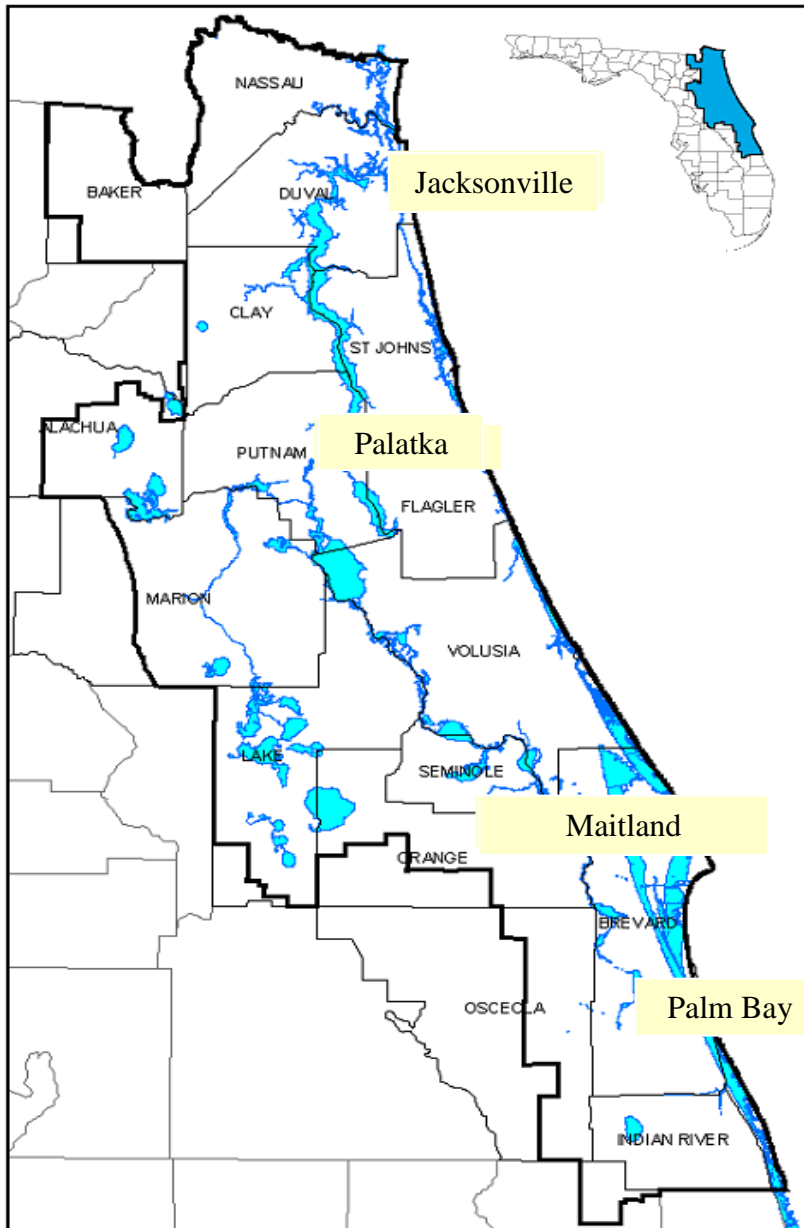




St. Johns River Water Management District Permit Application For Consumptive Uses of Water



SJRMWD Headquarters Palatka Service Center

P.O. Box 1429
Palatka, FL 32179-1429
(386) 329-4500

Jacksonville Service Center

7775 Baymeadows Way, Suite 102
Jacksonville, FL 32717
(904) 730-6270

Maitland Service Center Service Center

601 South Lake Destiny Rd, Ste. 200
Maitland, FL 32751
(407) 659-4800

Palm Bay Service Center

525 Community College Parkway
Palm Bay, FL 32909
(321) 984-4940

www.floridaswater.com

INTRODUCTION

Unless expressly exempted by law or District regulation, a consumptive use permit is required for any use, diversion or withdrawal of surface or groundwater which meets any of the following criteria:

1. Average annual daily withdrawal exceeding one hundred thousand (100,000) gallons average per day on an annual basis.
2. Withdrawal equipment or other facility which have a capacity of more than one million (1,000,000) gallons per day.
3. Withdrawals from a combination of wells or of other facilities, having a combined capacity of more than one million (1,000,000) gallons per day.
4. Withdrawals from a well in which the outside diameter of the largest permanent water bearing casing is six inches or greater. For purposes of this paragraph, the diameter of the well at ground surface will be presumed to be the diameter of the well for the entire length unless the well owner or well contractor can demonstrate that the well has a smaller diameter water bearing casing below ground surface.
5. Within the Delineated Area as set forth in 6.7.1.6, Applicant's Handbook: Consumptive Uses of Water, withdrawals from a well in which the inside diameter of the largest permanent water bearing casing is five inches or greater. For purposes of this paragraph, the diameter of the well at ground surface will be presumed to be the diameter of the well for the entire length unless the well owner or well contractor can demonstrate that the well has a smaller diameter water bearing casing below ground surface.
6. Within the Delineated Area as set forth in 6.7.1.6, Applicant's Handbook: Consumptive Uses of Water, for freeze protection uses of water on agricultural and nursery property greater than 5 acres in size.
7. Any secondary use, as defined in paragraph 2.0(w) of the Applicant's Handbook: Consumptive Uses of Water, which exceeds 100,000 gallons per day estimated on an average annual basis.

