

Comprehensive Plan
INFRASTRUCTURE ELEMENT
GOALS, OBJECTIVES and POLICIES

Prepared for
The City of Deltona

Prepared by
IVEY, HARRIS & WALLS, INC.
631 S. Orlando Avenue, Suite 200
Winter Park, Florida 32789
(407) 629-8880

TABLE OF CONTENTS

GOAL.....	3
Objective 1	3
Objective 2	5
Objective 3	7
Objective 4	8
SANITARY SEWER.....	9
GOAL.....	9
Objective 5	10
Objective 6	12
Objective 7	13
Objective 8	14
SOLID WASTE.....	15
GOAL.....	15
Objective 9	15
Objective 10	16
Objective 11	17
STORMWATER	18
Objective 12	18
Objective 13	20
NATURAL GROUNDWATER AND AQUIFER RECHARGE.....	21
GOAL.....	21
Objective 14	21
Objective 15	22

POTABLE WATER

GOAL

Provide safe efficient, cost effective and adequate public supply, treatment, and distribution of potable water for the City of Deltona.

9J-5.011(2)(a)

Objective 1

The City of Deltona shall require that the following policies which establish minimum level of service standards are met when planning capital improvements and reviewing applications for development approval.

9J-5.011(2)(b)(2,3)

POLICY 1a

The City of Deltona adopts a level of service standard providing for an annual average daily volume of 300 gallons of potable water per equivalent residential unit. Projected flow for commercial, industrial, and institutional land uses will be calculated by using those rates specified by Land Development Code, as amended.

9J-5.011(2)(c)(2d)

POLICY 1b

The City of Deltona shall require the installation of both a central potable water system and potable water treatment plant in accordance with City land development regulations.

9J-5.011(2)(c)(2d)

POLICY 1c

The City of Deltona shall require the construction of facilities for providing a minimum fire flow as a condition of development approval. Applicable fire flow rates for individual land uses shall be required as provided for by the City Codes.

9J-5.011(2)(c)(2d)

POLICY 1d

The City of Deltona shall require the developer to provide and dedicate to the City or service provider the potable water distribution system and treatment facilities within any new development as provided for in the City's land development regulations. The design criteria and construction standards for any addition to the water system shall be in conformance with City design and construction standards.

9J-5.011(2)(c)(2d)

POLICY 1e

Individual potable water wells are not encouraged but allowed under any one of the following applicable circumstances provided that the well has been approved by the City of Deltona or other agencies, as appropriate;

- a. The lot is two and a half (2-1/2) acres in size or larger and is designated as residential on the Future Land Use Map and the lot is within a single family subdivision, and connection to a central potable water system is not available within 500 feet of the residential boundary.
- b. The potable water well is installed in conjunction with the construction of a single family residence on an existing single family lot which is designated for residential land uses by the Future Land Use Map and which are less than two and a half (2-1/2) acre in size provided that;
 - i) That central service is currently not available to the lot. Connection to central water service is required when said service becomes available, and
 - ii) The lot is not located within a Special Assessment District which has been established for the purpose of installing a potable water system.

or

- c. The potable water well is installed in conjunction with non-residential construction on an existing lot for landscape or agricultural irrigation purposes only and said well complies with applicable provisions as specified in Chapter 10 D-4, Florida Administrative Code. When a central system becomes available, connection to said system is required.

9J-5.011(2)(c)(2d)

POLICY 1f

The City of Deltona shall require treatment of its water supply be at a minimum, in accordance with State and Federal standards of purity.

9J-5.011(2)(c)(2d)

POLICY 1g

The City of Deltona shall require that all new development which is located within an area encompassed by an adopted municipal water service area agreement shall comply with the adopted level of service standards.

9J-5.011(2)(c)(2d)

POLICY 1h

An existing potable water well may be upgraded, provided that a central potable water system is not available. However, connection to a central potable water system is required where said system is available in lieu of upgrading an existing potable water well.

