

**EXHIBIT "B"**  
**SCOPE OF WORK**

**SARASOTA COUNTY – ROBERTS BAY NORTH WATERSHED MANAGEMENT  
PLAN**

**1. PROJECT OBJECTIVE**

The Roberts Bay North watershed includes the Roberts Bay portion of Sarasota County's Little Sarasota Bay Watershed, Phillippi Creek, Matheny Creek, and Siesta Key. The current Roberts Bay watershed has been significantly impacted by man-made drainage activities, which increased the efficiency and volume of freshwater being discharged to its tidal estuary. Historic maps indicate that significant drainage projects in the watershed have altered volume and timing of freshwater discharge which has likely impacted estuarine and tidal creek water quality and habitat. The bay was also impacted when natural conditions closed Midnight Pass at the southern end of Siesta Key and reduced the tidal flow into and out of the Roberts Bay portion of Sarasota County's Little Sarasota Bay.

The right mix of salt and freshwater in estuaries is critical to their sustainable productivity. Natural system responses to major hydrologic alterations such as those that have occurred in the Roberts Bay watershed have resulted in increased nutrient and sediment loads in the downstream estuaries and lowered salinities. The productivity, population dynamics, community composition, predator-prey relationships, and food web structure within the estuarine system are impacted by these changes. These impacts may manifest themselves as loss of sea grasses, reduction in live oysters, increase in algae blooms, shifts in benthic community structure, reduced larval recruitment and survival of fisheries species and increased frequencies of anoxic conditions.

The Environmental Protection Agency (EPA) and/or the Florida Department of Environmental Protection (FDEP) have identified the following waterbodies within the Roberts Bay Watershed to be impaired under section 303(d) of the federal Clean Water Act:

- In March 2006, EPA issued Total Maximum Daily Loads (TMDLs) for Nutrient, Dissolved Oxygen, Coliforms in Matheny Creek (Elligraw Creek).
- On November 2, 2005, FDEP adopted a (TMDL) for nutrients in the Roberts Bay.
- FDEP will adopt a TMDL for Fecal Coliform in Phillippi Creek in 2008.

Sarasota County (COUNTY) has embarked on a proactive approach to develop the proper science and community-based vision as a foundation for formulating, evaluating, prioritizing, and implementing watershed management actions. Towards this goal, the

COUNTY'S Environmental Sensitive Lands Protection Program (ESLPP) has recently acquired lands that are strategically located in the watershed at Red Bug Slough. Additionally, the Celery Fields Regional Stormwater Project was constructed in the Phillippi Creek watershed. The COUNTY has initiated monitoring of water quality, stage and discharge, and environmental indicators in tributaries leading to Roberts Bay, and the tidal portions of Roberts Bay. Implementation of this plan will provide a model in watershed management and involve several state, regional, and federal partners.

This PROJECT is a regional initiative that promotes and furthers the implementation of the Sarasota County Comprehensive Plan, the Sarasota Bay Estuary Program's (SBEP) Comprehensive Conservation Management Plan (CCMP), and the Southwest Florida Water Management District's (DISTRICT) Southern Coastal Comprehensive Watershed Management (CWM) Plan. Specifically, this initiative is to plan, design, and implement a comprehensive watershed management plan for the Roberts Bay watershed to achieve the following general objectives:

1. Improve and protect existing water quality by developing a Water Quality Level of Service and a Basin Action Management Plan to address the TMDL.
2. Provide a more natural hydrologic regime for the Roberts Bay watershed that will be incorporated into the development of a Natural Systems Level of Service.
3. Provide a more natural freshwater/saltwater regime in the tidal portions of Roberts Bay.
4. Protect existing and future property owners from flood damage.
5. Develop ecosystem goals and targets based on the requirements of environmental and biological indicators.
6. Develop potential alternative surface water supply options that are consistent with and support other plan objectives.

## **2. STUDY COORDINATION**

The COUNTY will keep the DISTRICT advised at all times during the course of the PROJECT. The COUNTY will provide the DISTRICT'S Project Manager on all pertinent PROJECT related meetings and will copy the DISTRICT'S Project Manager on all pertinent PROJECT related correspondence. The COUNTY will hold status meetings as deemed appropriate by the DISTRICT and COUNTY Project Managers.

