Appendix A
Basin Inventory Summary

BASIN INVENTORY SUMMARY

Pinellas County is divided into 52 individual watersheds. The following Basin Inventory Summary includes information on existing and future land uses, responsible jurisdictions, and the status of current watershed planning efforts.

ANCLOTE RIVER WATERSHED #1

Basin Description

The Anclote River watershed is located in the northernmost portion of Pinellas County, Hillsborough County and Pasco County, with approximately 8,750 acres of the basin located in Pinellas County, and 5,421 acres in the unincorporated area. It contains most of the City of Tarpon Springs as well as much of the undeveloped land east of U.S. Highway 19. The basin is approximately 62 percent developed. Most of the basin's existing industrial and high density commercial land use is found in the City of Tarpon Springs and along U.S. Highway 19. The land to the east of U.S. 19, particularly the northeastern section of the County, contains several environmentally sensitive areas including the Trinity property and the northern section of the Brooker Creek Preserve. The river has vast areas of undeveloped shoreline containing emergent and shoreline vegetation. These features, in addition to relatively good water quality in the river, make this area an important habitat for birds and fish. All of the land in the basin to the east of County Road 611 is considered a well field protection area. Due to the environmentally sensitive nature of this area, most of the land is either used for low density single family housing or preservation purposes. Although this basin contains some of the few remaining acres of developable land in the County, the Future Land Use Map indicates that the northeastern portion of Pinellas County will be utilized as either low density residential rural, recreation/open space, or preservation land. The major outfall covered in this study is a tributary of the Anclote River northeast of Lake Tarpon which outlets through Tarpon Springs to the Gulf of Mexico. The tributary flows to the northwest and is approximately 1.4 miles in length with 1,230 acres of flatland in the drainage area. The majority of the soil in this basin has a medium permeability rating and there are many natural water storage areas, some up to 50 acres in size, which make this basin floodprone.

KLOSTERMAN BAYOU WATERSHED #2

Basin Description

The Klosterman Bayou watershed is located in northeast Pinellas County west of Lake Tarpon, and includes part of the southernmost area of the City of Tarpon Springs. It contains approximately 2,000 acres of land, most of which is designated on the Future Land Use Map as residential low, residential medium, recreation/open space, industrial limited, and commercial general. Approximately 1,820 acres lie within the unincorporated area of the County. 47 percent of the basin is developed, with most of the development occurring in the peripheral areas. The central portion of the basin consists of the North County Wastewater Treatment Plant and a large residential/golf course complex. These are designated as transportation/utility, residential low and recreation/open space respectively on the Future Land Use Map. The major outfall flows to the northwest and, with its one major tributary, totals 0.5

mile in length. The outlet is into the Gulf of Mexico just south of the City of Tarpon Springs. The majority of the soil has a high permeability rating and there are many natural water storage areas, some as large as 20 acres, in the flat central area of the basin. The northernmost 200 acres of the basin is a natural depression, and stormwater runoff in this area cannot outlet to any other part of the basin.

LAKE TARPON WATERSHED #3

Basin Description

The Lake Tarpon watershed is located in north central Pinellas County. Part of the City of Tarpon Springs is located in the northwest basin region. Lake Tarpon (2,534 acres) comprises the central basin area and is approximately 60 percent developed along its shoreline. The watershed is primarily urbanized, and contains approximately 7,000 acres of land (not including the Lake itself). During 1975 several major developments were approved almost doubling the amount of development in the watershed in a short period of time. Development on the west shore of Lake Tarpon is now approximately 68 percent complete with most land designated on the Future Land Use Map as residential urban, residential low, recreation/open space, preservation, and commercial along U.S. Highway 19. Many of the large tracts of developable land remaining are located in the east Lake Tarpon area of the County. This area has less development than the western basin with approximately 35 percent of the waterfront land being developed. Most of this land falls into the residential low, recreation/open space and preservation categories on the Future Land Use Map. Despite anticipated low density residential development on the eastern shore of Lake Tarpon, the majority of the shoreline will remain largely undeveloped in the form of emergent vegetation and submerged native grasses designated as preservation and recreation/open space land uses on the Future Land Use Map. No outfalls in the basin drain more than one square mile. Soils in the steep sloping west basin area have a high permeability rating with a few natural water storage areas.

Soil in the flat east basin area has a medium permeability rating with many natural water storage areas, thus making much of this area flood prone. There are no major drainage outfalls in this basin, hence only a few structural improvements are recommended under this Plan. Lake Tarpon itself has been improved by isolating the source of saltwater intrusion from the Gulf, and construction of an outfall canal in 1967 by the Corps of Engineers. The outfall canal is designed for a flow of 2,000 c.f.s. (cubic feet/second) and is equipped with a plug-type overflow structure to prevent saltwater intrusion from Old Tampa Bay. These gated weirs control discharge into Safety Harbor via the Lake Tarpon outfall canal. A Watershed Management Plan for Lake Tarpon has been completed and some projects have also been completed to address stormwater pollution issues within the watershed. Water quality in Lake Tarpon has seen some improvement since the implementation of the Plan and is expected to see more improvement as additional stormwater projects are completed.

BROOKER CREEK WATERSHED #4

Basin Description

Brooker Creek is located in Hillsborough County and northeastern Pinellas County east of East Lake Road, with approximately 10,000 acres of mostly undeveloped land located within Pinellas County. The Brooker Creek basin has some development, cypress swamps, and

upland areas. The acres of undeveloped forested wetlands in the basin along with good water quality through most sections of the creek support large bird, fish and reptile populations. The eastern section of this watershed consists primarily of public lands known as the Brooker Creek Preserve. The Preserve, which encompasses portions of six hydrologic basins, has been established by the Pinellas County Board of County Commissioners to preserve Florida's native flora and fauna. A Management Plan has been developed for the Preserve. As part of the Management Plan, construction of buildings and facilities will be restricted in order to preserve the surrounding habitat. The remainder of the basin contains several environmentally sensitive areas including the Hovnanian and Woodfield properties and consists primarily of residential low, recreation/open space and preservation land on the Future Land Use Map. The basin is approximately 30 percent developed. The entire basin has a flat terrain with many natural water storage areas, making the watershed flood prone. The major outfall is to the southwest into Lake Tarpon at Chestnut Park approximately 1/2 mile north of the Lake Tarpon outfall canal. Most of the basin soil has a medium permeability rating. Pinellas County has two major wellfields east of Lake Tarpon and of primary concern is the recharge area for this public water supply source, as well as the survival of the existing natural vegetation. As such, the basin is part of the Pinellas County Wellhead Protection Area and is subject to development restrictions. Due to these considerations, it is expected this area will remain largely undeveloped. Consideration should be given to aquifer recharge and water conservation in this basin. In 2004, Pinellas County entered into an agreement with SWFWMD to complete a Watershed Management Plan for the Brooker Creek watershed. This plan will address both water quality and flooding issues and is expected to be completed in 2008.

