



Technical Report No. 99-02

SYNTHESIS OF TECHNICAL INFORMATION

Volume 2: *APPENDICES*

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and

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for the

Charlotte Harbor National Estuary Program

- *Peace River & Watershed • Myakka River & Watershed*
- *Coastal Venice/Lemon Bay/Gasparilla Sound/Cape Haze*
- *Charlotte Harbor Proper • Pine Island Sound/Matlacha Pass*
- *Estero Bay & Watershed • Tidal Caloosahatchee River & Watershed*

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INTRODUCTION

This report "Synthesis of Existing Information, Volume II," contains the following information:

- Total annual and mean monthly rainfall plots for basins.
- Total annual and mean monthly streamflow.
- Surface water quality summaries for basins within the Charlotte Harbor NEP study area.
- Pollution potential model for basins within the Charlotte Harbor NEP study area.
- Land use data from SWFWMD based on Florida Department of Transportation (FDOT) "Florida Land Use and Cover Classification System" (FLUCCS), Levels II and III for the Charlotte Harbor NEP study area.

This second volume supplements Volume I that characterizes and analyzes the program's three priority problems in the greater Charlotte Harbor watershed. These problems are:

- 1) **Hydrologic Alterations** - adverse changes to amounts, locations, and timing of freshwater flows, hydrologic function of floodplain systems, and natural river flows.
- 2) **Water Quality Degradation** - including but not limited to pollution from agricultural and urban runoff, point source discharges, septic tank system loadings, atmospheric deposition, and groundwater.
- 3) **Fish and Wildlife Habitat Loss** - degradation and elimination of headwater streams and other habitats caused by development, conversion of natural shorelines, cumulative impacts of docks and boats, invasion of exotic species, and cumulative and future impacts.

Addressing elements of the three identified priority problems as they relate to each of these major basins will be a primary focus in development of the Charlotte Harbor NEP CCMP. To accomplish this, the Synthesis of Existing Information seeks to:

- identify and compile relevant sources of information;
- to assess trends in the estuary's water quality, natural resources, and uses;
- to assess pollution loadings to the estuary and relate them to observed changes in water quality, natural resources, and land use; and
- to identify potential environmental problems.

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Average monthly flow 02299470-BIG SLOUGH NR MURDOCK, FL	200
Total annual flow 02299950-MANATEE RIVER NR MYAKKA HEAD, FL	201
Average monthly flow 02299950-MANATEE RIVER NR MYAKKA HEAD, FL	201
Total annual flow 02300000-MANATEE RIVER NR BRADENTON, FL	202
Average monthly flow 02300000-MANATEE RIVER NR BRADENTON, FL	202
Total annual flow 02300100-LITTLE MANATEE RIVER NR FT. LONESOME, FL	203
Average monthly flow 02300100-LITTLE MANATEE RIVER NR FT. LONESOME, FL	203
Total annual flow 02399500-LITTLE MANATEE RIVER NR WIMAUMA, FL	204
Average monthly flow 02399500-LITTLE MANATEE RIVER NR WIMAUMA, FL	204
Total annual flow 02300530-CYPRESS CREEK NEAR WIMAUMA, FL	205
Average monthly flow 02300530-CYPRESS CREEK NEAR WIMAUMA, FL	205
Total annual flow 02300700-BULLFROG CREEK NR WIMAUMA, FL	206
Average monthly flow 02300700-BULLFROG CREEK NR WIMAUMA, FL	206
Total annual flow 02301000-NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL	207
Average monthly flow 02301000-NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL	207
Total annual flow 02301300-SOUTH PRONG ALAFIA RIVER NR LITHIA, FL	208
Average monthly flow 02301300-SOUTH PRONG ALAFIA RIVER NR LITHIA, FL	208
Total annual flow 02301350-LITTLE ALAFIA RIVER NR HOPEWELL, FL	209
Average monthly flow 02301350-LITTLE ALAFIA RIVER NR HOPEWELL, FL	209
Total annual flow 02301500-ALAFIA RIVER AT LITHIA, FL	210
Average monthly flow 02301500-ALAFIA RIVER AT LITHIA, FL	210
Total annual flow 02301750-DELANEY CREEK NEAR TAMPA, FL	211
Average monthly flow 02301750-DELANEY CREEK NEAR TAMPA, FL	211
Total annual flow 02301800-SIXMILE CREEK AT TAMPA, FL	212
Average monthly flow 02301800-SIXMILE CREEK AT TAMPA, FL	212
Total annual flow 02301802-TAMPA BYPASS CANAL AT S-160, AT TAMPA, FL	213
Average monthly flow 02301802-TAMPA BYPASS CANAL AT S-160, AT TAMPA, FL	213
Total annual flow 023001900-FOX BRANCH NEAR SOCRUM, FL	214
Average monthly flow 023001900-FOX BRANCH NEAR SOCRUM, FL	214
Total annual flow 02301990-HILLSB. R AB CRYSTAL SPRINGS NR ZEPHYRILLS, FL	215
Average monthly flow 02301990-HILLSB. R AB CRYSTAL SPRINGS NR ZEPHYRILLS, FL	215
Total annual flow 02302500-BLACKWATER CREEK NR KNIGHTS, FL	216
Average monthly flow 02302500-BLACKWATER CREEK NR KNIGHTS, FL	216
Total annual flow 02303000-HILLSBOROUGH RIVER NR ZEPHYRHILLS, FL	217
Average monthly flow 02303000-HILLSBOROUGH RIVER NR ZEPHYRHILLS, FL	217
Total annual flow 02303100-NEW RIVER NR ZEPHYRHILLS, FL	218

