2008KEY LARGO WASTEWATER TREATMENT DISTRICT
BOARD OF COMMISSIONERS

AGENDA

Tuesday Nov. 18, 2008 4:00 PM
98880 Overseas Hwy
Key Largo, FL 33037

Gary Bauman	**Chairman**
Andrew Tobin	**Vice Chairman**
Claude Bullock	**Secretary-Treasurer**
Susan Hammaker	**Commissioner**
Norman Higgins	**Commissioner**

Charles F. Fishburn	**General Manager**
Thomas Dillon	**District Counsel**
Carol Walker	**District Clerk**

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision of the KLWTD Board, with respect to any matter considered at this meeting, such interested person will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Persons with disabilities requiring accommodations in order to participate in the meeting should contact the District Clerk at 305-4453-5804 at least 48 hours in advance to request accommodations.

4:00 **A. SWEARING IN CEREMONY**

4:01 **B. CALL TO ORDER**

4:02 **C. PLEDGE OF ALLEGIANCE**

4:03 **D. ROLL CALL**

4:10 **E. APPROVAL OF AGENDA WITH ANY ADDITIONS OR DELETIONS**

4:25 **F. ELECTIONS**

4:40

G. PRESENTATIONS

4:50

H. PUBLIC COMMENT

5:00

I. COMMISSIONER'S ITEMS

1. Commissioners ability to add items to the agenda for discussion — **TAB 1**
   Commissioner Tobin
2. Adopting certain District policies by resolution — **TAB 2**
   Commissioner Tobin
3. Return of Bid Bond to Marlin Holdings — **TAB 3**
   Commissioner Higgins

5:20

J. BULK ITEMS

4. Pending Payments — Action — **TAB 4**

5:25

K. ENGINEER'S REPORT

5. Monthly Status Report — **TAB 5**
6. Basin A-2, A-3 Update — **TAB 6**
7. CR 905 Report — **TAB 7**

5:45

L. FINANCIAL REPORT

6:00

M. LEGAL COUNSEL REPORT

8. Employee Handbook Revisions — Discussion — **TAB 8**

6:10

N. GENERAL MANAGER'S REPORT

9. Contract for Vacuum Station "D" — Action — **TAB 9**
10. Change Order Basin B-2 — Action — **TAB 10**
11. State Funding — Action — **TAB 11**
12. WWTD Bid Results — Discussion — **TAB 12**

6:30

O. ADJOURNMENT

TAB 1

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 1

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Commissioners ability to add items to the agenda for discussion

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.T

Date: 11-13-08

Originating Department: Commissioner Tobin	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel _____ [X] General Manager C.J.T [ ] Finance _____	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background:

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

TAB 2

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 2

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Adopting certain District policies by resolution

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.T
Date: 11-13-08

Originating Department: Commissioner Tobin	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel _____ [X] General Manager C.J.T [ ] Finance _____	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

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Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

TAB 3

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 3

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Return of Bid Bond to Marlin Holdings for Vacuum Station D

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.H

Date: 11-13-08

Originating Department: Commissioner Higgins	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel _____ [X] General Manager C.J.H [ ] Finance _____	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background:

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

TAB 4

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 4

[ ] PUBLIC HEARING [ ] RESOLUTION

[ ] DISCUSSION [ ] BID/RFP AWARD

[X] GENERAL APPROVAL OF ITEM [ ] CONSENT AGENDA

[ ] Other:

SUBJECT: Pending Payments Schedule

RECOMMENDED MOTION/ACTION: Approve Pending Payments schedule contingent upon availability of funds.

Approved by General Manager C. J. 2
Date: 11-13-08

Originating Department: Finance	Costs: Funding Source: Acct. #	**Attachments:** Pending Payments Schedule
Department Review: [ ] District Counsel _____ [X] General Manager C.J.2 [X] Finance AL	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [X] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background:

Pending Payments schedule for Board review and approval contingent upon availability of funds.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

Key Largo Wastewater Treatment District

Payments Pending 11/18/2008

Prepared by: S. Trakul Date: 11/13/2008

CONSOLIDATED CASH BALANCE FORWARD		**$ 859,939.52**
Administration & Operations		
Cash Balance A&O Account Forward	$ (223,614.28)	
Plus: Service Charges	600.00	
Wastewater Revenue	26,825.65	
	27,425.65	
Less: Administration		
State of Florida - Phones	25.74	
Sante Acquisitions LLC - Rent	2,611.25	
Clerk of the Court - Recording fees	248.50	
Hicks-Richardson Associates - Lobbyist	3,078.20	
T. R. Jones & Co. - Retirement plan	115.14	
Sprint - Cellular Service	188.27	
HON - Storage unit for small drawing retention	120.36	
Susan Hammaker - Expense Report - D.C. trip	217.15	
America General Service - Office cleaning	260.00	
Paychex - 401K administration	175.00	
Staff salaries for month	25,135.27	
Payroll benefits for month	2,842.33	
Less: Shared Expenses		
Keys Sanitary Service - Trash pick-up	151.50	
Office Depot	197.53	
Federal Express - Delivery fees	58.69	
M. Alvarado - Cleaning Services	120.00	
KLI True Value - Supplies	768.84	
FKAA - Water	312.29	
Nextel Services - Cell service field and operations staff	652.80	
State of Florida - Phones	209.38	
Less: Operations		
Bryant Answering Service - After hours service	78.00	
NAPA Auto Parts - Supplies/Repairs-Maintenance	240.15	
Richard Sante - Outdoor grounds maintenance	780.00	
Keys Supply - Supplies/Repairs-Maintenance	355.68	
Sanders Laboratories - Lab testing	234.00	
Conch Enterprises - Adapt Lift fork for trailer hitch	35.00	
Sweetwater Environmental - Pump digester	3,750.00	
Staff salaries for month including benefits	15,848.29	
Sunshine State One Call - Location tickets	65.62	
Creative Services - Business cards/Emergency hangers	310.00	
Florida Keys Aqueduct Authority - Billing services	1,316.10	
U.S. Water - Sludge Hauling	1,000.00	
Sub-total Invoices	61,501.08	
		(34,075.43)
Cash Balance A&O Account If All Paid	$ (257,689.71)	

MSTU Draw #31 Submitted 08/13/08 $106,620
MSTU Draw #32 Submitted 10/13/08 $103,843

South Components

Cash Balance KLSC Account Forward	$ (822,171.23)	
Plus: No Receipts	-	
Less: W. F. McCain & Assoc.	51,585.00	
Staff salaires for month including benefits	4,887.38	
Weiler Engineering - Engineering and consulting services	1,330.00	
Eckler Engineering - App #6 - Basins E & F	55,840.00	
Sub-total Invoices	113,642.38	
		(113,642.38)
Cash Balance KLSC If All Paid	$ (935,813.61)	
County $20M Grant Draw #11 Submitted 10/09/08 $740,883		

North Components

Cash Balance KLNC Account Forward	$ 1,905,725.03	
Plus: No Receipts		
Sub-total Receipts	-	
Less:		
J. A. Larocco Enterprise - Basin D-3 - Application #10	241,400.70	
Fountain Engineering - Basin A -1/4/5 - Application #20	114,678.81	
AirVac - Pit packs	83,363.99	
All Southern Trucking - Excavation water retention area - RTP	48,580.00	
Pre-Con Corpration - Tanks - Application #2	287,550.00	
Wade Trim - Basin C - Application #5	24,489.00	
FKAA - Deposit 4" connection on hydrant - Deep Well project	20.00	
Clerk of the Court - Notice of Commencement - Deep Well project	10.00	
Mark Weis - Expense Report - Mileage	235.05	
Atlantic Trash and Transfer - Site Clearing - Vac Station A-B	700.00	
A. Haber - Replace damaged mailbox	83.00	
James Brush - Cellular Service reimbursement	50.00	
Hugh Grubb - Expense Report - Mileage	350.42	
E. Sachs - Reimbursement for reported damage	20.00	
Weiler Engineering - Engineering and consulting services	20,060.00	
Staff salaries for month including benefits	43,364.29	
Sub-total Invoices	864,955.26	
		(864,955.26)
Cash Balance KLNC Account If All Paid	$ 1,040,769.77	
County #20 M Grant Draw #12 Submitted 10/10/08 $346,112		
FDEP $6 M Grant Draw # 8 Submitted 11/05/08 $492,941		
SRF Loan Draw #11 Submitted 11/05/08 $729,423		

CONSOLIDATED CASH BALANCE IF ALL PAID **$ (153,713.20)**

NOTE: A TOTAL OF $2,519,822 REQUESTED FOR REIMBURSEMENT IS OUTSTANDING

Approved for payment:

Chairman

Treasurer

TAB 5

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 5

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Monthly status report

RECOMMENDED MOTION/ACTION:

Approved by General Manager C. J. L

Date: 11-13-08

Originating Department: Engineering	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel _____ [X] General Manager C.J.L [ ] Finance _____	[X] Engineering DS [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Dan Saus of Weiler Engineering will give a verbal update on the design, engineering and construction of projects.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

TAB 6

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 6

[ ] PUBLIC HEARING [ ] RESOLUTION

[X] DISCUSSION [ ] BID/RFP AWARD

[ ] GENERAL APPROVAL OF ITEM [ ] CONSENT AGENDA

[ ] Other:

SUBJECT: Basin A-2/A-3 update

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.R
Date: 11-13-08

Originating Department: Engineering	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel ____ [X] General Manager C.J.R. [ ] Finance ____	[X] Engineering RDS [ ] Clerk____	**Advertised:** Date: ____ Paper: ____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone____ or Not applicable in this case____: Please initial one.

Summary Explanation/Background: Basins A-2 and A-3 under construction with GlobeTec are nearing completion and the Board will be brought up to date on the status of these two projects.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

TAB 7

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 7

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: CR-905 report

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.L
Date: 11-13-08

Originating Department: Engineering	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel ____ [X] General Manager CJL [ ] Finance ____	[X] Engineering EC [ ] Clerk____	**Advertised:** Date: ____ Paper: ____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone____ or Not applicable in this case____: Please initial one.

Summary Explanation/Background: Weiler Engineering continues to analyze the most cost effective way to provide 2010.5 compliant wastewater service to isolated areas on CR905 and the 18 mile stretch.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

THE WEILER ENGINEERING CORPORATION

"Excellence in Engineering"

20020 Veterans Boulevard., Suite 7
Port Charlotte, FL 33954
(941) 764-6447 ph
(941) 764-8915 fax

Key Largo Wastewater Treatment District
Engineering Report
Cold Spots
11/12/2008

Weiler has evaluated the cold spots along CR 905 and the 18-Mile stretch to determine the most cost effective ways in which wastewater service may be provided to these isolated areas. This report examines several options for wastewater treatment in the CR 905 corridor including individual on-site DOH systems for each property, cluster systems where several properties are treated by a single DOH system, and the option of pumping the wastewater from closer neighborhoods to the North Components force main with the more remote areas treated by on-site DOH systems. The report also examines the cost and feasibility of upgrading or replacing existing FDEP package plants on US 1 with 2010 compliant systems and connecting adjacent smaller properties into the upgraded package plants.

CR 905 Area Analyses

CR 905 Cluster System Analyses

Atlantic Boulevard

A single residence exists on Atlantic Boulevard. There is a drainage ditch and pipe that separates it from the central sewer system. It will require an individual system.

Loquat Drive

A single residence exists on Loquat Drive. Due to the distance from it to the Atlantic Boulevard residence and the central sewer system, an individual system will be required.

Gulfstream Shores & Knowlson Colony

Gulfstream Shores and Knowlson Colony are adjoining subdivisions on County Road 905 approximately 1½ miles northeast of the central sewer system. They are located in Ocean Isle Estates. Knowlson Colony consists mostly of Hammock vegetation with 14 single-family residences mixed in. Gulfstream Shores has 31 single-family residences and has more cleared areas. These two subdivisions are mostly privately owned. Currently 10 of these are 2010 compliant. Of the remaining 34, 21 will require individual systems and the remaining 14 will be evaluated as to the economy of providing 3 cluster systems.

Ocean Reef Shores

Ocean Reef Shores is a sparsely populated neighborhood, located approximately 2 miles northeast of the central sewer system on County Road 905. The subdivision consists of 18 privately owned and 6 State owned residences. None of the residences are known to have 2010 compliance systems. 10 will require individual systems and the remaining 14 will be evaluated as to the economy of providing 4 cluster systems.

Elbow Light Club & JHT Subdivision

Elbow Light Club and JHT Subdivision, located approximately 3.2 miles northeast of the central sewer system on County Road 905, consist of three single-family residences. Only one is 2010 compliant. Due to the distance between the other two, each will require an individual system.

11175 County Road 905

11175 County Road 905, located approximately 4.7 miles northeast of the central sewer system, is a single-family residence that is not currently 2010 compliant. It will require an individual system.

Waste Management Transfer Station

Waste Management Transfer Station, located approximately 4.4 miles northeast of the central sewer system on County Road 905, has an existing BioMicrobics FAST system which will require modification to bring it into compliance with 2010 standards.

Sea Critters

Sea Critters, located approximately 6.2 miles northeast of the central sewer system on County Road 905, has two existing office trailers that will require an individual system.

Madeira Village

Madeira Village, located approximately 6.9 miles northeast of the central sewer system on County Road 905, consists of four single-family residences. Due to the distance between residences each will require an individual system.

Estimated Costs, Cluster System Option

Individual Systems (37) – The anticipated average cost per unit is $29,700. This includes the purchase and installation of each system.

2-Unit cluster system (2) – The anticipated cost per system is $43,492. This includes the purchase and installation of each system including necessary piping.

3-Unit cluster system (1) – The anticipated cost per system is $59,874. This includes the purchase and installation of each system including necessary piping.