OLDSMAR WATERSHED #5

Basin Description

Oldsmar watershed is located in Pinellas and Hillsborough Counties, and the City of Oldsmar lies within its watershed boundaries. Approximately 2,300 acres of the watershed are in Pinellas County, 25% of which is located within the unincorporated area, with the land designated on the Future Land Use Map as an urban mix of residential low to residential medium density categories, industrial limited, recreation/open space, preservation, commercial general, and transportation/utility. Approximately 71 percent of the area is developed. The Mobbly Bay Tidal Swamp is an environmentally sensitive area located at the southern tip of the watershed. This area has been designated as preservation land on the Future Land Use Plan and will remain undeveloped. Most of the soil has a medium permeability rating, and many natural storage areas can be found in the flat northern half of the basin, making most of this area floodprone. The major outfalls and tributaries total 2.3 miles in length, and outlet into Safety Harbor. The major outfalls through the Oldsmar area were extended to State Road 584, since the area north of the road is either undeveloped or has been developed as large-scale planned unit developments, extending to and bordering the highway. With this type of development north of State Road 584, drainage and storage of runoff should be accomplished as an integrated plan for large segments of this area.

SOUTH CREEK WATERSHED #6

Basin Description

South Creek watershed is located in the east central area of Pinellas County just south of Lake Tarpon and is located mostly in the unincorporated area, with small portions falling within the jurisdiction of Clearwater and Oldsmar. The primarily urbanized basin contains approximately 2,800 acres, 800 of which drain through the basin's major outfall and one tributary, and 2,600 of which are located within the unincorporated area. The basin is approximately 79 percent developed. The existing land use consists of low and high density residential, commercial, and conservation / preservation along the tributary leading to the Lake Tarpon outfall canal. Most of the land is designated residential low on the Future Land Use Map, with the exception of residential urban and residential/office/retail activity along U.S. Highway 19. The preservation designation indicated on the Future Land Use Map will restrict development of the environmentally sensitive Cow Branch property located in the eastern section of the basin. The major outfall and tributary are 2.3 miles in length and flow through the basin to the east, outletting into the Lake Tarpon outfall canal in the freshwater section, approximately 1-1/4 miles north of the salinity control structure. South Creek in the southwest is the second discharge point. The soil in the western half of the basin has a high permeability rating, while the eastern half has a medium permeability rating. A few small (1 to 3 acres) natural water storage areas are located in the major outfall drainage area. The central portion of the basin has a steep sloping terrain. The terrain in the upper and lower portion of the basin is fairly flat. A natural depression, approximately 230 acres in area, is located in the southwest portion of the basin and retains all runoff in this area. Lake St. George is located east of this depression. Lake St. George is approximately 65 acres in area and outfalls to the Lake Tarpon outfall canal about a half mile south of the basin's major outfall.

SUTHERLAND BAYOU WATERSHED #7

Basin Description

Sutherland Bayou watershed is located in northern Pinellas County and lies entirely within the unincorporated area. The basin consists of approximately 1,500 acres, most of which is designated on the Future Land Use Map as residential low, and commercial general along Alternate U.S. Highway 19. The existing area predominantly consists of single family housing and is approximately 87 percent developed. Most of the watershed is gently sloping, except for the steep sloping southeast area. Most of the soil has a medium permeability rating. Almost all of the area east of Alternate 19 can be considered a natural depression which retains all runoff. The major outfall is about 0.7 mile in length and outlets into Sutherland Bayou. Large areas within the basin, which drain to natural depressions instead of to the major outfall, will require sizeable storage sites in the sump areas upon development. These storage sites should have sufficient capacity to handle a 100-year flood with some means of overflow, if possible, and adequate freeboard to contain concurrent 25-year storms.

SMITH BAYOU WATERSHED #8

Basin Description

Smith Bayou watershed is located in the northwest area of Pinellas County and contains about 1,840 acres of land, most of which is designated on the Future Land Use Map as residential low with an urban mix including commercial general, industrial limited, and recreation/open space categories of land use. Approximately 89 percent of the area is developed. Part of the City of Dunedin is included in the southernmost part of the basin. There is a single outfall in the basin approximately 2.7 miles in length that outlets into the Gulf of Mexico. Most of the terrain is fairly steep and sloping, except for the flatter northeast areas. A majority of the basin soil has a high permeability rating, and a few natural water storage areas, generally 3 to 7 acres each, can be found along the uppermost areas of the outfall. There is a natural depression of approximately 100 acres in the south central area, and one of approximately 30 acres in the northeast area. They retain all runoff and do not outlet to any other basin area.

CEDAR CREEK WATERSHED #9

Basin Description

Cedar Creek watershed is located in the northwest area of Pinellas County and is contained entirely within the City of Dunedin. There are approximately 1,230 acres of land, most of which is designated on the Future Land Use Map as residential low, institutional, and recreation/open space, but with residential medium and commercial general along Main Street. The existing land use conditions are such that the basin can be considered to be approximately 85 percent developed. The major outfall and its one tributary total 2.1 miles in length and flow to the west through Hammock Park before outletting into St. Joseph Sound just south of Michigan Boulevard. A majority of the basin's soil has a high permeability rating, and a few natural water storage areas, generally 1-3 acres, can be found in the middle and upper reaches of the basin. The terrain is steep sloping in the easternmost portions of the basin, and gradually becomes almost flat at the basin outlet. Channel improvement and storage ponds are considered high priority in the upper reaches of the basin, although there is limited right-of-way available. The downstream reaches drain through a city park area and flooding in low areas is expected.

CURLEW CREEK WATERSHED #10

Basin Description

Curlew Creek watershed is located in north central Pinellas County and includes parts of the Cities of Clearwater and Dunedin. The basin contains approximately 6,700 acres, which is designated on the Future Land Use Map as an urban mix containing residential low to residential medium, residential/office/retail, commercial general, recreation/open space and preservation land uses. The basin is approximately 87 percent developed. There are three tributaries to the major outfall. The total length of channel is 11 miles. The outlet is into St. Joseph Sound just south of State Road 586. Most of the soil in the basin has a medium permeability rating, and there are many small (1 to 5 acres) natural water storage areas located throughout the basin. Jerry Lake (approximately 60 acres) is located on the main channel in the southwest basin area. The southeast basin area is flat and the remainder of the basin is fairly steep sloping. The need for additional storage in the upper reaches of the major

channels is of a high priority in this basin. This is due to the effort to reduce peak flows in the constricted downstream reaches.