The COUNTY will provide electronic copies of all interim work products to the DISTRICT Project Manager for review and comment. The DISTRICT'S review comments and/or approvals shall be made in a timely and reasonable manner so as not to compromise the ability of the COUNTY to meet the deadlines imposed in this Agreement. Upon completion and acceptance of the PROJECT, the COUNTY will furnish the DISTRICT with a complete set of the originals.

## **3. SCOPE OF SERVICES**

To accomplish the PROJECT, the COUNTY is responsible for the satisfactory completion of all tasks listed below. The COUNTY will procure the necessary professional and technical consultant services for the development of a comprehensive watershed management plan including the research and science for natural system protection and restoration/enhancement, as well as future alternative water supply development, while addressing any potential adverse impacts to floodplain elevations and pollutant loadings. Consultant services will include project coordination and management; literature search; development of watershed goals; preparation of a comprehensive watershed management plan for the Roberts Bay Watershed; preparation of a Basin Management Action Plan; interagency coordination; establishment of watershed stakeholders group and public outreach; development of preliminary plan concepts, surface water retrofit suggestions, suggestions for watershed specific regulations, drawings, and cost estimates; pursuit of funding assistance; and if authorized, miscellaneous activities including final design and permitting of water resource and watershed enhancement projects.

### **Task 1 – PROJECT Kick-off Meeting**

The COUNTY and its consultants will attend an initial project kick-off meeting with DISTRICT staff to review the overall and specific PROJECT objectives; PROJECT schedule; lines of communication; and other pertinent PROJECT related matters.

#### **Deliverables:**

- Minutes of the kick-off meeting will be prepared by the COUNTY and distributed to all parties attending the meeting within seven (7) working days of the meeting.

### **Task 2 - Literature Search and Creation of Watershed Bibliography**

The COUNTY will develop a bibliography of relevant references to be included in the Roberts Bay Watershed Management Plan.

### **Task 3 – Development of Watershed Goals**

The COUNTY will develop balanced watershed management goals for flood protection, water quality enhancement, natural system enhancement and/or restoration, and sustainable water supply, as well as coordinating with potential recreational opportunities. Watershed Management Goals will be included in the Roberts Bay Watershed Management Plan.

### **Task 4 – Development of Roberts Bay Watershed Management Plan**

#### **Task 4.0 Watershed Characterization**

The COUNTY will give a watershed characterization that will be included in the Roberts Bay Basin Management Action Plan (BMAP). The characterization will include a

description of historic and current basin geology, geomorphology, hydrology, hydrogeology, historic, present, and future land use; wastewater service, location of current monitoring stations, location of point and non-point source discharges, stormwater controls and stormwater projects.

#### **Task 4.1– Flood Protection**

##### **Task 4.1.1-Update Hydraulic/Hydrologic ADICPR Model for Roberts Bay Watershed**

The COUNTY will update the existing ADICPR flood model for the Phillippi Creek drainage basin which is part of the Roberts Bay Watershed. The COUNTY will incorporate fine-level resolutions and analyze changes in floodplain elevations for proposed improvement projects.

##### **Deliverables:**

- Report presenting the existing flood control level of service designations, including descriptions of methodology, calibration and verification used in the ADICPR flood model, to be included in the Roberts Bay Watershed Plan.

**Funding Note:** Funding for task 4.1.1 will come from Cooperative agreement L019 between the DISTRICT and COUNTY during Fiscal Year 2007.

##### **Task 4.1.2 – Little Sarasota Bay (including Roberts Bay) Coastal Model Development**

This Task includes preparing a detailed watershed model for the area identified as the Little Sarasota Bay Coastal basin (including the northern part of Little Sarasota Bay which flows into Roberts Bay). The identified area will include the Matheny Creek drainage basin. Development of a detailed model for this portion of the watershed will be consistent with the level of detail and methodology used in the adopted Cow Pen Slough/Shakett Creek flood study update. Any field surveying needed to complete this task will be certified and provided by the COUNTY. The Activities included in this Task are:

- Delineation of the subbasin boundaries
- Development of hydrologic parameters for each subbasin consistent with previous Sarasota County model methodology
- Identification and collection of fields survey needs
- Development of stage-area relationships for each subbasin/node based upon NGVD 1929 digital topography (Woolpert Data Series) if available or SWFWMD 1:200 Aerials.
- Development of hydraulic parameters for each subbasin based upon NGVD 1929 digital topography (Woolpert Data Series) if available or SWFWMD 1:200 Aerials & collected field survey data.

