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**CHAPTER V
UTILITY ELEMENT
SANITARY SEWER, SOLID WASTE, STORMWATER MANAGEMENT, DRAINAGE,
POTABLE WATER,
AND NATURAL GROUNDWATER AQUIFER RECHARGE ELEMENT PROTECTION
SUB-ELEMENTS
GOALS, GOAL, OBJECTIVES AND POLICIES**

INTRODUCTION

This Chapter stipulates goals, objectives, and policies for the Sanitary Sewer, Solid Waste, Stormwater Management, Potable Water and Natural Ground Water Aquifer Recharge Element pursuant to 163.3177 (6) (d), FS, and §9J-5.013 (2), FAC. The purpose of this Element is to provide for necessary public facilities and services correlated to future land use projections.

GOALS, OBJECTIVES AND POLICIES

SANITARY SEWER

Goal 1 To provide for the disposal of all wastewater generated in the town in the most economical, environmentally sound, and cost efficient manner possible.

Objective 1.1 Maintain a sanitary sewer system level of service standard of 200 gallons per day per equivalent living unit.

Policy 1.1.1 The level of service standard of 200 gallons per day per equivalent living unit (ELU) is hereby adopted by the town, and shall be used as the basis for determining the availability of sanitary sewer system capacity and the demand generated by a development.

Policy 1.1.2 Work with Port Orange to ensure that the town continues to operate and maintain existing sanitary sewer collection lines and transmission mains and provide improvements as necessary to meet average-day and peak-day flows.

Policy 1.1.3 Development permits shall not be issued by the town if the demand generated by resulting development will exceed the capacity of existing sanitary sewer facilities.

Policy 1.1.4 The town shall participate in the development and updating of the capital improvement plan of the city of Port Orange to ensure that priorities for replacement, correcting facility deficiencies and providing for future facility needs are consistent with the town's Comprehensive Plan and responsive to the needs of the citizenry.

Objective 1.2 The town shall continue to reduce the number of existing septic tanks.

40 Policy 1.2.1 Single family dwellings shall hook up to the central sewer system when an existing
41 on-site sewage treatment facility fails, if the central sewer system is reasonably
42 available. Connection shall be determined to be "reasonably available" if a sewer
43 line exists in a public easement or right-of-way which abuts the property, and if
44 gravity flow can be maintained from the building drain to the sewer line.

45 Policy 1.2.2 Where gravity sewer service is extended into previously un-served areas, property
46 owners will be required to connect existing homes within one (1) year of being
47 notified that sewer service is available.

48 Policy 1.2.3 When sewer service is available within 150' of a property, all new development,
49 including single family residences, shall be required to connect to the sewer service,
50 even if gravity flow cannot be maintained.

51 52 53 54 **SOLID WASTE**

55 **Goal 1** **Provide for the collection and disposal of household, commercial, and construction solid**
56 **wastes in a manner that is convenient, environmentally sound, sanitary, and cost**
57 **efficient.**

58
59 Objective 1.1 Continue to cooperate with Volusia County the Florida Department of Environmental
60 Protection, and the U.S. Environmental Protection Agency, in monitoring and regulating
61 the handling and disposal of hazardous wastes in the town.

62 Policy 1.1.1 The town shall continue to monitor activities that are known to use hazardous
63 materials in order to insure compliance with applicable handling and disposal rules
64 and guidelines.

65 Policy 1.1.2 The town shall continue to coordinate with Volusia County to establish a permanent
66 local collection center for receiving hazardous wastes from households, small
67 businesses, and other low-volume generators. If the town is unable to establish
68 such permanent center, then it shall establish a program which will provide for
69 periodic collections to be made.

70 Policy 1.1.3 The town shall continue to cooperate with Volusia County the Florida Department of
71 Environmental Protection and the U.S. Environmental Protection Agency to promote
72 better awareness of the need for proper disposal of hazardous wastes.

73 Policy 1.1.4 The town shall continue to encourage safe disposal of hazardous waste by
74 promoting "amnesty days" for collection of hazardous wastes by the county and
75 other agencies.

77 Objective 1.2 Continue to cooperate with Volusia County and the 15 other municipalities within the
78 county by adopting a comprehensive solid waste reduction program.

79 Policy 1.2.1 This comprehensive solid waste reduction program shall, in particular, address the
80 following:

81 A. A practical means to achieve the county's goal of reducing the amount of the solid
82 waste disposed of at the county landfill by 30 percent.

83 B. Specific methods for separation of white goods, yard trash, construction/demolition
84 debris, and tires from the solid waste stream for disposal at alternate sites or for
85 recycling.

86 C. A strategy for educating the public to avoid products which are not recyclable,
87 cannot be converted, or cannot be used as a resource or derived fuel.

88 D. Continuation and/or improvement of ongoing specific methods for separation of a
89 majority of newspaper, aluminum cans, glass, and plastic bottles from the solid
90 waste stream prior to final disposal at the county's landfill, and for offering such
91 materials for recycling.