POSSUM BRANCH WATERSHED #11

Basin Description

Possum Branch watershed is located in the northeastern area of Pinellas County. Part of the City of Safety Harbor and the City of Clearwater, Countryside area are located in the basin. The basin contains approximately 1,900 acres of land, most of which is designated on the Future Land Use Map as residential low and urban categories, recreation/open space and public/semi-public. Approximately 64 percent of the basin has been developed. The Lake Tarpon outfall canal drains through the east portion of the basin. The main outfall has one tributary totaling 1.3 miles in length and draining 635 acres. They join in a tidal marsh area 1/4 mile west of the Lake Tarpon outfall canal and flow northeast into the salt water area of the canal approximately 3/4 of a mile south of the salinity control structure. Most of the basin has a medium permeability rating and several natural water storage areas, from 1 to 2 acres, can be found in the major outfall drainage area. The entire basin has a steep sloping terrain.

BISHOP CREEK WATERSHED #12

Basin Description

Bishop Creek watershed is located in east central Pinellas County and includes portions of the Cities of Safety Harbor and Clearwater. It contains approximately 875 acres of land which are designated on the Future Land Use Map as mostly residential low with some residential medium and high, and preservation areas. The basin is approximately 93 percent developed and has a terrain varying from steep sloping at the upper and lower ends, to gently sloping in the central area. It has two major outfalls flowing west to east that total 3.3 miles and join just west of State Road 590 before emptying into Tampa Bay. A medium permeability rating is given to most of the soil in the basin, and a few natural water storage areas ranging from one to two acres can be found in the upper basin reaches. While a watershed management plan has not yet been completed for this watershed, a basin study has been developed to address flooding issues and project lists have been created.

MULLET CREEK WATERSHED #13

Basin Description

Mullet Creek watershed is located in east central Pinellas County and includes areas of the Cities of Safety Harbor and Clearwater. There are approximately 1,950 acres of land in this basin, most of which is designated on the Future Land Use Map as residential low, residential suburban, industrial limited, recreation/open space, preservation, and public/semi-public. The City of Safety Harbor Comprehensive Plan also recognizes the Safety Harbor Downtown Redevelopment Area within the basin. Approximately 79 percent of the basin is developed, with most of the development located in the southeast basin area. There is one main outfall channel and one tributary, totaling 3 miles in length, with the major channel outletting into

Safety Harbor through the center of the City of Safety Harbor. The basin terrain varies from steep slopes at the upper and lower end, to very flat slopes in the central area. Most of the soil has a medium permeability rating, and there are many natural water storage areas in the basin with the larger ones, up to 20 acres, located in the central basin region. Due to the current developments along this outfall, particularly in the upper reaches, and due to the presence of natural storage areas which are flood prone, an effort should be made to secure remaining natural areas for future storage. A basin study has been completed for this watershed to address flooding issues, and project lists have been revised, but a watershed management plan has yet to be developed.

ALLIGATOR CREEK WATERSHED #14

Basin Description

Alligator Creek watershed is located in central Pinellas County and includes part of the Cities of Clearwater and Safety Harbor. The basin contains approximately 5,600 acres of land, most of which is designated on the Future Land Use Map as residential low with an urban mix including residential medium, commercial general, recreation/open space, preservation and industrial general. About 84 percent of the basin is developed. Three tributaries join the major outfall and total 8.2 miles in length. The outlet of Alligator Creek is into Alligator Lake, located within the southern limits of Safety Harbor and outletting into Old Tampa Bay. Most of the soil in the upper three-quarters of the basin has a medium permeability rating, while the remainder of the soil has a high permeability rating. There are many natural water storage areas ranging in size from 1 to 4 acres located throughout the entire basin. Lake Chautauqua, 58 acres, Lake Beckett, 16 acres, and Harbor Lake, 39 acres, are located in the upper reaches of the basin. The basin terrain in the north, west and central areas is flat with the remainder of the terrain being fairly steep. A number of stormwater management projects have been completed for this basin, and a watershed management plan has been completed through a partnership between Pinellas County, the City of Clearwater, the City of Safety Harbor and SWFWMD.

SPRING BRANCH - STEVENSON'S CREEK WATERSHED #15

Basin Description

Spring Branch - Stevenson's Creek watershed is located in west central Pinellas County, and includes part of the City of Dunedin in its upper reaches and Clearwater in its lower reaches. There are approximately 2,100 acres of land in the basin, most of which is designated residential urban, and residential medium with some residential high, commercial and public/semi-public. The basin is approximately 91 percent developed. Most of the undeveloped area is located in the central basin region. The basin has one major outfall approximately 4 miles in length which flows north to south and empties into Stevenson's Creek outlet to St. Joseph Sound. The permeability of the basin soil is not measurable in the lower basin areas due to the amount of development there. Permeability varies from medium to high in the upper basin area. Several small natural water storage areas, up to 5 acres in size, can be found in the upper basin reaches. The basin terrain is very steep in the easternmost area and gradually becomes flatter in the westernmost area. There are some existing man-made and natural ponding areas which should be retained for storage. In addition, storage sites in

proposed developments should limit runoff. Improvements through the center portion of the basin, between State Road 580 and Union Street, have a high priority, but the areas downstream of Union Street are of a higher priority.

COASTAL ZONE 4 WATERSHED #16

Basin Description

Coastal Zone 4 watershed is located in east central Pinellas County and includes part of the City of Dunedin. The basin contains approximately 870 acres of land, most of which is designated on the Future Land Use Map as residential urban, residential medium, commercial general, district, industrial limited, and industrial general. The City of Dunedin recognizes the City of Dunedin Community Redevelopment District within the basin. The basin is almost completely developed, with only 10 percent of the land vacant. The terrain is generally steep sloping to the west, and runoff is collected in minor outfall systems that empty into St. Joseph Sound. No outfall system drains more than one square mile.

COASTAL ZONE 1 WATERSHED #17

Basin Description

Coastal Zone 1 watershed is in the west central area of Pinellas County. Included in this basin are portions of the Cities of Largo, Clearwater, and Belleair Bluffs, and most of the Town of Belleair. The basin contains approximately 2,840 acres of land, most of which is designated on the Future Land Use Map as residential urban, central business district, institutional, residential medium, recreation/open space, industrial and commercial general. The major outfall has one tributary totaling approximately 1.4 miles in length. At its outlet, the main channel flows to the northwest and empties into Clearwater Harbor just south of Coe Road. The major outfall drains about 900 acres, all of which can be considered fully developed. Most of the area is developed to such a stage that permeability cannot be measured; however, the basin soil in the open areas such as golf courses and parks, has a medium permeability rating. A few natural water storage areas are located in the basin and range from 1 to 2 acres. In total, approximately 80 percent of the basin is developed. The basin terrain varies from gently sloping in the southwest portion to steep and very steep sloping in the southeast and north portions. Due to flooding in this basin, improvements along the major outfall are considered to be high priority. Equal priority should be given to storage sites in the upstream areas east and west of the railroad and along the golf course.