9J-5.011(2)(c)(2d)

Objective 2

The City of Deltona shall provide for an adequate level of service standard for potable water service to meet the needs of current and future residents of the City of Deltona. *(Amended by Ordinance 32-2000 adopted by the Deltona City Commission at second reading March 19, 2001)*

9J-5.011(2)(b)(4)

POLICY 2a

The City of Deltona, shall coordinate with the St. Johns River Water Management District and Volusia Water Alliance, shall to protect the safety and quality of drinking water sources by regulating the development of existing and future supplies. *(Amended by Ordinance 32-2000 adopted by the Deltona City Commission March 19, 2001)*

9J-5.011(2)(c)(3)

POLICY 2b

Prior to 2020, the City of Deltona shall develop facilities having the capability to access groundwater supplies of sufficient yield to provide the required potable water supply in the City water service areas.

9J-5.011(2)(c)(3)

POLICY 2c

The City of Deltona shall evaluate in conjunction with potable water providers, additional potential water supply sources and recovery technologies (e.g., reverse osmosis, membrane softening, desalinization) for the City water service areas when considering new or expanded facilities.

9J-5.011(2)(c)(3)

POLICY 2d

The City of Deltona should review the adopted a water conservation ordinance periodically.

9J-5.011(2)(c)(4)

POLICY 2e

The City of Deltona shall develop water treatment capacity to process sufficient quantities of potable water to meet the projected long-range (2020) needs described in this Element.

9J-5.011(2)(c)(4)

POLICY 2f

The City of Deltona shall collect and use impact fees as appropriate to offset the cost of the capacity necessitated by the impact of new users.

9J-5.011(2)(c)(4)

POLICY 2g

The City of Deltona shall develop with the coordination of service providers, by 2003, a potable water treatment and distribution facilities Master Plan for the City water service areas in the City of Deltona that is based on year 2020 demand projections and the level of service standards contained in this Element.

9J-5.011(2)(c)(4)

POLICY 2h

The City of Deltona shall permit the installation of individual shallow wells on residential and commercial lots for landscape irrigation, subject to specific City regulations in effect. This policy shall not apply to those areas where wastewater reuse facilities are available or can become readily available by identifying the customer demand.

9J-5.011(2)(c)(4)

POLICY 2i

The City of Deltona shall require the use of potable water-conserving plumbing fixtures in all new development, subject to the City regulations in effect.

9J-5.011(2)(c)(4)

POLICY 2j

The City of Deltona shall require the use of reuse water by private landowners for landscape irrigation, where the City or other utility owners supply it.

9J-5.011(2)(c)(4)

POLICY 2k

The City of Deltona shall provide facilities to allow the use of reuse water for agricultural purposes, where the City or other utility owners supply it.

9J-5.011(2)(c)(4)

POLICY 2l

The City of Deltona shall develop a City-wide program, which will lead to the development of minimum environmental standards regarding reuse and recovery.

9J-5.011(2)(c)(4)

POLICY 2m

By 2005, the City of Deltona shall utilize feasibility studies when developing a water management program. *(Amended by Ordinance 32-2000 adopted at second reading by the Deltona City Commission March 19, 2001)*

9J-5.011(2)(c)(4)

Policy 2n

Within the Planning period, the City of Deltona should consider owning and operating a City water and utility to provide these services to its residents, the need for which is demonstrated in the Potable Water Sub-Element. The City should require developers placing water and/or services utilities in the public right-of-way to dedicate the lines to the City at such future time as the City may request such a dedication.

Objective 3

By 2005, Throughout the planning period City of Deltona shall encourage a master plan maximization and use of existing and future facilities in the water service areas, so as to discourage urban sprawl.

9J-5.011(2)(b)(3)

POLICY 3a

The City should investigate the financial feasibility of acquiring and operating the potable water service within the City. This feasibility study should be completed prior to 2002.

9J-5.011(2)(c)(1,2d)

POLICY 3b

Encourage upgrading available public water systems and consolidation by interconnecting service area water systems (where feasible) to eliminate water service voids in water service areas.

9J-5.011(2)(c)(1)

POLICY 3c

The extension of water lines or establishment of central systems of potable water outside of the water service areas (County, municipal, or other potable water supply company established by an adopted service area agreement) shall be prohibited unless said extension or facility construction will mitigate existing or potential problems of public health, safety, or welfare and water service areas amended.