PROCESSING

Processing of permit applications is in accordance with provisions of the Water Resources Act, Chapter 373, Florida Statutes, Chapter 120, Florida Statutes, Chapters 28-106, 28-107, 40C-1, 40C-2 and 40C-20, Florida Administrative Code and the Applicant's Handbook: Consumptive Uses of Water

The District will notify an applicant if an application is incomplete within 30 days of receipt and will inform the applicant of what additional information is required to make the application complete. For those permits processed as individual permits, the District will issue or deny permits within 90 days of receipt of the completed application. Those permits processed as general permits will be issued within 30 days of receipt of a completed application.

Failure to obtain a permit prior to undertaking a regulated activity is a violation of District requirements, even if the project would receive a favorable review in a standard permitting process. The District may initiate administrative, civil or criminal actions against violators, and may require restorative steps.

PERMIT APPLICATION FOR CONSUMPTIVE USES OF WATER



Permit Type: Individual CUP <input type="checkbox"/> Secondary Use <input type="checkbox"/>
Standard General CUP <input type="checkbox"/>
Application is for: New use <input type="checkbox"/> Renewal <input type="checkbox"/>
Modification of Existing Permit <input type="checkbox"/>

APPLICANT INFORMATION

ORGANIZATION NAME (please print all responses)

LAST NAME (please print all responses)

FIRST NAME

STREET NO.

STREET NAME

CITY

STATE

ZIP

PHONE

Same as above

AGENT OR CONSULTANT

ORGANIZATION NAME (please print all responses)

LAST NAME (please print all responses)

FIRST NAME

STREET NO.

STREET NAME

CITY

STATE

ZIP

PHONE

Same as applicant

OWNER INFORMATION

ORGANIZATION NAME (please print all responses)

LAST NAME (please print all responses)

FIRST NAME

STREET NO.

STREET NAME

CITY

STATE

ZIP

PHONE

APPLICANT'S NAME (Please print)

APPLICANT'S SIGNATURE

DATE

If a person other than applicant has completed this form, that person certifies by his signature below that he is acting as an authorized agent of the applicant and his signature will be certification that he is in fact the authorized agent.

AGENT'S NAME (Please print)

AGENT'S SIGNATURE

DATE

SITE INFORMATION

COUNTY _____ ACRES OWNED _____
 SECTION _____ TOWNSHIP _____ RANGE _____
 PROJ. NAME _____ PROJECT ACRES _____
 COUNTY PARCEL NO. _____

USE TYPES

MARK ALL THAT APPLY

- | | | | |
|-------------------|--------------------------|-------------------------------------|--------------------------|
| AGRICULTURAL | <input type="checkbox"/> | COMMERCIAL/INDUSTRIAL/INSTITUTIONAL | <input type="checkbox"/> |
| ENVIRONMENTAL | <input type="checkbox"/> | LANDSCAPE/RECREATION/AESTHETIC | <input type="checkbox"/> |
| MINING/DEWATERING | <input type="checkbox"/> | PUBLIC SUPPLY | <input type="checkbox"/> |
| OTHER | <input type="checkbox"/> | | |

Previous Permit No. _____

AMOUNT REQUESTED	INCHES PER YEAR _____ MILLION GALLONS PER YEAR _____ MILLION GALLONS PER DAY _____ DATE OF START OF USE _____
-------------------------	--

REQUESTED PERMIT DURATION	20 YEARS <input type="checkbox"/> Other (Specify Years): _____
----------------------------------	---

WATER USE MONITORING

All permittees are required to measure their water usage on a continuous basis. All users must report their use using form EN-50 to the District at the intervals specified in their permit. If used, meters must be 95% accurate, verifiable and installed according to manufacturers' specifications. Meters or alternative methods utilized by the water supplier to charge for the water may suffice as a water use monitoring tool.

Alternative methods must be 90% accurate and verifiable. All alternative methods must be approved in advance and in writing by District staff.