STEVENSON'S CREEK WATERSHED #18

Basin Description

Stevenson's Creek watershed is located in west central Pinellas County and lies within the City of Clearwater. The basin contains approximately 3,900 acres of land, much of which is designated on the Future Land Use Map as an urban mix of residential low, medium, and urban, commercial general, recreation/open space and public/semi-public. The City of Clearwater Comprehensive Plan recognizes the City of Clearwater Central Business District

future land use designation within this basin. Since development is about 89 percent complete, an accurate overall soil permeability rating cannot be determined. The major outfall and its tributaries total 3.4 miles in length and generally flow to the north over steep sloping terrain, outletting into Clearwater Harbor just south of Sunset Point Road (State Road 588). Many small (1 to 3 acres) natural water storage areas are located throughout the basin, and one large storage area (Lake Bellevue, 25 acres) is located in the southwest region. The City of Clearwater has completed a Watershed Management Plan for this basin and projects have begun to be implemented.

ALLEN'S CREEK WATERSHED #19

Basin Description

Allen's Creek watershed is located in the central area of Pinellas County and includes parts of the Cities of Clearwater and Largo within its boundaries. The major outfall and tributaries total about 6.5 miles in length and drain 4,800 acres (Allen's Creek Watershed Management Plan, 1993). The major outfall flows to the east and outlets just east of U.S. Highway 19. Much of the land is designated on the Future Land Use Map as residential low, but also contains an urban mix of residential urban and medium, commercial general, preservation, recreation/open space, and public/semi - public. The development of the area is about 88 percent complete. Approximately half of the basin (46.4 percent) is made of impervious surface (Allen's Creek Watershed Management Plan, 1993). The basin's soil permeability cannot be measured accurately due to the amount of land developed. Several medium-size natural water storage areas (3 to 10 acres) are located in the upper reaches of the basin, and the terrain slopes gently eastward to the tidal marshes of Old Tampa Bay from the steep sloping central and north central portions known as the Pinellas Ridge. In the 1990's Allen's Creek was the subject of a major watershed planning initiative by Pinellas County, and the Cities of Clearwater and Largo. A Watershed Management Plan was developed to relieve existing flooding conditions and improve the water quality of the watershed. The Watershed Management Plan was completed for Allen's Creek in 1996. Improvements throughout most of this basin have had a high priority because of the development in the headwater areas. In downstream areas, development has occurred in the floodplain adjacent to the major channel, using retaining walls in some cases. Numerous improvements are necessary including provisions for detention ponds. While a number of projects have been completed in the watershed, significant improvements in water quality have not yet been seen. Additional projects are planned for the future to restore the natural habitat of the watershed and improve the quality of the environment in both the creek and the receiving waters.

COASTAL ZONE 2 WATERSHED #20

Basin Description

The Coastal Zone 2 watershed is located in central Pinellas County and lies entirely within the City of Clearwater. Most of the basin's 860 acres are designated on the Future Land Use Map as residential low, medium, urban, and high, recreation/open space, and residential/office general and commercial general along U.S. Highway 19. Development is about 92 percent complete and most of the soil has a medium permeability rating. Runoff in the basin is distributed to minor outfall systems that outlet into Old Tampa Bay, with none being greater

than 1 square mile in drainage area. There are no major drainage outfalls in this basin and no improvements are recommended under this plan.

COASTAL ZONE 3 WATERSHED #21

Basin Description

Coastal Zone 3 watershed is located in central Pinellas County and lies entirely within the City of Clearwater. Most of the basin's 1,700 acres are designated on the Future Land Use Map as residential urban, medium, low medium, residential low, commercial general, institutional, residential/office/retail and recreation/open space. Development is approximately 85 percent complete, and most of the soil has a medium permeability rating. Runoff in the basin is distributed to minor outfall systems, none being greater than one square mile in drainage area, that outlet into Old Tampa Bay.

LONG BRANCH WATERSHED #22

Basin Description

Long Branch watershed is located in the central area of Pinellas County. It contains approximately 1,800 acres of land, most of which is designated on the Future Land Use Map as residential low, urban, low medium and medium, residential/office general, commercial general and public/semi-public. The land is approximately 87 percent developed. Part of the City of Largo is located in the western portions of the basin. The major outfall flows to the northeast and, with its one major tributary, totals approximately 3.5 miles in length. The outlet is into Old Tampa Bay. Almost all of the basin soil has a medium permeability rating and a few natural water storage areas, one to three acres in area, are located in subdivisions in the upper reaches of the basin. The entire basin has the same gently sloping terrain. It is apparent that development is encroaching into natural storage and flood plain areas, and flooding is a frequent occurrence throughout the basin. Because the basin is situated in a flat low-lying area, the need for improvements and effective storage sites has a high priority.

ROOSEVELT WATERSHED #23

Basin Description

Roosevelt watershed is located in east central Pinellas County and contains parts of the Cities of Pinellas Park and St. Petersburg. Most of the basin's 8,000 acres is designated on the Future Land Use Map as industrial limited and transportation /utility, with lesser amounts of residential urban, low medium and medium, residential/office general, commercial recreation, recreation/open space and preservation. The presence of the St. Petersburg-Clearwater International Airport and related industrial activities, along with the northern section of the environmentally sensitive Gateway parcels will result in minimal development occurring along the Tampa Bay shoreline. Development of the basin is approximately 60 percent complete. Three separate major outfalls, totaling 9.5 miles in length, drain 5,000 acres of the watershed and outlet into Old Tampa Bay. Soil in the basin generally has a medium permeability rating. The terrain is flat with many natural water storage areas located throughout the basin. Due to its low elevation, most of the northeast area is flood prone. Because of zoning and lack of

adequate drainage, development has been limited to a few high areas in the periphery of the basin. Also, extensive highway construction, gravel quarrying and landfill operations have occupied a good portion of the land. Adequate culvert capacity has been provided at most of the major highways which cross the basin. Improvement to the major drainage systems is a matter of providing the necessary channels to carry the water to and from highway crossings.

Roosevelt basin is currently the site of significant discussion regarding water quality. The basin may be the recipient of a TMDL in the future and the County, with municipal partners, has begun the process of developing a Watershed Management Plan for the basin, to guide future development and to take steps so that the quality of the surface water in the basin does not decline, but improves. As of 2007, this plan is one of the highest priorities on the list of Watershed Management Plans to be developed and implemented, along with the Starkey basin Watershed Management Plan.