9J-5.011(2)(c)(1)

POLICY 3d

The City of Deltona shall negotiate agreements with developers for the City to provide potable water facilities in accordance with the proposed water Master Plan for the affected service area and the City 's design and construction standards.

9J-5.011(2)(c)(1,2d)

POLICY 3e

The City of Deltona shall coordinate with water suppliers to develop strategies, as needed, to balance fluctuation in water demand, safeguard continuance of supply in case of plant or water main breakdown, and to provide required fire flow.

9J-5.011(2)(c)(1)

POLICY 3f

The "infilling" of developed areas shall be directed to locations where an existing central system of potable water is available and where capacity is adequate to service the intended development or to those areas where funds have been committed for the provision of adequate capacity.

9J-5.011(2)(c)(1)

POLICY 3g

The City may create Special Assessment districts encompassing existing lots or subdivisions in the manner prescribed by City rules and regulations for the purposes of installing or improving central potable water systems.

9J-5.011(2)(c)(1)

POLICY 3h

When an existing privately owned package treatment facility is phased out and connected to a central public potable water system, the owner of said private plant shall be required to assume the cost of the connection.

9J-5.011(2)(c)(1)

Objective 4

Throughout the planning period, the City of Deltona shall coordinate the provision of potable water service to ensure the efficient and cost effective delivery of this service.

POLICY 4a

City of Deltona shall require service providers to begin constructing expanding or replacement of treatment facilities when annual average water flow reach 80% of the permitted capacity.

9J-5.011(2)(c)(2)

POLICY 4b

The City should negotiate necessary interlocal agreements with service providers for the purpose of establishing interconnections with the municipalities' water demand conditions.

- a. Improvement of system reliability in the event of diminished water supplies, line breaks, or excessively high localized, water demand conditions.

- b. Consider the option of purchasing water services dependent on appropriate funding in a proposed acquisition study.
- c. Coordinate recommendations of the St. Johns River Water Management District, the Volusia Water Alliance and other local, regional and state agencies involved in determining water demand conditions.

POLICY 4c

The City of Deltona shall negotiate water service area agreements to better coordinate the orderly, efficient, and economical distribution of water throughout the City.

POLICY 4d

The City of Deltona shall coordinate the utility and transportation planning efforts to take advantage of the most economical construction and maintenance costs possible when installing utility lines and roads.

POLICY 4e

The City shall not approve interim potable water treatment facilities within the boundaries of an adopted service area agreement unless the facilities are approved by both the City and the appropriate entity responsible for providing the service. As a result of the policy, the Interlocal Agreements shall also require that the City and a potable water provider shall develop a set of criteria to address the following items for interim treatment facilities: system design operation, construction standards, future dedication/acquisition and payment of capital charges.

9J-5.011(2)(c)(1)

POLICY 4f

The duties and responsibilities which flow from an interlocal agreement previously entered into between the City and service providers shall prevail over subsequent amendments to the Comprehensive Plan until and unless such interlocal agreement is re-negotiated as deemed appropriate by the City and a service providers.

9J-5.011(2)(c)(1)

SANITARY SEWER

GOAL

Provide safe adequate cost effective and environmentally acceptable sanitary sewer systems for the City of Deltona.

Objective 5

The City of Deltona shall require that the following policies which establish minimum level of service standards, are met when planning capital improvements and for reviewing applications for development approval.

9J-5.011(2)(b)(2)

POLICY 5a

The City of Deltona adopts a level of service standard providing for an annual average daily volume of 284 gallons of domestic wastewater per equivalent residential unit and 1,500 gallons per day per acre for commercial, industrial, and institutional land uses applicable within sewer service areas.

9J-5.011(2)(c)(1)

POLICY 5b

The City of Deltona shall require "advanced secondary treatment" of wastewater (including high-level chlorination and sand filtration) at all wastewater treatment plants with capacities of 0.1 MGD or more within the City.

9J-5.011(2)(c)(1)

POLICY 5c

The City of Deltona shall require the installation of a central sewer collection and transmission system, and may require the installation of a wastewater treatment plant, in accordance with City land development regulations where connection to an existing central sanitary sewer system is not available.

