	2	3.25	1	1	1.00	2	1	5	6	2.53	2.70	2.59
Pershing Villas	5	3.00	1	3	4.00	5	2	1	4	2.88	2.70	3.04
Vizcaya Heights Condo 3	2	3.00	1	1	2.00	5	1	6	4	2.50	2.70	3.04
Lake Davis Ests	1	4.08	1	2	1.50	3	1	6	3	2.45	2.69	2.73
Lake Sherwood Cove	2	3.71	1	3	3.00	4	2	4	3	2.71	2.69	2.88
Silver Woods Ph 4	4	3.05	1	2	3.50	4	3	3	2	2.69	2.68	2.88
Arrowhead Lakes	1	3.42	1	1	2.00	1	3	6	3	2.55	2.68	2.43
Prosper Colony Blk H	1	3.16	6	1	1.00	3	3	1	4	2.52	2.68	2.73
Chesterhill Ests Ph 2	2	3.15	1	2	1.00	1	1	5	5	2.52	2.68	2.43
Butler Bay Ut 3	1	3.00	2	1	1.50	3	2	6	3	2.44	2.67	2.72
Overstreet	1	3.00	6	1	1.50	6	5	1	2	2.56	2.67	3.17
Lake Rose Pointe	3	3.00	1	1	3.50	4	3	4	3	2.69	2.67	2.87
Lake Hiawassa Terrace Rep	3	3.00	1	1	3.50	6	5	3	3	2.81	2.67	3.17
College Cove	4	3.00	1	2	5.50	5	3	1	5	3.06	2.67	3.02
Lake Mary Jane Ests Rep	1	1.00	3	1	1.50	1	1	6	6	2.56	2.67	2.43
Johnny Park	3	3.00	1	1	5.50	5	4	2	5	3.06	2.67	3.02
Lukas Ests	1	3.00	1	3	1.50	2	1	5	6	2.69	2.67	2.57
Krick Sub	3	3.00	1	2	1.50	6	6	2	4	2.81	2.67	3.17
Bowser Sub	2	3.00	4	2	1.50	6	4	1	4	2.69	2.67	3.17
Farmington Hgts	4	3.00	1	1	3.50	6	3	2	5	2.81	2.67	3.17
Lake Mabel Shores Sub	1	3.00	1	1	1.50	4	3	6	4	2.56	2.67	2.87
Lake Sue Park	3	3.00	1	1	3.50	5	6	2	4	2.94	2.67	3.02
Braemar	2	3.00	1	4	1.50	3	1	5	3	2.56	2.67	2.72
Surrey Ridge	4	3.00	1	1	3.50	5	3	2	5	2.81	2.67	3.02
Mountain Park Orange Groves	1	3.11	1	1	1.00	3	4	6	3	2.51	2.67	2.72
Isleworth West	1	4.60	1	1	1.00	1	1	6	3	2.33	2.67	2.42

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Lake Sheen Ests	2	3.08	1	1	1.00	6	2	6	3	2.38	2.67	3.16
Willowood Ut 1	2	5.19	1	3	2.50	4	3	3	1	2.59	2.66	2.86
Munger Willis R Land Co	1	3.05	6	1	1.00	3	4	1	3	2.51	2.66	2.71
Cypress Shores	1	3.01	1	1	1.00	4	3	6	4	2.50	2.65	2.85
Wingrove Ests	4	4.01	1	2	3.00	4	2	3	1	2.50	2.65	2.85
Lake Ola Ests	1	3.00	1	1	1.00	1	2	6	5	2.50	2.65	2.41
Tangerine Hgts	1	3.00	1	2	1.00	1	3	5	5	2.63	2.65	2.41
Isle Of Bali 2 Condo Ph 8	1	3.00	1	1	1.00	1	6	5	3	2.63	2.65	2.41
Keenes Pointe Ut 10 First Rep	1	3.00	1	3	1.00	1	1	6	4	2.50	2.65	2.41
Keenes Pointe Ut 6 (Sec 30)	3	3.00	1	4	1.00	3	1	4	3	2.50	2.65	2.70
Piney Oak Shores 1St Add	2	3.00	1	1	3.00	5	2	5	4	2.63	2.65	3.00
Prosper Colony	1	3.00	6	1	1.00	5	1	2	4	2.38	2.65	3.00
Pine Meadows Ph 1	4	3.00	1	3	3.00	5	3	1	5	2.88	2.65	3.00
Butler Bay Ut 2	2	3.00	1	3	1.00	2	2	5	3	2.50	2.65	2.56
Sphaler Add To Prosper Colony	1	3.00	6	1	1.00	3	3	1	4	2.50	2.65	2.70
Orange Villa	3	3.00	1	1	3.00	5	6	2	4	2.88	2.65	3.00
Prosper Colony	1	3.00	6	1	1.00	6	3	1	4	2.50	2.65	3.15
Cape Orl Ests Ut 11A	1	3.00	3	5	1.00	1	1	2	6	2.75	2.65	2.41
Lake Whippoorwill Ests	1	3.00	1	1	1.00	4	2	6	5	2.50	2.65	2.85
Regency Indus Pk Sec 17	1	2.99	6	1	1.00	4	2	1	5	2.50	2.65	2.85
Isle Of Pines 5Th Add	2	1.22	3	1	2.00	1	2	4	6	2.65	2.65	2.40
North Bay Sec 4	3	3.97	1	2	3.00	4	2	3	3	2.62	2.65	2.85
Vista Del Lago P D	1	4.20	1	1	2.00	1	1	6	3	2.40	2.64	2.40
Ocfs/Bhn Service Facilities	1	5.80	1	1	1.50	1	1	5	2	2.29	2.64	2.40
Hunters Ests	2	5.55	1	2	2.50	4	3	3	1	2.51	2.64	2.84
Palm Lake Manor 1St Add	1	5.41	1	1	3.00	4	2	5	1	2.43	2.64	2.84
Orlando Kissimmee Farms	1	2.88	6	1	1.00	2	2	1	5	2.49	2.63	2.54