Appendix B: (continued)

Average monthly flow 02303100-NEW RIVER NR ZEPHYRHILLS, FL	218
Total annual flow 02303300-FLINT CREEK NR THONOTOSASSA, FL	219
Average monthly flow 02303300-FLINT CREEK NR THONOTOSASSA, FL	219
Total annual flow 02303330-HILLSBOROUGH R AT MORRIS BR NR THONOTOSASSA, FL	220
Average monthly flow 02303330-HILLSBOROUGH R AT MORRIS BR NR THONOTOSASSA, FL	220
Total annual flow 02303350-TROUT CREEK NR SULPHUR SPRINGS, FL	221
Average monthly flow 02303350-TROUT CREEK NR SULPHUR SPRINGS, FL	221
Total annual flow 02303400-CYPRESS CREEK NR SAN ANTONIO, FL	222
Average monthly flow 02303400-CYPRESS CREEK NR SAN ANTONIO, FL	222
Total annual flow 02303420-CYPRESS CREEK AT WORTHINGTON GARDENS, FL	223
Average monthly flow 02303420-CYPRESS CREEK AT WORTHINGTON GARDENS, FL ..	223
Total annual flow 02303800-CYPRESS CREEK NR SULPHUR SPRINGS, FL	224
Average monthly flow 02303800-CYPRESS CREEK NR SULPHUR SPRINGS, FL	224
Total annual flow 02304500-HILLSBOROUGH RIVER NR TAMPA, FL	225
Average monthly flow 02304500-HILLSBOROUGH RIVER NR TAMPA, FL	225
Total annual flow 02305500-DR DITCH AT BEARRS AVE NR SULPHUR SPRINGS, FL ...	226
Average monthly flow 02305500-DR DITCH AT BEARRS AVE NR SULPHUR SPRINGS, FL	226
Total annual flow 02306000-SULPHUR SPRINGS AT SULPHUR SPRINGS, FL	227
Average monthly flow 02306000-SULPHUR SPRINGS AT SULPHUR SPRINGS, FL	227
Total annual flow 02306289-LAKE MAGDALENE OUTLET NR LUTZ, FL	228
Average monthly flow 02306289-LAKE MAGDALENE OUTLET NR LUTZ, FL	228
Total annual flow 02306500-SWEETWATER CREEK NR SULPHUR SPRINGS, FL	229
Average monthly flow 02306500-SWEETWATER CREEK NR SULPHUR SPRINGS, FL	229
Total annual flow 02306647-SWEETWATER CREEK NR TAMPA, FL	230
Average monthly flow 02306647-SWEETWATER CREEK NR TAMPA, FL	230
Total annual flow 02306774-ROCKY CREEK AT ST HWY 587 AT CITRUS PARK, FL	231
Average monthly flow 02306774-ROCKY CREEK AT ST HWY 587 AT CITRUS PARK, FL .	231
Total annual flow 02307000-ROCKY CREEK NR SULPHUR SPRINGS, FL	232
Average monthly flow 02307000-ROCKY CREEK NR SULPHUR SPRINGS, FL	232
Total annual flow 02307200-BROOKER CREEK @ VAN DYKE ROAD NR CITRUS PARK, FL	233
Average monthly flow 02307200-BROOKER CREEK @ VAN DYKE ROAD NR CITRUS PARK, FL	233