9J-5.011(2)(c)(2)

POLICY 5d

The City of Deltona shall require the utilization of a central sewer system where connection to a central system is available. The use of existing septic tanks serving land uses within the sewer service areas may continue in the manner consistent with the requirements specified by the Florida Administrative Code. Existing package treatment plants shall be connected to a central sewer system when connection to said system is available.

9J-5.011(2)(c)(2)

POLICY 5e

Septic tanks are only allowed under any one of the following applicable circumstances provided that the septic tank has been approved by the Florida Department of Health and Rehabilitative Services;

- a. The lot is one acre or larger in size and is designated as residential on the Future Land Use Map, or

- b. The septic tank is installed in conjunction with the construction of a single family residence upon an existing single family lot which is designated for residential on the Future Land Use Map and which is less than one (1) acre in size provided that:
 - i) That central service is currently not available to the lot. Connection to central sewer service is required when said service becomes available, and
 - ii) The lot is not located within a Special Assessment District which has been established for the purpose of installing a wastewater system.

or

- c. The septic tank is installed in conjunction with non-residential construction on an existing lot and that central wastewater service is not currently available and that the estimated wastewater flow from said non-residential use is less than five thousand (5,000) gallons per day. Connection to a central system of sanitary sewer service is required when said system is available.

9J-5.011(2)(c)(2)

POLICY 5f

The City of Deltona shall require all sewage treatment and disposal systems including septic tanks to be located and constructed in a manner consistent with all applicable local, State, and Federal regulations, including the applicable Goals, Objectives, Policies, and level of service standards contained in this Comprehensive Plan.

9J-5.011(2)(c)(2)

POLICY 5g

The City of Deltona shall regularly inspect all City-owned and private wastewater treatment facilities to ensure proper operation and maintenance.

9J-5.011(2)(c)(2)

POLICY 5h

The location and siting of new package treatment plants shall be prohibited by the City in areas where the disposal of improperly treated effluent may degrade the quality of groundwater or adjacent surface waters.

9J-5.011(2)(c)(2)

POLICY 5i

The City of Deltona shall require that all development which is located within an area encompassed by an adopted sewer service agreement, shall comply with the adopted level of service standards.

9J-5.011(2)(c)(2)

POLICY 5j

An existing septic tank system may be upgraded, provided that a central sanitary sewer system is not available. However, connection to a central sanitary sewer system is required where said system is available in lieu of upgrading an existing septic tank system.

9J-5.011(2)(c)(2)

Objective 6

Throughout the planning period, the City of Deltona shall maximize the use of existing facilities within sewer service areas, so as to discourage urban sprawl.

9J-5.011(2)(b)(3)

POLICY 6a

The City of Deltona may coordinate and negotiate agreements with developers and service providers in accordance with the affected City sewer service area and the City's design and construction standards.

9J-5.011(2)(c)(1)

POLICY 6b

The "infilling" of urban areas shall be directed to locations where an existing wastewater collection network is available and where treatment capacity is adequate to service the intended development or to those areas where funds have been committed for the provision of adequate capacity, unless otherwise vested under the City's Concurrency Management Ordinance or Land Development Regulations as may be determined by the City Commission.

9J-5.011(2)(c)(1)

POLICY 6c

The City may create Special Assessment districts encompassing existing lots or subdivisions, in the manner prescribed by State and City rules and regulations, for the purposes of installing or improving central wastewater systems.

9J-5.011(2)(c)(1)

POLICY 6d

The City of Deltona may, depending on the findings of a proposed study, acquire and upgrade available public wastewater systems to eliminate service voids in sanitary sewer service areas.

9J-5.011(2)(c)(1)

POLICY 6e

When an existing privately owned package treatment facility is phased out and connected to a central public wastewater system, the owner of said private plant may be required to assume the cost of the connection.