CROSS BAYOU WATERSHED #24

Basin Description

Cross Bayou Canal watershed is located in the south central area of Pinellas County and includes parts of the Cities of Largo and Pinellas Park. The canal connects Old Tampa Bay on the east shore of the county, to Boca Ciega Bay on the southwest shore of the County. Water can flow in either direction depending on tidal conditions in the two bays. The major outfall and its tributaries total about 10.5 miles in length and drain approximately 7,700 acres. This land is designated on the Future Land Use Map as industrial limited, residential low, urban, low medium and medium, recreation/open space, preservation and public/semi- public. About 84 percent of the basin is developed. The basin soil has a medium permeability rating, and many small natural water storage areas (1 to 3 acres) are located throughout the basin. The entire basin has gently sloping to almost flat terrain, and much of the area adjacent to the canal at its outlet is considered flood prone.

Development of a Watershed Management Plan for Cross Bayou Basin began in 2003. Despite a few setbacks, the plan is anticipated to be completed in late 2007 and implemented soon thereafter. Project lists are under development to determine the best course of action to improve the quality of water within this basin.

STARKEY ROAD WATERSHED #25

Basin Description

Starkey Road watershed is located in central Pinellas County and lies within the City of Largo and unincorporated areas of the County. The basin contains approximately 10,500 acres of land, much of which is designated on the Future Land Use Map as residential low and residential urban, with a complete urban mix of residential low medium and medium, commercial general, industrial general, industrial limited, recreation/open space, preservation and public/semi-public. Approximately 90 percent of the watershed is developed. Most of the development is in the northern region. The southwestern portion of the basin includes the 255 acre Lake Seminole Park. The major outfall and tributaries are 8.1 miles in length and outlet into the Lake Seminole bypass canal located just east of Lake Seminole. Most of the basin soil has a medium permeability rating, and the terrain is steep sloping in the northwest section

and flat to gently sloping in all other sections. The area immediately adjacent to Lake Seminole Bypass Canal is flood prone. The improvements in this basin have a high priority since any remaining land is being rapidly developed, and flooding in the area upstream of Lake Seminole is a problem. With the bypass canal around Lake Seminole providing the outlet, drainage improvements can be made as required to improve upstream channel capacity and to provide runoff storage areas. Pinellas County anticipates beginning the development of a Watershed Management Plan for this basin in the near future. This basin is a high priority for a Plan, because of its current conditions in regards to flooding and water quality.

LAKE SEMINOLE WATERSHED #26

Basin Description

Lake Seminole watershed is located in west central Pinellas County, and includes part of the City of Largo and most of the City of Seminole. Lake Seminole is 747 acres in size. The watershed contains about 5,000 acres of land (Watershed Management in Pinellas County, D. Moores, 1993), much of which is designated on the Future Land Use Map as residential low and residential urban. Most of the land along Seminole Road has been designated commercial general. There is also a complete urban mix of residential low medium, medium and high, commercial general, industrial limited, recreation/open space, preservation and public/semi-public. Approximately 89 percent of the basin is developed, most of which (83 percent) was developed prior to any stormwater regulations (Lake Seminole Diagnostic Feasibility Study, 1992). As in Lake Tarpon, a Watershed Management Plan has been developed for the Lake Seminole watershed. The Watershed Management Plan includes not only watershed management options such as retrofitting stormwater systems, but also lake management tools such as diversion of additional drainage to the lake, draw down and vegetation control. The basin contains soil with a high permeability rating. The major outfalls total 1.9 miles in length and all flow west to east, out letting along the west shoreline of Lake Seminole. Basin terrain is gently sloping in the central area and steep sloping in the west and east areas. The areas north and east of the lake normally drain through the bypass canal directly into Long Bayou, except for any possible overflow into the lake at the north end. The areas draining into Lake Seminole are those on the west side of the lake. Three tributaries draining to the lake were considered as major outfalls. In general, the tributaries have been improved by the County in critical areas. In 2006, a number of projects were completed in and around Lake Seminole to address water quality issues, including the installation of an alum injection system, an aquatic restoration project and the restoration of the southern shoreline of the Lake along Park Boulevard, including the removal of exotic plant species.

McKAY CREEK WATERSHED #27

Basin Description

McKay Creek watershed is located in west central Pinellas County and includes part of the City of Largo, and the Towns of Belleair and Belleair Bluffs. The basin contains approximately 5,640 acres of land, much of which is designated on the Future Land Use Map as residential low and residential urban with a complete urban mix of residential suburban, low medium, medium and high, commercial general, recreation/open space, preservation and public/semi-public. Development of the watershed is 81 percent complete. The central section of the basin contains substantial acreage of developed and undeveloped parkland, including

several specific use recreation areas. Due to these development constraints, significant future development of the basin is unlikely. The major outfall and its one tributary total about 6.2 miles in length and outlet into Clearwater Harbor. Both the Taylor and Walsingham Reservoirs are located along the major outfall. Soils in the central and southern portions of the basin have a medium permeability rating. Development in other areas is such that an accurate overall soil permeability characteristic cannot be determined. Terrain is flat in the south and central regions, with steep to very steep slopes in the remainder of the basin. The priority for making improvements is high in this basin since development has been very extensive in the downstream areas and flooding is a problem. Retaining walls and bottom slope protection will be required in some reaches. Also, some modification of the storage and spillway capacity in Taylor Reservoir is needed to reduce downstream flooding.

COASTAL ZONE 5 WATERSHED #28

Basin Description

Coastal Zone 5 watershed is located in west central Pinellas County and includes part of the City of Largo. The basin contains approximately 4,120 acres of land, much of which is designated on the Future Land Use Map as residential low, with a complete urban mix of residential urban low, low medium, medium and high, commercial general, recreation/open space, preservation and public/semi-public. This basin is about 84 percent developed, with most of the undeveloped land being along the flood prone west shoreline of the basin. Runoff is collected in minor outfall systems throughout the steep sloping terrain, but no outfall system drains more than one square mile. Soil in the northern half of the basin generally has a medium permeability rating. An accurate soil permeability characteristic cannot be determined in the southern half of the basin because of the degree of development there.