- Addition of hydrologic and hydraulic input parameters for the study area into the Little Sarasota Bay watershed model
- Simulation and debugging of model for the study area. In general this will be done by simulating the 100-year design storm and making sure that computed flood stages are “captured” with in either top of bank or maximum storage elevations specified in the model. It is expected that this activity will require the adjustment of the maximum elevations specified and the inclusion of additional overflow weirs.
- Delineation of the 100-year floodplain for Little Sarasota Bay Coastal study area
- Field surveying of up to 24 structures and 24 roadway segments to determine if they constitute level of service deficiencies
- Revise floodplain map as applicable to “island out” structures that are not level of service deficiencies

**Deliverables:**

- Digital ICPR input file for the updated Little Sarasota Bay Coastal study area
- Digital ICPR output files for the 2-year, 5-year, 10-year, 25-year and 100-year design storm simulations
- Digital GIS maps of subbasin, node/reach and 100-year floodplain files for the Little Sarasota Bay Coastal study area (as part of the QA/QC)
- Identification of existing structure and roadway flood protection level of service (as defined by the Sarasota County Comprehensive Plan) deficiencies in the Little Sarasota Bay Coastal study area. Flood protection level of service deficiencies will be identified in tabular and graphical form and provided in digital and hard copy formats
- Brief report, consistent with the Basin Master Plan Update, as applicable, in hard (3 copies) and digital format summarizing the modeling approach and results

**Funding Note:** Funding for Task 4.1.3 will come from the DISTRICT Cooperative agreement number 06C0000087 (L618) between the DISTRICT and COUNTY.

**Task 4.2 – Water Quality**

**Task 4.2.1 – Data Collection and Review**

The COUNTY will conduct a through search and review of existing data sources of water quality and sediment analyses for the lakes, streams, groundwater and bays within the watershed including Environmental Protection Agency (EPA) and FDEP Storage and Retrieval database (STORET), COUNTY Water Core Services databases, COUNTY Natural Resources Conservation Services (NRCS), SBEP, SWFWMD, COUNTY Water Atlas and other relevant agencies. The COUNTY will assess, and if necessary, develop background water quality data within the Roberts Bay watershed.

**Deliverables:**

- Digital files of existing water quality data in a single Access database that will be uploaded to the Sarasota County Water Atlas.
- Digital GIS files of any relevant features (e.g., sampling locations) related to water quality for the watershed.
- Digital and/or hardcopy files of previous reports or studies related to water quality in the watershed.
- Water quality data will be included in the BMAP.

#### **Task 4.2.2 – Identify Pollutants of Concern**

The COUNTY will provide an analysis of all relevant and available water quality for the lakes, streams, groundwater and bays within the watershed to determine the status and trends of important parameters that may affect ecological processes. The COUNTY will analyze available water quality data to address TMDLs for the Roberts Bay Watershed.

Activities in this Task include:

- Review of available water quality data and cross-referencing with existing state water quality standards for Class I and III water bodies.
- Producing plots and summary tables of important water quality parameters.
- Develop historic watershed pollutant loading analysis.
- Identify water quality issues and areas of concern.
- Develop basic analysis tool for water quality data that works off of pollutant load model to be incorporated as part of the Water Atlas.

#### **Deliverables:**

- Plots of water quality data.
- Relevant tabular data for inclusion in appropriate sections of the Water Quality chapter of the Roberts Bay Watershed Management Plan.
- Results of pollutant loading model simulations and historic watershed pollutant loading analysis.
- Identification of areas of concern will be included in the Roberts Bay Watershed Plan.
- Water quality data analysis addressing TMDLs to be included in the BMAP.

#### **Task 4.2.3 – Pollutant Loading Model Development and Validation**

The COUNTY is developing a County wide Pollutant Loading Model in cooperation with the DISTRICT.