Same as applicant

COMPLIANCE ENTITY

Consumptive Use Permits require the periodic submittal of data to the District. Please provide the name, address and phone number of the person who will be responsible for ensuring that the permitted conditions are met. Submittal of this information does not relieve the permit holder from the responsibility for compliance.

Name: _____

Address: _____

Phone Number: (_____) - _____

SECONDARY TYPE USE

Please supply information regarding the source(s) of water for your activities.

1. The name of the supplier of water. _____
2. Is this source of water potable or non-potable? (circle one)
3. What percentage of your total water use is from this supplier? _____
4. If 100% of your water is not provided from the supplier, please indicate what uses are self supplied.
5. The applicant must also complete other packages which address the requested consumptive use identified in question 4.

Description of Use Types: Each permit shall be identified with one or more of the following use types:

- (a) Agricultural – The use of water associated with the production and freeze protection of crops, nursery products, sod, and pasture, as well as the cultivation of animals and plants associated with farming and aquacultural activities.
- (b) Commercial/Industrial/Institutional – The use of water associated with the production of goods or provision of services by a commercial, industrial, or institutional establishment.
- (c) Environmental – The use of water to avoid or mitigate environmental harm. Examples include enhancing, restoring, or creating wetlands or other surface waters, or the use of water for groundwater remediation.
- (d) Landscape/Recreation/Aesthetic – The use of water for landscape irrigation; the use of water associated with the creation, maintenance, and operation of recreational facilities such as golf courses, water-based recreational areas, and athletic fields; or the use of water for ornamental or decorative purposes, such as fountains and waterfalls.
- (e) Mining/Dewatering – The use of water associated with the extraction of subsurface materials or to control surface or groundwater when performing activities such as construction or excavation.
- (f) Public Supply – The use of water provided by any municipality, county, regional water supply authority, special district, public or privately owned water utility, or multijurisdictional water supply authority for human consumption and other purposes.
- (g) Other – The use of water for a purpose other than as described in subsections (a)-(f).

SOURCES OF WATER (Summary Data Sheet)

Please supply information regarding the source(s) of water for your activities. Include information regarding **all** wells/pumps on the property.

**Table 1.
SUMMARY OF GROUNDWATER SOURCES**

Well or Pump Number	Wellfield or Facility Name	Casing Dia. (in.)	Casing Depth (ft)	Total Depth (ft)	Operation Hrs/wk	Pump Capacity (in gpm)	Date Drilled	Existing or Proposed (date)	Type of Use*

*See use descriptions on page 4. If more than one use type, show predominate use

**Table 2.
SUMMARY OF SURFACE WATER SOURCES**

Pump Number	Pump Capacity (gpm)	Operation Hrs/wk	Acreage of Surface Water Body	Name of Source	Status (date if proposed)	Type of Use

PROPERTY CONTROL AND LOCATION

I. PROPERTY CONTROL

1. Property Ownership - Provide a copy of the executed deed indicating the current owner of the property which is the subject of this application.
2. Leased Property - Provide a copy of the current lease, or a letter signed by the property owner describing the lease arrangement and the duration of the lease.

II. LOCATION MAPS

Provide a recent map (preferably a USGS topographic quadrangle, a map from a county plat directory, or survey map) indicating the following:

- (a) property boundaries (include approximate lengths of boundaries in feet);
(public supply water uses please show service areas)
- (b) All existing and proposed withdrawal point locations. Indicate well number and casing size for groundwater withdrawals, and pump number and maximum pump capacity for surface water withdrawals;
- (c) a north arrow;
- (d) a scale designation - all maps should have a minimum scale of 1 inch = 2,000 feet; and
- (e) labeled landmarks such as roads and political boundaries.

Please provide identification numbers and date permitted if you obtained or are in the process of obtaining any of the following permits for this project

Environmental Resource Permit (ERP)	_____
EPA Ordered Environmental Impact Statements	_____
Agricultural Discharge	_____
FDEP Wastewater Site Identification No.	_____
FDEP Public Water Supply (PWS) Identification No.	_____

III. ADJACENT PROPERTY OWNERS

(not applicable to Secondary Users Permits)

Provide a complete list of adjacent property owners and mailing address as prescribed in Tables #3 and 4. Attach additional sheets as needed.

Name	Address	City	State	Zip Code

USE OF LOWEST ACCEPTABLE QUALITY WATER SOURCE

- 1. Are you proposing to use the most appropriate (lowest quality) source of water?
- 2. Is reclaimed water readily available as a source of water?

WATER CONSERVATION PLAN

A water conservation plan must be submitted with this application. Please refer to Section 12.0 and Appendix I, Applicant's Handbook, Consumptive Uses of Water, for information on how to meet the District's requirements regarding water conservation. Available water conservation measures must be implemented pursuant to requirements in sections 10.2(e) and 12.0, A.H. These measures must be explained as part of this application.