Granada Villas Ph 3	5	3.00	1	1	4.50	5	3	2	2	2.69	2.63	2.98
Folando Gardens	2	3.00	1	3	2.50	4	4	3	4	2.81	2.63	2.83
Southfork Sub Ut 2	4	3.00	1	1	4.50	5	2	3	3	2.69	2.63	2.98
Bonaventure 2	3	1.00	5	1	2.50	2	2	1	6	2.69	2.63	2.54
Willis R Mungers Land Sub	1	3.02	1	3	2.00	6	2	5	4	2.63	2.61	3.11
Florida Villas	5	3.00	1	1	4.00	4	3	1	4	2.75	2.61	2.81
Palm Lake Ests 1St Add	2	3.00	1	1	4.00	6	3	3	6	2.88	2.61	3.11
Lake Roper Pointe	2	3.00	1	3	2.00	4	1	5	3	2.50	2.61	2.81

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Royal Ranch Ests	1	3.00	1	1	2.00	4	2	6	4	2.50	2.61	2.81
Gulfstream Shores	5	3.00	1	1	4.00	6	3	1	4	2.75	2.61	3.11
Flemings D H Rev Add To Zellwo	1	3.24	3	1	1.00	1	6	2	4	2.66	2.61	2.37
Bay Lakes At Granada Sec 3	3	1.23	1	1	3.00	4	4	5	3	2.65	2.61	2.81
Laurels Of Mount Dora	2	5.22	1	1	1.00	1	1	4	3	2.28	2.60	2.37
North Bay Sec 1	2	3.64	1	1	3.00	5	3	4	3	2.58	2.59	2.95
Woodlawn Hgts	3	3.00	1	3	1.50	1	6	2	2	2.69	2.59	2.35
Palm Lake	3	6.00	1	1	3.50	4	2	2	1	2.44	2.59	2.80
Lake Down Hollow	1	3.00	1	3	1.50	4	3	5	3	2.56	2.59	2.80
Vistana Fountains Condo Ph 7	2	5.63	1	3	1.00	5	2	2	3	2.45	2.59	2.94
Pine Castle Pines	3	3.00	1	1	3.50	6	5	2	4	2.81	2.59	3.09
Southchase Ph 1A Par 13	1	3.00	6	1	1.50	5	1	1	5	2.44	2.59	2.94
Windermere Pointe At Lake Rop	1	3.00	1	3	1.50	3	1	6	3	2.44	2.59	2.65
Champions Point Of Isleworth	1	3.00	1	1	1.50	3	2	6	4	2.44	2.59	2.65
Sunset Bay	1	3.00	1	1	1.50	5	2	6	4	2.44	2.59	2.94
Johns Landing Ph 1	3	3.96	1	3	3.50	1	1	3	2	2.56	2.58	2.35
Fort Christmas Retreat	1	4.04	1	1	1.00	1	4	3	6	2.63	2.57	2.34
Round Lake	1	3.54	6	1	1.00	1	4	1	1	2.32	2.57	2.34
Prosper Colony Blk T	1	1.91	6	2	1.50	5	2	1	5	2.55	2.57	2.93
Lake Mary Jane Shores	1	1.02	1	1	1.00	1	4	6	6	2.63	2.57	2.34
Zellwood Ranch Ests	1	3.00	6	1	1.00	3	2	2	2	2.25	2.57	2.63
Keenes Pointe Ut 2	2	3.00	1	3	1.00	1	1	5	3	2.38	2.57	2.33
Keene'S Pointe Ut 10	2	3.00	1	3	1.00	1	1	5	3	2.38	2.57	2.33
Tuscany Village Vacation Suites	1	3.00	6	1	1.00	4	1	2	3	2.25	2.57	2.78
Oak Ridge Manor 1St Add	1	1.00	6	1	1.00	5	5	2	3	2.50	2.57	2.93
Rio Pines Ut 2	4	3.00	1	1	3.00	5	3	2	4	2.63	2.57	2.93
Grenadier Woods	4	3.00	1	1	3.00	4	3	2	4	2.63	2.57	2.78
Windward Ests	4	3.00	1	1	5.00	6	3	2	3	2.75	2.57	3.07
Orlando Improvement Co No 1	2	3.00	3	1	3.00	5	4	1	5	2.75	2.57	2.93
East Pine Acres	2	3.00	2	1	3.00	5	3	2	6	2.75	2.57	2.93
Innisbrook	1	3.00	1	1	1.00	1	2	5	6	2.50	2.57	2.33
Estates At Lake Clarice	1	3.00	1	3	1.00	4	1	6	3	2.38	2.57	2.78
Glencoe Sub	3	1.00	1	2	3.00	4	6	3	4	2.88	2.57	2.78
Sherwood Park Ut 1	1	3.00	1	1	3.00	6	6	3	5	2.88	2.57	3.07
Picketts Cove	1	3.00	1	1	1.00	1	2	5	6	2.50	2.57	2.33



Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Smith G T Sub No 7	2	3.00	1	3	3.00	6	6	2	3	2.88	2.57	3.07
Waits W H Sub	3	3.00	1	1	3.00	6	6	2	3	2.75	2.57	3.07
Carolina Terrace	1	3.00	1	4	1.00	4	4	4	3	2.63	2.57	2.78
Lake Hancock Shores	1	3.00	1	1	1.00	5	2	6	4	2.38	2.57	2.93
Whipple Bishop Sub	1	1.00	6	1	1.00	6	4	2	4	2.50	2.57	3.07
Harney Homestead	1	2.59	1	4	2.50	5	5	3	4	2.89	2.56	2.92
Cape Orl Ests Ut 12A	1	2.95	3	4	1.00	1	1	2	6	2.62	2.56	2.33
Hi-Alta Sub	1	3.42	6	1	1.00	5	3	1	2	2.30	2.55	2.91
Keenes Pointe Ut 9	4	5.53	1	1	2.50	4	1	1	3	2.38	2.55	2.76
