



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 36-06673-P
DATE ISSUED: April 29, 2009**

Form #0941
08/95

PERMITTEE: CITY OF FORT MYERS HOUSING AUTHORITY
2200 SECOND STREET
FORT MYERS, FL 33902

PROJECT DESCRIPTION: This application is a request for an Environmental Resource Permit Modification to authorize construction and operation of a surface water management system to serve a 56.62 acre water quality improvement project known as Billy Creek Filter Marsh Park.

PROJECT LOCATION: LEE COUNTY, SEC 8, 9 TWP 44S RGE 25E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 081230-12, dated December 30, 2008. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40, Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 14 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 29th day of April, 2009, in accordance with Section 120.60(3), Florida Statutes.

BY: _____

Ricardo A. Valera, P.E.
Director, LWC Regulatory Division
Lower West Coast Service Center

Certified mail number 7008 1140 0001 4113 8919

NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office.** An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing

Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the District's Governing Board takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373, F.S.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.
5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.
6. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.
7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit

GENERAL CONDITIONS

Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.
9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.
10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.
11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..
12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.
13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit

GENERAL CONDITIONS

application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on April 29, 2014.
2. Operation of the surface water management system shall be the responsibility of CITY OF FORT MYERS.
3. Discharge Facilities:

The lake/filter marsh will discharge through previously permitted facilities.

The parking area associated with the kayak launch site will discharge through:
1-3" dia. CIRCULAR ORIFICE with invert at elev. 3' NGVD 29.
88 LF of 12" dia. REINFORCED CONCRETE PIPE culvert.
45 LF of 36" dia. REINFORCED CONCRETE PIPE culvert.
1-2' W X 3.08' L drop inlet with crest at elev. 5.6' NGVD 29.
Receiving body : Billy Creek Canal
Control elev : 3 feet NGVD 29.
4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
7. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.
8. The lakes shall be constructed without dewatering as indicated in the application submittal.
9. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
10. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
11. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
12. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.
13. The permittee acknowledges, that pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
14. The exhibits and special conditions in this permit apply only to this application. They do not supersede or

SPECIAL CONDITIONS

delete any requirements for other applications covered in Permit No. 36-06673-P unless otherwise specified herein.

Last Date For Agency Action: 18-MAY-2009

GENERAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Billy Creek Filter Marsh Park
Permit No.: 36-06673-P
Application No.: 081230-12
Application Type: Environmental Resource (General Permit Modification)
Location: Lee County, S8, 9/T44S/R25E
Permittee : City Of Fort Myers Housing Authority
Operating Entity : City Of Fort Myers
Project Area: 56.62 acres
Project Land Use: Environmental Restoration
Drainage Basin: TIDAL CALOOSAHATCHEE **Sub Basin:** Billy Creek
Receiving Body: Billy Creek **Class:** CLASS III
Special Drainage District: NA
Conservation Easement To District : No
Sovereign Submerged Lands: No

PROJECT PURPOSE:
This application is a request for an Environmental Resource Permit Modification to authorize construction and operation of a surface water management system to serve a 56.62 acre water quality improvement project known as Billy Creek Filter Marsh Park.

PROJECT EVALUATION:

PROJECT SITE DESCRIPTION:

The site is located directly north of the Billy Creek Canal, east of Marsh Avenue, and directly south of Woodside Avenue within the City of Fort Myers. A location map is attached as Exhibit 1.0.

In 2008, the permittee, City of Fort Myers, initiated activity removal of nuisance and exotic species from the site subsequent to receiving approval for site development under Permit No. 36-06673-P. Significant native communities (i.e. live oaks, maples, hickory and cabbage palms) were identified and preserved, which required re-evaluation of the permitted site layout in an effort to accommodate these areas for preservation.

PROJECT BACKGROUND:

The project site was permitted on April 14, 2008 under Permit No. 36-06673-P, Application No. 061214-10 to divert seasonal flows from the upper portion of the Billy Creek watershed into a treatment system adjacent to the creek. The purpose of the permitted improvements was to provide water quality within the upper portions of the highly urbanized Billy Creek Watershed and restore a remnant cypress hammock which was historically a part of the natural slough of the upper portion of the Billy Creek system.