4-Unit cluster system (1) – The anticipated cost per system is $90,000. This includes the purchase and installation of each system including necessary piping.

5-Unit cluster system (2) – The anticipated cost per system is $98,430.50. This includes the purchase and installation of each system including necessary piping.

7-Unit cluster system (2) – The anticipated cost per system is $129,729. This includes the purchase and installation of each system including necessary piping.

This pricing is based upon pricing obtained from DOH and two private contractors. The total estimated cost for the above is **$1,792,077 or $24, 889.96 per EDU**

Under the cluster system option, the District would need to acquire easements in order to construct the systems for any that are not individual systems. In order to provide equity, the District should consider acquiring easements and constructing the individual systems as well as the cluster systems.

The most practical option for operation and maintenance under the cluster system scenario would be for the District to provide O&M and collect a monthly O&M fee from the property owners.

CR 905 Individual Systems

The alternative of a single 2010 compliant system to be provided for each property was examined. This alternative is similar to having each property owner install their own system. Under this scenario, the District could consider several options: 1) Do nothing. This would result in the property owners bearing the responsibility of 2010 compliance; 2) The District could provide a cash contribution or services such as design and permitting to each property owner to assist in the installation of the individual systems; 3) The District could permit and install the systems in easements granted by the property owners.

There is a potential economic advantage due to bulk purchasing and contracting if the District elects to install the systems on the properties. The construction cost based on a single contractor installing all 72 systems resulted in a lower unit cost for each DOH system. The estimated cost for 72 single family systems installed with a bulk contract is **$23,500** per unit. Total cost is **$1,692,000 or $23,500 per EDU**.

Under any of the above scenarios, the District may consider two options for operation and maintenance. The first option would be for the homeowners to retain responsibility for O&M. This would fit best with Option 1. The second option would be for the District to assume responsibility for O&M and charge a monthly O&M fee to each property owner. This would be practical only if the District owned the treatment facilities. Under construction options 1 and 2, it would be advisable for the District to

require the property owner to grant an easement and convey the infrastructure to the District.

CR 905 Pump Station/Individual Alternative

Weiler Engineering has also evaluated the use of an individual grinder pump station pressure system for the Gulfstream Shores and Knowlson Colony area. This scenario anticipates that the 10 homes in this area that are already compliant will be required to connect to the new low pressure system. There are several other properties located near the US 1 intersection included on grinder pumps. This option has the advantage of pumping waste to the regional wastewater treatment plant rather than treating it on site. A higher level of treatment would be achieved and the treatment would be more reliable. On the other hand, when the power is out, the pump stations will not operate unless connected to a generator. For longer power outages, the sewage may back up onto the property. The on-site system alternative would not have this disadvantage. Although power is needed to provide treatment in the on-site systems, the sewage will continue to flow by gravity even when the power is out. The remainder of the residence east of Gulfstream Shores would receive individual units.

The projected cost is **$2,566,000 for 82 EDUs or $31,170 per EDU**

18-Mile Stretch Analysis

In order to provide the District with a complete picture of the wastewater needs and options in the Cold Spots at the north and east end of the District service area, Weiler Engineering evaluated the properties on the 18-Mile Stretch (US 1) outside the Basin A limits. The sections below provide brief descriptions of the options available and the estimated costs associated with the construction.

Manatee Bay/Cross Key

Manatee Bay/Cross Key is located approximately 6.1 miles northwest of the central sewer system on the Overseas Highway. There are three existing treatment facilities including two FDEP plants and one DOH system. At Cross Key Marina there is an existing .005 MGD permitted extended aeration treatment plant that appears to be in poor condition and does not have the room for expansion to a BAT facility. An RV park has an existing DOH compliant system that we were unable to locate during the site visit. This system when located will likely prove to be too small to accomplish the goal of serving this entire area. At the Manatee Bay Club there is an existing .0095 MGD permitted treatment facility that has 45,000 gallons of aeration capacity. This facility has some leakage issues that need to be investigated. If this facility is structurally sound and the leaks are sealed this facility could be upgraded to BAT and provide 2010 compliant treatment for this entire area. Vacuum, gravity and low pressure systems were evaluated. Their respective costs were $879,824, $722,258, and $802,362. Upgrading the Manatee Bay WWTP to .020 MGD would cost $179,913. The total cost for this **137 EDU project is $902,171.**

Gilberts/Anchorage

Gilberts/Anchorage is located approximately 1.5 miles northwest of the central sewer system at Jewfish Creek on the Overseas Highway. There are three FDEP treatment plants located in this area. Gilberts is located just north of the Jewfish creek drawbridge which effectively cuts it off from the other two facilities. This is a .010 MGD extended aeration facility, located directly on the water front, with minimal aeration capacity and an add-on chlorine contact basin. The concrete tanks have been leaking and a repair "skirt" of concrete has been added around the perimeter of the tanks. The concrete on top of the tanks is cracking and spalling and is generally in poor condition. We would recommend design and permitting of a new BAT facility for Gilberts that could be located away from the water front. The old plant could treat the sewage while the new system is constructed. The Anchorage Resort is located on the south side of the bridge directly adjacent to Marly's restaurant. The Anchorage's treatment facility is a .010 MGD extended aeration treatment facility located in the corner of the parking lot. Buildings have been built right up to the edge of the concrete plant. This facility is in fair to poor condition and has absolutely no room for expansion. Marly's restaurant has a .008 extended aeration facility with 15,900 gallons of aeration capacity. It is a steel plant that appears to be in fair to good condition and has a small amount of room around it for expansion. This facility could be converted to BAT and possibly serve this property as well as the Anchorage property.

In Summary, the existing treatment facilities at Manatee Bay and Marly's Restaurant need to be further evaluated for structural integrity and leakage. If the outcome of this investigation is positive, these two facilities could be redesigned as BAT facilities and serve their respective areas. Gilbert's plant should be replaced with a 2010 compliant system to serve that area because there is no economical way to transport the sewage across the Waterway to treat it in conjunction with Marly's and the Anchorage Resort.

Gilberts – the estimated cost of a new .010 MGD BAT plant is **$150,000 for 68 EDUs or $2,206 per EDU.**

Marley's and Anchorage Resort - Expansion of the Marley's WWTP to .015 MGD and adding a lift station at Anchorage would cost $210,000

Other Technical Issues

The above summaries and their associated costs outlined below are dependent on several factors.

The individual systems will require a perpetual easement that allows the District to build and maintain the system. Individual homeowners will be required to provide electricity unless the District installs a separate District-owned electric service and meter for the on-site system. Due to lot size and/or the lack of sufficient pervious area to place the drainage field, approximately half of the systems will require an injection well for effluent disposal. Some savings could be realized by combining the effluent from two close systems into one well. While the wells are more expensive initially, the O&M costs for well systems are significantly lower.

In the areas where cluster systems are proposed, either one home will have to let the system be placed on their property or a vacant parcel of land will be required. Most of the vacant land is owned by the State of Florida. All the homes within the area designated for a cluster system will have to participate in the program. Again a perpetual easement will be required. It is recommended that a separate electrical meter be installed at these locations to operate the systems. Some piping will be required to connect each home. In some instances an individual pump may be required if a gravity connection cannot occur. In some instances it would be best to place the cluster system within the existing road R-O-W. As DOH does not permit facilities in R-O-W, it would require a variance for the DOH. Most of the systems will also require FDEP permitting for the collection systems.

Conclusions

The CR 905 area has a low density of development. This results in higher than average costs per EDU for compliance with the 2010 mandate. There is a possibility of achieving some savings through economies of scale if the District constructs the systems. Similar savings could be realized if the property owners were to work together to hire contractors to do bulk installations. Regardless of these savings, the cost per EDU will remain higher.

Individual properties on the 18-Mile Stretch would face similar costs per EDU to those in the CR 905 area. The commercial properties on the 18-Mile Stretch can come into compliance with the 2010 mandate at a lower cost per EDU by upgrading or replacing existing package plants. An even greater overall savings can be realized by treating the Manatee Bay/Cross Key area as a single service area using the upgraded Manatee Bay package plant. The upgrades discussed in the report could be implemented by the District or could possibly be implemented by a coalition of the property owners.

If the District elects to provide wastewater service for the property owners in the CR 905 and 18-Mile Stretch areas, Weiler recommends the following as the best overall option:

- Provide 72 individual systems for County Road 905 .....$1,692,000
- Upgrade System at Waste Management $15,775
- Provide a low pressure system for Cross Key $722,258
- Upgrade the Manatee Bay WWTP $179,913
- Provide a new Plant at Karina Bay $150,000
- Upgrade the Marley's WWTP $210,000
- **TOTAL COST OF CONSTRUCTION $2,969,946**

Total EDUs served	**383**
Total Cold Spot cost	**$2,969,946**
Total initial cost per EDU	**$7,754.43**

Anticipated O&M cost per EDU first two years $57.09/month

Anticipated O&M cost per EDU after two years $60.90/month

Glossary of Terms

- ***AWT*** – Advanced Wastewater Treatment. This is the level of treatment required by the year 2010 for all WWTPs in the Keys with capacities of 0.100 MGD or greater. This corresponds to levels of 5 mg/l CBOD, 5 mg/l TSS, 3 mg/l TN and 1 mg/l TP
- ***BAT*** – Best Achievable Treatment. This is the level of treatment required by the year 2010 for all wastewater treatment systems in the Keys with capacities of less than 0.100 MGD, including on-site treatment units. This corresponds to levels of 10 mg/l CBOD, 10 mg/l TSS, 10 mg/l TN and 1 mg/l TP
- ***CBOD*** – Carbonaceous Biochemical Oxygen Demand. This is a measurement of the level of organic pollutants (food) in wastewater
- ***DOH*** – Monroe County Department of Health
- ***EDU*** – Equivalent Dwelling Unit. The amount of flow associated with one residential unit.
- ***FDEP*** – Florida Department of Environmental Protection
- ***FKAA*** – Florida Keys Aqueduct Authority
- ***GPD*** – Gallons Per Day
- ***I&I*** – Inflow & Infiltration. Inflow is non-sewage water, typically rain water, that enters a sanitary sewer system through lids on structures such as manholes. Infiltration is non-sewage water, typically groundwater or rain water that has soaked into the ground, that enters a sanitary sewer system through cracks and joints in buried pipes and structures.
- ***MGD*** – Million Gallons per Day
- ***mg/l*** – milligrams per liter (same as parts per million). This is the unit of measurement typically used to report the concentration of pollutants in wastewater
- ***R-O-W*** – Right-of-Way
- ***SSOCOF*** – Sunshine State One Call of Florida, the state agency that coordinates underground utility construction. Anyone who intends to dig must call SSOCOF to request locates. SSOCOF then relays the construction information to all members in the construction area with instructions to mark the location of their underground utilities in the work area prior to the start of construction.
- ***SRF*** – State Revolving Fund. A source of low-interest loans for utility planning and construction
- ***TN*** – Total Nitrogen. This is a measurement of the level of nitrogenous pollutants in wastewater
- ***TP*** – Total Phosphorus. This is a measurement of the level of phosphate and organic phosphorus pollutants in wastewater
- ***TSS*** – Total Suspended Solids. This is a measurement of the level of particulate matters in suspension in wastewater
- ***WWTP*** – Wastewater Treatment Plant

TAB 8

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 8

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Employee Handbook Revisions

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.L
Date: 11-13-08

Originating Department: Law	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [X] District Counsel TD [X] General Manager C.J.L [ ] Finance _____	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Proposed amended employee handbook makes technical correction to provisions concerning overtime and specifies that vacation accrued in a calendar year must be taken no later than the next calendar year. Resolution provides interim policy for employees who have accrued vacation time from years prior to 2008: must take the time no later than the end of calendar year 2009.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

RESOLUTION XX-11-08

A RESOLUTION OF THE KEY LARGO WASTEWATER TREATMENT DISTRICT, ADOPTING A REVISED EMPLOYEE HANDBOOK, AMENDING THE DISTRICT POLICY REGARDING USE OF ACCRUED VACATION TIME, PROVIDING AN INTERIM POLICY REGARDING USE OF ACCRUED VACATION TIME, AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the Key Largo Wastewater Treatment District ("District") has adopted an employee handbook incorporating policies applicable to all employees; and

WHEREAS, the District desires to make a technical correction regarding overtime; and

WHEREAS, the District desires to amend the policy regarding usage of accrued vacation time; and

WHEREAS, the District desires to adopt an interim vacation usage policy for employees with accrued vacation time;

NOW, THEREFORE, the Key Largo Wastewater Treatment District hereby resolves as follows:

1. The District adopts the revised employee handbook, a copy of which is attached hereto and incorporated by this reference.
2. The District establishes the following interim vacation usage policy: A District employee with vacation time accrued prior to calendar year 2008 must use that accrued vacation time in calendar year 2009.
3. This resolution shall become effective upon adoption by the District Board.

The foregoing RESOLUTION NO. XX-11-08 was offered by Commissioner , who moved its approval. The motion was seconded by Commissioner and being put to a vote the result was as follows:

	AYE	NAY
Chairman __	_ _	____
Commissioner ___	___	____
Commissioner Susan Hammaker	___	____
Commissioner Norman Higgins	_ _	____
Commissioner Andrew Tobin	___	____

The Chairman thereupon declared Resolution No. WW-10-07 duly passed and adopted the 9th day of October, 2007.

KEY LARGO WASTEWATER TREATMENT DISTRICT BOARD OF COMMISSIONERS

By _____
Gary Bauman, Chairman

Attest:

By _____
Carol Walker, Board Clerk

Approved as to form and content:

By _____
District Counsel

KEY LARGO WASTEWATER TREATMENT DISTRICT
EMPLOYEE HANDBOOK

I _____(employee) acknowledge receipt of this Handbook and that I am responsible for reading and understanding its contents and keeping it updated. It is intended as a guide to District policies and procedures which are available in our District Clerk's office.