Table 3 - Groundwater Withdrawals

Withdrawal Amount	Property Owners to be Listed
Less than 1,000,000 gallons maximum per day -and- Less than 100,000 gallons per day annual average	None required
Max day is between 1 and 5 million gallons - or- Average day is between 100,000 and 500,000 gallons	All property owners within 600 feet of well or 100 feet of property boundary.
Max day is between 5 and 10 million gallons - or- Average day between 500,000 and 1,000,000 gallons	All property owners within 1,320 feet of each well or 200 feet of the property boundary.
Max day exceeding 10 million gallons -or- Average day exceeds 1,000,000 gallons	All property owners within 2,640 feet of the well, or 400 feet of the property boundary.

Table 4 - Surface Water Withdrawals

Withdrawal Amount	Property Owners to be Listed
Surface area of the withdrawal lake is less than 80 acres	All riparian land owners on lake and those up to 600 feet downstream if the lake has an outlet
Surface area of the withdrawal lake is greater than 80 acres	All riparian land owners up to 600 feet from the withdrawal point
Withdrawals from a stream and average daily pumpage is less than 5 million gallons	All riparian land owners up to 600 feet upstream and 1,320 feet downstream from the withdrawal point
Withdrawals from a stream and average daily pumpage is greater than 5 million gallons	All riparian land owners up to 1,320 feet upstream and 2,640 downstream from the withdrawal point

SECTION III

Applicant Checklist

Please verify that the following information has been provided as part of this application package:

	<u>Attached</u>
1. Appropriate Fee	\$ _____
2. Signature of Applicant and/or Agent	_____
3. Authorization from Owner for Agent (if Agent is listed on application)	_____
4. Copy of Executed Deed or Lease Agreement	_____
5. Location Map	_____
6. List of adjacent land owners	_____
7. Completed Water Use Type Package*	_____
8. Water Conservation Plan	_____

*NOTE: Applications for Public Supply, Commercial/Industrial/Institutional, Agricultural, Mining/Dewatering, and Landscape/Recreation/Aesthetic water uses must also include the supplemental water use package specific to each use type. Those applying for a **Secondary Use Permit** must complete and submit each of the supplemental water use packages that apply to their use type.



PUBLIC SUPPLY USE TYPE

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

I. YEAR-ROUND PUBLIC SUPPLY

A. POTABLE WATER SUPPLY

1. Please submit a map (minimum 1:2000 scale or larger) showing the current and proposed service area.
2. Please submit any of the following that apply:
 - a) Copy of the Public Service Commission (PSC) certification describing service area;
 - b) Copy of local government franchise agreement; or
 - c) Documentation that utility is not regulated by PSC or local government.
3. Complete Table 1 - Historic Water Use, and Table 2 - Projected Water Use as a basis for the requested allocations. In addition:
 - (a) Provide the past 12 months of monitored water use data (MOR's if available) and calculate historic average daily and maximum daily per capita use;
 - (b) Explain the method of projecting population growth (historic projection preferred): _____

Attach documentation for method of determining growth projections.

B. WASTEWATER DISPOSAL

1. Specify the present and projected amounts of wastewater:

	PRESENT (mgd)*	PROJECTED (5 YEARS)	PROJECTED (10 YEARS)	PROJECTED (15 YEARS)	PROJECTED (20 YEARS)
Average daily disposal*					
Plant capacity					

*mgd = million gallons per day
 †Identify WWTP if more than one

2. Specify the percentage for each type of disposal (total 100%)

DISPOSAL TYPE	PRESENT %	PROJECTED % (5 YEARS)	PROJECTED % (10 YEARS)	PROJECTED % (15 YEARS)	PROJECTED % (20 YEARS)
Reuse					
Offsite Discharge					
Individual Septic Tanks					
On-site Percolation Ponds					
On-site Spray Fields					
Other					

C. REUSE OF RECLAIMED WATER

1. Describe the method of reuse by completing the table below:

Check here if no reuse projected at this time

TYPE OF SITE (golf, landscape, etc)	FACILITY NAME	ACREAGE	AVERAGE USE (mgd)	PROJECTED AVE. USE (mgd)

2. Please provide a map (minimum 1:2000 scale) showing the location of the sites listed in the table above as well as the location of all major existing reuse lines and those proposed for the next 15 years.

3. If wastewater is treated on-site specify level of treatment:

primary secondary secondary with disinfection

D. ESSENTIAL USE

Are you requesting the use of any of the identified sources for fire protection?

YES NO

If yes, please list the wells/pumps that will be used.