The project included constructing of a weir structure and four 49-inch by 32-inch ERCPs with inverts of 0.0 feet NGVD to direct flow into the marsh. The filter marsh included an 8-acre lake, 13.4 acre filter marsh and an existing 12.4 acre cypress hammock. The four 49-inch by 32-inch ERCPs direct flows into the lake and six 24-inch CMPs with flashboard riser structures to convey flows back to the creek. It also included constructing a paved path through the filter marsh, to provide maintenance access to the elements of the treatment system, and for recreational and educational purposes.

PROPOSED PROJECT:

The applicant proposes revisions to the permitted plans to allow for the preservation of specific upland and wetland habitats. The revisions will require the relocation of the proposed diversion weir, the reconfiguration of the permitted lake and marsh systems, the addition of interconnecting pipes between the lake and marsh systems, and for the inclusion of a parking area associated with the proposed kayak launch site along Arlington Avenue. This application also corrects the project area to 56.62 acres instead of 55.7 acres as shown on Permit No. 36-06673-P, Application No. 061214-10. The construction of the project diversion weir within the Billy Creek canal will provide partial restoration of the ambient groundwater table upstream of the proposed weir.

The system will include an initial 8.5-acre settling pond outfalling into an 11.16-acre vegetated treatment marsh and a portion of the restored 5.15-acre cypress system and associated preserve area. Once treated by the filter marsh waters will discharge back into the canalized portion of the Billy Creek upstream of Marsh Avenue in east Fort Myers.

The project diversion weir will have a crest elevation of 5.0 feet NGVD in the canalized portion of the creek. Upstream of the diversion weir will be four 49-inch by 32-inch ERCPs with inverts of 0.0 feet NGVD to direct flow into the settling pond portion of the treatment system. Eight (8) 30-inch CMP with invert elevations of 2.0 feet NGVD will control flow from the settling lake into the initial cell of the vegetated filter marsh. Flow from the initial cell to the final cell will be controlled by eight (8) 30-inch CMP's with a controlling elevation of 2.5 feet NGVD. The two filter marsh cells will total 11.16 acres. Outfall from the final treatment cell back to the Billy Creek canal will be controlled by the previously permitted six (6) 24-inch CMP's with flashboard risers. Control for the filter marshes is fixed at elevation 4.0 feet NGVD. The flashboard risers will allow incremental operation of the marsh water levels to best optimize treatment by controlling the flow rate.

Stormwater runoff from the proposed parking area associated with the proposed kayak launch site along Arlington Avenue will sheetflow to the proposed dry detention pond which will provide the required water quality treatment volume for this area prior to discharging to Billy Creek Canal. The required water quality treatment volume for the proposed parking area is based on 2.5-inch times the percentage of imperviousness and includes an additional 50% water quality volume. The proposed system will also provide compensating water quality storage for the proposed sidewalk area along the north side of the parking area and connecting to the south side of the filter marsh area.

The plans also include the construction of paved paths along the berms separating the lakes and marsh cells. The path will meander through the filter marsh and will be constructed to provide maintenance access to the elements of the treatment system, but will also be utilized for recreational (pedestrian and cycling access) and educational purposes. The revised site layout plan and details are depicted on Exhibits 2.0.

LAND USE:

- * The land use category "Natural Areas" represents the proposed filter marsh area.
- * The land use category "Open Water" represents the existing Billy Creek Canal.
- * The land use category "Pavement" includes 3.72 acres of access-pathways, and 0.22 acres of parking area along Arlington Avenue, and 0.29 acres of sidewalk area.
- * The land use category "Preserved" includes 6.22 acres of wetlands.

Construction:

Project:

Total Project		
Dry Detention Areas	.10	acres
Lake	8.50	acres
Natural Areas	11.16	acres
Open Space	15.09	acres
Open Water	5.34	acres
Pavement	3.94	acres
Preserved	12.49	acres
Total:	56.62	

WATER QUANTITY:

Discharge Rate :

The revised lake/marsh system will continue to discharge back into the canalized portion of Billy Creek canal upstream of Marsh Avenue via the previously permitted six 24-inch CMPs with flashboard riser structures. The revised modeling results indicate that the peak stage in the Billy Creek canal at the upstream and downstream limits of the project will be lower in the post development condition when compared to the current existing condition for the annual, 25-year and 100-year events. As such no adverse impacts due to flooding are anticipated as a result of this project

The project is a storm water quality retrofit project designed to treat flows diverted from the upper portion of the Billy Creek watershed and has not been designed to limit discharge for the design event to a specified rate.