Appendix D: (continued)

Total annual flow 02307248-BROOKER CREEK NR ODESSA, FL	234
Average monthly flow 02307248-BROOKER CREEK NR ODESSA, FL	234
Total annual flow 02307323-BROOKER CREEK NR LAKE FERN, FL	235
Average monthly flow 02307323-BROOKER CREEK NR LAKE FERN, FL	235
Total annual flow 02307359-BROOKER CREEK NR TARPON SPRINGS, FL	236
Average monthly flow 02307359-BROOKER CREEK NR TARPON SPRINGS, FL	236
Total annual flow 02307498-LAKE TARPON CANAL AT S-551, NR OLDSMAR, FL	237
Average monthly flow 02307498-LAKE TARPON CANAL AT S-551, NR OLDSMAR, FL ...	237
Total annual flow 02307697-ALLIGATOR CREEK AT SAFETY HARBOR, FL	238
Average monthly flow 02307697-ALLIGATOR CREEK AT SAFETY HARBOR, FL	238
Total annual flow 02308889-SEMINOLE LAKE OUTLET NR LARGO, FL	239
Average monthly flow 02308889-SEMINOLE LAKE OUTLET NR LARGO, FL	239
Total annual flow 02309848-SOUTH BRANCH ANCLOTE RIVER NR ODESSA, FL	240
Average monthly flow 02309848-SOUTH BRANCH ANCLOTE RIVER NR ODESSA, FL ...	240
Total annual flow 022309980-ANCLOTE RIVER NR ODESSA, FL	241
Average monthly flow 022309980-ANCLOTE RIVER NR ODESSA, FL	241
Total annual flow 02310000-ANCLOTE RIVER NR ELFERS, FL	242
Average monthly flow 02310000-ANCLOTE RIVER NR ELFERS, FL	242
Total annual flow 02310147-HOLLIN CREEK NEAR TARPON SPRINGS, FL	243
Average monthly flow 02310147-HOLLIN CREEK NEAR TARPON SPRINGS, FL	243
Total annual flow 02310240-JUMPING GULLY AT LOYCE, FL	244
Average monthly flow 02310240-JUMPING GULLY AT LOYCE, FL	244
Total annual flow 02310280-PITHLACHASCOTEE RIVER NR FIVAY JUNCTION, FL	245
Average monthly flow 02310280-PITHLACHASCOTEE RIVER NR FIVAY JUNCTION, FL ..	245
Total annual flow 02310300-PITHLACHASCOTEE RIVER NR NEW PORT RICHEY, FL ...	246
Average monthly flow 02310300-PITHLACHASCOTEE RIVER NR NEW PORT RICHEY, FL	246
Total annual flow 02310750-CRYSTAL RIVER NR CRYSTAL RIVER, FL	247
Average monthly flow 02310750-CRYSTAL RIVER NR CRYSTAL RIVER, FL	247
Total annual flow 02310800-WITHLACOOCHEE RIVER NR EVA, FL	248
Average monthly flow 02310800-WITHLACOOCHEE RIVER NR EVA, FL	248
Total annual flow 02310947-WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL	249
Average monthly flow 02310947-WITHLACOOCHEE RIVER NEAR CUMPRESSCO, FL ...	249
Total annual flow 02311000-WITHLACOOCHEE-HILLSBOROUGH OV NR RICHLAND, FL	250
Average monthly flow 02311000-WITHLACOOCHEE-HILLSBOROUGH OV NR RICHLAND, FL	250