TABLE 1
HISTORIC WATER USE

Last 5 years	Past Population	Number of Units	Per Capita Usage (gpcd)	Household Avg. day (mgal)	Household Max. Day (mgal)	Commercial/Industrial Avg. day (mgal)	Commercial/Industrial Max. day (mgal)	Irrigation (urban landscape or common areas) (mgal)(ave. day)	Irrigation (urban landscape or common areas) (mgal) (max. day)	Water Utility (mgal)	Unaccounted for water (mgals)	Total Annual Avg. day (mgal)	Total Annual Max day (mgal)
20													
20													
20													
20													
20													
20													
20													

Table Definitions

- Household Use: Amount sold or given to domestic customers. Typically includes 5/8 and 3/4 inch metered accounts. Includes private lawn irrigation.
- Population: Estimated number of residents served.
- # of Units: Number of residential units served.
- Per Capita Use: Use per person per household; Average household use (column 5) divided by population (column 2)
- Commercial/Industrial Use: Amount sold to commercial customers. Typically includes meters larger than 1 inch. Include bulk customers in this use.
- Irrigation Use: Amount used for common area irrigation owned or maintained by a public entity. This does not include areas privately owned areas or amounts previously accounted for under household use.
- Water Utility: Misc. monitored use (e.g., fire protection, sewer flushing, construction use, & maint. features)
- Unaccounted Water: Unaccounted for water use. Obtained from an audit of system.
- Total Use: Sum of all uses - household + comm/ind. + irrigation + water util. = MOR's for year

TABLE 2
PROJECTED WATER USE

Next 20 years	Past Population	Number of Units	Per Capita Usage (gpcd)	Household Avg. day (mgal)	Household Max. Day (mgal)	Commercial/ Industrial Avg. day (mgal)	Commercial/ Industrial Max. day (mgal)	Irrigation (urban landscape or common areas (mgal)(ave. day)	Irrigation (urban landscape or common areas (mgal) (max. day)	Water Utility (mgal)	Unaccounted for water (mgals)	Total Annual Avg. day (mgal)	Total Annual Max day (mgal)

*see table definitions from Table 1.

II. SEASONAL PUBLIC SUPPLY
(Mobile Home Parks, RV Parks, Campgrounds, etc.)

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

1. Number of acres owned: _____
2. Total number of lots/spaces: _____
3. Average number of residents over the past 12 months: _____
4. What is the maximum number of residents served?: _____
5. What is the minimum number of residents served?: _____
6. Does each lot/space have an individual water meter?: _____
7. Does this facility have any of the following water uses: (yes or no)

- | | |
|---------------------------------------|-------------------------------|
| _____ a) Laundry | _____ d) Bath house/restrooms |
| _____ b) Club house with restrooms | _____ e) Swimming pool |
| _____ c) Common areas with irrigation | _____ f) Other uses, please |
| # of Acres _____ | specify _____ |

8. Attach copies of monthly water use reports for the last 12 months. Using the past months of water use, please calculate:

- a) Average Daily water use over the past 12 months: _____ mgd*
- b) Maximum Daily water use over the past 12 months: _____ mgd*
- c) TOTAL water used over the past 12 months: _____ mg

9. WASTEWATER DISPOSAL - specify the percentage for each, total 100%:

DISPOSAL TYPE	PRESENT %	PROJECTED % (5 YEARS)	PROJECTED % (10 YEARS)	PROJECTED % (15 YEARS)	PROJECTED % (20 YEARS)
Reuse					
Offsite Discharge					
Individual Septic Tanks					
On-site Percolation Ponds					
On-site Spray Fields					
Other					

10. If wastewater is treated on-site, specify level of treatment:

primary secondary secondary with disinfection

11. Description of lots.

- a) Average lot size: _____ sq. ft.
- b) Average home size: _____ sq. ft.
- c) Square footage of drive and walkways: _____ sq. ft.

12. WASTEWATER DISPOSAL

a) Specify the present and projected amounts of wastewater:

	PRESENT (mgd)*	PROJECTED (5 YEARS)	PROJECTED (10 YEARS)	PROJECTED (15 YEARS)	PROJECTED (20 YEARS)
Average daily disposal					
Plant capacity					

*mgd = million gallons per day



COMMERCIAL/INDUSTRIAL/INSTITUTIONAL USE TYPE

(Submit 2 copies of application, supplemental information drawings, calculations, etc.)

I. PROJECT DESCRIPTION

1. Type of business and/or operation, please describe:

2 Requested Water Use:

	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 Years
Average Daily Use					
Maximum Daily Use					
Average Off-Site Discharge					

*mgd - million gallons per day

3. Provide a graph (month vs. mgd) or table summarizing monthly water use for the previous 3 years.
4. Provide a flow chart (schematic diagram) depicting the flow of all sources of water, use and eventual discharge.
5. Please provide a table projecting expected growth over the next 15 years. What is the reason for the expected growth?