Sillers Add To Gotha	1	3.00	1	3	2.50	6	4	4	3	2.69	2.54	3.06
Windward Place	4	3.00	1	1	4.50	6	3	2	3	2.69	2.54	3.06
Orlando Improvement Co No 1	2	3.00	2	1	2.50	5	4	2	5	2.69	2.54	2.91
Walker-Dean Sub Ut 2	2	3.00	1	1	2.50	6	5	2	6	2.81	2.54	3.06
East Orange Park	4	3.00	1	1	2.50	6	4	1	5	2.69	2.54	3.06
Arcadia Terrace	3	3.00	1	1	2.50	4	5	2	4	2.69	2.54	2.76
Turnbury Woods	2	5.99	1	2	2.50	4	3	2	1	2.44	2.54	2.76
Willowbrook Cove	5	1.72	1	1	3.50	5	3	2	4	2.65	2.54	2.90
North Bay Sec 1 Rep	3	3.83	1	1	3.00	5	2	3	3	2.48	2.54	2.90
Tildens Grove Ph 1	2	3.20	1	2	1.50	4	1	5	3	2.34	2.54	2.75
Torey Pines Ut 2	3	5.82	1	1	3.00	3	2	2	1	2.35	2.53	2.60
Silver Woods Ph 3	4	3.63	1	1	3.50	4	3	2	2	2.52	2.52	2.74
Palm Cove Ests 6	1	3.00	1	1	2.00	4	1	6	4	2.38	2.52	2.74
Aliso Ridge	4	3.00	1	2	4.00	6	2	2	3	2.63	2.52	3.04
Crescent Lake Ests East	2	3.00	1	1	2.00	2	2	5	3	2.38	2.52	2.44
South Bay Sec 3	2	3.00	1	1	2.00	6	2	5	3	2.38	2.52	3.04
Lakes	2	3.00	1	3	2.00	4	3	4	2	2.50	2.52	2.74
Cottage Hill Sub	2	3.00	1	2	2.00	5	6	2	4	2.75	2.52	2.89
Wagner Nicholas Sub	2	3.00	1	2	2.00	4	6	2	4	2.75	2.52	2.74
Sunday Blk	2	1.00	1	4	2.00	6	6	3	4	2.88	2.52	3.04
Dommerich Hills	3	3.00	1	1	4.00	5	6	1	4	2.88	2.52	2.89
Richland Rep	2	3.00	1	1	2.00	5	4	3	5	2.63	2.52	2.89
Thompson John A Sub	1	1.00	1	5	2.00	6	2	6	3	2.63	2.52	3.04
Sandy Springs	3	3.95	1	1	4.00	5	3	3	1	2.49	2.51	2.88
South Bay Villas	3	2.81	1	1	2.50	6	2	4	3	2.41	2.51	3.03
Saracity Gardens Sub	4	2.31	1	3	4.50	4	2	1	5	2.85	2.51	2.73

Appendix B  
**DRAFT**  
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Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Glenmuir Ut 1	3	3.29	1	1	2.50	5	1	4	3	2.35	2.51	2.88
Twin Oaks Manor	3	2.89	1	1	2.00	6	5	1	6	2.74	2.50	3.02
Lake Buynak Ests	1	3.00	1	1	1.50	4	4	5	3	2.44	2.50	2.72
Lake Cawood Ests Ph 2	2	4.38	1	1	2.00	5	1	4	3	2.30	2.50	2.87
Hideaway Cove First Replat	1	3.00	1	1	1.50	4	1	6	4	2.31	2.50	2.72
Crescent Lake Ests	1	3.00	1	1	1.50	1	4	5	3	2.44	2.50	2.28
Silver Woods Ph 5	4	3.00	1	2	3.50	4	3	2	2	2.56	2.50	2.72
Glencoe Sub Sec 2	3	1.00	1	2	3.50	4	6	3	3	2.81	2.50	2.72
Crystal Lake Oaks	3	3.00	1	1	3.50	4	2	3	4	2.56	2.50	2.72
Bithlo (Blk 1211)	3	1.00	1	4	1.50	1	6	1	6	2.94	2.50	2.28
Bay Run Sec 2	4	3.00	1	1	3.50	5	3	1	5	2.69	2.50	2.87
Landings Of Lake Sawyer	2	3.00	1	1	1.50	5	2	5	3	2.31	2.50	2.87
Hideaway Cove	1	3.00	1	1	1.50	4	1	6	4	2.31	2.50	2.72
Orlaman Park	2	3.00	1	2	1.50	6	6	2	4	2.69	2.50	3.02
Keenes Pointe Ut 3	1	3.00	1	1	1.50	2	1	6	4	2.31	2.50	2.43
Rancho Bay Villa	2	5.84	1	1	2.00	5	3	2	2	2.36	2.49	2.87
Tangerine	3	4.66	1	3	2.50	1	4	1	1	2.52	2.48	2.26
Isleworth 1St Amnd	2	3.52	1	1	1.00	3	1	5	3	2.19	2.48	2.56
Hartzog Sub	1	3.00	1	1	1.00	1	2	6	3	2.25	2.48	2.26
Lake Hill Groves Rep	2	3.00	1	1	3.00	6	6	3	2	2.63	2.48	3.00
Keenes Pointe Ut 2	3	3.00	1	4	1.00	2	1	3	3	2.38	2.48	2.41
Isleworth 2Nd Amnd	1	3.00	1	1	1.00	1	2	6	3	2.25	2.48	2.26
Sphaler Add To Taft	1	3.00	6	1	1.00	6	1	1	4	2.25	2.48	3.00
Woodhaven Rep	1	3.00	1	2	3.00	6	5	3	4	2.75	2.48	3.00
Rockinghorse Ranches Ut 2	1	3.00	1	1	3.00	4	2	4	6	2.63	2.48	2.70
Treasure Oaks	5	3.00	1	1	3.00	5	3	1	3	2.50	2.48	2.85
Sherman Farms	1	3.00	2	1	3.00	6	4	2	6	2.75	2.48	3.00