PINELLAS PARK DITCH #1 WATERSHED #29

Basin Description

Pinellas Park Ditch #1 watershed is located in the central area of Pinellas County, and most of the watershed is within the city limits of Pinellas Park. Most of the basin's 2,740 acres are designated on the Future Land Use Map as residential urban, including a complete urban mix of residential low, low medium, and medium, commercial general, industrial limited, recreation/open space, preservation and public/semi- public. The City of Pinellas Park Comprehensive Plan recognizes the Pinellas Park Community Redevelopment District future land use designation within this basin. Development of the area is about 88 percent complete. The undeveloped area is in the northwest region. The major outfall and its three tributaries total approximately 4.6 miles in length and outlet into Cross Bayou Canal. Most of the basin soil has a medium permeability rating and a few small (1 to 2 acre) natural water storage areas are located throughout the basin's flat terrain. The priority for making improvements would be medium to high, since the area is low-lying and subject to high water table during the wet season. The available slope for drainage is minimal and all drainage must discharge into the Cross Bayou Canal where slopes are also critical.

SAWGRASS LAKE WATERSHED #30

Basin Description

Sawgrass Lake watershed is located in east central Pinellas County, and parts of the Cities of Pinellas Park and St. Petersburg. The central northern portion of the basin consists of Sawgrass Lake Park (390 acres) and mostly undeveloped vacant land. Sawgrass Lake has a total surface area of 20 acres and has very little developed area along it's shoreline. The herbaceous wetland around the lake provides valuable habitat for many bird and reptile species. Much of the 5,800 acre drainage area is designated on the Future Land Use Map as residential urban, including a complete urban mix of residential low, low medium, medium and high, commercial general, residential/office/retail, industrial limited, recreation/open space, preservation and public/semi-public. Development of the area is about 85 percent complete. The major outfall and its three tributaries total 7.6 miles in length, and outlet into Old Tampa Bay. Soil in the west half of the basin has a medium permeability rating. An accurate soil permeability rating cannot be determined in the remainder of the basin because of the amount of development there. Terrain is fairly steep in the southern basin area, and gently sloping to flat in the remainder. Most of the eastern half of the basin is flood prone. Drainage from Sawgrass Lake flows into Riviera Bay through the Turner Creek ditch. A water control structure located on Sawgrass Park's eastern boundary controls the flow of drainage that is released into Turner Creek. Improvements in the Sawgrass Lake basin, west of the lake, have been previously studied as part of a drainage district plan for Pinellas Park. The lake and the surrounding low natural area were studied separately to determine the storage capacity for drainage of the east portion of Pinellas Park. The outfall from the lake is under improvement by the County. A medium to high priority would be recommended for improvement of outfalls draining into the lake, and some work is still needed to complete the lake outfall to Tampa Bay.

TINNEY CREEK WATERSHED #31

Basin Description

Tinney Creek watershed is located in east central Pinellas County and includes part of the City of St. Petersburg. The basin contains 1,925 acres of land, most of which is designated on the Future Land Use Map as residential urban, medium and low, commercial general and commercial recreation, residential/office general and residential/ office retail, industrial limited, commercial recreation, recreation/open space, preservation, and public/semi-public. The entire basin is in a flood prone area, and development is about 62 percent complete. Most of the eastern section of the basin contains parts of the environmentally sensitive Gateway property and the Weedon Island Wildlife Refuge. These shoreline areas of the basin have been designated preservation and will restrict future development on the basin's Tampa Bay shoreline. The major outfall (1.1 mile in length) flows west to east, drains approximately 600 acres, and outlets into the system of canals northwest of Riviera Bay. Most of the basin soil has a medium permeability rating, and the entire basin has a gently sloping terrain. The need for improvements in this basin has been a relatively high priority because of multi-family residential and commercial development occurring in the flood plain areas. Tidal mangrove areas along the major outfall should be considered for preservation and for natural runoff storage areas. Also, some storage should be provided for the commercial areas.

NORTHEAST ST. PETERSBURG WATERSHED #32

Basin Description

Northeast St. Petersburg watershed is located in southeast Pinellas County and lies entirely within the City of St. Petersburg. The basin contains 2,000 acres of land, 91 percent of which is developed, and most of which is designated on the Future Land Use Map as residential urban, residential medium, commercial general, mixed use residential/office/retail, recreation/open space, preservation, and public/semi-public. The entire basin is within the 100-year floodplain. Soil in the central area has a medium permeability rating, and the terrain is gently sloping to the east. There are no major drainage outfalls in this basin, and no planned improvements are recommended.

70TH AVENUE NORTH CANAL WATERSHED #33

Basin Description

70th Avenue North Canal watershed is located in east central Pinellas County and lies within the City of St. Petersburg. The basin contains approximately 1,170 acres of flat land, much of which is designated on the Future Land Use Map as residential urban, including residential medium, commercial general, residential/office/retail, residential/office general, recreation/open space, preservation, and public/ semi-public. It is approximately 63 percent developed, and lies entirely within the 100-year flood plain area. The majority of the undeveloped land lies in the preservation are along the coastline, and the interior portions of the basin are almost completely developed. The major outfall is 1.5 miles in length and outlets into Pappas Bayou. Due to the degree of development, accurate soil permeability characteristics cannot be determined.

54TH AVENUE EAST CANAL WATERSHED #34

Basin Description

54th Avenue East Canal watershed is located in south central Pinellas County and lies entirely within the City of St. Petersburg. The basin contains approximately 1,650 acres of land, much of which is designated on the Future Land Use Map as residential urban including residential medium, commercial general, residential/office/retail, recreation/open space, preservation, and public/semi-public. The basin outlets into Placido Bayou. The major outfall flows west to east and is about 1.7 miles in length. The eastern half of the basin falls within the 100-year flood plain area and, except in the easternmost area, the basin is almost completely developed with only about 10 percent of the land being vacant. Because of the development, accurate overall soil permeability characteristics cannot be determined.

JOE'S CREEK WATERSHED #35

Basin Description

Joe's Creek watershed is located in south central Pinellas County and includes parts of the Cities of Pinellas Park and St. Petersburg, and all of Kenneth City. The basin contains approximately 9,500 acres of land, much of which is designated on the Future Land Use Map as residential low and residential urban, including a complete urban mix of residential low medium, medium and high, commercial general, mixed use, industrial, recreation/open space, preservation and public/semi-public. The City of Pinellas Park Comprehensive Plan recognizes the Pinellas Park Community Redevelopment District future land use designation

within this basin. The basin is about 94 percent developed. Most of the undeveloped area is located in the low lying northwest corner of the basin where the major outfall empties into Cross Bayou Canal. This section of the basin contains the environmentally sensitive area known as Joe's Creek and will remain undeveloped due to it's designation as preservation land on the Future Land Use Map. The major outfall and its tributaries generally flow east to west, and total 11.2 miles in length. Most of the soil has a medium permeability rating, and many small (1 to 3 acres) natural water storage areas are located throughout subdivisions in the basin. Terrain is gently sloping in the east, steep sloping in the middle, and practically flat in the west basin area. With the intensity of development in this basin, the priority for drainage improvements is high. Channel banks have been developed and this has resulted in limited space for possible improvement. Along the south tributary of Joe's Creek, called Miles Creek, it is estimated that approximately 5,000 feet of seawall will be required to construct the channel improvements through the completely developed residential area. There are no undeveloped areas available for recommending runoff storage sites to reduce the flow on Miles Creek, but three large sites have been purchased by the County and the SWFWMD for flow attenuation on the main channel of Joe's Creek.