II. WASTEWATER DISPOSAL

Describe in detail the flow of wastewater from the plant to its ultimate disposal. Also, provide the applicable Florida Department of Environmental Protection, Environmental Protection Agency permit numbers (FDEP, EPA) issued for discharge to surface waters. Attach daily flow amounts for effluent discharged to surface waters for the last 12 months. Include this information in the above requested schematic diagram.

III. REUSE

1. Provide water quality data for effluent discharged from this facility during the last 12 months.
2. Provide the level of water quality required for each individual manufacturing and cooling process. Provide supporting documentation as to water quality and quantity limitation of reuse for each component of the process.



AGRICULTURAL USE TYPE

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)
(Please submit a separate form for each non-contiguous parcel)

Field/Block/Parcel Name: _____

- I. Does an approved NRCS conservation plan exist for the operation included in this application? YES NO

If YES, please include a copy of those sections addressing water use and water conservation. Date of Plan: _____

Please estimate what percentage of the plan has been implemented: _____

- II. Is this farming operation dewatered to maintain proper soil moisture?
 YES NO

If YES, please provide a record of historic use for this purpose.

- III. Please complete the following sections which apply to your usage:

- A. CITRUS & BLUEBERRIES
- B. VEGETABLE AND OTHER CROPS
- C. PASTURE IRRIGATION
- D. SOD
- E. LIVESTOCK (including Dairy)
- F. AQUACULTURE
- G. NURSERY/FERN USES

A. CITRUS and BLUEBERRY WATER USE

1. Use Type: Citrus Blueberries

2. Complete the following charts:

EXISTING

IRRIGATION METHOD	IRRIGATED ACRES	APPLICATION RATE (in/yr)	WELL NUMBER	PUMP* NUMBER
Drip				
Microjet				
Overhead Sprinkler				
Other				

*indicate ground or surface water

PROPOSED

IRRIGATION METHOD	IRRIGATED ACRES	APPLICATION RATE (in/yr)	WELL NUMBER	PUMP* NUMBER
Drip				
Microjet				
Overhead Sprinkler				
(Other)				

*indicate ground or surface water

3. Indicate which of the following months the plants are typically irrigated:

- Year round
- January February March April
- May June July August
- September October November December

4. Please submit annual water use records for your irrigation and freeze protection for the previous 3 years.

5. What is the age and number of plants (trees/bushes):

Number of Trees/Bushes	Age of Plants*	Acreage	Tree Spacing

* Age groups: < 1 yr; 1 to 5 yrs; > 5 years

6. Freeze Protection:

Please list your freeze protection sources and the acreage protected:

		Year
Pump/well _____	Acres _____	_____
Pump/well _____	Acres _____	_____
Pump/well _____	Acres _____	_____
Pump/well _____	Acres _____	_____

7. If any irrigation water is available from on-site reservoirs, please estimate the average volume of water available: _____ (units)

B. VEGETABLES AND OTHER CROPS WATER USE

1. Complete the following charts:

EXISTING

Crop Type	Planting Date (mo/day)	Harvest Date (mo/day)	Irrigation Method	Average System Pressure	Acres Irrigated	Amount Used (inch/season)	Amount Used (mgal/yr)*	Well or Pump Number

PROPOSED

Crop Type	Planting Date (mo/day)	Harvest Date (mo/day)	Irrigation Method	Average System Pressure	Acres Irrigated	Amount Used (inch/season)	Amount Used (mgal/yr)*	Well or Pump Number

*mgal/yr = million gallons per year

2. Crop Rotation: If crops are rotated, briefly describe how the various crops are rotated from season to season and year to year (e.g. tomatoes are grown in the spring of every year on 100 acres, cucumber in the fall on 70 acres, and watermelons are grown every other year on 10 acres):

3. Surface Runoff: (flood and seepage irrigation only)

Generally describe any surface runoff of irrigation water including amounts, receiving water body and conditions when runoff occurs:

- Applicants requesting water for crop washing must fill out the Commercial/Industrial Type Uses form.

C. PASTURE IRRIGATION

- How many acres of pasture are or will be irrigated: present ____ proposed ____
- Please estimate the number of times that the pasture was irrigated during the past 12 months:

- Do flowing wells supply irrigation to your pastures? YES NO
- Do you harvest pasture grasses? YES NO
- Water Use Amount Information:

	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 years
Average Daily Use					
Maximum Daily Use					

*mgd - million gallons per day

- Please submit annual water use records for your irrigation for the previous 3 years.