Isleworth Sixth Amnd	1	3.00	1	1	1.00	1	2	6	3	2.25	2.48	2.26
Isles Of Lake Hancock	1	3.00	1	1	1.00	5	1	6	4	2.25	2.48	2.85
Summerlake Pd Ph 1A	1	3.00	1	1	1.00	6	6	4	3	2.50	2.48	3.00
Estates At Lake Pickett-Phase 2	2	3.00	1	3	1.00	1	1	3	6	2.50	2.48	2.26
Florida Humus Co Indus Area Pl	1	2.97	1	4	1.00	3	5	2	5	2.75	2.47	2.55
Lake Cawood Ests Rep	2	3.21	1	1	2.00	5	1	5	3	2.28	2.47	2.85
Southern Acres Sub	2	5.31	1	1	1.50	3	2	3	2	2.23	2.47	2.55
Sand Lake Hills Sec 9A	2	3.26	1	1	3.50	3	2	5	1	2.35	2.46	2.54

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Marots Add To Tangerine	1	2.88	1	1	1.00	1	5	4	4	2.48	2.46	2.24
Greenleaf	3	3.88	1	3	3.00	6	3	2	1	2.48	2.46	2.98
Klondike	3	1.00	1	3	2.50	5	4	3	4	2.69	2.46	2.83
Palm Lake Ests 2Nd Add	2	3.00	1	1	2.50	6	2	3	6	2.56	2.46	2.98
Worthington Park	2	3.00	1	3	2.50	6	1	4	3	2.44	2.46	2.98
Windermere Hgts 2Nd Sec	2	6.00	1	2	2.50	4	2	2	1	2.31	2.46	2.69
Keenes Pointe Ut 7	3	3.74	1	4	1.50	3	1	2	3	2.40	2.45	2.53
Woodbridge Ph 2	2	2.84	1	1	1.00	4	2	5	3	2.23	2.45	2.68
Sand Lake Hills Sec 11	4	3.58	1	1	4.00	5	3	2	1	2.45	2.45	2.83
Crown Point Woods Ph 2	2	1.31	6	1	1.00	3	2	1	4	2.29	2.45	2.53
Regency Indus Pk Sec 16	1	1.30	6	2	1.00	4	2	1	5	2.41	2.44	2.67
Sand Lake Point Ut 1	2	2.05	2	1	4.00	5	3	3	4	2.63	2.44	2.82
Orlando Improvement Co No 2	2	3.29	1	1	3.00	6	4	2	5	2.66	2.44	2.97
Cox L C Add	3	1.78	1	3	3.00	5	4	2	4	2.72	2.44	2.82
Lake Hiawassa Terrace Rep	3	3.00	1	1	4.00	6	4	2	3	2.63	2.43	2.96
Granada Villas Ph 2	4	3.00	1	1	4.00	6	3	2	2	2.50	2.43	2.96
Lake Down Shores Rep	1	3.00	1	1	2.00	3	3	5	3	2.38	2.43	2.52
Reaves J J Sub	2	1.00	1	4	2.00	6	5	3	4	2.75	2.43	2.96
Pine Acres Sub	3	3.00	1	1	4.00	5	5	1	4	2.75	2.43	2.81
Porter Place	3	3.00	1	3	4.00	5	2	2	3	2.63	2.43	2.81
Trocadero Sub	2	3.00	1	1	2.00	4	4	2	6	2.63	2.43	2.67
Isleworth 5Th Amnd	1	3.00	1	1	2.00	4	1	6	3	2.25	2.43	2.67
Reserve At Lake Butler Sound	1	3.93	1	1	2.00	3	1	5	3	2.24	2.42	2.51
Keenes Pointe Ut 8	2	3.53	1	4	1.50	4	1	3	3	2.38	2.42	2.65
Country Lakes	1	3.00	1	1	1.50	5	2	5	4	2.31	2.41	2.80
Isles Of Windermere	2	3.00	1	1	1.50	4	1	5	3	2.19	2.41	2.65
Lake Davis Reserve	1	3.00	1	1	1.50	3	1	6	3	2.19	2.41	2.50
Weatherstone On Lake Olivia	1	3.00	1	1	1.50	4	1	6	3	2.19	2.41	2.65
Washington Manor	2	3.00	1	1	1.50	4	6	2	4	2.56	2.41	2.65
Bay Run Sec 1	3	3.00	1	1	3.50	6	4	1	5	2.69	2.41	2.94
Deer Island Ph 2	2	3.00	1	1	1.50	1	1	5	3	2.19	2.41	2.20
Conway Homesites	3	3.00	1	1	3.50	6	4	2	3	2.56	2.41	2.94
Ests At Lake Pickett Ph 1	2	2.61	1	3	1.00	1	1	3	6	2.45	2.41	2.20
Sand Lake Point Ut 4	3	1.98	1	3	3.50	4	2	3	3	2.56	2.41	2.64
Hacindas Bonita Del Pinos	1	4.54	1	2	1.00	1	5	1	5	2.57	2.40	2.19

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Bellanova Grande Ests	1	4.90	1	1	1.50	4	1	3	5	2.30	2.40	2.63
Lake Cypress Cove Ph 3	2	3.00	1	1	1.00	4	1	5	3	2.13	2.39	2.63
Keenes Pointe Ut 6 (Sec 30)	4	3.00	1	1	1.00	4	1	3	3	2.13	2.39	2.63
Keenes Pointe Ut 3	3	3.00	1	3	1.00	2	1	3	3	2.25	2.39	2.33
Tuscany Village Vacation Suites	1	3.00	6	1	1.00	4	1	1	3	2.13	2.39	2.63
Johns J Sub	4	1.00	1	4	3.00	5	2	2	4	2.63	2.39	2.78
Sunrise City Rep	1	3.00	1	1	3.00	4	6	2	5	2.75	2.39	2.63