9J-5.011(2)(c)(1)

Objective 7

The City of Deltona shall encourage the development of an effluent recharge, reuse and disposal program to recharge wetlands and groundwater supplies and provide irrigation water.
9J-5.011(2)(b)(5)

POLICY 7a

The City of Deltona shall require use of recovered wastewater for irrigation and non-potable use for all new development and other appropriate uses, where such use can be feasibly implemented and permitted by the Florida Department of Environmental Protection as determined by the City.
9J-5.011(2)(c)(3)

POLICY 7b

The City of Deltona shall monitor enforcement of State regulations for water quality, especially with respect to wastewater plant operations and effluent disposal and, if necessary, develop an appropriate alternative management strategy, which may include reduction in wastewater effluent loadings and discharge rates.
9J-5.011(2)(c)(3)

POLICY 7c

The City of Deltona shall participate in long-term agreements with land owners to accept reclaimed water for irrigation of horticultural or agricultural uses.
9J-5.011(2)(c)(3)

POLICY 7d

Where possible, the City of Deltona shall develop a dual water system utilizing reclaimed wastewater for parks, golf courses, cemeteries, large agricultural, commercial, or governmental complexes and other water customers.
9J-5.011(2)(c)(3)

POLICY 7e

The City of Deltona shall, where practical and economically feasible, develop and implement an environmentally sound program for the use of natural systems, such as wetlands, for wastewater disposal provided that the implementation of such a program does not present a hazard to public health.
9J-5.011(2)(c)(3)

Objective 8

The City of Deltona shall coordinate with service providers to develop plans to extend wastewater facilities and to expand wastewater treatment capacity necessary to accommodate projected 2020 wastewater service needs.

9J-5.011(2)(b)(2)

POLICY 8a

The City of Deltona shall annually designate as appropriate and financially feasible a portion of its capital improvements budget for the correction of existing deficiencies in its wastewater disposal system as determined by the application of the standards contained in this Element.

9J-5.011(2)(c)(1,2&9)

POLICY 8b

The City of Deltona shall collect and use impact fees to offset the cost of capacity necessitated by the impact of new users.

9J-5.011(2)(c)(1,2&9)

POLICY 8c

The City of Deltona shall require service providers to begin constructing expanded or replacement wastewater treatment facilities when annual average wastewater flows reaches 80% of the permitted capacity.

9J-5.011(2)(c)(1,2&9)

POLICY 8d

The City of Deltona shall develop a wastewater collection and treatment facilities master plan for the sewer service areas in the City that is based on year 2020 effluent projection and the level of service standards contained in this Element.

9J-5.011(2)(c)(1,2&9)

POLICY 8e

The City of Deltona shall negotiate sewer service area agreements with service providers to better coordinate the orderly, efficient, and cost effective provision of wastewater service.

9J-5.011(2)(c)(1)

POLICY 8f

Prior to fiscal year 2002-2003, all affected utility providers, having established interlocal agreements, in cooperation with the City of Deltona, will develop conceptual wastewater facility plans for areas at the urban periphery of utility provider's jurisdiction. As long as such services can be provided by extension of existing central systems, The City of Deltona shall not propose to construct any interim facilities without completing an analysis documenting that such construction is more cost-effective than extension of existing central system.

9J-5.011(2)(c)(1)

POLICY 8g

The duties and responsibilities which flow from an interlocal agreement previously entered into between the City and a municipality shall prevail over subsequent amendments to the Comprehensive Plan until and unless such interlocal agreement is re-negotiated as deemed appropriate by the City and service providers.

9J-5.011(2)(c)(1)

POLICY 8h

As with Potable Water, with the planning period, the City of Deltona should consider owning and operating a City water and /or sewer utility system to service the needs of its residents, the need for which is demonstrated in the Sanitary Sewer Sub-Element. The City should require the developers constructing water and /or service utilities in the public right-of-way to dedicate the facilities to the City at such time in the future as the City may request same.

SOLID WASTE

GOAL

The City of Deltona shall cooperate, coordinate and in a cost effective manner, strive for the reduction of landfill waste needs.

Objective 9

The City of Deltona shall strive to assist the County's goal of reducing the waste stream for disposal in area landfills.

9J-5.011(2)(b)(1,2)

POLICY 9a

The City of Deltona shall participate in the education of the public to avoid products which: are not recyclable, cannot be converted, or cannot be used as a resource or derived fuel.

9J-5.011(2)(c)(1,2b)

POLICY 9b

All solid waste facilities (landfills, transfer stations, hazardous waste collection centers) shall be conveniently and cost effectively located and built and maintained in such a manner as to minimize the adverse impacts on the environment, residential neighborhoods and road networks.