D. SOD WATER USE

- How many acres of sod are farmed?
Existing _____ Proposed _____ acres
- At what depth below land surface do you maintain the water table: ____ feet below land surface.
- Please submit annual water use records for your irrigation for the previous 3 years.
- Water Use Amount Information:

	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 years
Average Daily Use					
Maximum Daily Use					

*mgd - million gallons per day

E. LIVESTOCK WATER USE (including dairy)

Type of Livestock	Average # of Stock/Year		GPD/ animal
	Existing	Proposed	

LIVESTOCK WATER NEEDS

<u>Animal</u>	<u>Use Per Animal</u> (gpd)
Beef Cattle	12
Dairy Cattle	150
Horses	12
Chickens	.10

gpd = gallons per day

1. Do you utilize additional water for livestock cooling? YES NO

2. If YES to Question 1, please describe your cooling methods and how much is used:

3. Dairy, Hogs, and Poultry Use (processing) - please complete the following chart:

AVERAGE GALLONS USED PER DAY

	Existing (gals)	Proposed (gals)
Livestock cleaning		
Equipment washing		
Product cooling		

4. Describe the methods used in product cooling. _____

5. Requested Water Use:

	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 years
Average Daily Use					
Maximum Daily Use					

*mgd - million gallons per day

7. Please submit annual water use records for your use for the previous 3 years.

F. AQUACULTURAL WATER USE

1. Type of Aquaculture: fish or eels other
 shellfish
 plants
 alligators

2. Attach map showing location of all on-site facilities, elevations of all overflow structures, all pumps and wells, volume of each containment structure, which ponds are lined and unlined and routing of water use.

3. Requested Water Use:

	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 years
Average Daily Use					
Maximum Daily Use					
Average Off-Site Discharge					

*mgd - million gallons per day

4. Where does overflow water discharge to: _____

5. On average, how many times per year are the ponds emptied: _____

6. What is the criteria for emptying a pond?: _____
7. Is pond aerated?: _____
8. Please complete the following table:

**SUMMARY OF AGRICULTURAL USES
AVERAGE DAILY USES**

Type Use	Existing Use (mgd)	Proposed Use	Proposed Use	Proposed Use	Proposed Use
		5 years	10 years	15 years	20 years
A. Citrus & Blueberries					
B. Vegetables					
C. Pasture Irrigation					
D. Sod Irrigation					
E. Livestock					
F. Aquaculture					
Total					



G. NURSERY / FERN USES

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

I. FERN USE

1. Complete the following table:

Requested Use (by source)	Existing (mgy)	Proposed (mgy) 5 years	Proposed (mgy) 10 years	Proposed (mgy) 15 years	Proposed (mgy) 20 years
Groundwater					
Surface Water					
Other: _____					

*mgy - million gallons per year

2. Provide total project acreage for each of the next 15 years.

Year	Acres	Year	Acres	Year	Acres	Year	Acres

3. Include a map of the project area, delineating any shade structure, hammocks, ponds, lakes, well and pump locations. Include depth and acreage of each impoundment.

4. WATER FOR FREEZE PROTECTION (PROPOSED ACREAGE)

The District will presume that the criteria established in Subsection 40C-2.301(2), F.A.C., will be met if you agree to construct either a tailwater recovery pond capable of retaining the volume necessary to freeze protect the proposed acreage during the first 48 hours of freezing temperature, or construct a well which withdraws water from the shallow aquifer, or a District approved alternative which does not utilize the Floridan aquifer as the source for freeze protection.

- a) If proposed tailwater pond is wholly owned:

Provide construction drawings, including depth to water table (from soil borings), and calculations to determine the volume of water capable of being stored in the pond.

- b) If proposed withdrawals are from a lake or non-wholly owned pond:

Contact a District environmental specialist to determine the environmental data needed to support this application.

- c) If proposed withdrawals are from shallow aquifer:

Provide hydrologic data to support groundwater for new freeze protection.

- d) Please complete Table 4(d) - (attached)

II. OTHER NURSERY USE (other than fern use)

1.

Requested Use (by source)	Existing (mgy)	Proposed (mgy) 5 years	Proposed (mgy) 10 years	Proposed (mgy) 15 years	Proposed (mgy) 20 years
Groundwater					
Surface Water					
Other: _____					

*mgy - million gallons per year

2. Provide total project acreage for each of the next 15 years.

Year	Acres	Year	Acres	Year	Acres	Year	Acres

3. Please Complete
Nursery Worksheet:

Vegetation Type (foliage, woody ornamentals, trees)*	Number Acres	Number of Containers if applicable	Container Spacing **	Irrigation method (drip, overhead, etc.)	Type of Cover (shade, hammock, saran, greenhouse, uncovered)	Freeze protection? Yes or No If yes, list method	Mgals/y Ground water	Mgals/y Surface Water

4. Provide methodology (IFAS, meters, etc.) used to calculate requested ground and surface water amounts.
5. Include a map of the project area, delineating the layout of all beds, ponds, lakes, and well and pump locations. Include depth and acreage of each impoundment.