Pine Acres Sub 1St Add	2	3.00	1	1	3.00	5	5	2	4	2.63	2.39	2.78
Southfork Sub Ut 1	2	3.00	1	1	3.00	4	2	4	3	2.38	2.39	2.63
Wood Green	4	3.00	1	1	5.00	6	3	1	3	2.63	2.39	2.93
Innisbrook	2	3.00	1	1	1.00	1	2	3	6	2.38	2.39	2.19
Lake Cypress Cove	1	3.00	1	1	1.00	4	1	6	3	2.13	2.39	2.63
Chaine Du Lac	1	3.00	1	1	1.00	5	1	6	3	2.13	2.39	2.78
Mungers Willis R Land Co	1	1.00	6	1	1.00	6	4	1	4	2.38	2.39	2.93
Isleworth 1St Amnd	2	3.00	1	1	1.00	3	1	5	3	2.13	2.39	2.48
Windermere Hgts 3Rd Sec	2	5.60	1	2	2.50	5	2	2	1	2.26	2.39	2.77
Crown Point Woods	2	1.44	6	1	1.00	3	2	1	3	2.18	2.38	2.47
Windermere Hgts 1St Sec	1	3.44	1	2	3.00	4	4	4	1	2.43	2.38	2.62
Bonynges Ed W 2Nd Add	3	4.18	1	3	2.00	1	2	2	1	2.27	2.38	2.18
Ocb Acres	1	3.42	6	1	1.00	1	1	1	2	2.05	2.38	2.17
Chesterhill Ests Ph 1	2	3.39	1	2	1.00	1	2	3	4	2.30	2.37	2.17
Mtp Enterprises Inc	1	3.00	1	2	2.50	6	4	3	4	2.56	2.37	2.91
Cross State Hwy Hgts	2	3.00	1	1	2.50	4	4	2	5	2.56	2.37	2.61
Lawndale Annex	3	1.96	1	1	2.50	6	5	2	4	2.56	2.36	2.90
Isle Of Pines 3Rd Add	2	1.09	2	1	2.00	1	3	3	6	2.51	2.36	2.16
Torey Pines Ut 1	2	4.96	1	2	2.50	4	2	2	2	2.31	2.36	2.60
Lincklaen Hgts	2	2.03	1	3	2.00	5	3	3	4	2.50	2.35	2.74
Oakwater Prof Park Condo	1	1.00	1	5	2.00	5	2	5	3	2.50	2.35	2.74
Hansel E W Add	2	1.00	1	4	2.00	6	6	2	4	2.75	2.35	2.89
Harney W R Sub	1	1.00	1	6	2.00	6	6	2	4	2.88	2.35	2.89
Isle Of Pines 6Th Add	2	1.00	2	1	2.00	1	3	3	6	2.50	2.35	2.15
Prosper Colony Blk D	1	2.74	5	1	1.00	5	2	1	4	2.22	2.35	2.74
Roberts Island	1	1.08	2	1	1.50	1	1	5	6	2.32	2.34	2.14
Winwood	4	3.07	1	1	3.50	6	3	2	1	2.32	2.34	2.88
Torey Pines Ut 3	2	5.68	1	1	3.00	4	2	2	1	2.21	2.34	2.58



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Rose W W Rep	1	3.00	1	1	1.50	3	6	3	3	2.44	2.33	2.43
Joseph Jebailey Sub	1	3.00	1	1	1.50	3	2	5	3	2.19	2.33	2.43
Sinclair Park	2	3.00	1	1	3.50	4	5	1	5	2.69	2.33	2.57
Arnold H T Plan Of Conway	2	3.00	1	1	3.50	6	5	2	3	2.56	2.33	2.87
Lawndale	3	2.21	1	1	4.50	6	5	1	4	2.71	2.32	2.86
Woodlands Village	3	3.56	1	1	3.00	4	3	2	2	2.32	2.32	2.57
Butler Ridge	2	5.31	1	1	2.00	5	2	2	2	2.16	2.31	2.71
Orange Hill	3	3.00	1	1	3.00	4	3	3	1	2.25	2.30	2.56
Vistana Lakes Ph 4	3	3.00	1	3	1.00	5	2	2	3	2.25	2.30	2.70
Northshore	2	1.00	1	1	3.00	4	2	5	4	2.38	2.30	2.56
Bay Run Sec 3	3	3.00	1	1	3.00	6	3	1	5	2.50	2.30	2.85
Partin Park	1	1.00	6	1	1.00	1	1	1	6	2.25	2.30	2.11
Toronto	1	1.00	6	3	1.00	3	3	1	2	2.25	2.30	2.41
Olympia Hgts Annex	3	1.00	1	1	3.00	6	6	2	4	2.63	2.30	2.85
Isles Of Lake Hancock Ph 2	1	3.00	1	1	1.00	5	1	5	4	2.13	2.30	2.70
M & H Citrus Inc	1	1.00	1	1	1.00	1	1	6	6	2.25	2.30	2.11
Gaines Sub	1	3.34	1	1	1.50	4	6	2	4	2.48	2.30	2.55
Keenes Pointe Ut 7	3	4.04	1	1	2.50	4	1	2	3	2.19	2.29	2.54
Winter Garden Manor	2	3.00	1	2	2.50	6	6	1	3	2.56	2.28	2.83
Willows At Lake Rhea Ph 3	2	3.00	1	1	2.50	4	2	4	2	2.19	2.28	2.54
Isleworth	1	2.87	1	1	1.00	3	2	5	3	2.11	2.28	2.39
South Bay Sec 6	3	1.83	1	1	3.00	5	3	3	3	2.35	2.27	2.68
Magnolia Park Of Windermere	2	4.08	1	1	2.00	5	2	3	2	2.13	2.27	2.68
Palm Lake Manor	1	5.42	1	1	2.50	4	2	3	1	2.11	2.27	2.52
South Bay Sec 4	3	2.26	1	1	3.00	6	2	3	3	2.28	2.26	2.82
Windermere Grande	2	3.00	1	1	2.00	3	1	4	3	2.13	2.26	2.37