I further understand that my employment is at will and this Handbook does not create a contract with the District for any purpose and that the provisions of this Handbook may be modified or eliminated by the District at any time and without prior notice to the employee.

Issue To: _____

Signed: _____

Date Received: _____

FROM THE GENERAL MANAGER

Welcome to Key Largo Wastewater Treatment District:

We welcome you and wish to set clear expectations for you so that together we may meet the District's mission to provide the highest quality wastewater treatment services for our community.

Please read this handbook and be familiar with it so that we better work together as a team.

Charles F. Fishburn
General Manager

KLWTD AND YOU

As managers, our job is to organize the conditions and structure of your work environment according to current county, state and federal codes, laws and regulations in order to provide the highest quality wastewater services for our community.

Our job is to:

1. Provide equal employment opportunity and treatment regardless of race, religion, color, sex age, national origin, disability, or military status;
2. Provide fair wages and benefits according to work performed;
3. Establish work hours based on the District's production and service;
4. Monitor and comply with applicable federal, state and local laws and regulations concerning your safety.
5. Offer job training as appropriate;
6. Be receptive to constructive suggestions about job duties, working conditions and personnel policies.

Your job is to:

1. Deal with customers, fellow workers and suppliers pleasantly and professionally;
2. Be on time for scheduled work and perform your work safely and efficiently;
3. Immediately alert your Supervisor of any unsafe conditions or practices;
4. Comply with District policy on drugs, alcohol and tobacco;
5. Comply with emergency procedures, hurricane watches and warnings;
6. Observe District policy on District business use of vehicles.

Together we have a mutual obligation to respect each other and our community in the execution of our duties.

EQUAL EMPLOYMENT OPPORTUNITY

The District provides equal opportunity in employment to all employees and applicants for employment. No person will be discriminated against because of race, religion, color, sex, age, national origin, disability, military status, or any other characteristic protected by applicable law.

1. Any concerns about discrimination should be reported to your Supervisor or the General Manager.
2. The District pledges prompt, impartial and confidential action to resolve the matter.
3. The District prohibits any form of retaliation against employees for bringing good faith complaints or providing information about discrimination.

PRODUCTIVE WORK ENVIRONMENT

The District promotes a productive work environment and does not tolerate verbal or physical conduct by any employee that harasses, disrupts, or interferes with another's work performance or that creates an intimidating, offensive, or hostile environment.

Sexually harassing or offensive conduct in the workplace (including non-employees) is also prohibited. This conduct includes:

1. Unwanted physical contact or conduct of any kind, inclu8ding sexual flirtations, touching, advances, or propositions;
2. Verbal harassment of a sexual nature, such as lewd comments, sexual jokes or references, and offensive personal references;
3. Demeaning, insulting, intimidating, or sexually suggestive comments about an individual;
4. The display6 in the workplace of demeaning, insulting, intimidating, or sexually suggestive objects, pictures, or photographs;
5. Demeaning, insulting, intimidating, or sexually suggestive written, recorded, or electronically transmitted messages (such as email, instant messaging, and Internet materials).

Any concerns of harassment should be reported to your Supervisor or the General Manager.

The District pledges prompt, impartial, and confidential action to resolve the matter.

INTRODUCTORY OR PROBATIONARY PERIOD

New Employees
The District monitors and evaluates all new employees for an introductory period of 180 days. During the introductory period, as a new employee you may be terminated or reassigned without notice and without cause.

Promotions and Transfers
When you are promoted or transferred, a new probationary period will take effect.

PROMOTION

The District prefers to promote from within when appropriate. We encourage you to prepare yourself for advancement with learning opportunities and show your desire by written request to your Supervisor and/or the General Manager.

HOURS OF WORK

The District establishes working hours with provision for approved overtime and exceptional circumstances such as emergencies. Your Supervisor will determine and approve your schedule, allowing for meal and rest breaks, overtime and special circumstances. For the purposes of overtime compensation, only hours during which Employee is necessarily required to be on the District's premises, on duty, or at a prescribed work place in excess of forty during a workweek will be counted.

Your Time Sheet
You are responsible for filling out your time sheet accurately. Falsifying any time record is prohibited and may be grounds for disciplinary action, up to and including termination. Time records must be completed at the close of each workday. Your Supervisor will check and sign your time sheet, and enter unworked, overtime, and paid vacation time to which you are authorized.

OUTSIDE EMPLOYMENT

Employee shall not accept any other employment for compensation without the prior written consent of the District's General Manager, which consent may be withheld if the District's General Manager reasonably believes that such employment would negatively affect the quality of the Employee's services to the District.

ANNUAL REVIEW

On or about your anniversary hire date your Supervisor will conduct with you an evaluation that will include past performance, current and future goals, and discussion of possible merit increases.

DISCLOSURE OF BENEFITS

The District provides you health and welfare benefit options, which may be amended from time to time. These options may include health and disability insurance, 401K Plan, paid vacation, and holidays and job training, and other benefits.

PAID HOLIDAYS

The District designates and observes ten days as holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving, Christmas Eve Day and Christmas Day. If a holiday falls on a Saturday, the Friday before will be observed. If a holiday falls on a Sunday, it will be observed on Monday.

If you work a paid holiday you will receive holiday pay plus one and a half times regular pay. You must work the scheduled workday before and after the holiday to receive holiday pay.

VACATION/PAID LEAVE

You will accrue one hour of vacation pay for every 20 hours worked and qualify for paid leave after 6 months of employment. The General Manager approves all requests for vacation. Leave must be taken no later than the last day of the calendar year following the calendar year in which it was earned.

Deleted: in

Should you be terminated, you will receive vacation pay for any unused vacation accrued at the time of termination.

YOUR PERSONAL PROPERTY

Leave any unnecessary personal property at home. The District is not responsible for the loss, damage, or theft of your personal property of cash or other valuables.

To maintain security and protect against theft, the District reserves the right to inspect all personal property brought onto the District's premises, including vehicles, packages, briefcases, backpacks, purses, bags, and wallets. In addition, the District may inspect the contents of lockers, storage areas, file cabinets, desks, and work stations at any time and remove all District property and other items that violate District rules and policies.

DISTRICT PROPERTY

District property may not be removed off premises without the authorization of the General Manager.

YOUR SAFETY

The District complies with all applicable federal, state and local health and safety regulations. You are expected to observe all safety and health requirements whether established by the District or by federal, state, or local law.

You must report immediately to your Supervisor all observed safety and health violations, potentially unsafe conditions, and any accidents resulting in injuries to yourself, employees, vendors, customers or guests. You are also encouraged to submit suggestions to make our workplace a safer, healthier environment.

CLEAN AIR POLICY

Per the Florida Clean Air Act, all areas within District buildings are smoke-free areas. Smoking is permitted outside unless posted otherwise.

SOLICITATION

The District prohibits on premises solicitation by nonemployees and employees because these activities can interfere with normal operations, annoy customers and pose a threat to security.

The District may authorize a limited number of charitable or gift fund drives by employees and you are encouraged to volunteer to assist in these drives, but participation is entirely voluntary.

COMMUNICATION WITH THE MEDIA

The District recognizes your right to communicate with the media and the public. However, we caution you to exercise care regarding your perceptions of District policy and procedure and encourage you to refer any questions you receive to the District Clerk, your Supervisor or the General Manager.

TAB 9

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 9

[ ]	PUBLIC HEARING	[ ]	RESOLUTION
[X]	DISCUSSION	[ ]	BID/RFP AWARD
[ ]	GENERAL APPROVAL OF ITEM	[ ]	CONSENT AGENDA
[ ]	Other:		

SUBJECT: Contract for Vacuum Station D

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.C.
Date: 11-13-08

Originating Department: General Manager	Costs: $ 961,267.00 Funding Source: Acct. #	**Attachments:**
Department Review: [X] District Counsel TD. [X] General Manager CJC [ ] Finance _____	[X] Engineering EC [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Staff recommends approval of the contract with Overholt Construction Corporation for construction of Vacuum Station "D" that will serve Basin C and Basin D south of Adams Cut.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

MEMORANDUM

FROM: Thomas M. Dillon, Attorney at Law
Board Certified in Construction Law
P.O. Box 370736
Key Largo, Florida 33037-0736

Tel: 305-240-1767
Fax: 305-853-2693
E-mail lawtmd@gmail.com

To: C. F. Fishburn, General Manager
Key Largo Wastewater Treatment District

Date: October 15, 2008

Subject: Vacuum Station

Under Section 255.20 Fla.Stat., the District is required to award construction contracts over $200,000 by competitive means. However an exception applies when the District has competitively awarded a project to a private sector contractor and the contractor has abandoned the project before completion. § 255.20(c)(8). The District used competitive sealed bidding to procure construction of a vacuum station at Basin D.

The original bid opening was on June 30, 2008. Six bidders submitted bids, but three of them were found to be nonresponsive due to failure on the parts of the bidders to submit certifications required by the State Revolving Fund. The lowest responsive bidder was Wright Construction Group, at $1,234,700. Two nonresponsive bids were much lower than Wright: Marlin Holding Inc., at $822,500, and General Contracting Services, Inc., at $1,116,600. The District decided to reject all bids and to rebid the work.

The second bid opening was August 20, 2008. The lowest bidder was Overholt Construction, at $961,267.00. However, Overholt's bid was rejected because Overholt failed to submit certifications required by the State Revolving Fund. The lowest responsive bid was Marlin Holdings, Inc., at $963,200. The District notified Marlin that it was the apparent low bidder on or about August 22.

Thereafter, unsolicited by the District, Overholt submitted the certifications required by the State Revolving Fund.

After review of additional information, the District sent a notice of award to Marlin on September 19. Marlin was required to submit a signed contract and payment and performance bond on or before October 3. Marlin failed to meet this deadline, and made an oral request for additional time. The General Manager, after consultation with the writer, allowed Marlin until October 10, to submit the required documents. On October 8, Marlin submitted a letter from its surety agent requesting a further extension until October, 17, which the General Manager granted.

As of the date of this memorandum, Marlin has not signed the contract or supplied the payment and performance bond. Based on information available to me, it is doubtful that Marlin will be able to meet the October 17 deadline.

The General Manager has requested and received a written confirmation from Overholt that it is willing to perform the work at its bid price of August 20, which is about $2,000 less than the Marlin bid.

Assuming Marlin does not meet the October 17 deadline to sign the contract and submit the payment and performance bond, I recommend that the District consider Marlin to have abandoned the contract, and to take the following steps:

1. Forfeit Marlin's bid security in the amount of $48,063.35; and
2. Execute a contract with Overholt in the amount of $961,267.00.

As noted above, the District is not required under Florida law to follow competitive procedures to contract with Overholt in this case. However, if the District contracts with Overholt, the District will receive the lowest price submitted on August 20.

OVERHOLT
CONSTRUCTION CORPORATION

CGC 000164
CGC 022801
CGC 057740

Experience in South Florida Since 1948

Mr. Charles F. Fishburn, General Manager
Key Largo Wastewater Treatment District
P.O. Box 491
Key Largo, Florida 33037

Re: Vacuum Station D

Dear Mr. Fishburn,

We confirm that our bid submitted on August 20th, 2008 is still valid and will enter into contract at the same dollar amounts as presented originally.

If you have any questions, please call me.

Sincerely,

Craig Overholt

SECTION 00510

NOTICE OF AWARD FORM

TO: Marlin Holding, Inc.

NAME OF PROJECT: Vacuum Station Basin D

The OWNER has considered the BID submitted by you, dated Sept. 19, 2008 for the above described WORK in response to the Invitation for Bids and Information for Bidders.

You are hereby notified that your BID has been accepted for BID items in the amount of $ $963,200.00

You are required by the Instructions to Bidder to execute the Agreement and furnish the required CONTRACTOR's Performance Bond, Payment Bond, and certificates of insurance within fourteen (14) calendar days from the date of this Notice to you. If you fail to execute said Agreement and to furnish said Bonds and insurance within fourteen (14) calendar days from receipt of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER's acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this 19th day of September, 2008.