Task includes:

- Using the data and analysis from the previous three tasks to aid in validating the pollutant loading model for the Roberts Bay Watershed.
- Perform model simulations to determine changes in pollutant loads associated with various scenarios and alternatives to be considered as part of the Roberts Bay Watershed Management Plan.
- Identify and implement necessary changes to County wide Pollutant Loading Model.

#### **Deliverables:**

- Summary report on pollutant loading model updates.
- Digital copy of updated pollutant loading model.
- Results of model simulations will be included in the BMAP.

**Funding Note:** Funding for task 4.1.1 will come from the DISTRICT Cooperative agreement number 06CS0000022 between the DISTRICT and COUNTY.

**Task 4.2.4-Establish Water Quality Level of Service**

The COUNTY will develop a water quality level of service for the Roberts Bay Watershed, including Roberts Bay, Phillippi Creek and Matheny Creek. Recommendations from subtasks 4.2.4.1 and 4.2.4.2 will be used to establish a water quality level of service.

**Deliverables:**

- Water quality level of service will be included in the Roberts Bay Watershed Management Plan.

**Task 4.2.4.1-Water Clarity Targets**

The COUNTY is developing numerical water clarity targets for bay segmentations throughout Sarasota County. The COUNTY will base clarity targets on water quality data analysis, bay circulation models, pollutant load models and regulatory framework.

**Deliverables:**

- Technical memo including water clarity targets, as well as logical methods and next steps for adaptive management. One potential outcome is Task 4.2.4.2, development of an estuarine response model

**Funding note:** Funding for Task 4.2.4.1 will come from ?????.

**Task 4.2.4.2 Estuarine Response Model**

The COUNTY will relate the pollutant load model to the water clarity targets to determine how pollutant loading affects the biology of the bay. An estuarine response model will be developed for Roberts Bay.

**Deliverables:**

- Technical memo presenting the estuarine response model will be included in the Roberts Bay Watershed Management Plan.

**Task 4.2.5– Development of Basin Management Action Plan for Roberts Bay**

The COUNTY will develop a Basin Management Action Plan to implement management strategies to restore Roberts Bay to its designated use as Class III waters and address the nutrient TMDL adopted by FDEP on November 2, 2005. The plan will be consistent with Florida Statute 403.067 as it deals with Basin Management Action Plans. The Plan will include the following key elements:

- Basin Characterization from Task 4.0 (including the identification of point and non-point source discharges, implemented projects, and implemented BMPs).

- Future Land Use (including short and long term plans for pollutant reduction)
- Schedule for implementation (including milestones for water quality improvement)
- Monitoring plan to evaluate effectiveness of implementation of BMAP on pollutant loading.
- Identification of feasible funding strategies

**Deliverables:**

- The Basin Management Action Plan for the Implementation of Total Maximum Daily Loads Adopted by the Florida Department of Environmental Protection in the Roberts Bay Watershed will be included in the Roberts Bay Watershed Management Plan.

**Task 4.3 - Natural Systems**

**BRA wetland study**

**Possible locations for restoration (existing project for Red Bug Slough)**

**Task 4.3.1 – Data Collection and Review**

The COUNTY will assess, and if necessary, develop background biological data within the Roberts Bay watershed. This task includes the evaluation and integration of existing monitoring activities (including the Tidal Creek Index currently being developed under a separate contract with Mote Marine Laboratory, Sarasota County and the DISTRICT) into the watershed goal setting and management components of the plan. Historical, existing, and future land use data will be evaluated and tabulated to characterize natural systems conditions throughout the watershed as well as develop a natural systems level of service for the watershed. Other data that will be evaluated includes soils maps, historical and current aerial photography, historical surveys, previous reports and studies, land acquisition plans (Sarasota County's ESLPP), and existing natural resource management plans (Sarasota County Comprehensive Land Management Plan, SWIM, SBEP CCMP, Red Bug Slough Land Management Plan) for the area. The COUNTY will include listed species, stream setbacks and land development regulations in the evaluation.

**Deliverables:**

- Digital GIS files of any relevant existing natural systems features related to natural systems in the watershed. Maps will be produced for future land uses and other relevant data (e.g., locations of protected wildlife species, publicly owned conservation lands, etc.) suitable for inclusion in appropriate sections of the Natural Systems chapter of the Roberts Bay Watershed Management Plan.
- Digital GIS files of the historical shoreline habitat maps for Roberts Bay.