Royal Ranch Ests 1St Add Sec 3	1	3.00	1	1	2.00	2	2	4	4	2.25	2.26	2.22
World Gateway Ph 4B	1	3.00	1	3	2.00	6	6	1	4	2.63	2.26	2.81
East Orange Park	2	3.00	1	1	2.00	5	4	1	6	2.50	2.26	2.67
Rio Pines Ut 1	2	3.00	1	1	2.00	5	4	2	4	2.38	2.26	2.67
Woodbridge On The Green	3	3.00	1	2	2.00	5	2	2	3	2.25	2.26	2.67
Park Manor Ests Ut 11 C	2	3.00	1	1	4.00	6	4	1	5	2.63	2.26	2.81
Randolph Plat	1	1.00	1	1	2.00	6	2	6	4	2.25	2.26	2.81
Olympia Hgts	3	1.00	1	1	2.00	6	6	2	4	2.50	2.26	2.81
Isle Of Pines	2	1.03	1	1	1.50	1	4	3	6	2.44	2.25	2.06

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Glenmuir Ut 2	3	3.88	1	1	2.00	4	1	2	3	2.11	2.24	2.50
Keenes Pointe Ut 2	3	3.00	1	3	1.50	2	1	2	3	2.19	2.24	2.20
Lake Down Pointe	1	3.00	1	1	1.50	3	1	5	3	2.06	2.24	2.35
Alafaya Village	1	1.00	6	1	1.50	4	1	1	5	2.19	2.24	2.50
Isle Of Pines 2Nd Add	3	1.00	1	1	1.50	1	2	3	6	2.31	2.24	2.06
Sand Lake Point Ut 2	3	1.00	2	1	3.50	3	2	3	3	2.31	2.24	2.35
Orlando Terrace Sec 1	1	3.03	1	1	5.00	6	4	2	4	2.63	2.22	2.78
Los Terranos	1	2.88	3	1	1.50	5	4	1	4	2.30	2.22	2.63
Ficquette-Thornal Sub No 2	2	3.00	1	3	3.00	6	5	1	2	2.50	2.22	2.78
Tangerine Reserve	2	6.00	1	1	1.00	1	1	2	1	1.88	2.22	2.04
Liki Tiki Village 3 South	1	3.00	1	3	1.00	1	1	4	3	2.13	2.22	2.04
Woodlands Village Rep	3	3.00	1	1	3.00	5	3	2	2	2.25	2.22	2.63
Bithlo (Blk 406-410, 506-509)	2	1.00	1	5	1.00	1	2	2	6	2.50	2.22	2.04
Isleworth 1St Amnd	1	3.00	1	1	1.00	1	1	5	3	2.00	2.22	2.04
Christmas Gardens No 1	1	1.00	5	1	1.00	1	2	1	6	2.25	2.22	2.04
Lake Cypress Cove Ph 2	2	3.00	1	1	1.00	5	1	4	3	2.00	2.22	2.63
Bithlo Ranches First Add Unrec	1	1.00	4	1	1.00	1	4	1	6	2.38	2.22	2.04
Isleworth 3Rd Amnd	1	3.00	1	1	1.00	3	1	5	3	2.00	2.22	2.33
Cypress Isle	2	2.99	1	1	1.00	4	2	3	4	2.12	2.22	2.48
Overstreet Crate Co	1	3.00	1	3	2.50	6	4	2	3	2.44	2.20	2.76
Bentley Park 2Nd Rep	2	1.00	1	1	2.50	4	2	5	3	2.19	2.20	2.46
Orlando Terrace Sec 8	1	3.00	1	2	2.50	6	2	3	4	2.31	2.20	2.76
Woodhaven	1	3.00	1	1	2.50	6	5	2	4	2.44	2.20	2.76
Ridgemoore Ph 3	4	1.59	1	1	4.00	5	2	2	3	2.32	2.19	2.61
Estates At Windermere	2	3.00	1	1	2.00	3	2	3	3	2.13	2.17	2.30
Harbor Isle	2	3.00	1	1	2.00	5	1	4	2	2.00	2.17	2.59
Franklin Estates	2	3.00	1	1	4.00	6	3	1	5	2.50	2.17	2.74
Isles Of Buena Vista Ut 1	1	1.00	6	1	2.00	2	1	1	4	2.13	2.17	2.15
Bithlo (201-205, 301-305)	2	1.00	1	5	2.00	1	3	1	6	2.63	2.17	2.00
Gotha Town Of	1	3.08	1	1	1.50	4	4	3	3	2.20	2.17	2.44
Butler Bay Ut 3	1	3.00	1	1	1.50	3	2	4	3	2.06	2.15	2.28
Royal Ranch Ests 1St Add Sec 2	1	3.00	1	1	1.50	3	2	4	3	2.06	2.15	2.28
Holly Creek	2	3.00	1	1	1.50	6	2	2	5	2.19	2.15	2.72
Bithlo (Blk 201-1222)	1	1.00	1	5	1.50	1	3	2	6	2.56	2.15	1.98
Orange Hgts	1	3.00	1	1	1.50	6	5	2	4	2.31	2.15	2.72

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Hamptons	3	1.45	1	1	3.50	5	2	3	3	2.24	2.14	2.57
Coconut Grove	3	2.94	1	1	3.50	4	2	1	4	2.31	2.14	2.42
Wiles Carl Resub	1	3.00	1	3	1.00	1	2	3	3	2.13	2.13	1.96
Greater Country Ests Ph 1	2	3.00	1	1	1.00	2	2	2	5	2.13	2.13	2.11
Tangerine Woods	1	1.00	4	1	1.00	1	1	3	4	2.00	2.13	1.96
Orange Lake C C Villas Ph 7-A	1	3.00	1	1	1.00	1	4	3	3	2.13	2.13	1.96
Farms	1	3.00	1	3	1.00	5	2	3	3	2.13	2.13	2.56
Victoria Pines Condo Ph 4	4	1.00	1	2	5.00	6	1	1	5	2.50	2.13	2.70