OWNER: Key Largo Wastewater Treatment District
(Name of OWNER)

By (Signature)

Charles F. Fishburn, General Manager
(Printed Name and Title)

ACCEPTANCE OF NOTICE

Receipt and acceptance of the above NOTICE OF AWARD is hereby acknowledged by Jeanette Silvestri this 19 day of September, 2008

Marlin Holding Inc
By

Jeanette Silvestri, Secretary of Corp.
Printed Name and Title

END OF SECTION

20-Aug-08	Key Largo Wastewater Treatment District		Vacuum Lift Station Basin D Bid
	Item No.	1	
	Description	Vacuum Lift Station Base Bid	**Total Base Bid**
	Units	LS	
	Quantity	1	
	Unit Cost	$1,733,344.00	
E.T.MacKenzie of Florida	**Total Cost**	$1,733,344.00	**$1,733,344.00**
	Unit Cost	$1,295,700.00	
Wright Construction Group	**Total Cost**	$1,295,700.00	**$1,295,700.00**
	Unit Cost	$1,463,000.00	
Intrastate Construction Corp.	**Total Cost**	$1,463,000.00	**$1,463,000.00**
	Unit Cost	$963,200.00	
Marlin Holding Inc.	**Total Cost**	$963,200.00	**$963,200.00**
	Unit Cost	$1,097,800.00	
General Contracting Services Inc.	**Total Cost**	$1,097,800.00	**$1,097,800.00**
	Unit Cost	$961,267.00	
Overholt Construction (non-responsive)	**Total Cost**	$961,267.00	**$961,267.00**

TAB 10

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 10

[ ] PUBLIC HEARING [ ] RESOLUTION

[X] DISCUSSION [ ] BID/RFP AWARD

[ ] GENERAL APPROVAL OF ITEM [ ] CONSENT AGENDA

[ ] Other:

SUBJECT: Change order Basin B-2

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.F **Date:** 11-13-08

Originating Department: General Manager	Costs: $1,150,980 Funding Source: Acct. #	**Attachments:** Change Order
Department Review: [X] District Counsel TD [X] General Manager C.J.F [X] Finance MW	[X] Engineering EC [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Staff is in uniform agreement that Ric-Man International has performed good work on Basin B-1, as is the Districts past practice, Staff has attempted to negotiate with Ric-Man International to accept a change order for Basin B-2 based on previous publicly bid prices. Ric-Man has declined to accept a change order at the bid prices.
Staff is not in full agreement with whether to award B-2 at Ric-Man's latest proposal. However, the General Manager believes it is in the best interest of the District to award this change order at the latest proposed price which includes $45,000 in mobilization.
Note: Fountain Engineering and LaRocco (two of our existing contractors) were 60% and 72%, respectively above, Ric-Man's bid on Phase B-1
B-1. Also note that of the four low bidders on Basin B-1, one has declared bankruptcy and another has been disqualified by the City of Marathon.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

Service Area 'B' - Pase II

Item No.	Description	QTY	Unit	Unit Price	Extended Price
1	Mobilization	1	LS	$ 90,000.00	$ ~~90,000.00~~ 45,000
2	Indemnification	1	LS	$ 100.00	$ 100.00
3	Preconstruction Video	1	LS	$ 4,500.00	$ 4,500.00
4	Maintenance of Traffic	1	LS	$ 17,000.00	$ 17,000.00
5	Erosion and Sedimentation Contol, Silt Fence	1	LS	$ 9,000.00	$ 9,000.00
7	Furnish and Install SDR21 PVC Vacuum Sewer			$ -	$ -
a	4-inch	7,500	LF	$ 44.00	$ 330,000.00
b	6-inch	650	LF	$ 49.00	$ 31,850.00
c	8-inch	-	LF	$ -	$ -
d	10-inch	-	LF	$ -	$ -
8	Furnish and Install resilient wedge gate (V-3) division valves and boxes			$ -	$ -
a	4-inch	6	EA	$ 930.00	$ 5,580.00
b	6-inch	-	EA	$ -	$ -
c	8-inch	-	EA	$ -	$ -
9	Install Owner-furnished AirVac vacuum collection pit assemblies, complete			$ -	$ -
a	Type A - 5 foot deep pit	1	EA	$ 2,000.00	$ 2,000.00
b	Type B - 6.5 foot deep pit	51	EA	$ 2,700.00	$ 137,700.00
c	Type C - 7.5 foot deep pit	14	EA	$ 2,800.00	$ 39,200.00
10	Furnish and install 3-inch Vacuum connection	1,000	LF	$ 36.00	$ 36,000.00
11	Install Owner-furnished AirVac dedicated air intake/vertical	66	EA	$ 330.00	$ 21,780.00
12	Furnish and install dedicated air intake/horizontal	350	LF	$ 45.00	$ 15,750.00
13	Furnish and install 6-inch PVC clean-out	219	EA	$ 380.00	$ 83,220.00
14	Furnish and install 6-inch gravity laterals	4,200	LF	$ 59.00	$ 247,800.00
15	Asphalt roadway/driveway restoration	1,500	LF	$ 44.00	$ 66,000.00
16	Asphalt overlay	4,500	SY	$ 13.00	$ 58,500.00
	TOTALS:				$ ~~1,195,980.00~~

RIC-MAN PROPOSAL - $1,150,980

Key Largo Wastewater Treatment District
Basin B, Phase 2
Prepared by: M. Blank
31-Oct-08

Basin B Phase 2				Base Bid - Phase 1 Prices		Basin D - Phase 2 Prices		RicMan Proposal - 10/31/08		Basin A - Phase 1 Prices		Basin A - Phase 3 Prices	
Item No.	Description	Units	Quantity	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1	Mobilization[1]	LS	1	$ 122,000.00	$ 122,000.00	$ 1,000.00	$ 1,000.00	$ 54,100.00	$ 54,100.00	$ 15,000.00	$ 15,000.00	$ 3,000.00	$ 3,000.00
2	Preconstruction Video	LS	1	$ 3,600.00	$ 3,600.00	$ 10,000.00	$ 10,000.00	$ 4,500.00	$ 4,500.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
3	Maintenance of Traffic	LS	1	$ 14,000.00	$ 14,000.00	$ 20,000.00	$ 20,000.00	$ 17,000.00	$ 17,000.00	$ 30,000.00	$ 30,000.00	$ 10,000.00	$ 10,000.00
4	Furnish and Install SDR21 PVC Vacuum Sewer												
4a	4-inch	LF	7,500	$ 34.00	$ 255,000.00	$ 42.00	$ 315,000.00	$ 44.00	$ 330,000.00	$ 46.00	$ 345,000.00	$ 35.00	$ 262,500.00
4b	6-inch	LF	650	$ 44.00	$ 28,600.00	$ 45.00	$ 29,250.00	$ 49.00	$ 31,850.00	$ 53.50	$ 34,775.00	$ 45.00	$ 29,250.00
4c	8-inch	LF	-	$ 60.00	$ -	$ -	$ -	$ -	$ -	$ 59.50	$ -	$ 55.00	$ -
4d	10-inch	LF	-		$ -	$ 50.00	$ -	$ -	$ -		$ -		$ -
5	Furnish and Install resilient wedge gate (V-3) division valves and boxes												
5a	4-inch	EA	6	$ 750.00	$ 4,500.00	$ 1,000.00	$ 6,000.00	$ 930.00	$ 5,580.00	$ 1,000.00	$ 6,000.00	$ 1,000.00	$ 6,000.00
5b	6-inch	EA	-	$ 880.00	$ -	$ 1,300.00	$ -	$ -	$ -	$ 1,200.00	$ -	$ 1,600.00	$ -
5c	8-inch	EA	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,500.00	$ -	$ 2,000.00	$ -
5d	10-inch	EA	-	$ -	$ -	$ 2,000.00	$ -	$ -	$ -		$ -		$ -
6	Install Owner-furnished AirVac vacuum collection pit assemblies, complete												
6a	Type A - 5 foot deep pit	EA	1	$ 620.00	$ 620.00	$ 1,500.00	$ 1,500.00	$ 2,000.00	$ 2,000.00	$ 2,300.00	$ 2,300.00	$ 2,000.00	$ 2,000.00
6b	Type B - 6.5 foot deep pit	EA	51	$ 620.00	$ 31,620.00	$ 2,500.00	$ 127,500.00	$ 2,700.00	$ 137,700.00	$ 2,400.00	$ 122,400.00	$ 2,100.00	$ 107,100.00
6c	Type C - 7.5 foot deep pit	EA	14	$ 1,200.00	$ 16,800.00	$ 2,600.00	$ 36,400.00	$ 2,800.00	$ 39,200.00		$ -		$ -
7	Furnish and install 3-inch Vacuum connection	LF	1,000	$ 14.00	$ 14,000.00	$ 45.00	$ 45,000.00	$ 36.00	$ 36,000.00	$ 50.00	$ 50,000.00	$ 50.00	$ 50,000.00
8	Install Owner-furnished AirVac dedicated air intake/vertical	EA	66	$ 500.00	$ 33,000.00	$ 500.00	$ 33,000.00	$ 330.00	$ 21,780.00	$ 350.00	$ 23,100.00	$ 500.00	$ 33,000.00
9	Furnish and install dedicated air intake/horizontal	LF	350	$ 40.00	$ 14,000.00	$ 50.00	$ 17,500.00	$ 45.00	$ 15,750.00	$ 50.00	$ 17,500.00	$ 45.00	$ 15,750.00
10	Furnish and install 6-inch PVC clean-out	EA	219	$ 310.00	$ 67,890.00	$ 400.00	$ 87,600.00	$ 380.00	$ 83,220.00	$ 525.00	$ 114,975.00	$ 300.00	$ 65,700.00
11	Furnish and install 6-inch gravity laterals	LF	4,200	$ 32.00	$ 134,400.00	$ 40.00	$ 168,000.00	$ 59.00	$ 247,800.00	$ 53.35	$ 224,070.00	$ 80.00	$ 336,000.00
12	Asphalt roadway/driveway restoration	LF	1,500	$ 35.00	$ 52,500.00	$ 50.00	$ 75,000.00	$ 44.00	$ 66,000.00	$ 53.00	$ 79,500.00	$ 160.00	$ 240,000.00
13	Asphalt overlay	SY	4,500	$ 9.30	$ 41,850.00	$ 13.00	$ 58,500.00	$ 13.00	$ 58,500.00	$ 11.50	$ 51,750.00	$ 14.00	$ 63,000.00
					$ 834,380.00		**$ 1,031,250.00**		**$ 1,150,980.00**		**$ 1,126,370.00**		**$ 1,231,300.00**
	COST PER CONNECTION =				$ 3,809.95		$ 4,708.90		$ 5,255.62		$ 5,143.24		$ 5,622.37

Note 1: Erosion and Sediment Control was a separate item in previous bids. It has been combined with Mobilization here for purposes of comparison. RicMan's proposal included Indemnification and Erosion and Sediment Control. These items have been rolled into Mobilization for the purposes of comparison.

Subj: **Re: 2nd Phase Key Largo**
Date: 10/31/2008 11:12:46 AM Eastern Daylight Time
From: Ed R Castle
To: Cffishburn, lawtmd@gmail.com, martinwaits@bellsouth.net

My recommendation is that we proceed with bidding B-2. We have offered Ric Man an increase in unit costs up to prices comparable to those of other contractors working for the District. Those other contractors agreed to drop mobilization for the change orders for additional phases. If Ric Man won't do so as well, we should terminate negotiations. I am confident we will get better numbers considering the current market.

Ed Castle, PE

In a message dated 10/31/2008 11:02:41 A.M. Eastern Daylight Time, Cffishburn writes:

> FYI
>
> Charles F. Fishburn, General Manager
> Key Largo Wastewater Treatment District
> 305-453-5804
>
> ---
>
> Plan your next getaway with AOL Travel. Check out Today's Hot 5 Travel Deals!
>
> ---
> Forwarded Message:
>
> Subj: **2nd Phase Key Largo**
> Date: 10/31/2008 10:36:16 A.M. Eastern Daylight Time
> From: ReneSr@ric-man.us
> To: Cffishburn@aol.com
> CC: dmancini@ric-man.us, margaretblank@bellsouth.net, Remol@ric-man.us, ReneC@ric-man.us
> *Sent from the Internet (Details)*
>
> Mr. Fishburn, thank you for your offer of additional work in Key Largo, it is greatly appreciated. We have reviewed or costs and your offer and find it very difficult to perform the work with such limited funds. We will however entertain a number between our request and your offer. This number can be negotiated with Remo and we will honor his decision.
>
> Thank You,
>
> Rene L Castillo SR
> Ric-Man Int'l
> Sent from Lap Top

Plan your next getaway with AOL Travel. Check out Today's Hot 5 Travel Deals!

Key Largo Wastewater Treatment District
Bid Tab - Basin B, Phase 1
28-Apr-08

Prepared by: M. Blank

Contractor Name	Bid Amount	Mobilization	%	
Ric-Man	1,017,430.00	122,000.00	12.0%	
Expertech Network	1,068,529.44	18,181.24	1.7%	
Conquest Engineering Group	1,124,980.00	50,625.00	4.5%	
Volt Telecommunications	1,143,974.00	53,214.00	4.7%	
Metro Equipment	1,184,146.00	58,236.00	4.9%	
Central Florida Equipment Rentals	1,216,852.00	62,500.00	5.1%	
GlobeTec	1,290,900.00	20,000.00	1.5%	
Budget Construction	1,361,000.00	125,000.00	9.2%	
Frederick Derr & Co.	1,393,075.00	35,000.00	2.5%	
Atlantic Civil	1,399,433.11	150,257.70	10.7%	
General Contracting Services, Inc.	1,423,875.00	150,000.00	10.5%	
Danella Utility Construction	1,592,851.00	158,700.00	10.0%	
Fountain Engineering	1,631,180.00	5,000.00	0.3%	+ 60%
Gianetti Contracting	1,679,400.00	73,000.00	4.3%	
LaRocco	1,744,900.00	100,000.00	5.7%	+ 72%
ET MacKenzie	1,778,022.00	200,876.00	11.3%	
Development & Communications Group	1,858,535.00	183,000.00	9.8%	
ADB Utility Contractors	1,928,657.92	185,074.00	9.6%	
Lanzo	1,974,300.00	150,000.00	7.6%	
Douglas Higgins, Inc.	2,290,100.00	75,000.00	3.3%	

TAB 11

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 11

[ ] PUBLIC HEARING [ ] RESOLUTION

[X] DISCUSSION [ ] BID/RFP AWARD

[ ] GENERAL APPROVAL OF ITEM [ ] CONSENT AGENDA

[ ] Other:

SUBJECT: State Funding

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.Z
Date: 11-13-08

Originating Department: General Manager	Costs: $ Funding Source: Acct. #	**Attachments:**
Department Review: [ ] District Counsel _____ [X] General Manager C.J.Z [ ] Finance _____	[ ] Engineering_____ [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Further discussion with the County and FDEP indicate that the basis for the $200 million State bond distribution is the County "Keys Wastewater Plan", dated November 2007.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

Subj: **$200 Million State Assistance ILA**
Date: 11/6/2008 4:44:32 PM Eastern Standard Time
From: martinwaits@bellsouth.net
To: gbauman@yahoo.com, tobinlaw@terranova.net, cbullock417@aol.com, nhkeylargo@comcast.net, fordhamm@terranova.net, cbrooks442@aol.com, keyskritters@bellsouth.net
CC: lawtmd@gmail.com, cffishburn@aol.com

Commissioners,

Following your discussion of the $200 million State bond funding item at the Board meeting Tuesday night, I have taken the opportunity to conduct two very candid and lengthy telephone conversations, first on Wednesday with Geofrey Mansfield at the FDEP (legislative assistant to Tom Hanby, Secretary Sole's top legislative aide), and today with Susanne Hutton, County Attorney who prepared the attached ILA draft circulated for review and comment to all of the stakeholders.