- A summary of life history requirements for key biological indicator species in freshwater and estuarine portions of the watershed.
- A draft hydro biological monitoring plan component to be included in the Basin Management Action Plan for Roberts Bay. The plan will incorporate the tidal creek monitoring index being developed by Mote Marine Laboratory under DISTRICT Cooperative agreement No. between the COUNTY and the DISTRICT.
- A technical memorandum summarizing the Task 4.3.1 work effort, including all relevant documentation. The technical memorandum will describe the procedures used to access literature and data, the sources of acquired data, and all appropriate metadata and documentation.

### **Task 4.3.2-Data Analysis**

The COUNTY will analyze all relevant and available natural systems information for the Roberts Bay watershed to determine the status and trends of ecologically important habitats and changes or alterations in natural communities. A detailed assessment of existing lands utilizing a wide variety of existing public databases will be conducted in order to identify potential areas in need of activities to restore/enhance the watershed's hydrologic, hydraulic, or water quality functions. Existing conditions and natural systems level of service will be defined. Preliminary field assessments to collect qualitative data for potential restoration areas will be conducted. Data anticipated to be collected would include vegetative species composition, existing and historic hydrologic conditions, and perturbations affecting habitat functions and values and apparent wildlife utilization including threatened and endangered species. Flow data sets developed in association with Task 4.4.1 will be analyzed based on the Indicators of Hydrologic Alteration (IHA) developed by Richter *et al.* (1996) to evaluate changes in stream flow patterns on ecosystem response in Roberts Bay. A preliminary estimate of cost to perform restoration/enhancement will also be provided for each proposed project.

### **Deliverables:**

- Historical and existing condition maps to be provided by the COUNTY will be compared to each other as well as field verified. A discussion of the extent of hydrologic modification will be developed and presented in the IHA summary report (below).
- Maps of potential restoration/enhancement sites. Field assessments, landowner interviews, and analyses of historical changes in habitat or hydrologic conditions will be performed. Following the assessment, the proposed projects will be ranked and prioritized based on project cost benefit and overall enhancement to water resources subsequent to restoration.
- Summary of the IHA analyses for Roberts Bay and associated data output, graphics, and tables.
- Relevant tabular and GIS data for inclusion in appropriate sections of the Natural Systems chapter of the Roberts Bay Watershed Management Plan.
- Final results and recommendations will be included in the Roberts Bay Watershed Management Plan.

### **Task 4.3.3 – Establish Natural Systems Level of Service**

The results of task 4.1 data collection and 4.2 data analyses will be used to develop a Natural Systems Level of Service for the Roberts Bay Watershed. The Level of Service for natural Systems will set goals and targets for buffer zones around water courses as stipulated in the County’s Comprehensive Plan update, target natural areas and wildlife corridors in need of protection, and identify rare or endangered habitat preservation and restoration priorities.

#### **Deliverables:**

- Natural systems level of service and identification of areas of concern will be included in the Roberts Bay Watershed Plan.

### **Task 4.4 - Sustainable Water Supply**

#### **Task 4.4.1 – Water Quantity / Water Budget Approach**

The COUNTY will prepare a determination of “excess” surface water that has been diverted to Roberts Bay via Phillippi Creek and Matheny Creek. Additional activities relative to the Roberts Bay watershed in this Task include:

- Determine monthly excess surface water to Roberts Bay and prepare existing monthly water budgets using available Sarasota County ARMS data and discharge readings.
- Compare runoff/rainfall relationships.

Based upon the above data analyses, a statistical analysis of monthly runoff volumes will also be performed to determine sustainable yields and design drought conditions.

For Roberts Bay, activities in this Task include:

- Monthly excess runoff to Roberts Bay will be estimated comparing runoff to estimated pre-development runoff. A statistical analysis of monthly runoff volumes will also be performed.
- Using runoff data at Sarasota County ARMS stations MAT-1, MAT-2, PH-4, PH-5, and PH-9 and regional rainfall data, rainfall to runoff conversion factors for each month based upon three seasonal blocks developed as part of the Districts’ MFL program for the upper Myakka River will be determined. This will be conducted for the entire period of record.
- Compute actual monthly runoff volumes in Phillippi Creek and Matheny Creek based upon stage-discharge measurements available from Sarasota County and/or the Southwest Florida Water Management District and /or USGS).