92 Policy 1.2.2 Continue to coordinate and cooperate with Volusia County and the town's waste
93 collection in maintaining a waste reduction/recycling program that best serves the
94 interests of the town.

95 Policy 1.2.3 Maintain the town's level of service standard of 8.6 pounds per capita per day for
96 solid waste collection, and continue to ensure that the private franchised solid waste
97 collector has the capacity to provide that level of service for the town's resident and
98 seasonal population.

99
100
101 **STORM WATER MANAGEMENT**

102 **Goal 1**~~Goal-4.~~ **To provide adequate stormwater management to protect human life and health and**
103 **the value of property, and to prevent degradation of water quality in the Halifax River, the**
104 **Atlantic Ocean and the groundwater aquifer.**

105
106 ~~**Objective 1.1.**~~ ~~By October 1990,~~ ~~the Town shall~~ continue to ensure that its Land Use and
107 Development Code (LUDC) enact a land development code which includes
108 criteria and procedures for determining whether proposed stormwater
109 management system level of service standards that are adequate to prevent
110 flooding and degradation of natural surface waters.

112 | **Policy 1.1.1.** *In order to determine the adequacy of a proposed stormwater management*
113 | *system, the following level of service standard is hereby ~~continued~~ adopted:*

114 |
115 | *~~A.1) The discharge hydrograph produced for the developed or~~*
116 | *~~redeveloped site shall not exceed by more than ten (10) percent in terms of~~*
117 | *~~peak flow and total volume, the hydrograph produced by conditions existing~~*
118 | *~~before development or redevelopment for a twenty-five year frequency~~*
119 | *~~storm. However, the first one inch of rainfall for each storm falling on all~~*
120 | *~~areas caused by or resulting from the project shall be retained on site. In~~*
121 | *~~addition, the cumulative impact of the outflow hydrograph on downstream~~*
122 | *~~flow shall be considered. Run-Off rates and volumes resulting from the~~*
123 | *~~project, in excess of existing amounts may not exceed the runoff that~~*
124 | *~~existed prior to the new development, shall be accommodated on-site.~~*

125 |
126 | *B.2) The peak discharge resulting from a one hundred-year frequency*
127 | *storm on the developed or redeveloped site shall not exceed the peak*
128 | *discharge resulting from a one hundred-year frequency storm for existing*
129 | *conditions on the site.*

130 |
131 | *C.3) Stormwater discharge into a natural surface water body shall*
132 | *reduce the amount of pollutants in the discharge to a level that continues to*
133 | *meet the Florida water quality standards found in Chapter 17-3,*
134 | *Florida Administrative Code.*

135 |
136 | **Objective 1.2** Continue to provide stormwater management. ~~By 1991, the Town shall~~
137 | ~~complete detailed engineering studies of street flooding problems, and drainage~~
138 | ~~facilities to accommodate runoff from frequently occurring and seldom occurring~~

139 | ~~storm events. shall schedule in the Town's Capital Improvement Plan projects~~
140 | ~~needed to eliminate these problems.~~

141 |
142 | **Policy 1.2.1** ~~The LUDC regulations shall continue to be enforced and monitored to~~
143 | ~~ensure stormwater and drainage facilities are required for new~~
144 | ~~development, and maintained for existing development. Improvements~~
145 | ~~determined from these studies to be required for correction of street~~
146 | ~~flooding problems will be scheduled in the Town's Capital Improvement~~
147 | ~~Plan.~~

148 |
149 | **Objective 1.3.** ~~By October 1990, the Town shall continue to maintain and enforce its~~
150 | ~~LUDC adopt land development regulations which address the need to protect~~
151 | ~~and preserve the functions of natural drainage features.~~

152 |
153 | **Policy 1.3.1.** ~~Protection and preservation of natural drainage courses and retention areas~~
154 | ~~shall will be a primary consideration in the design and layout of proposed~~
155 | ~~developments.~~

156 |
157 | **Policy 1.3.2.** ~~Where a proposed development is traversed by a natural watercourse or~~
158 | ~~drainageway, or stream, dedication shall be made of a suitable easement to~~
159 | ~~accommodate stormwater drainage through and from the proposed~~
160 | ~~development. The boundaries of such easement, as a minimum, shall~~
161 | ~~encompass the natural boundaries of the waterway or, drainageway, or~~
162 | ~~stream.~~

163 |
164 | **Policy 1.3.3.** ~~New developments will be designed so as to minimize disturbance of the~~
165 | ~~natural dune contours and vegetation.~~

166 |

167 | **Policy 1.3.4.** Lot coverage by buildings and other impervious surface area ~~shall~~ will be
168 | limited to allow adequate on-site stormwater percolation.