The FDEP has been directed to include the annual bond cost for appropriation in its budget and is almost certain to be the conduit of funds to Monroe County. An ad hoc committee of State agencies consisting of the DCA, FDEP, and Finance has been directed by the Cabinet to coordinate the $200 million bond issue. It is clear that many of the provisions contained in the County's draft ILA may not be subject to local control, and are therefore premature for local discussion. For example, the terms and conditions of the bond issue may stipulate the use, priority of use, and local match requirements regardless of any local agreement. Also, the FDEP has traditionally avoided distribution of funds through one local entity to other local entities participating in the same program, and each stakeholder would probably deal directly with the FDEP. However, no specific guidance can be provided from the State level at this time since the ad hoc committee has not yet begun its work.

The last contact the County Attorney has had at the State level was 10 months ago when they were directed to achieve consensus on the allocation of the $200 million to each stakeholder. I reviewed my FDEP conversation with her in great detail, and she agreed that many, if not most, of the current provisions in the draft ILA may not be subject to local control and therefore could be inappropriate. She concurred that the ILA may eventually provide for nothing more than the size of each stakeholder's share, which would then be incorporated in the appropriation legislation. She also committed to soliciting State level input on drafting from the DCA, FDEP and Finance in the weeks to come, and recorded contact information for individuals with whom we regularly deal at the FDEP. She also provided me with certain DCA contacts the County uses regularly.

I also took the opportunity to express my personal opinion, based upon Board meeting discussion, that (1) Chuck's proposal to leave $21 million on the table in exchange for $25 million in the first year would not be approved by the Board because it did not achieve equity for the residents of Key Largo, and (2) the basis for participation by Key West in the funding would be a major issue.

Suzanne agreed that our telephone conversation would be more than sufficient to fulfill her request for comment on the draft ILA at this time, and that if for any reason a more formal response was required to protect the District's interests she would advise by email with very specific direction. Based upon the foregoing interactions, I would strongly advise against any additional proactive response or activity by the District or its representatives at this time. I believe most of the issues will be resolved by directives from State agencies and are beyond local control.

Marty

Keys Wastewater Plan

Prepared By:

Monroe County Engineering Division

1100 Simonton Street, Suite 2-216
Key West, FL 33040

At the Request of:
Florida House of Representatives
Environment and Natural Resources Council
2007-2008 Interim Project

November 2007

Subj: **Keys Wastewater Plan**
Date: 11/30/2007 6:39:35 PM Eastern Standard Time
From: Wood-Liz@monroecounty-fl.gov
To: ron.saunders@myfloridahouse.gov, Tom.Hamby@LASPBS.STATE.FL.US, Lynn.Dixon@LASPBS.STATE.FL.US, Jon.Iglehart@dep.state.fl.us
CC: Gus.Rios@dep.state.fl.us, Timothy.Banks@dep.state.fl.us, cweaver@sfwmd.gov, chriskw@bellsouth.net, clawson@keyscpa.com, joeltjen@orcareef.com, martinwaits@bellsouth.net, myles.milander@islamorada.fl.us, rshimokubo@fkaa.com, kshelby@fkaa.com, thomass@ci.marathon.fl.us, Cffishburn@aol.com, bullc@ci.marathon.fl.us, cbullock417@aol.com, dave.boernet@islamorada.fl.us, Doug@keywestgolf.com, gary.word@islamorada.fl.us, Jreynolds@FKAA.Com, putom@ci.marathon.fl.us, sharing@cityoflayton.com

Dear Representative Saunders:

Attached please find the Keys Wastewater Plan. Original plans will be delivered on Monday to you, Representative Mayfield, Mike Collins, Mike Sole, as well as those individuals to whom this email has been sent directly.

The Monroe County Wastewater Department appreciates the opportunity to compile this information on behalf of the Monroe County community and appreciates the assistance of each wastewater entity toward preparing the Plan.

I look forward to hearing that Monroe County will begin receiving legislative appropriations again in FY09. Please feel free to contact me anytime!

Elizabeth Wood
Senior Administrator, Sewer Projects
The Historic Gato Cigar Factory
1100 Simonton Street, Room 2-216
Key West, FL 33040
305-292-4525 office
305-295-4321 fax
wood-liz@monroecounty-fl.gov

HELP US HELP YOU!
Please take a moment to complete our Customer Satisfaction Survey:
http://monroecofl.virtualtownhall.net/Pages/MonroeCoFL_WebDocs/css **Your feedback is important to us!**

Please note: Florida has a very broad public records law. Most written communications to or from the County regarding County business are public record, available to the public and media upon request. Your e-mail communication may be subject to public disclosure.

EXECUTIVE SUMMARY

This Keys Wastewater Plan, prepared at the request of the Florida House of Representatives Environment and Natural Resources Council, provides a comprehensive summary of county-wide progress toward achieving compliance with 2010 wastewater effluent standards. Background information for each local government and utility responsible for installation of wastewater treatment facilities is provided. The costs associated with completed and remaining projects is provided on a county-wide basis, as well as for each wastewater project. A summary of unfunded costs per year has been compiled based on information submitted by each wastewater entity.

Implementation of this Keys Wastewater Plan is estimated to cost $939M to implement through completion. Approximately $264M will have been spent through the end of September 2008 to retrofit Monroe County with 2010 compliant wastewater treatment. Approximately $50M of this cost has been funded through grants from the State of Florida. The remaining cost to implement the Keys Wastewater Plan is estimated at $675M. The funding gap between project costs and available funding is $336M.

Monroe County and municipal governments are committed to completing implementation of the Keys Wastewater Plan. The Keys Wastewater Plan has essentially adopted the Master Plan recommendation to install regional wastewater treatment systems and to minimize the on-site wastewater nutrient reducing systems (OWNRS). With July 2010 just two and a half years away, it is imperative that funding plans for these projects be completed prior to the deadline to minimize the use of OWNRs which have not been documented to meet Best Available Technology standards.

INTRODUCTION

In 1999, the Florida Legislature set Advanced Wastewater Treatment (AWT) effluent standards of 5 milligrams/liter (mg/L) for biological oxygen demand (BOD), 5 mg/L for total suspended solids (TSS), 3 mg/L for total nitrogen (TN) and 1 mg/L for total phosphorus (TP) and Best Available Technology (BAT) standards of 10 mg/L BOD, 10 mg/L TSS, 10 mg/L TN and 1 mg/l TP. The incremental cost beyond secondary treatment to achieve nutrient reduction compliant with the BAT/AWT effluent standards is directly related to water quality improvement for preservation of natural resources.

The Monroe County Master Plan (2000) evaluated alternatives ranging from regional centralization to simply replacing existing onsite systems with BAT treatment. Monroe County was divided into 27 study areas for the analysis and assessed to identify the costs and nutrient load reduction associated with each alternative. Regional collection and treatment at AWT/BAT standards scored highest in all but 3 areas.

Wastewater treatment projects within the boundaries of Monroe County are being implemented by 9 separate entities (utilities and local governments) who are all part of a comprehensive effort to meet the State's 2010 requirements for wastewater effluent. The municipalities of Islamorada, Key Colony Beach, Marathon, and Key West have established utilities. The City of Layton partnered with the Florida Keys Aqueduct Authority (FKAA) for wastewater treatment. Within unincorporated Monroe County, implementation of the Master Plan is being handled by the North Key Largo Utility Corp. at Ocean Reef, the Key Largo Wastewater Treatment District in Key Largo and Key West Resort Utility Corp. at Stock Island. The Florida Keys Aqueduct Authority and Monroe County have partnered to complete remaining projects in the unincorporated areas. Refer to Appendix A for a description of the wastewater utilities and governmental entities, as well as Figures 1-3 that depict their geographic location within Monroe County.

SECTION 1

PROJECT STATUS

This section provides a status summary for the completed and proposed wastewater projects within Monroe County. Each wastewater entity has made progress toward achieving 2010 compliance consistent with the hot spot priorities reported in the Master Plan. Table 1.0 provides a summary of Equivalent Dwelling Units (EDUs) served by each wastewater project. Approximately 38% of the 75,000 county-wide EDUs are compliant with 2010 effluent requirements. Another 11% are under construction and 22% are in the engineering design phase. Additional detail on the technical approach for each wastewater project is further described in Appendix B.

Table 1.0 Monroe County Wastewater Project Implementation Summary

Wastewater Project	Total EDUs	Planning	Design	Construction	Connection[1]	
		EDUs	EDUs	EDUs	Completed EDUs	Remaining EDUs
Village of Islamorada	10,690	9,690	0	0	500	500
Key Colony Beach	1,502				1,502	
City of Marathon	7,818		5,429	2,389		
City of Key West	24,075				24,075	
City of Layton	350				317	33
Ocean Reef[2]	1,800		1,800			
Key Largo	13,707	5,483	5,442	1,752	789	241
Stock Island[2]	2,672			2,672		
Unincorporated Monroe County	12,381	6,781	3,552	1469	359	70
Total	74,995	21,954	16,223	8,282	27,542	844
Percentage	100%	29%	22%	11%	37%	1%

[1] Connection refers to areas in compliance with 2010 effluent requirements.
[2] Central collection systems are installed in these areas; upgrade of secondary WWTPs to AWT required.

SECTION 2

IMPLEMENTATION SCHEDULE

This section provides an overview of the Keys Wastewater Plan Implementation Schedule. Each wastewater developed and submitted its own priority schedule based on project scope, funding availability and 2010 compliance. There is currently no comprehensive plan that prioritizes the projects on a county-wide basis.

Village of Islamorada

The Village of Islamorada has completed construction of the AWT plant to serve 1,400 EDUs and the collection system to serve 1,000 EDUs in North Plantation Key. A decentralized system for approximately 150 EDUs in the low population density area of Lower Matecumbe is in the engineering design phase. Construction of a central collection system and AWT plant to serve the remaining 1596 EDUs in Lower Matecumbe is planned to begin August 2009.

Two projects with collection systems and WWTPs to serve the remaining 6,741 EDUs on Plantation Key and Upper Matecumbe Key are planned to begin by February 2008 and February 2010, respectively. The Windley Key collection system and WWTP to serve 804 EDUs are planned for construction in October 2010.

Key Colony Beach

Key Colony Beach operates a central collection system and AWT plant serving 1,500 EDUs. The collection system, which was constructed in 1960, requires repair to minimize infiltration and inflow, as well as to maximize treatment efficiency. This project is compliant with 2010 wastewater effluent standards.

Marathon

Construction of the Little Venice central collection system and AWT plant serving 945 EDUs is complete. Construction of the collection system to serve another 2,389 EDUs is complete and design of the central collection system and WWTPs for the remaining six service areas to serve 5,429 EDUs is complete. Compliance with the 2010 effluent requirements will be achieved, provided that construction of the remaining Marathon projects begins by January 2009.

City of Key West

The City of Key West operates an AWT plant serving 24,075 EDUs. This project is compliant with 2010 wastewater effluent standards.

City of Layton

FKAA operates a BAT plant serving 350 EDUs in the City of Layton. This project is compliant with 2010 wastewater effluent standards.

Ocean Reef

The North Key Largo Utility Corporation operates a secondary treatment facility serving 1800 EDUs at Ocean Reef. Construction is anticipated to be complete by July 2010.

Key Largo

KLWTD, which is divided into 14 sub-service area basins, currently operates an AWT plant serving approximately 1,000 EDUs within the Basin E sub-service area. Construction of the collection system to serve an additional 1750 EDUs in Basins A and D is underway. Engineering is underway for the collection systems to serve approximately 5,442 EDUs in Basins B, C, the remaining portion of Basin E, and Basin F. Construction of the AWT plant to serve Basins A-K is scheduled to begin in March 2008. Construction of the remaining collection systems for Basins G-K, as well as the southern force main are scheduled to begin between October 2009 and July 2010.

Stock Island

Key West Resort Utility Corporation serves 1672 EDUs on Stock Island and is completing the upgrade of the existing secondary plant to AWT.

Unincorporated Monroe County

FKAA currently operates a BAT plant serving 429 EDUs in Baypoint. Seven projects are planned to provide 2010 compliant wastewater service to the remaining areas. Construction of the central collection system and AWT plant to serve 2200 EDUs in the South Lower Keys is underway and scheduled for connection in March 2009. Design of the central collection system and AWT Plant to serve 2200 EDUs in the Middle Lower Keys is underway. Connections to the system could commence as early as March 2010 provided that construction commences in October 2008. A combination of central and decentralized wastewater service to serve 4450 EDUs is planned for the Middle Lower Keys. Design of the system is scheduled to begin in October 2008 with construction beginning in October 2009. It is anticipated that connections to the central system will begin in March 2011.

SECTION 3

PROJECT COSTS AND FUNDING SOURCES

The project completion dates discussed above, and outlined in detail in Appendix C are contingent upon the wastewater entities securing adequate funding for all phases of the projects. The current estimate to complete all of the projects is $937M; currently, 64%, or $601M is funded and 36%, or $336M is unfunded.

The total project cost is comprised of the following elements that cover the project from conception to connection to the completed system:

- ***Planning and Administration*** – including such activities as the preparation of master plans, facilities plans and capital financing plans.
- ***Engineering and Design*** - including engineering and design costs for preliminary engineering, detailed design and preparation of project specifications for bid documents.
- ***Land Costs*** – includes the acquisition of land and sites for treatment plants, remote pump stations and other necessary hardware.
- ***Construction Costs*** – including the construction of plants, collection systems, and roadway/paving restoration. The construction cost estimates provided also incorporate appropriate planning and cost escalation contingencies.