#### **Deliverables:**

- Inclusions of Roberts Bay watershed analyses in the Roberts Bay Watershed Management Plan.
- A series of curves relating excess surface water (inflow), demands (outflow), and storage will be developed for the entire period of record.

#### **Task 4.4.2 –Stormwater Feasibility Study**

The COUNTY will provide evaluations for the operation of sites to provide regional “excess” floodplain storage, including but not limited to the following:

- Celery Fields Regional Stormwater Project
- Red Bug Slough floodplain and historical flow-way between Red Bug Slough and Phillippi Creek

Excess storage created in each of these sites will be quantified and its radius of effective storage influence (i.e. potential service or benefit areas) will be determined for the 10 year, 25 year, and 100 year storm events. The COUNTY will evaluate other possible sites throughout the Roberts Bay Watershed for floodplain storage.

#### **Deliverables:**

- Brief report in electronic and hardcopy format presenting the excess storage and map of the potential benefit area for each storage area. An estimate of the amount of off-site flood storage and its associated value to the respective property owner for each benefit area will be summarized. The report will also provide recommendations for the implementation of each facility.
- GIS shapefiles for each storage alternative.
- Digital copies of all input and output files and hydrographs.

**Funding Note:** Funding will come from the Cooperative agreement number 05CON000077, titled “Sarasota County - Implementation for BMP's for Phillippi Creek”, between the DISTRICT and COUNTY for the Celery Fields Regional Stormwater Facility.

#### **Task 4.4.3 – Identification of Potential Stormwater Reuse and Phasing Plan**

The COUNTY will identify opportunities for use of excess stormwater to supplement public use. Projects identified will include a cost estimate and be incorporated into a phasing plan. The development of this plan will consider capital and operating costs, short and long term water supply demands in coordination with the COUNTY’s WATER SUPPLY MASTER PLAN, local and regional demands, sustainable yields based upon enhancement and restoration of the Roberts Bay estuaries and possibly Phillippi Creek flows, available storage in and below the watershed, existing and proposed infrastructure, existing and future land uses in the watershed, design drought conditions, interconnect opportunities, reuse of excavated material, use of renewable energies, reuse and/or disposal of treatment byproducts, and rotation with other sources. This phasing plan will also address a methodical enhancement of the Roberts Bay watershed through the reduction of stormwater runoff.

#### **Deliverables:**

- Interim report presenting the results of the analyses identified in this Task.

- Final results and recommendations will be included in the Roberts Bay Watershed Management Plan.

### **Task 5- Project Analysis**

The COUNTY will develop and analyze projects within the Roberts Bay Watershed that comprehensively address all four DISTRICT Areas of Responsibility. The potential projects will be consistent with and support the established level of service for flood control, water quality and natural systems. The COUNTY will take into consideration flood stages, adopted Total Maximum Daily Load allocations with pollutant load reductions, restoration of hydrologic and natural systems, and any water supply concerns.

The proposed structural and non-structural projects to be analyzed include, but are not limited to, the following :

- Celery Fields Regional Stormwater Project
- Red Bug Slough floodplain and historical flow-way between Red Bug Slough and Phillippi Creek
- Forest Lakes WWTP conversion to stormwater reuse
- Gulf Gate WWTP conversion to stormwater reuse
- Phillippi Creek septic system replacement Capital Improvement Project
- Neighborhood Environmental Stewardship Team (NEST) public outreach
- Strengthening COUNTY Land Development Regulations
- Low Impact Development Standards
- Increasing COUNTY Pollution Control Code enforcement
- Changes in surface water system maintenance practices
- COUNTY maintenance practices

The COUNTY will perform ADICPR model simulations for various watershed restoration and modification alternatives proposed to determine their impact on flood stages.

#### **Deliverables:**

- Table comparing existing and proposed flood stages at each node, for each alternative. The table will also reflect the relative increase or decrease in existing and proposed flood stages at each node.
- Identification of additional flood control level of service deficiencies created and/or addressed by the alternative.
- GIS shapefiles for each proposed alternative.
- GIS shapefiles for each watershed restoration alternative.
- Digital copies of all input and output files and hydrographs.
- Graphical representations of flood stage differences for the watershed for each alternative to be uploaded on the water atlas as part of the COUNTY's watershed tools.