POLICY 9c

The City of Deltona shall implement programs designed to eliminate littering and illegal dumping by the year 2000.

9J-5.011(2)(b)(1,2b)

POLICY 9d

Educate the public regarding the problems, health hazards and additional costs that result from littering and illegal dumping. The City laws regarding solid waste should also be widely publicized. Citizen groups will be encouraged to report violations to the City.

9J-5.011(2)(c)(1)

POLICY 9e

Coordinate with the appropriate enforcement agencies for the effective enforcement of anti-littering and illegal dumping laws.

9J-5.011(2)(c)(1)

Objective 10

Locate and maintain solid waste facilities in a manner, which does not adversely affect residential neighborhoods or local streets.

9J-5.011(2)(b)(2)

POLICY 10a

Landfills and resource recovery facilities shall not be located in residential neighborhoods.

9J-5.011(2)(c)(1,2b)

POLICY 10b

Avoid transfer truck traffic and reduce local haul (any refuse transported within the City of Deltona) on residential neighborhood streets.

9J-5.011(2)(c)(1,2b)

POLICY 10c

The City of Deltona shall continue to locate future solid waste transfer stations so as to provide for efficient and cost-effective management of waste flows, while minimizing the adverse impacts on the environment and residential neighborhoods. Consideration of this policy includes, at a minimum, that:

1. Reduction in adverse impacts of local haul and transfer truck traffic on residential neighborhood streets.
2. Encourage increased cost efficiency in the operation of the solid waste flow stream.

9J-5.011(2)(c)(1,2b)

Objective 11

Ensure that the availability and quality of solid waste disposal facilities and hazardous waste collection facilities: meet public needs, conform to state and federal standards, are managed properly, and are provided for in an efficient and coordinated manner.

POLICY 11a

Maintain an 8.6 pounds per capita per day disposal capacity at all solid waste facilities combined. The level of service for solid waste capacity shall be a minimum of 5 years of construction life for solid waste landfills. Any development that results in the landfill falling below this capacity will not be issued a certificate of capacity for concurrency unless the impacts of the developments are mitigated.

9J-5.011(2)(b)(1)

POLICY 11b

The City shall develop, in conjunction with other local governments, a permit tracking system. This system shall provide, on a timely basis, information on development and building activity. This information will be used to determine whether an area wide level of service is being maintained for the purposes of Solid Waste Concurrency Management.

9J-5.011(2)(c)(1)

POLICY 11c

In order to reduce the volume of improperly disposed hazardous waste disposal, the Building Division shall provide each industrial park and industrial subdivision the following information:

Federal, State and local regulations for the storage and disposal of hazardous waste and waste exchange, and management/disposal options.

9J-5.011(2)(c)(1)

POLICY 11d

Guidelines shall be established through the Land Development Regulation process to regulate the location of private hazardous waste transport facilities.

9J-5.011(2)(c)(1)

STORMWATER

Objective 12

By 2000, the City of Deltona shall complete comprehensive watershed study for all areas currently developed, or developing with essentially urban land uses. The City shall continue to assess other watersheds for flooding and pollution problems and for changes in land use in the event that further detailed Watershed Master Plans may be warranted in the future.

9J-5.011(2)(b)(5)

POLICY 12a

The City of Deltona shall develop a comprehensive surface and groundwater watershed management plan within six months after completion and adoption of the comprehensive drainage watershed studies.

9J-5.011(2)(c)(4,5)

Policy 12a1 (added by Ordinance 36-2000 adopted at second reading by Deltona City Commission November 11, 2000)

Additionally, the City shall in implementation of the plan:

- (a) Consult with and obtain permits as may be necessary from proper regulatory authorities before initiating alteration for wetlands; and*
- (b) Recognize landowners' statutory and common-law vested private property rights, including riparian rights.*

POLICY 12b

All land use and development approval decisions which impact water resources in Deltona shall conform to the comprehensive surface and groundwater watershed management plan, when approved by the City Commission.

Level of Service for Storm Water Quantity and Quality:

- a. The City of Deltona shall require developments less than one acre but less than 5000 square feet of impervious area, or the impervious area is less than 25 percent of the total lot area must meet the 25 -year storm event performance and design standards.
- b. The City of Deltona shall require development of any lot area that consists of 5000 or more square feet of impervious area or, the impervious area is 25 percent or more of the total lot area: or, the lot area of the proposed development is one

acre or larger regardless of the impervious area shall exceed 25-year storm event performance standards.