The proposed dry detention system serving the parking associated with the kayak launch site will discharge into Billy Creek Canal through a minimum three-inch circular orifice with invert at 3.0 ft. NGVD.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
Parking area	.74	3	3.00	Adjacent Canal Control Elevation

Receiving Body :

Basin	Str.#	Receiving Body
Parking Area	Control struc	Billy Creek Canal

Water Quality Structures: Note: The units for all the elevation values of structures are (ft, NGVD 29)

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
Parking area	Control structure	1	Circular Orifice				3"		3

Culverts:

Basin	Str#	Count	Type	Width	Length	Dia.
Parking area	Control structure	1	Reinforced Concrete Pipe		45'	36'
Parking area	Control structure	1	Reinforced Concrete Pipe		88'	12"

Inlets:

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
Parking area	Control structure	1	Fdot Mod C Drop Inlet	2'	3.08'		5.6

WATER QUALITY :

The proposed dry detention pond which will provide 5,194 c.f. (0.12 ac-ft) of water quality treatment volume for the proposed parking area associated with the proposed kayak launch site along Arlington Avenue. This volume is based on 2.5-inch times the percentage of imperviousness and includes an additional 50% water quality volume. The proposed system will also provide compensating water quality storage for the proposed sidewalk along the north side of the parking area and connecting to the south side of the filter marsh area. No adverse water quality impacts are anticipated as a result of the proposed project.

Basin	Treatment Method		Vol Req.d (ac-ft)	Vol Prov'd
Parking area	Treatment	Dry Detention	.1 acres	.12

Wildlife Issues:

The project site does not contain preferred habitat for wetland-dependent endangered or threatened wildlife species or species of special concern. No wetland-dependent endangered/threatened species or species of special concern were observed onsite, and submitted information indicates that potential use of the site by such species is minimal. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that irrigation water and dewatering activities are not required for construction of this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation, unless the work qualifies for a No-Notice Short-Term Dewatering permit pursuant to Chapter 40E-20.302(3) or is exempt pursuant to Section 40E-2.051, FAC.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

N/A.

Waste Water System/Supplier:

N/A.

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that the agency has no objections to the issuance of this permit.

DCA/CZM Consistency Review:

The District has not received a finding of inconsistency from the Florida Department of Environmental Protection or other commenting agencies regarding the provisions of the federal Coastal Zone Management Plan.

Third Party Interest:

No third party has contacted the District with concerns about this application.

Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

DIVISION APPROVAL:

NATURAL RESOURCE MANAGEMENT:


Laura Layman

DATE: 4/28/09

SURFACE WATER MANAGEMENT:


William Foley, P.E.

DATE: 4/28/09



REV	STAMP NO.	ADDRESS
CITY OF FORT MYERS, FLORIDA OWNERSHIP		
A	05-44-25-P3-04001.0010	4251 ARLINGTON AVENUE
B	05-44-25-P3-04001.0020	4251 ARLINGTON AVENUE
C	05-44-25-P3-04001.0030	4251 ARLINGTON AVENUE
D	05-44-25-P3-04001.0040	4251 ARLINGTON AVENUE
E	05-44-25-P3-04001.0050	4251 ARLINGTON AVENUE
F	05-44-25-P3-04001.0060	4251 ARLINGTON AVENUE
G	05-44-25-P3-04001.0070	4251 ARLINGTON AVENUE
H	05-44-25-P3-04001.0080	4251 ARLINGTON AVENUE
I	05-44-25-P3-04001.0090	4251 ARLINGTON AVENUE
J	05-44-25-P3-04001.0100	4251 ARLINGTON AVENUE
K	05-44-25-P3-04001.0110	4251 ARLINGTON AVENUE
L	05-44-25-P3-04001.0120	4251 ARLINGTON AVENUE
M	05-44-25-P3-04001.0130	4251 ARLINGTON AVENUE
N	05-44-25-P3-04001.0140	4251 ARLINGTON AVENUE
LEE COUNTY, FLORIDA OWNERSHIP		
O	05-44-25-P4-00001.0000	WOODSIDE AVENUE
P	05-44-25-P4-00001.0010	WOODSIDE AVENUE
Q	05-44-25-P4-00001.0020	WOODSIDE AVENUE
SHEETS TO SHEET FOR VARIATIONS		