Wastewater projects are currently funded from several sources. These sources are:

- ***Local Planning and Engineering Revenue*** – several Keys entities have secured funding for planning and engineering by implementing Municipal Service Taxing Units or levying non-ad valorem assessments.
- ***System Development Fee Revenue*** – another primary source of funding for many Keys wastewater entities is system development charges/fees to its residential and commercial customers. In many cases, this revenue stream has been pledged for repayment of construction bonds and/or FDEP State Revolving Fund loans.
- ***Additional Local Revenue*** – includes the contribution of Local Discretionary Sales Surtax (1 cent) received by local government entities for capital projects
- ***State Grants*** – including grants from sources such as FDEP, South Florida Water Management District
- ***Federal Grants*** – including federal funding provided by the Army Corp of Engineers and FEMA

Table 3.0 Keys Wastewater Plan – Project Costs and Funding Sources summarizes the project cost breakdown for each wastewater entity, the funding sources and amounts that have been secured to date, and the amount that remains unfunded. Additional detail on project costs and funding sources for each wastewater entity is in Appendix C.

Table 3.0 Monroe County Wastewater Project Costs ($M) and Funding Sources ($M) Summary

Project Cost Breakdown								
Wastewater Entity	Planning and Admin	Engineering and Design	Land Acquisition	Construction	Private Property Construction Costs	Total Construction Costs	**Total Project Costs**	**Total Funding Sources**
North Key Largo Utility Corp	$ 0.10	$ 0.75	$ -	$ 9.50	$ -	$ 9.50	$ 10.35	**$ 5.33**
Key Largo WTD	7.86	6.72	3.65	179.28	50.77	$ 220.55	$ 248.29	**167.58**
Islamorada	5.10	12.20	7.21	113.19	37.33	$ 145.19	$ 169.70	**115.89**
City of Layton	0.95	-	-	5.20	1.28	$ 6.48	$ 6.48	**6.48**
Key Colony Beach	-	-	-	-	-	0.50	0.50	**-**
Marathon	1.12	3.72	3.67	76.53	25.62	102.14	110.65	**84.74**
Monroe County and FKAA	11.38	10.80	2.30	235.97	42.15	$ 278.12	$ 302.60	**154.93**
Key West	-	2.00	-	23.03	-	$ 23.03	$ 89.03	**66.42**
Total Florida Keys	$ 26.51	$ 36.19	$ 16.83	$ 642.70	$ 157.15	$ 785.52	$ 937.60	**$ 601.38**

Funding Sources								
Wastewater Entity	System Development Fees	Private Construction Revenue	Local Planning Revenue (MSTUs)	Infrastructure Tax and Other Local Sources	State Grants	Federal Grants	**Total Funding Sources**	**Unfunded Costs**
North Key Largo Utility Corp	$ -	$ -	$ 5.18	$ -	$ 0.16	$ -	$ 5.33	**$ 5.02**
Key Largo WTD	75.01	50.77	4.01	22.50	10.08	5.21	167.58	**80.70**
Islamorada	66.22	32.00	-	0.85	10.30	6.51	115.89	**53.81**
City of Layton	0.95	1.28	0.10	1.28	3.35	0.80	6.48	**-**
Key Colony Beach	-	-	-	-	-	-	-	**0.50**
Marathon	34.98	25.62	2.79	12.76	8.10	0.50	84.74	**25.91**
Monroe County and FKAA	44.86	42.15	0.93	43.52	14.73	8.74	154.93	**147.68**
Key West	-	-	-	-	2.00	0.42	66.42	**22.61**
Total Florida Keys	$ 222.02	$ 151.82	$ 13.01	$ 80.91	$ 48.72	$ 22.18	**$ 601.38**	**$ 336.22**

As Table 3.0 indicates, $336M of the remaining wastewater work County-wide is not funded. Table 3.1 breaks this amount out by year based on current project timelines, so that the timeframe for expending funds can be seen.

Table 3.1 Funding Gap by Fiscal Year for Monroe County-Wide Wastewater Projects

Wastewater Entity	FY07 Unfunded	FY08	FY09	FY10	FY11	Total Unfunded
North Key Largo Utility Corp	$ -	$ 5,015,150	$ -	$ -	$ -	$ 5,015,150
Key Largo WTD	$ 13,212,068	$ 9,774,000	$ 19,595,000	$ 27,107,000	$ 11,015,000	$ 80,703,068
Islamorada	$ 23,162,000	$ 9,150,983	$ 16,435,500	$ 5,063,000	$ -	$ 53,811,483
City of Layton	$ -	$ -	$ -	$ -	$ -	$ -
Key Colony Beach	$ -	$ 500,000	$ -	$ -	$ -	$ 500,000
Marathon	$ 1,752,671	$ 21,471,600	$ 2,689,363	$ -	$ -	$ 25,913,634
Monroe County and FKAA	$ 49,170,000	$ 98,505,000	$ -	$ -	$ -	$ 147,675,000
Key West	$ 6,110,513	$ 5,745,540	$ 2,257,500	$ 2,664,750	$ 5,827,350	$ 22,605,653
Total Florida Keys	$ 93,407,252	$ 150,162,273	$ 40,977,363	$ 34,834,750	$ 16,842,350	$ 336,223,988

Monroe County Wastewater Projects require $150M between October 2008 and September 2009 to keep pace with wastewater compliance in July 2010. Representative Ros-Lehtinen has requested that the U.S. Army Corp of Engineers put $29M in its budget for the Water Quality Improvements program. The U.S. Army Corp of Engineers 2006 Environmental Assessment reported that, "The use of federal funds to assist in the construction of the wastewater treatment facility is the best means to reduce this nutrient source and protect the Sanctuary." If this request is awarded, the September 2008-October 2009 funding gap is reduced to $121M.

At least $60M of the $937M total project costs is directly attributable to upgrading facilities from secondary treatment to 2010 compliant standards. This figure includes the incremental cost to increase plant capacity to meet more stringent standards, (based on an assumption that the plant would require from 25% - 40% additional capacity) and deep-well injection, where required, to meet 2010 standards.

Appendix A -- Wastewater Entities and Maps

Wastewater Utilities/Entities in the Florida Keys

Upper Keys:

- **North Key Largo Utility Corporation (NKLUC)**: The North Key Largo Utility Corporation (NKLUC) is responsible for providing water and wastewater services to the Ocean Reef Community located on the northernmost tip of Key Largo. The Ocean Reef community is a gated membership-owned residential development with about 1,800 residential units and two golf courses.
- **Key Largo Wastewater Treatment District (KLWTD)**: The Key Largo Wastewater Treatment District (KLWTD) is an independent utility created by the State of Florida in June 2002. The KLWTD service area extends from the north end of the Florida Keys at the Dade County line (approximately US 1 Mile Marker (abbreviated as MM) 124) south and westward to Tavernier Creek (approximately MM 91) and includes the properties along County Road 905 up to but not including the Ocean Reef District.
- **Islamorada, Village of Islands:** Islamorada, Village of Islands, is a municipality which was incorporated in December 1997. Islamorada is comprised of four islands within the Florida Keys, beginning just south of MM 91 and extending to MM 73.

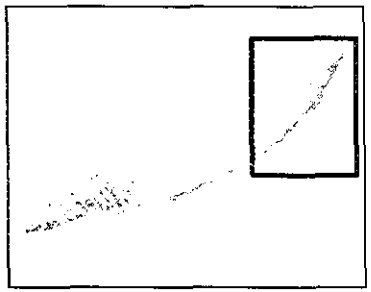
Middle Keys:

- **City of Layton:** The City of Layton, a municipality which incorporated in 1963, is located at MM 68.5 along the Overseas Highway on Long Key. The City of Layton's wastewater treatment project was implemented in partnership with the Florida Keys Aqueduct Authority (FKAA).
- **City of Key Colony Beach (KCB):** The incorporated municipality of City of Key Colony Beach is located at MM 53.5 on an island just south of the Overseas Highway connected via a causeway with a small bridge.
- **City of Marathon:** The City of Marathon is a municipality which was incorporated in 1999. The City of Marathon's boundaries are from the east end of the Seven Mile Bridge (approximately MM 47) to the west end of Tom's Harbor Bridge (approximately MM 60).
- **Unincorporated Middle Keys:** The unincorporated areas of Monroe County in the Middle Keys (Conch Key and Duck Key) are implementing wastewater treatment projects in partnership with the Florida Keys Aqueduct Authority (FKAA). Monroe County is represented by the County's Board of Commissioners. The FKAA was created in 1937 by special legislation of the State. The FKAA is the sole provider of potable water for all the residents of the Florida Keys, and in 1998 and 2002 the FKAA's enabling legislation was amended to include collection, treatment and disposal of wastewater in certain areas of the Keys.

Lower Keys:

- **The City of Key West:** The City of Key West, an incorporated municipal government is near the end of the chain of islands known as the Florida Keys, and is the southern-most city in the continental United States.

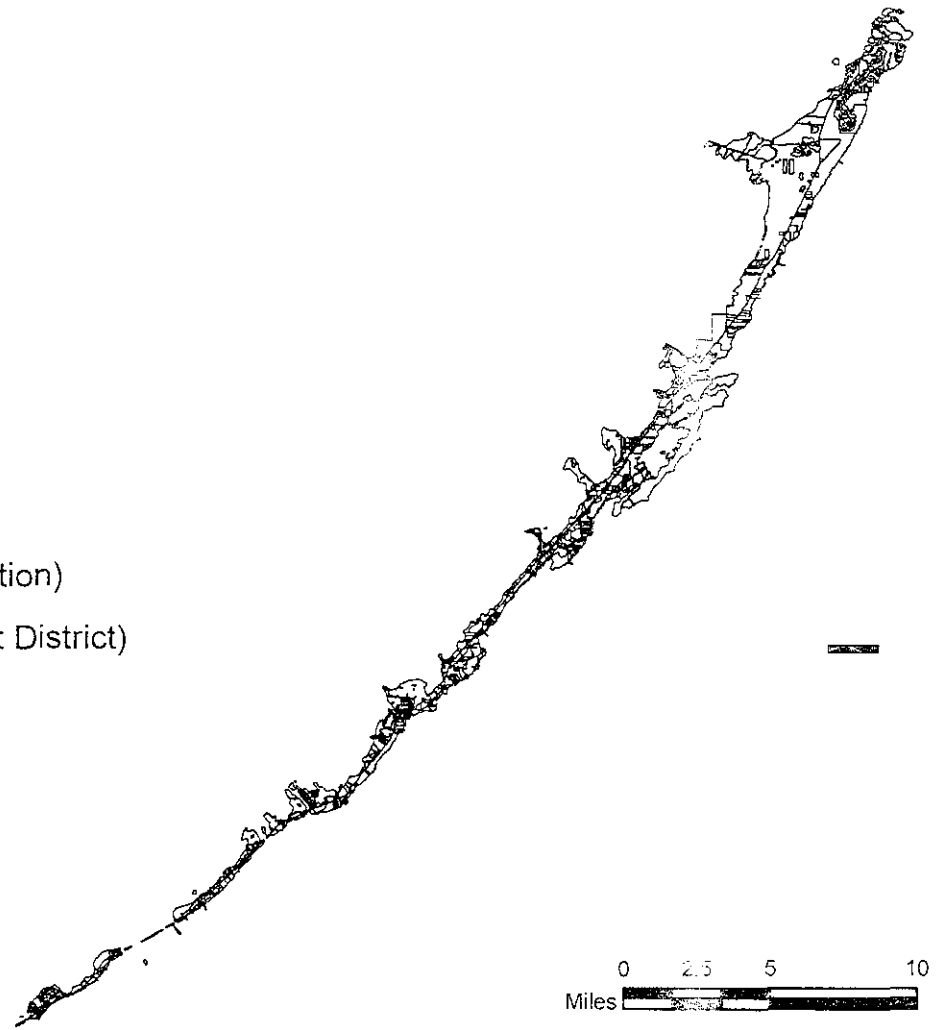
- **Unincorporated Stock Island:** Key West Resort Utilities Corp. is a private utility that provides AWT service to approximately 2,672 EDUs on Stock Island.
- **Unincorporated Lower Keys:** Wastewater projects in the unincorporated area of Monroe County in the Lower Keys from the west end of the Seven Mile Bridge to Key Haven at approximately MM 6.5 are being implemented in partnership with the Florida Keys Aqueduct Authority (FKAA).