- c. For informational purposes, the following exemptions exist in the performance and design standards of Article VIII Stormwater Management of the City of Deltona Land Development Code (as amended).
- (1) Single family and duplex residences and accessory structures;
 - (2) Bonafide agricultural pursuits including forestry, except where an artificial drainage improvement will be used to increase the flow of surface water from the applicant's land;
 - (3) Maintenance work performed on existing mosquito control drainage canals for the purpose of public health and welfare;
 - (4) Maintenance work on utility or transportation systems, provided such maintenance work does not alter the purpose and intent of the drainage system as constituted;
 - (5) Any maintenance, alteration, renewal, use or improvements to an existing structure not changing or affecting rate or volume of stormwater runoff and the onetime construction of any structure or addition not otherwise exempt, not exceeding 1000 square feet of impervious area on a parallel to the ground;
 - (6) Publicly owned landfills permitted under state regulations;
 - (7) Notwithstanding any other provision of Article VIII of the City of Deltona Land Development Code, there shall be no harmful erosion by water of any soil or fill onto any adjacent public or private property.
- d. New developments and/or redevelopment projects shall include a stormwater management system which assures the Peak Discharge Rate, Volume, and the pollution Load of stormwater leaving a site after development is are no greater than before development.
- e. Developments shall attenuate post development runoff, peak flows and volumes to that of the pre-development condition for a 25-year/24 hour design storm event.
- f. Provide off- line retention of the first inch of runoff or 2.5 times the percentage of impervious surface proposed for the site for water quality treatment purposes in areas with suitable soil and groundwater conditions.
- g. In areas with a high groundwater table provide wet detention water quality treatment for equal to or greater than the first inch of runoff or 2.5 inches times the percent impervious.

9J-5.011(2)(c)(2c)

POLICY 12c

The City shall develop, in conjunction with other local governments within and adjacent to The City of Deltona, a permit tracking system. Creation of this system shall require that each jurisdiction provide on a timely basis, information will be used to determine whether an area-wide level of service is being maintained for the City Drainage System.

9J-5.011(2)(c)(1,2c,4&5)

POLICY 12d

The City of Deltona shall use the watershed studies to determine level of service, capacity analysis, demand level and geographic service area for stormwater management areas and shall include mosquito control facilities which function as stormwater facilities.

9J-5.011(2)(c)(1,2c&5)

POLICY 12E

All new development and redevelopment projects shall meet or exceed these minimum State water quality standards; Chapter 62-40 Florida Administrative Code (FAC), Chapter 62-302 FAC, Chapter 40C-42 FAC. All new development or redevelopment projects shall also meet or exceed minimum environmental protection standards of Volusia County and this Comprehensive Plan. Stormwater discharges from all new development and redevelopment projects shall also meet or exceed State water quality standards for Class III Waters as stated in Chapter 62-302 FAC.

Objective 13

The City of Deltona shall at a minimum maintain current standards regulating the design, construction, and management of drainage systems used for stormwater management.

9J-5.011(2)(b)(5)

POLICY 13a

The City of Deltona shall identify and prioritize drainage systems in need of retrofitting and upgrade of these systems, as funding becomes available. Watershed studies will be used to identify and prioritize systems in need of retrofitting. The City of Deltona may apply for any grants and loans available from the DEP Revolving Loan Fund.

9J-5.011(2)(c)(1,4,5)

POLICY 13b

Prior to 2001, The City of Deltona shall develop an inspection and enforcement program to ensure proper maintenance of stormwater management systems.

9J-5.011(2)(c)(1)

PROJECT 13c

Best Management Practices (BMPs) for control of erosion and sedimentation shall be employed for all construction and agricultural activities in order to protect natural waterbodies, watercourses and wetland from off-site pollutants.

9J-5.011(2)(c)(4,5)

PROJECT 13d

Prior to 2001, The City of Deltona shall complete a study to examine innovative stormwater BMP's (such as turf block, porous concrete "Rigby" cleaning machine, as a way to improve its stormwater management program.