*Type vegetation (trees, shrubs, indoor foliage, woody ornamentals)

**Container Spacing (number of containers per acre)

6. Complete the following table.
Fernery Worksheet:

EXISTING AND PROPOSED ACREAGE

Type of Fern or Vegetation	Total Acres	# Acres of		Sprinkler Head Spacing	Nozzle Size (gals/min)	Irrigation Source	Irrigation Pressure	Freeze Protection Source	Acres Freeze protected	Existing (E) or Proposed (P)
		Hammock	Shade							



LANDSCAPE/RECREATION/AESTHETIC USE TYPE

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

A. GOLF COURSE USE

I. BREAKDOWN OF ACREAGE:

	Existing (acres)	Proposed (acres)
Tees/greens		
Fairways		
Roughs		
Landscape areas		
TOTAL # ACRES IRRIGATED		

II. RECLAIMED WASTEWATER USAGE:

1. Average amount of reclaimed wastewater currently being used for irrigation _____ million gallons per day (mgd)
2. Name of treatment plant supplying golf course: _____
3. Complete the following table:

Annual Water Use Summary

	Present (mgals/yr)	Proposed (mgals/yr)
Groundwater		
Surface water (natural)		
Surface water (manmade)		
Reclaimed water		
TOTAL		

III. NEW GOLF COURSE:

For new golf course areas, provide the following information regarding the grow-in period:

1. Number of months _____
2. Date irrigation to commence _____
3. Amount requested for grow-in _____ mgd

LRA-1

IV. ADDITIONAL INFORMATION:

1. Map delineating locations of all lakes, ponds, weirs, control structures (include elevations for each), well(s), surface water pumps and location of meters. Include acreage and depth (National Geodetic Vertical Data) of each lake or impoundment.
2. Detailed description for existing irrigation system including a description of the timer system. Provide proposed layout if not yet built.
3. Methodology (IFAS, meters etc.) used to calculate requested ground and surface water amounts. Please provide a detailed description of any methodology used if other than IFAS.
4. List of all pesticides and herbicides used within the last 5 years if there is an off-site discharge location. Provide a copy of any pesticide management plan you may have for the course.
5. List of all wastewater treatment plants within a 5 mile radius of project. Provide the name and address of a contact person design capacity, current wastewater flows, and level of treatment.



B. LANDSCAPE IRRIGATION USE

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

LRA-2

1. Complete this chart if water is requested for irrigation of lawns, common areas, aesthetic or recreational areas.

TYPE OF VEGETATION	NO. OF ACRES	IRRIGATION METHOD	AMOUNT REQUESTED (Mgals/Year)*	SOURCE NAME (lake, or well ID)

2. Attach 2 copies of the following:

- ___ a. Map (including scale) showing outline of irrigated areas according to vegetation type.
- ___ b. List of all surface water bodies on or adjacent to the property boundary. Include lakes, ponds, rivers, canals etc.
- ___ c. List of all wastewater treatment plants within a 5 mile radius of project. Provide the name and address of a contact person design capacity, current wastewater flows, and level of treatment.



MINING/DEWATERING USE TYPE

(Submit 2 copies of application, supplemental information, drawings, calculations, etc.)

1. Attach a description of the activity with the following information:
 - ___ a. General project description and proposed duration of dewatering.
 - ___ b. A description of dewatering methods proposed, including locations of withdrawal points and depth of dewatering.
 - ___ c. Specify aquifer being dewatered.
 - ___ d. A description of disposal of water and methods of controlling water quality of discharges.
 - ___ e. Attach site map with scale no greater than 1 inch = 2000 feet, showing the following:
 - 1) location of all wellpoints, underdrains or shallow vacuum wells;
 - 2) location of all turbidity barriers,
 - 3) route of discharged waters; and,
 - 4) location of all wetlands within 1/4 mile of property boundary
 - ___ f. Map showing the extent of the projected drawdown due to dewatering.
 - ___ g. If this is a mining activity, provide the following:
 - 1) Site plans showing annual progression of the mining
 - 2) Geologic cross sections of the mining area to depth exceeding maximum mine depth
 - 3) location of any wells on the property
 - ___ h. Description of processing facilities on site. A commercial/industrial type use package must also be completed if there are processing facilities on site.

2. WATER QUANTITY INFORMATION:

Requested Use by Source	Existing (mgd)	Proposed (mgd) 5 years	Proposed (mgd) 10 years	Proposed (mgd) 15 years	Proposed (mgd) 20 years
Groundwater					
Surface Water					
Other:					

*mgd - million gallons per day