LONG BAYOU WATERSHED #36

Basin Description

Long Bayou watershed is in the south central area of Pinellas County along the east shore of Boca Ciega Bay and contains part of the City of St. Petersburg. It has a drainage area of approximately 1,840 acres of land, much of which is designated on the Future Land Use Map as residential urban, including a complete urban mix of residential low, medium and high, commercial general, industrial limited, residential/office general, recreation/open space, preservation, and public/semi-public. The basin is approximately 81 percent developed and most of the basin is flood prone. The soils have a medium permeability rating.

PASADENA LAKE WATERSHED #37

Basin Description

Pasadena Lake watershed is located in southern Pinellas County and lies entirely within the City of St. Petersburg. The basin's 1,180 acres are 93 percent developed and are designated on the Future Land Use Map as residential urban, including residential medium, commercial general, industrial limited, recreation/open space, and public/semi-public. The basin has reached full development. The major outfall is a closed system approximately 1.1 miles in length, which flows westerly over gently sloping terrain from Lake Disston, out letting into Boca Ciega Bay. Because of the degree of development in the basin, an accurate overall soil permeability rating cannot be determined. The outfall is primarily a street drainage system out falling through approximately 1,000 feet of open ditch to Boca Ciega Bay.

SOUTHWEST ST. PETERSBURG WATERSHED #38

Basin Description

St. Petersburg Southwest watershed is located in south Pinellas County and lies within the Cities of South Pasadena and St. Petersburg. The basin contains about 420 acres that are 92 percent developed. Much of the land is designated on the Future Land Use Map as residential

urban but also includes a complete urban mix of residential medium and high, commercial general, recreation/open space, and public/ semi-public. Several minor outfalls outlet to Boca Ciega Bay but none are more than one square mile. Soil in the southwest area has a high permeability rating. The terrain is flat, and about one-half of the basin lies in the 100-year flood plain.

BEAR CREEK WATERSHED #39

Basin Description

Bear Creek watershed is located in southern Pinellas County, and includes parts of the Cities of Gulfport and St. Petersburg. Most of the 2,500 acres of drainage area are designated on the Future Land Use Map as residential urban, including a complete urban mix of residential medium and high, commercial general, residential/ office general, residential/office/retail, recreation/open space, and public/semi-public. Development is approximately 96 percent complete. The major outfall is about 4.2 miles in length and outlets into Boca Ciega Bay just south of Gulfport Boulevard. Because of the amount of development in the area, accurate overall soil permeability characteristics cannot be determined. Basin terrain is steep sloping from north to south. The priority for improvements is high in the downstream reaches of the basin where the creek winds through wooded residential areas. Some flooding occurs along these reaches and a few of the crossings are bottlenecks near the lower end of the creek. Since the basin is completely developed, there is practically no available undeveloped land for storage to reduce peak flows. The upstream sections of the outfall are street drainage systems 54-inch or larger. Drainage improvements in this basin are a low priority.

BOOKER CREEK WATERSHED #40

Basin Description

Booker Creek watershed is located in southeast Pinellas County and lies entirely within the City of St. Petersburg. Of the 3,100 acres in the basin, most of the land is designated on the Future Land Use Map as residential urban but also includes a complete urban mix of residential low medium, medium and high, commercial general, residential/office general, residential /office/retail, industrial limited and general, recreation/open space, and public/semi-public. The St. Petersburg Comprehensive Plan recognizes the Central Business District designation within this watershed. The major outfall is approximately 4.5 miles in length and outlets into Bayboro Harbor. Development in the basin is 92 percent complete. Because of the development, an accurate estimate of the basin permeability cannot be determined. Several storage areas are either existing or under construction along the outfall channel. The basin terrain is gently sloping at its upper end and steep sloping at its lower end.

NORTH COFFEE POT BAYOU WATERSHED #41

Basin Description

North Coffeepot Bayou watershed is in the southeast area of Pinellas County and lies entirely within the City of St. Petersburg. The basin contains 568 acres of land, much of which is designated on the Future Land Use Map as residential urban, including residential medium and high, commercial general, residential/office general, residential/office/retail, recreation/open space and public/semi-public. The basin can be considered to be completely developed. The existing drainage system flows from west to east and outlets into Coffeepot

Bayou. The basin is developed to such an extent that accurate overall soil permeability characteristics cannot be determined.

45TH AVENUE N.E. CANAL WATERSHED #42

Basin Description

45th Avenue Northeast Canal watershed is located in south central Pinellas County and lies entirely within the City of St. Petersburg. The basin contains approximately 1,420 acres of land, much of which is designated on the Future Land Use Map as residential urban, including residential medium and high, commercial general, residential/office general, residential/office/retail, recreation/open space, preservation, and public/semi-public. The major outfall is 2.1 miles in length and outlets into Placido Bayou. The basin is completely developed. Because of this, an accurate estimate of the basin soil permeability cannot be determined. The eastern half of the basin falls within the 100-year floodplain area. The outfall system is essentially complete and no improvements are estimated in this plan. The upper limit of the major outfall was set at 9th Street North, beginning with a drainage area of 310 acres. The upper half of the outfall is enclosed in a box culvert within dedicated street rights-of-way. The lower half is open channel.

COFFEE POT BAYOU WATERSHED #43

Basin Description

Coffeepot Bayou watershed is located in southeast Pinellas County and lies entirely within the steep sloping northeast area of the City of St. Petersburg. Most of the basin's 760 acres are designated on the Future Land Use Map as residential urban, but also includes residential low medium, and residential medium, commercial general, residential/office general, residential/office/retail, recreation/open space, and public/semi-public. Development of the basin is at approximately 94 percent. The basin's major outfall is 1.2 miles in length and flows west to east out letting into Coffeepot Bayou. Because of the amount of development, accurate soil permeability characteristics cannot be determined. The outfall system, as indicated on the City's plan, is completely improved; therefore, no improvements were identified. The upper limit of the major outfall was set at 9th Avenue North, enclosing an upstream area of 246 acres. The upper section of the outfall drains into Crescent, Lake which in turn drains to Coffeepot Bayou.