Victoria Pines Condo Ph 3	4	1.00	1	2	5.00	6	1	1	5	2.50	2.13	2.70
Taylor Creek Hgts	2	3.00	1	1	1.00	1	3	1	6	2.25	2.13	1.96
Bithlo (Blk 1-12)	1	1.00	2	5	1.00	1	3	1	6	2.50	2.13	1.96
Gotha Town Of Rep	1	3.00	1	3	3.00	6	6	1	2	2.50	2.13	2.70
Lake Pickett Reserve	2	1.00	1	1	1.00	1	1	4	6	2.13	2.13	1.96
Cape Orl Ests Ut 7A	1	3.00	1	5	1.00	1	1	1	6	2.38	2.13	1.96
Lago De Oro Condo Ph 1	3	2.27	1	1	3.50	6	1	2	4	2.22	2.11	2.69
Elysium Club	2	3.89	1	1	1.00	1	2	1	5	2.11	2.11	1.95
Leeside Ests	2	3.00	1	3	2.50	4	2	2	2	2.19	2.11	2.39
Les Terraces	2	3.00	1	1	2.50	3	2	3	2	2.06	2.11	2.24
Oxford Moor	2	3.00	1	1	2.50	4	1	3	3	2.06	2.11	2.39
Willowwood Ut 2	2	3.98	1	1	2.50	5	3	2	1	2.06	2.10	2.53
Golden Acres Sec B	1	2.93	1	3	4.50	6	3	1	4	2.55	2.10	2.68
Keenes Pointe Ut 1	2	3.16	1	3	1.50	3	1	2	3	2.08	2.09	2.23
Crescent Pointe	2	3.00	1	1	2.00	2	2	3	2	2.00	2.09	2.07
Victoria Pines Condo Ph 5	4	1.00	1	2	4.00	6	1	1	5	2.38	2.09	2.67
Gatlin With Hobbs	1	1.00	1	1	2.00	6	4	4	4	2.25	2.09	2.67
South Bay Sec 2	2	1.67	1	1	3.00	5	3	3	3	2.21	2.07	2.51
Garden Farms Sub	1	3.00	1	1	1.50	6	4	2	4	2.19	2.07	2.65
Victoria Pines Condo Ph 2	4	1.00	1	2	3.50	6	1	1	5	2.31	2.07	2.65
Vistana Fountains Condo Ph 6	1	3.53	1	3	1.00	6	2	2	3	2.07	2.05	2.63
Bellaria	2	3.02	1	1	1.00	4	1	3	3	1.88	2.05	2.34
Holly Street Sub	3	3.00	1	1	1.00	3	1	1	5	2.00	2.04	2.19
Park Avenue West	1	3.00	1	1	1.00	4	1	4	3	1.88	2.04	2.33
Keenes Pointe Ut 6 (Sec 31)	3	3.00	1	1	1.00	3	1	2	3	1.88	2.04	2.19
Keenes Pointe Ut 3	2	3.00	1	1	1.00	2	1	3	3	1.88	2.04	2.04
East Orlando Ests Sec 2 Unrec	2	1.00	1	4	1.00	2	3	1	6	2.38	2.04	2.04

Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Christmas Park	2	1.98	1	1	1.00	1	4	1	6	2.25	2.04	1.89
Chickasaw Farms	1	3.00	1	1	2.50	4	4	1	5	2.31	2.02	2.31
Fox Division	2	3.00	1	1	2.50	5	2	1	5	2.19	2.02	2.46
Gotha Town Of Rep	1	3.00	1	3	2.50	5	3	2	2	2.19	2.02	2.46
Quadrangle Tract 7	1	3.00	1	1	2.50	6	1	2	6	2.19	2.02	2.61
Tildens Grove Ph 2	2	3.11	1	1	2.00	4	1	3	2	1.89	2.02	2.31
Orlando Improvement Co No 3	1	3.07	1	1	4.00	6	3	1	5	2.38	2.01	2.60
Royal Ranch Ests 1St Add Sec 1	1	3.00	1	1	2.00	4	2	3	3	2.00	2.00	2.30
Willows At Lake Rhea Ph 2	2	3.00	1	1	2.00	3	2	2	3	2.00	2.00	2.15
Windermere Downs Ph 3	2	3.00	1	3	2.00	4	1	2	2	2.00	2.00	2.30
Lake Mary Jane Ests Rep	2	1.00	1	1	2.00	1	1	3	6	2.13	2.00	1.85
Golden Acres Sec B	1	1.00	1	1	4.00	6	4	3	4	2.38	2.00	2.59
Isleworth 4Th Amnd	1	3.00	1	1	2.00	4	1	4	2	1.88	2.00	2.30
Reserve At Lake Butler Sound U	2	3.46	1	1	2.00	2	1	2	3	1.93	1.99	1.99
Lake Avalon Groves Rep	1	4.68	1	1	1.00	4	2	2	2	1.83	1.99	2.29
Greater Country Estates Ph III	2	3.00	1	1	1.50	3	1	2	4	1.94	1.98	2.13
Martins Preserve	2	3.00	1	1	1.50	1	1	3	2	1.81	1.98	1.83
Elysium	2	3.00	1	1	1.50	1	2	1	5	2.06	1.98	1.83
Lake Mary Jane Ests Rep	1	1.00	1	1	1.50	1	1	4	6	2.06	1.98	1.83
John Young Commerce Ctr	1	3.00	1	2	1.50	6	2	2	4	2.06	1.98	2.57
Hudson J A Add To Victoria	1	3.00	1	1	1.00	1	5	1	4	2.13	1.96	1.81
Country Trail Ests	1	3.00	1	3	1.00	5	2	2	3	2.00	1.96	2.41
Keenes Pointe Ut 5	3	3.38	1	1	1.50	2	1	1	3	1.86	1.96	1.96
Bithlo (Blk 510)	2	1.00	1	1	1.00	1	1	3	6	2.00	1.96	1.81