The COUNTY will perform pollutant load model simulations for various watershed restoration and modification alternatives proposed to determine their impact on and

pollutant load reductions, outlining their impact on wet season, dry season and annual loads.

**Deliverables:**

- Tables and GIS products comparing existing and proposed pollutant loads to estuarine segments of the watershed.
- Identification of any water quality improvements or impairments that would occur as a result of implementing the alternative.
- Identification of additional water quality level of service deficiencies created (and/or) addressed by the alternative.
- Tables and GIS products comparing existing and proposed wet season, dry season and annual pollutant loads for each affected subbasin and the entire Roberts Bay watershed. The table will also reflect the relative increase or decrease in existing and proposed pollutant loads for the watershed.
- Final results and recommendations will be included in the Basin Management Action Plan.

The COUNTY will analyze various watershed restoration and modification alternatives to determine their impact on freshwater and estuarine ecological processes and health. Alternatives will be evaluated for both freshwater and estuarine systems, if applicable.

**Deliverables:**

- Table comparing existing and proposed natural systems conditions within the freshwater and estuarine segments of the watershed.
- Summary and graphical representation of any natural systems improvements or degradation that would occur as a result of implementing any of the various alternatives.
- Description of permitting issues/constraints related to each alternative.

Final results and recommendations will be included in the Roberts Bay Watershed Management Plan. The COUNTY will solicit public input on proposed alternatives through NEST with informal discussions with various stakeholder groups.

**Funding Note:** The COUNTY has contracted with XXXX to develop a LID Manual at a cost of \$120,000. Funding for the LID Manual has been appropriated in the COUNTY'S FY 2007 budget.

**Task 6 – Roberts Bay Watershed Stakeholder Group and Public Outreach**

Within the Roberts Bay watershed, **five (5)** distinct but related audiences have been identified including: (Check with Rob Wright and Linda Larsen)

1. City of Sarasota
2. Siesta Key Association
3. Roberts Bay Coastal Community
4. Red Bug Slough Community
5. Phillippi Creek Neighborhoods (Forest Lakes, Southgate)

The COUNTY will implement a public outreach process designed to inform and engage these stakeholders in understanding watershed issues and advocating policies and

management strategies to improve the watershed. The process will begin with the formation of a watershed stakeholders group working through the NEST program. Public participation in the process will be encouraged with informal discussions with the various stakeholder groups. NEST will work to develop programs targeted to get the residents involved in their communities and instill a sense of ownership.

**Deliverables:**

- Digital copies of public relations materials.
- Details of public outreach activities to be included in monthly project update reports.
- Meeting recommendations to be incorporated into the Basin Management Action Plan.
- Meeting minutes and recommendations to be included in the Roberts Bay Watershed Management Plan.

**4. PERFORMANCE SCHEDULE**

The following tasks will be completed within the number of months indicated below as counted from the date the DISTRICT issues the Notice to Proceed with the Agreement. Completion dates are subject to accommodating unusual circumstances that could delay task completion, such as weather, interagency coordination and records requests.

Tasks x-x    x months  
 Tasks x-x    x months

**5. DELIVERABLES**

- A. Final Basin Management Action Plan for Roberts Bay.
- B. Draft Roberts Bay Watershed Management Plan-5 printed copies and 1 Adobe format electronic version.
- C. Final Roberts Bay Watershed Management Plan-Final Report-5 printed copies and 1 Adobe format electronic version.
- D. Diversity Report as required by the DISTRICT.

**6. PROJECT BUDGET**

The total PROJECT cost is estimated at \$1,200,000, separated into \$600,000 funded in FY 2007 and \$600,000 in FY 2008. The COUNTY and DISTRICT will be sharing this cost on a 50/50 basis with the DISTRICT portion not to exceed \$600,000 over the two year period. Any invoices submitted will reflect the percent of work completed.

<b>Funding Year</b>	<b>FY 2007</b>	<b>FY 2008</b>
<b>COUNTY</b>	\$150,000	\$150,000
<b>DISTRICT</b>	\$150,000	\$150,000

<b>Total</b>	\$300,000	\$300,000
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