ALBERT WHITTED WATERSHED #44

Basin Description

Albert Whitted watershed is located in the southeast area of Pinellas County and lies entirely within the City of St. Petersburg and encompasses approximately 1,380 acres. Most of the area is designated on the Future Land Use Map as residential urban, low medium, and medium, commercial general, residential/office/ retail, recreation/open space, preservation and public/semi-public and is approximately 91 percent developed. The City of St. Petersburg Comprehensive Plan recognizes the St. Petersburg Central Business District and Community Redevelopment Area future land use designations in this basin. The major drainage systems are under-ground, flow west to east out letting into Tampa Bay, and do not have a drainage

area of more than one square mile. Because of the development of the area, no soil permeability rating can be determined. There are no major drainage outfalls in this basin, and no improvements are recommended.

34TH STREET WATERSHED #45

Basin Description

34th Street watershed is located in southern Pinellas County and lies entirely within the City of St. Petersburg. The basin contains 1,630 acres, most of which are designated on the Future Land Use Map as residential urban, including a complete urban mix of residential medium and high, commercial general, residential/ office general, residential/office/retail, industrial general, recreation/open space, and public/ semi-public. Development of the watershed is practically complete at 94 percent; therefore, overall soil permeability characteristics cannot be determined. Most of the terrain is steep sloping from north to south. The major outfall is about 3.1 miles in length and outlets into Clam Bayou. The major outfall system is enclosed in box culverts in dedicated street rights-of-way for most of its length. The upper limit was set at 9th Avenue North, in an upstream area of 228 acres. The box culverts are estimated to have sufficient capacity for a 25-year flow.

CLAM BAYOU WATERSHED #46

Basin Description

Clam Bayou watershed is located in south Pinellas County and lies within the Cities of St. Petersburg and Gulfport. Much of the land is designated on the Future Land Use Map as residential urban but also includes residential medium, industrial general, commercial recreation/open space, preservation, and public/semi-public. Development of the basin's 600 acres is approximately 88 percent complete. The main outfall flows from north to south through a steep sloping terrain, and is 1.6 miles in length. Its outlet is located in the easternmost portion of the city of Gulfport. Because of the amount of development in the basin, an accurate overall permeability characteristic of the soil cannot be determined. The improvements recommended are mainly to the structures on the major outfall, with some channel improvement and storage in one reach.

GULFPORT WATERSHED #47

Basin Description

The Gulfport watershed is located in southern Pinellas County and includes part of the City of Gulfport. Approximately 1,800 acres of land are in the watershed, 88 percent of which have been developed. Much of this land is designated on the Future Land Use Map as residential urban, but there is also a complete urban mix of residential low medium, medium and high, commercial general, residential/office/retail, recreation/open space, preservation, and public/semi-public. The City of Gulfport Comprehensive Plan recognizes the Gulfport Community Redevelopment District future land use designation in this basin. The major drainage systems are underground and flow north to south over steep sloping terrain, out letting into Boca Ciega Bay. All of the drainage systems have a drainage area less than one square mile. Because of the degree of development, an accurate soil permeability rating cannot be determined.

FRENCHMAN'S CREEK WATERSHED #48

Basin Description

Frenchman's Creek watershed is located in southern Pinellas County and lies entirely within the City of St. Petersburg. The basin contains approximately 2,400 acres of land, most of which is designated on the Future Land Use Map as residential urban, residential low and medium, commercial general, residential/office general, residential/office/retail, recreation/open space, preservation, and public/semi-public. Development of the area is almost complete at 83 percent. Minor outfalls can be found throughout the basin, none draining more than one square mile. The terrain is gently sloping toward Boca Ciega Bay on the west basin shore.

LAKE MAGGIORE/SALT CREEK WATERSHED #49

Basin Description

Lake Maggiore/Salt Creek watershed is located in southern Pinellas County and lies entirely within the City of St. Petersburg. Most of the basin's 3,060 acres are designated on the Future Land Use Map as residential urban, but there is also a complete urban mix of residential low and medium, commercial general, residential/office general, residential/office/retail, recreation/open space, preservation, and public/semi-public.

The City of St. Petersburg Comprehensive Plan recognizes the St. Petersburg Community Redevelopment Area future land use designation within the basin. Recreation areas are concentrated along the entire southwest shore of Lake Maggiore. Development of the area is approximately 78 percent complete. Lake Maggiore (385 acres) is located in the center of the basin with steep sloping terrain to the north, flat terrain to the west, and gently sloping terrain in the remainder of the area. Soils on the west and south shore of Lake Maggiore are in open areas where permeability is medium to high. The major outfall is about 3.9 miles in length and flows through Lake Maggiore into Bayboro Harbor. The outfall system is essentially complete, and no improvements are recommended in this plan. Salt Creek is the major outfall, and is also the outlet for Lake Maggiore. Upstream of the lake, five tributaries drain to the lake and have been improved. The south tributary, through the residential golf course area, was included as part of the major outfall primarily for maintenance purposes.

BIG BAYOU WATERSHED #50

Basin Description

Big Bayou watershed is located in southern area of Pinellas County and lies entirely within the City of St. Petersburg. The drainage area is approximately 935 acres, most of which is Lewis Island. Much of the basin is designated on the Future Land Use Map as residential urban, but there is also residential low medium, and medium, commercial general, residential/office general, recreation/open space, preservation, and public/semi-public uses. The area is 91 percent developed. Most of the area is flood prone and has soil with a high permeability rating. There are no major drainage outfalls in this basin.

LITTLE BAYOU CANAL WATERSHED #51

Basin Description

Little Bayou Canal watershed is located in southern Pinellas County and lies entirely within the City of St. Petersburg. The basin contains approximately 505 acres of land, the majority of which is designated on the Future Land Use Map as residential urban, but also including residential medium, commercial general, residential/office general, recreation/open space, preservation, and public/semi-public. The basin is 89 percent developed. Because of this, an accurate overall soil permeability rating cannot be determined. The major outfall is approximately 1.2 miles in length and flows from Lake Catalina to the east, out letting into the southern end of Little Bayou. Some improvements were indicated as necessary to this outfall, and for the lower section of channel which outfalls in Little Bayou.

PINELLAS POINT WATERSHED #52

Basin Description

Pinellas Point watershed is located on the southern tip of Pinellas County and lies entirely within the City of St. Petersburg. The basin contains about 860 acres, and can be considered almost completely developed at 96 percent. Most of this basin is designated on the Future Land Use Map as residential urban, but there is also residential medium, recreation/open space, commercial, and public/semi-public. The existing drainage system flows north to south and outlets into Tampa Bay east of the Sunshine Skyway. The soil in the central portion of the basin has a medium permeability rating. Because of the development of the basin, accurate permeability ratings cannot be obtained for any other area. There are no major drainage outfalls in this basin.