PROPERTY DEVELOPER
CITY OF FORT MYERS
P.O. BOX 2897
FORT MYERS, FLORIDA 33902

LIST OF UTILITY SERVICE AREAS
NATURAL & SEWER
CITY OF FORT MYERS PUBLIC WORKS DEPARTMENT
6800 BAYVIEW BLVD., FORT MYERS, FL 33905
(239) 333-1881

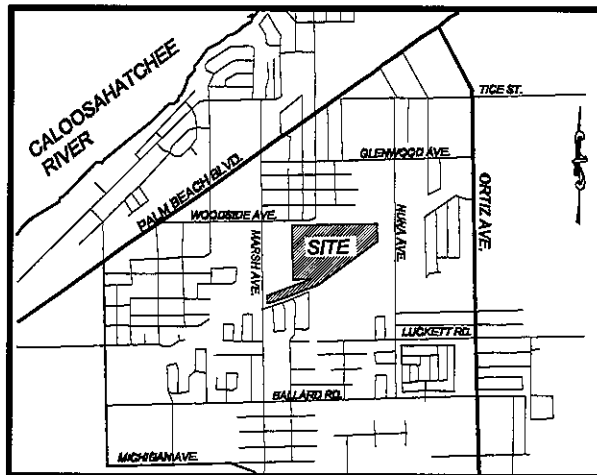
FLORIDA POWER AND LIGHT
1800 WINDYBUSH ROAD, FORT MYERS, FL 33906
(239) 454-0000

TELECOM SERVICES
8001 ENTERPRISE PARKWAY, FORT MYERS, FL 33905
(239) 454-0000

REBARCO LIMITED, TELEPHONE SERVICE
P.O. BOX 376, FORT MYERS, FL 33904
(239) 333-8871

CONCRETE CARE
1410 SE 10TH STREET, CAPE CORAL, FL 33904
(239) 474-1000

BILLY CREEK FILTER MARSH AND PASSIVE PARK 4420 WOODSIDE AVENUE FORT MYERS, FLORIDA 33905



PROJECT LOCATION MAP

THIS IS TO CERTIFY THAT THESE PLANS AND THE ASSOCIATED CONSTRUCTION PROJECT ARE IN SUBSTANTIAL COMPLIANCE WITH THE CITY OF FORT MYERS GROWTH MANAGEMENT CODE WITH THE EXCEPTION OF THE FOLLOWING DEVIATIONS WHICH HAVE BEEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

Deviations: Florida P.E. #: 45200

R.M. Esenfeld, P.E. Date

Development Order Approved: Public Works Administration

SAEED KAZEMI - Acting Director of Public Works Date

ELIANA HAYES - Acting City Engineer Date

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	PROPERTY OWNERSHIP PLAN

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SHEET C-02	SITE PLAN
SHEET C-03	TYPICAL SECTIONS
SHEET C-04	DETAILS & SWPPP
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FORT MYERS CITY COUNCIL

MAYOR - JIM HUMPHREY
WARD 1 - WARREN WRIGHT
WARD 2 - JOHNNY STREETS, JR.
WARD 3 - LEVON SIMMS
WARD 4 - MICHAEL FLANDERS
WARD 5 - RANDALL HENDERSON, JR.
WARD 6 - THOMAS LEONARDO

FORT MYERS CITY MANAGER

WILLIAM P. MITCHELL
DEPARTMENT OF PUBLIC WORKS
Engineering Division
SAEED KAZEMI, P.E. - Director of Public Works
ELIANA HAYES - City Engineer
800 SECOND STREET
FORT MYERS, FLORIDA 33902
TELEPHONE 888-40-400 FAX 239-454-0000