169 |
170 | **SECTION D**

171 | **POTABLE WATER SUB-ELEMENT**

172 | **Goal 1. To provide adequate quantity and quality potable water to meet the demands of the present**
173 | **and future population for consumption and other purposes.**
174 |
175 |

176 |
177 |
178 | **Objective 1.1.** No use or development of land shall occur in Ponce Inlet unless adequate water
179 | system capacity is available or will be available when needed to serve the
180 | development.
181 |

182 | **Policy 1.1.1.** A level of service standard of ~~140~~ 120 gallons per capita per day is hereby
183 | adopted, and shall serve as the basis for determining the availability of
184 | adequate water system capacity.
185 |

186 | **Policy 1.1.2.** ~~The Development Services Department Chief Building Official, Town~~
187 | ~~Planner, and Town Engineer shall maintain~~ jointly develop procedures and
188 | guidelines to update water facility demand and capacity information as
189 | development orders or permits are issued.
190 |

191 | ~~Policy 1.1.3~~ Prior to issuing development permits any development permit, and/ or changing the
192 | Future Land Use Map, water supply availability shall be confirmed with the Town's
193 | water provider. Prior to the issuance of any building permit, the Town shall confirm
194 | that water service will be available by the Town's water supplier by the anticipated
195 | issuance date of the certificate of occupancy.
196 |
197 |

198 Objective 1.2 Monitor and evaluate existing facilities on an annual basis to insure maximum use and
199 efficiency.

200 ~~Objective 1.2~~ Existing deficiencies will be corrected and projected demands through the
201 year 1995 will be met by undertaking the following projects:

202
203 a) install a 10-inch water line extending from the Port Orange water
204 system, along South Peninsula Drive, to Jana Street.

205
206 b) install a 12-inch water line extending from the Port Orange water
207 system along South Atlantic Avenue, to Inlet Harbor Drive.

208
209 Policy 1.2.1 If necessary, projects shall be undertaken in accordance with the Capital
210 Improvements Element of this Comprehensive Plan.

211 Policy 1.2.2 Continue to operate and maintain water storage facilities to provide adequate
212 capacity for meeting peak-day demands and fire flow requirements.

213 Policy 1.2.3 Continue to operate and maintain existing distribution line, and when financially
214 feasible improve size and design capacity, to maintain and enhance water pressure
215 to service town customers.

216 Policy 1.2.4 Make water distribution system improvements to the extent possible to allow the
217 town to maintain current Insurance Service Organization (ISO) fire ratings.

218
219 Objective 1.3 ~~Policy 1.2.2~~. To the greatest extent possible, the cost of providing system
220 improvements will be borne by those benefiting from such improvements.

221 Policy 1.3.1 ~~1.2.3~~. New developments shall be required to pay the full cost of improvements
222 needed to serve only those developments, and the proportionate cost of
223 improvements needed to serve more than one development.

224 Objective 1.4 Citizens of Ponce Inlet will be encouraged to utilize conservation methods to reduce the
225 demand for potable water.
226

227 Policy 1.4.1 The town shall promote and encourage the conservation policies adopted by the St.
228 Johns River Water Management District, Volusia County, and the Water Authority of
229 Volusia (WAV).

230 Policy 1.4.2 As part of the Town's Water Supply Plan, (The town shall investigate the use of
231 block (conservation) pricing as a tool to encourage conservation of potable water.

232 Policy 1.4.3 As part of the Town's Water Supply Plan, (The town shall examine/monitor the
233 usage of potable water from irrigation meters, and if usage is determined to be
234 excessive, the town shall consider examine and implement policies such as pricing
235 to encourage conservation by users.

236 237 **NATURAL GROUNDWATER AQUIFER RECHARGE**

238
239 **Goal 1. Promote recharge of the groundwater aquifer to maximize the quantity of good quality water**
240 **available for continuing withdrawal and use.**

241 **Objective 1.1.**—Maintain the natural characteristics and function of the surficial (shallow
242 groundwater) aquifer, including its potentiometric surface level and quality.

243 Policy 1.1.1 ~~Maintain.~~ By 1993, formulate and adopt a groundwater protection
244 plan that establishes varying limits on allowable withdrawal and use of
245 groundwater, depending on the condition of the aquifer. The condition of
246 the aquifer should be defined in terms of chloride content, potentiometric
247 surface level and other significant characteristics.

248
249 **Objective 1.2** ~~Continue to maintain.~~ ~~By 1991, formulate and enforce the LUDC's~~ adopt a
250 unified land development code which includes provisions promoting water
251 conservation.

252 **Policy 1.2.1.** The Town shall incorporate into its land development code its current maintain and
253 improve as deemed necessary by the town its LUDC Stormwater Management and
254 Conservation Ordinance and, Excavation and Grading Ordinance regulations and
255 other appropriate provisions promoting water conservation, which may include use
256 of native, drought resistant vegetation for landscaping, and installation of water-
257 conserving plumbing fixtures. The town may also adopt conservation or block
258 pricing rates as a tool to encourage the conservation of potable water.