Alafaya Business Ctr Condo	4	1.00	1	1	3.00	6	1	1	5	2.13	1.96	2.56
Bithlo (Blk 101-106)	1	1.00	1	4	1.00	1	4	1	6	2.38	1.96	1.81
East Orlando Ests Sec 2 Unrec	1	1.00	1	4	1.00	1	4	1	6	2.38	1.96	1.81
Bithlo (Blk 13-37)	1	1.00	2	1	1.00	1	5	1	6	2.25	1.96	1.81
Cape Orl Ests Ut 9A	1	3.00	1	3	1.00	1	1	1	6	2.13	1.96	1.81
Cape Orl Ests Ut 3A	1	2.96	1	4	1.00	1	1	1	5	2.12	1.95	1.81
Cape Orl Ests Ut 3A	1	2.92	1	4	1.00	1	1	1	5	2.12	1.94	1.80
Live Oak Ests Ph 1	1	2.33	1	1	1.00	1	2	2	6	2.04	1.93	1.79
Isle Of Pines 1St Add	2	1.16	1	1	1.50	1	2	2	6	2.08	1.92	1.78
Willows At Lake Rhea Ph 1	2	3.00	1	1	2.00	4	2	2	2	1.88	1.91	2.22
Bithlo Ranches Unrec Plat	2	1.00	1	1	2.00	1	4	1	6	2.25	1.91	1.78



Appendix B  
**DRAFT**  
Pollution Potential Prioritization Schemes (sorted by the Weighted Vulnerability Score)

Subdivision Name	Septic Density Score	OCAVA Score	Impaired Score	Housing Density Score	Population Density Score	WW Infra-structure Score	Year Built Score	Distance to Waterbody Score	Elevation Score	Unweighted Vulnerability Score	Weighted Vulnerability Score	Weighted Connectivity Score
Lake Avalon Groves 2Nd Replat	1	4.72	1	1	1.00	1	2	1	3	1.84	1.91	1.77
Christmas Park 1St Add	2	1.39	1	1	2.00	1	3	1	6	2.17	1.89	1.76
Harbor Isle Ut 2	2	3.00	1	1	1.50	4	1	3	1	1.69	1.89	2.20
Victoria Pines Condo Ph 1	3	1.00	1	2	3.50	6	1	1	5	2.19	1.89	2.50
Legacy Place	2	2.65	1	1	2.50	6	1	1	5	2.02	1.87	2.48
Chaine Du Lac	1	3.00	1	1	1.00	3	1	3	3	1.75	1.87	2.04
Mejo Oscar Property	1	3.00	1	1	3.00	5	1	2	4	2.00	1.87	2.33
Orlando Improvement Co No 2	1	3.00	1	1	3.00	6	2	1	5	2.13	1.87	2.48
Christmas Hgts	1	3.00	1	1	1.00	1	2	1	6	2.00	1.87	1.74
Bonynges Add	1	6.00	1	1	1.00	1	1	1	1	1.63	1.87	1.74
Cape Orl Ests Ut 8A	1	3.00	1	2	1.00	1	1	1	6	2.00	1.87	1.74
Cape Orl Ests Ut 4A	1	3.00	1	3	1.00	1	1	1	5	2.00	1.87	1.74
Lake Down Cove	2	3.00	1	1	2.50	3	2	2	1	1.81	1.85	2.02
Rolling Hills Of Avalon Annex	1	3.86	1	1	1.00	2	4	1	2	1.86	1.84	1.87
Overstreet Crate Co	1	2.28	1	2	1.00	6	5	1	3	2.03	1.83	2.45
Gruchole Magdalene Sub	2	2.33	1	1	4.50	6	1	1	4	2.10	1.82	2.44
Chesterhill Ests Ph 4	1	3.63	1	1	1.00	1	1	2	3	1.70	1.80	1.69
East Orlando Ests Sec 1 Unrec	2	1.00	1	1	1.50	1	3	1	6	2.06	1.80	1.69
Lake Avalon Groves Rep	1	4.61	1	1	1.00	2	2	1	2	1.70	1.80	1.83
Cypress Point	1	1.58	1	2	3.00	6	4	2	2	2.07	1.80	2.42
Mandalay Sub	2	1.28	1	3	2.00	2	1	1	5	2.04	1.79	1.82
Dora Ests Ph Two 17-18 Rep	1	3.00	1	1	1.00	1	1	2	4	1.75	1.78	1.67
Dora Ests Ph 2	1	3.00	1	1	1.00	1	1	2	4	1.75	1.78	1.67
Overstreet Republic Drive Prop	1	3.00	1	1	1.00	6	2	2	3	1.75	1.78	2.41
Chickasaw Trail Ests	1	3.00	1	1	3.00	6	1	1	5	2.00	1.78	2.41
East Orlando Ests Sec A	2	1.00	1	3	1.00	1	2	1	5	2.00	1.78	1.67
Meres	1	3.00	1	1	1.00	1	2	1	5	1.88	1.78	1.67
Cape Orl Ests Ut 2A	1	3.00	1	2	1.00	1	1	1	5	1.88	1.78	1.67
Christmas Gardens No 2	1	2.39	1	1	1.00	1	2	1	6	1.92	1.76	1.65
Courtleigh Park	2	3.52	1	1	2.00	5	2	1	1	1.69	1.74	2.22
Chickasaw Ranch Ests	1	3.00	1	1	2.00	4	1	1	5	1.88	1.74	2.07
Balmoral	2	3.12	1	1	3.00	6	2	1	1	1.76	1.72	2.35
Live Oak Ests Ph 2	1	1.05	1	1	1.00	1	2	2	6	1.88	1.70	1.60
Windsor Hill	2	3.03	1	1	3.00	4	2	1	1	1.75	1.70	2.04
Live Oaks Ests Ph 4	1	3.00	1	1	1.00	1	1	1	5	1.75	1.70	1.59