9J-5.011(2)(c)(4,5)

NATURAL GROUNDWATER AND AQUIFER RECHARGE

GOAL

Protect the quality and quantity of the surficial and Floridan aquifers, including the Volusia-Floridan sole source aquifer, and protect and enhance the capabilities of the groundwater recharge areas for the present and future water supply of the City.

9J-5.011(2)(b)(4,5)

Objective 14

By 2007, Potable water resources shall be identified, protected and conserved such that natural recharge to the aquifers shall not be reduced and more water shall be added to the aquifer recharge system.

9J-5.011(2)(b)(4)

POLICY 14a

The City of Deltona shall coordinate with the St. Johns River Water Management District and continue to monitor groundwater supply conditions.

9J-5.011(2)(c)(4,5)

POLICY 14b

By 2005, The City of Deltona shall determine water supply levels of service in conjunction with the St. Johns River Water Management District. Future land development permits in the City will be subject to those limitations.

9J-5.011(2)(c)(1,4)

POLICY 14c

The City of Deltona shall promote the efficient use of groundwater supplies as outlined in the Potable Water Element of this Comprehensive Plan.

9J-5.011(2)(c)(3)

POLICY 14d

The City of Deltona shall require the use of water conserving plumbing fixtures in all new development, subject to City regulations in effect.

9J-5.011(2)(c)(3)

POLICY 14e

Prior to 2003, The City of Deltona shall develop and adopt City-wide minimum environmental standards regarding: additional prime recharge area protection, water table manipulation, and well field draw down standards.

9J-5.011(2)(c)(4)

POLICY 14f

Prime (or high) aquifer recharge areas appropriate for development shall be developed so as to continue to maintain pre-development net retention, exempting agricultural activities utilizing those Best Management Practices adopted by US Natural Resources Conservation Service and Florida Department of Environmental Protection which in fact protect ground and surface water quality.

9J-5.011(2)(c)(4)

POLICY 14g

The City of Deltona shall consider purchase or secure environmental easements on recharge lands where feasible for the purpose of water detention and recharge.

9J-5.011(2)(c)(4,5)

POLICY 14h

Prior to 2001, The City of Deltona shall institute a comprehensive program responsible for educating businesses and residents of: the City's current water conservation policies, the fragility of the aquifer, methods to reuse and conserve water, well abandonment problems and rules, and benefits of drought resistant plants (xeriscape).

9J-5.011(2)(c)(3)

Objective 15

The City of Deltona shall not allow the degradation of the Floridan and surficial aquifers' water quality.

9J-5.011(2)(b)(5)

POLICY 15a

The City of Deltona shall adopt additional policies, within its jurisdiction, using information collected in the FDEP groundwater quality studies, to protect the aquifer.

These shall include policies that address:

1. public well field siting
2. siting of industrial land uses which use hazardous materials or generate hazardous waste

3. siting of additional hazardous waste collection facilities for households and conditionally exempt small quantity generators of hazardous waste
4. if necessary, expansion of the Hazardous Material Emergency Response Team
5. if necessary, additional protection of the aquifer from saltwater intrusion
6. if necessary, restrictions to agricultural activities regarding the use of pesticides or fertilizers.

9J-5.011(2)(c)(5)

POLICY 15b

The City of Deltona shall continue to enforce the local and State regulations pertaining to the protection of the surficial and Floridan aquifers from such contaminants as hazardous and biological wastes, and petroleum products including, but not limited to: fuel oils, transportation fuels, machinery fluids and their wastes.

9J-5.011(2)(c)(4,5)

POLICY 15c

The City of Deltona shall maintain a wellhead/well field protection ordinance for which shall, at minimum, do the following:

1. determine the zone of influence and/or area for protection for each public well field,
2. determine restrictions for the handling and storage of hazardous substances in order to protect potable water supplies,
3. permit regional well fields to serve a multi-purpose function, such as conservation and passive public recreational facilities.

9J-5.011(2)(c)(3,4&5)

POLICY 15d

The City should utilize water quality standards included in the “Stormwater and Watershed Management Master Plan,” prepared in 1998 as a benchmark for water quality, to determine if degradation, maintenance or improvement has occurred.