Ocean Reef (North Key Largo Utility Corporation)

Key Largo (Key Largo Wastewater Treatment District)

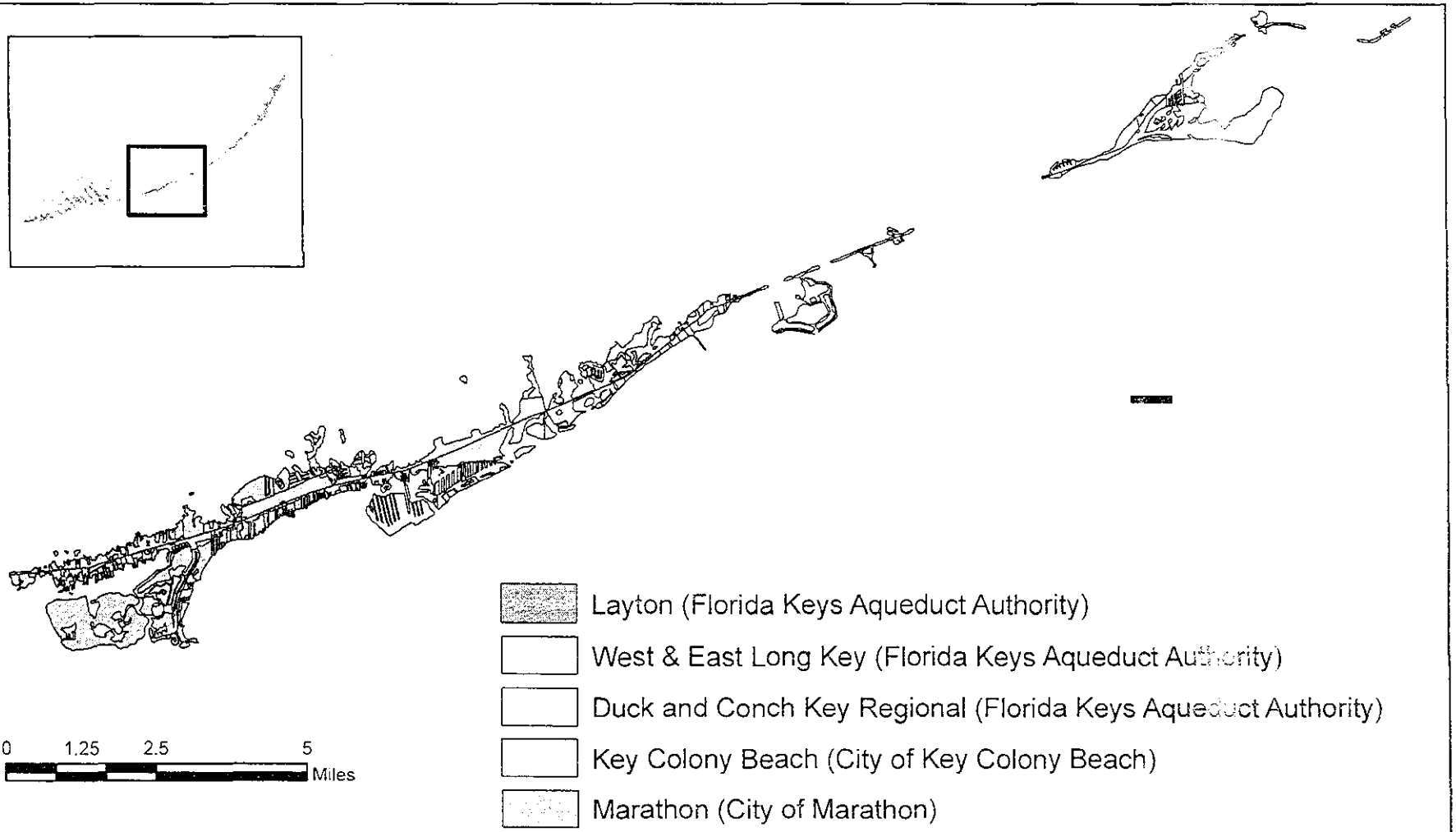
Islamorada (Islamorada, Village of Islands)



Monroe County Wastewater Department
1100 Simonton Street, Suite 2-216
Key West, Florida 33040

Upper Keys Wastewater Project Areas

Figure 1



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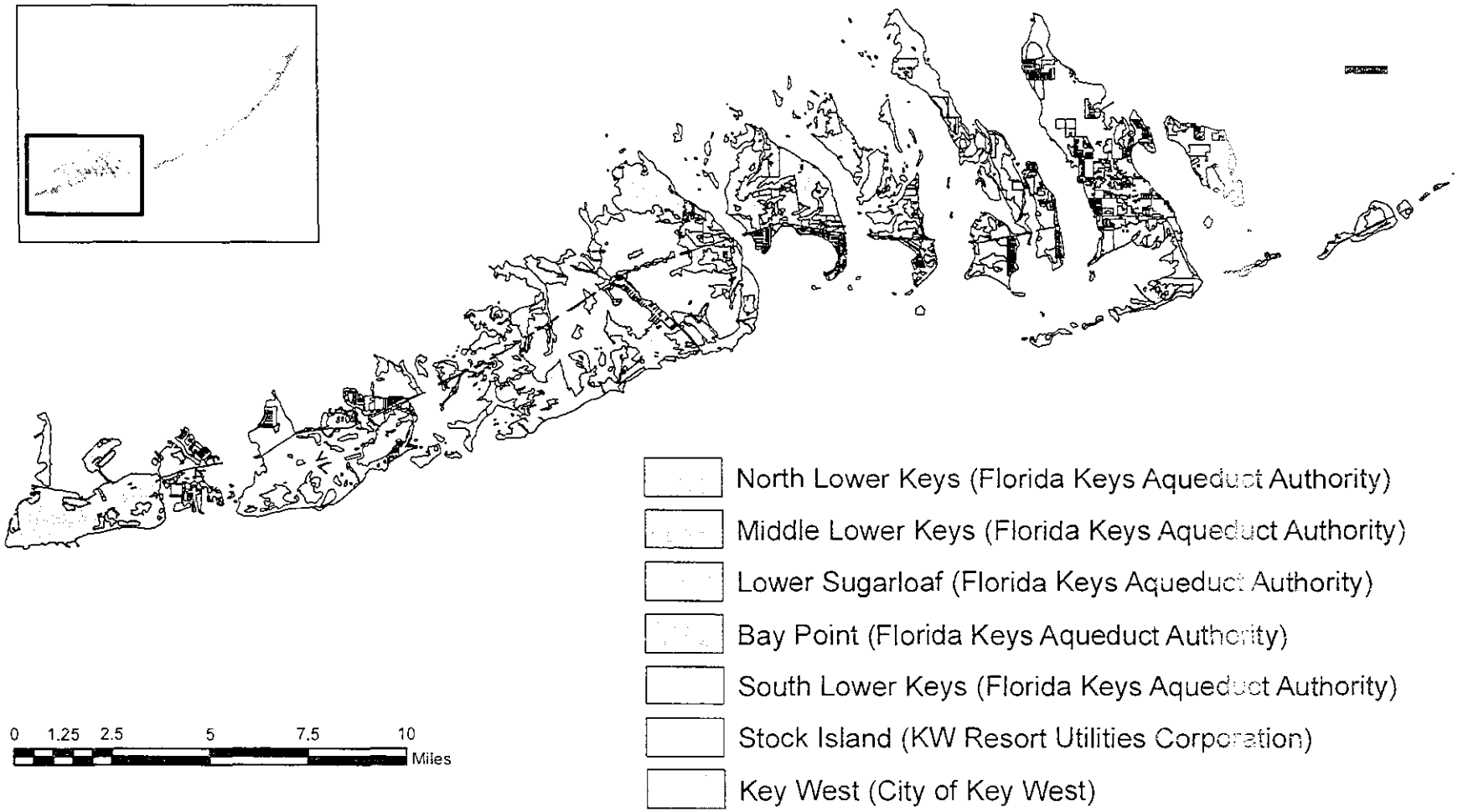
Middle Keys Wastewater Project Areas

Figure 2



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Lower Keys Wastewater Project Areas

Figure 3

Appendix B – Technical Approach

Technical Approach by Wastewater Project

There are several different entities in Monroe County which are concurrently responsible for achieving the county-wide goal of compliance with advanced wastewater treatment standards by 2010. The majority of these entities have adopted planning documents, such as master plans or facilities plans, which outline their technical and scheduling approach to implementation of their individual projects. The following information is a synopsis of the project implementation plan for each of these entities.

Islamorada

Islamorada's current wastewater management plan calls for replacement of existing wastewater infrastructure with municipally-managed wastewater collection and treatment systems. In all but one community, these systems will consist of centralized wastewater collection systems and wastewater treatment plants. The exception is the northeastern portion of Lower Matecumbe Key, where decentralized, clustered wastewater treatment systems are being evaluated for implementation.

The type of wastewater collection systems recommended by the Master Plan are vacuum systems, in which one or two large vacuum stations provide the mechanical force to draw wastewater from the source to the treatment plant. Immersed Membrane Bioreactor (IMB) plants are recommended for wastewater processing at Islamorada's centralized wastewater treatment facilities. The IMB process is an extended aeration activated sludge process in which a continuous flow of wastewater is treated at a predetermined flow rate. The advantages of this type of plant include its compact footprint, its ability to treat a range of flow rates, and the fact that the sludge it generates is more concentrated than in most other activated sludge processes, reducing disposal costs

Project Description by Project Segment/ Service Area

Five centralized wastewater treatment plant sites are envisioned for Islamorada's four islands. North Plantation Key, which produces 45% of Islamorada's wastewater, will support two plants, one in the northern area of the key, and one in the south. Current plans for Windley, Upper Matecumbe and Lower Matecumbe Keys entail one centralized wastewater treatment plant site per island.

The decentralized wastewater treatment system under consideration for the northeastern portion of Lower Matecumbe Key includes both onsite and offsite components. The offsite components will be clustered on a dedicated piece of property or properties separate from those being serviced.

Islamorada's implementation approach is divided into the following project segments/service areas:

- **North Plantation Key (NPK):** Construction of a 302,500 mgd-ADF wastewater treatment facility and a vacuum collection system which serves the area from approximately MM 90 north to Tavernier Creek Bridge.
- **South Plantation Key (SPK):** includes construction of a 303,000 mgd-ADF wastewater treatment facility at MM 86.7 and a vacuum collection system to serve the area from approximately MM 85.5 to MM 88

- **Mid-Plantation Key (MPK):** includes expansion of the existing plant at MM 90 on North Plantation Key to a total of 510,500 mgd-ADF and a vacuum collection system to serve the area from approximately MM 88 to MM 89.7
- **Lower Matecumbe Key (LMK):** includes construction of a 290,500 mgd-ADF wastewater treatment facility at MM 74.5 and a vacuum collection system to serve the area from approximately MM 73.6 to MM 77.6
- Upper Matecumbe Key (UMK) includes construction of a 585,000 mgd-ADF wastewater treatment facility at MM 80.9 and a vacuum collection system to serve the area from approximately MM 79 to MM 83.4
- **Windley Key (WK)** includes construction of a 128,700 mgd-ADF wastewater treatment facility at MM 84.6 and a vacuum collection system to serve the area from approximately MM 83.4 to MM 85.5

City of Key Colony Beach

Key Colony Beach first constructed a central municipal wastewater treatment plant and collection system in the late 1960's. Key Colony Beach subsequently completed a wastewater treatment plant renovation in order to make its existing plant AWT compliant shortly after the State legislative mandate in 1999 by borrowing funds from the State. However, because of the age of the collection system there are areas that need repair and replacement to prevent inflow and infiltration. KCB continues to replace faulty laterals, slip-line other areas, and replace and renovate manholes and plans to continue this process over the next 3 or 4 years until renovations are complete.

City of Marathon

The City's engineers have determined that vacuum systems are the most cost-effective method of wastewater collection for larger service areas, but that a combination of conventional gravity systems and macerator or STEP systems are more appropriate for smaller service areas. It was also determined that in areas of low density or remote location, on-site and cluster systems are the appropriate correct choice. The construction and O&M costs for various combinations of wastewater treatment plants were examined. It was found that the capital costs for construction of wastewater treatment plants (WWTPs) to serve the City of Marathon could be reduced by using a combination of: 1) pre-engineered systems; 2) upgraded existing WWTPs; 3) relocated BAT WWTPs; and 4) on-site and cluster type treatment systems. This also allowed the elimination of deep injection wells and long runs of force mains.

Project Description by Project Segments/Service Areas

Based on the technical approach outlined above, the Marathon project has been divided into seven service areas, briefly described as follows:

- **Service Area 1, Knight's Key**, is currently in process of re-development by a private developer. The year 2015 estimated wastewater flows are .023 MGD. The City of Marathon intends to partner with the developer to provide a new best achievable treatment (BAT) plant to handle the flows from the entire island. The City will design and construct a collection system to convey the existing properties' sewage to the new BAT wastewater treatment plant.

- **Service Area 2, Boot Key,** currently has one small facility surrounding the radio tower complex. The year 2015 estimated wastewater flows are .0006 MGD. The City will provide service on Boot Key with a small BAT on-site unit located such that gravity flow will provide the only needed conveyance.
- **Service Area 3, Vaca Key (west),** includes both ocean side and bayside from 11th Street up to 33rd Street. The year 2015 estimated wastewater flows are .247 MGD. This area will be served primarily by a vacuum collection system and a new .250 MGD nutrient removal wastewater treatment plant. Pine Island will be served with an on-site system
- **Service Area 4, Vaca Key (central),** includes both ocean side and bayside from 33rd Street through 60th Street as well as all of the Sombrero area. The year 2015 estimated wastewater flows are .399 MGD. This area will be served by a vacuum collection system and a new .400 MGD nutrient removal wastewater treatment plant. Effluent disposal will include re-use at the Sombrero Country Club.
- **Service Area 5, Vaca Key (east),** includes both ocean side and bayside from 60th Street through Vaca Cut and includes the Little Venice Area. The year 2015 estimated wastewater flows are .490 MGD. This area will be served by and expansion of the existing vacuum collection system and expansion of the existing Little Venice advanced wastewater treatment plant to .499 MGD. Effluent disposal will include re-use on the City of Marathon parks and events fields.
- **Service Area 6, Fat Deer Key (west),** includes both ocean side and bayside from Vaca Cut to Coco Plum and down Coco Plum Drive to it's end. The year 2015 estimated wastewater flows are .155 MGD. This area will be served by constructing vacuum collection system and upgrading an existing package plant in capacity and in treatment to meet advanced wastewater treatment standards.
- **Service Area 7, Grassy Key,** includes both ocean side and bayside from the east end of Fat Deer Key through to the east end of Grassy Key. The year 2015 estimated wastewater flows for this area are .063 MGD. The large geographic size and distance between properties in this area requires that a combination of systems be used in this area to be economically feasible. As a result, this area will be served by: re-location of at least two (2) BAT WWTPs from existing facilities, existing gravity systems, liftstations to redirect the flow to the new plants and on-site and cluster systems.