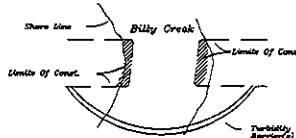
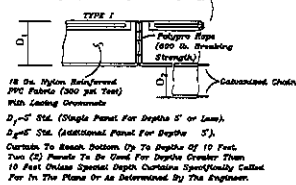
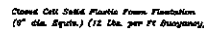
PREPARED BY:

DAVID H. JONES JR. AND ASSOCIATES, INC.
LANDSCAPE ARCHITECTS AND PLANNERS
225 MACDONALD BOULEVARD FORT MYERS, FLORIDA 33901
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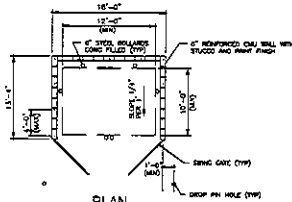
ECT
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e-mail: ectcorp@ectinc.com
http://www.ectinc.com
CAPS000

RONALD M. EISENFELD, P.E. DATE
THREE DRAWINGS ARE NOT APPROVED FOR CONSTRUCTION
UNLESS ORIGINALLY SIGNED AND SEALED.

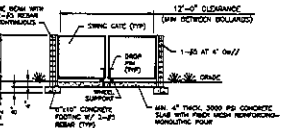


PROJECT NOTES (con't)

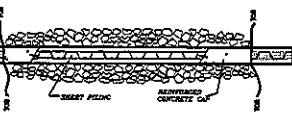
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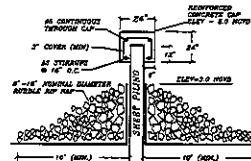
PLAN



ELEVATION
DUMPSTER ENCLOSURE DETAIL

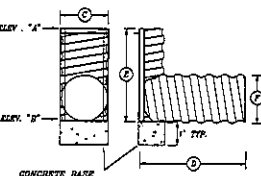


PROPOSED NEW - PLAN VIEW (N.T.S.)



✱

RISE TABLE	5-2	5-3	3-4	3-5	5-3
NUMBER OF BARRIERS	4	8	5	2	5
CULVERT TYPE	DROP	OMP	OMP	OMP	OMP
SLUIC 14" (TOP OF RISER)	N/A	7.0	N/A	N/A	N/A
SLUIC 7" (BOTTOM SLUICING)	0.0	1.0	2.5	3.5	2.0/3.0
① RISER SIZE (DIA)	N/A	30"	N/A	N/A	N/A
② PISC LENGTH	80'	100'	80'	80'	65'
③ RISER HEIGHT	N/A	72"	N/A	N/A	N/A
④ CULVERT SIZE (DIA)	48X32	24"	30"	30"	30"
ONG TREATMENT	N/A	MCS	MCS	MCS	MCS



PROPOSED FLASHBOARD RISER DETAILS (N.T.S.)

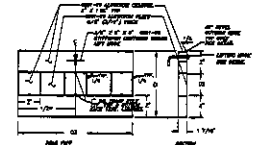
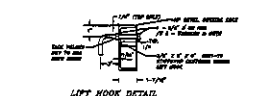
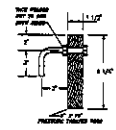


FIGURE 10 ALUMINUM DOOR DETAIL



LEFT HOOK DETAIL



P.T. BOARD BOOKS

C-05	SHEET NO.	BILLY CREEK FILTER MARSH PARK CITY OF FORT MYERS, FLORIDA SCUM O, UNDEP 4, RANCE 5, AND SCUM O, UNDEP 4, RANCE 5	 Environmental Consulting & Technology, Inc. 11000 S.W. 11th Avenue, Suite 112 Fort Worth, Texas 76116 Phone: (817) 271-0033	APPROVED:	DATE: 05/13/99
				R. E. BARNETT R. E. BARNETT 05/13/99	DATE: 05/13/99 TIME: 10:00 AM BY: J. L. BARNETT
NOTES & SPECIFICATIONS					

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Application No: 081230-12

Permit No: 36-06673-P

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- X Audubon of Florida - Charles Lee

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