City of Key West

The City of Key West opened its wastewater treatment facility in 1989, but has experienced an economic and environmental crisis due to nearshore water pollution which closed all or most Key West beaches from May 1999 through May 2000. Extensive fecal coliform, enterococcus testing, and sewer system leak testing demonstrated that the raw sewage problem was primarily the result of leaky public (City and Navy) and private sewer lines. The City treated 40% seawater each day the pipes remained in disrepair. Sanitary sewer pipes that leak saltwater in (Inflow & Infiltration - I&I) from public and private property also leak raw sewage into groundwater and nearshore waters and exfiltration from the pipes endangers public health and the environment. The City has taken the following steps to address the problem:

- The City of Key West established a block-by-block dye/hydraulic testing of the watertight integrity of all public and private sewer systems. The City requires the immediate replacement of all leaky private property sewer laterals.
- In September 1999, the City accelerated the remaining 7-year sewer reconstruction capital plan into 24 months. All sewer collection system projects were to be completed within 3 years from March 1998.
- In July 2000 the City completed construction on a 3,200 foot Class I Deep Injection Well to eliminate the City's wastewater ocean outfall. A second back-up Deep Injection Well was completed in 2006.
- Key West accelerated the design and construction retrofit of the wastewater treatment plant (WWTP) to meet advanced wastewater treatment (AWT) standards in May 1999.
- The City eliminated 99.9% of all Key West septic tanks and cesspits.
- Key West requested the State and EPA to approve the Zero Discharge (ZD) Designation.
- The City completed an installation of an ultraviolet disinfection system at the wastewater treatment plant in 2007, removing a potentially dangerous chlorine system.
- The City has begun installing generators at its sewer lift stations so that the system remains operational during an extended loss of power as might be seen in situations such as hurricanes. Completion is expected in 2008.

Project Description by Project Segments/Service Areas

Water quality issues related to the sanitary sewer have shown improvements. Almost all beaches remained opened throughout the summer of 2000. Percent of saltwater at the Wastewater Treatment Plant (WWTP) has been reduced from 40% to 9 %. Total Average Daily Flow has been reduced from 8 Million Gallons per Day (MGD) to 4 MGD. Future planned improvements to the City's wastewater system include:

- Completion of the sewer lift station generators project
- Installation of a sewer system for the Truman Waterfront property
- Diffused Aeration retrofit system for the wastewater treatment plant
- Extension of Pump Station DA force main to Pump Station D
- 30" Forcemain Extension/Headworks capacity expansion
- Bio-solids dryer system for treatment plant.

City of Layton

In 2006, the City of Layton, in partnership with the FKAA, completed construction of a central wastewater system to serve the entire city. The collection system and transmission system consists of approximately 8,400 linear feet of conventional gravity sewers, sewage pumping stations, force main and lift stations. The wastewater treatment plant is a 0.049 mgd facility which meets BAT standards, with effluent disposal via shallow injection wells. There are no future projects currently planned for the City of Layton.

North Key Largo Utility Corporation

The current wastewater treatment facility operated by the North Key Largo Utility Corporation (NKLUC) is a 550,000 gallon per day (gpd) extended aeration secondary treatment plant discharging to four Class V injection wells meeting typical secondary treatment effluent standards.

The treatment plant will be upgraded to AWT standards by retrofitting the existing treatment system into biological nutrient removal system (four stage Bardenpho) using microfiltration membranes. A portion of the existing aeration basins will be reconfigured while a portion of the existing aeration basins are being reconstructed to optimize the configuration of the flat plate membrane system. An ultraviolet disinfection is being provided to reduce the need for useage of chlorine for disinfection. The entire treatment system will be covered and an odor control system provided to collect and treat the offgases from the treatment process. The facility will be designed to meet USEPA Class I reliability standards necessary to meet Florida Department of Environmental Protection standards for reuse facilities.

As part of the plant upgrades to meet AWT standards, NKLUC is interested in implementing beneficial reuse of the treated wastewater effluent. The utility desires to use reclaimed water as a substitute water source supplying a portion of the irrigation needs of the development. To implement reuse, a portion of the treated effluent will be further treated using a reverse osmosis (RO) treatment process reducing the chloride concentration so that the effluent can be used as a source for a portion of the irrigation water needed within the development.

Key Largo Wastewater Treatment District (KLWTD)

Initially, the Monroe County Sanitary Wastewater Master Plan collection system alternatives were re-evaluated by KLWTD using updated materials quantities and current unit prices. KLWTD determined that in most areas vacuum collection systems are the most cost effective method for wastewater collection. In three remote areas, however, a gravity collection system that pumps directly into the US 1 force main is the most economical alternative. The large number of service basins which would each require a separate wastewater treatment facility, disposal wells, land acquisition, and licensed operator makes a centralized wastewater treatment and disposal facility the most practical and affordable alternative.

Project Description by Project Segment/ Service Area

The Monroe County Comprehensive Sanitary Wastewater Master Plan divided the County into Planning Area Analysis Enumeration Districts (PAED's). The KLWTD area includes PAED 15 through PAED 20. KLWTD has further subdivided these PAEDs into lettered service basins A through K. These sub basins are the basis of cost estimating and planning for KLWTD. These project sub basins are briefly described as follows:

- **Service Basin A** includes the Sexton Cove, Lake Surprise, Largo Highlands, Ocean Isle Estates subdivisions and the commercial properties adjacent to US 1. The year 2015 estimated wastewater flows are .131 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.

- **Service Basin B** extends from approximately US 1 MM 105 to Adams Waterway, including the commercial properties along US 1. The year 2015 estimated wastewater flows are .248 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin C** extends from Adams Waterway to approximately MM 102.5., including commercial properties. The year 2015 estimated wastewater flows are .144 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin D** is approximately MM 102.5 to MM 101). The year 2015 estimated wastewater flows are .123 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin E** includes the area from MM 101 to MM 100. The bay (north) side of US 1 has an existing vacuum collection system with estimated wastewater flows of .177 MGD. The remainder of the service area on the ocean (south) side of US 1 has a year 2015 estimated wastewater flows are .055 MGD. The ocean side of this service basin will be served by a gravity collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin F** extends from approximately MM 100 to MM 99.5. The year 2015 estimated wastewater flows are ,344 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin G** extends from MM 99.5 to MM 98.5. The year 2015 estimated wastewater flows are .285 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin H** includes subdivisions and commercial properties from MM 98.5 to MM 97. The year 2015 estimated wastewater flows are .107 MGD. This basin will be served by a gravity collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin I** includes subdivisions and commercial properties from approximately MM 97 to MM 94. The year 2015 estimated wastewater flows are .174 MGD. This basin will be served by a gravity collection system with treatment and disposal handled at the central wastewater treatment facility
- **Service Basin J** includes subdivisions and commercial properties from approximately MM 94 to MM 93. The year 2015 estimated wastewater flows are .080 MGD.. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.
- **Service Basin K** includes the area from approximately MM 93 to Tavemier Creek. The year 2015 estimated wastewater flows are ,149 MGD. This area will be served by a vacuum collection system with treatment and disposal handled at the central wastewater treatment facility.

Monroe County / FKAA

FKAA also evaluated the use of vacuum collection systems as recommended by the Monroe County Sanitary Wastewater Master Plan. The characteristic cost benefit of vacuum systems is shallow pipe installation and reduced excavation/restoration. FKAA elected to construct vacuum collection systems for the Little Venice (located within the

City of Marathon) and Baypoint projects. These systems are operating properly but have required significant operator maintenance to ensure reliable service. FKAA has recommended installation of gravity systems for future construction.

FKAA has evaluated the performance of Sequencing Batch Reactors for nutrient removal and determined that Bardenpho treatment is reliable and can be built on similar footprints often at lower cost.

Project Description by Project Segments/Service Areas

Middle Keys

FKAA has completed the Layton and Little Venice wastewater projects in the Middle Keys and is currently implementing the Duck Key and Conch Key Service Area described below:

- **Duck Key and Conch Key Service Area,** extends from approximately MM 60.5 to 61.5 and includes Conch Key, Duck Key and Indies Island. The 0.2 MGD secondary WWTP which served Indies Island was acquired by FKAA. A collection system and transmission main were constructed to connect Conch to take advantage of additional existing capacity. The existing WWTP will be upgraded to a Bardenpho System to include capacity for Duck Key.

Lower Keys

The Lower Keys is located south of Marathon and extends east to the City of Key West. This area represents 11,000 EDUs and has been subdivided into the following Service Areas to minimize the number of WWTPs and linear feet of pipe required to connect the maximum developed properties:

- **North Lower Keys Regional Wastewater Treatment System (NLKRWS),** extends from MM 26-34 and is comprised of the Ramrod, Little Torch, and Big Pine Keys. Approximately 0.5 MGD treatment capacity is required for the area. Expansion of the proposed plant capacity to be constructed for the MLKRWS may be considered if construction of a 0.8 MGD plant and transmission main is less costly than construction of two WWTPs.
- **Middle Lower Keys Regional Wastewater Treatment System (MLKRWS),** extends from MM 18-26 and is comprised of Summerland, Cudjoe and Upper Sugarloaf. Approximately 0.3 MGD treatment capacity is required for the area. The Bardenpho plant is to be constructed at the Cudjoe Solid Waste Transfer Station where land is available to design additional treatment capacity for the NLKRWS.
- **Lower Sugarloaf Wastewater Treatment System (LSWTS),** extends from MM 16.5 to MM 17.5. Approximately 0.08 MGD treatment capacity is required for the area. Rather than construct a second BAT WWTP at Lower Sugarloaf, FKAA plans to expand and upgrade the Baypoint BAT WWTP to AWT.
- **Baypoint Wastewater Treatment System (BWTS),** is located at MM 15 and is complete.
- **South Lower Keys Regional Wastewater System (SLKRWS),** extends from MM 6.5 to 11.5 and is comprised of Shark, Big Coppitt, Geiger, and Rockland

Keys. The WWTP for the area is designed to treat 0.320 MGD and includes treatment capacity for Key Haven which presently utilizes a secondary WWTP.

Appendix C – Keys Wastewater Plan Project Costs and Funding Sources

Table 2.1: North Key Largo Utility Corporation - Project Costs and Funding Sources

North Key Largo Utility Corp.

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Administration Costs	Engineering and Design Costs	Land Cost	Construction Cost	Total Project Cost	Construction Start Date
FY 07 - 08		Subtotal FY 07-08		$ -	$ -	$ -	$ -		
FY 08 - 09	Ocean Reef	Advanced Wastewater and Reuse TP***	Ocean Reef Community Assn.	$ 100,000	$ 750,000	$ -	$ 9,500,000	$ 10,350,000	August-08
		Subtotal FY 08-09		$ 100,000	$ 750,000	$ -	$ 9,500,000	$ 10,350,000	
FY 09 - 10		Subtotal FY 09-10	-	-	-	-	-		
FY 10 - 11		Subtotal FY 10-11	-	-	-	-	-		
FY 11 - 12		Subtotal FY 11-12	-	-	-	-	-		
		TOTALS		100,000	750,000	-	9,500,000	10,350,000	
		TOTALS ($M)		0.10	0.75	-	9.50	10.35	

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Local Planning and Engineering Revenue (Ad	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding**	Total Funding	Unfunded Costs
FY 07 - 08		Subtotal FY 07-08		$ -	$ -	$ -	$ -	$ -	$ -
FY 08 - 09	Ocean Reef	Advanced Wastewater and Reuse TP***	Ocean Reef Community Assn.	$ -	$ 5,175,000	$ -	$ 159,850	$ 5,334,850	$ 5,015,150
		Subtotal FY 08-09		$ -	$ 5,175,000	$ -	$ 159,850	$ 5,334,850	$ 5,015,150
FY 09 - 10		Subtotal FY 09-10	-	-	-	-	-	-	-
FY 10 - 11		Subtotal FY 10-11	-	-	-	-	-	-	-
FY 11 - 12		Subtotal FY 11-12	-	-	-	-	-	-	-
		TOTALS		-	5,175,000	-	159,850	5,334,850	5,015,150
		TOTALS ($M)		-	5.18	-	0.16	5.33	5.02

*North Key Largo Utility Corporation Sewer Usage Charge

**State Grant Requested

***The current wastewater treatment facility operated by the NKLUC is 555,000 gpd extended aeration secondary treatment plant discharging to four Class V injection wells meeting typical secondary treatment effluent standards.

Table 2.2: Key Largo Water Treatment District - Project Costs

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Admin Costs	Engineering and Design Costs	Land Cost	Utility Construction Cost	Private Property Construction Cost	Total Construction Cost	Total Project Cost	Construction Start Date
Previous Years	Basin E Demonstration Project	0.183 mgd Plant, KL Trailer Village, KL Park	MM100.3 - MM101.5 Bayside	$ 2,298,251	$ 749,305	$ 826,234	$ 10,851,695	$ 4,455,517	$ 15,307,212	$ 17,457,313.99	October - 04
	North Force Main	Northern Half Transmission	MM100.3 - MM106.5		$ 208,234	$ -	$ 2,686,766	na	$ 2,686,766	$ 3,469,563	August - 06
	Basin A Collection System	Lake Surprise, Sexton Cove, Ocean Isle Estates	MM105.2 - MM106.5		$ 340,000		$ 8,415,000	$ 3,297,586	$ 11,712,586	$ 12,627,149	July - 07
	Basin D Collection System	Largo Gardens, Bahia Mar, Pennekamp Park	MM101.0 - 102.5		$ 366,000		$ 8,795,000	$ 3,096,207	$ 11,891,207	$ 12,831,770	August - 07
	Subtotal Previous Years			$ 2,298,251	$ 1,663,539	$ 826,234	$ 30,748,461	$ 10,849,310	$ 41,597,771	$ 46,385,795	
FY 07 - 08	Regional Treatment Plant	2.30 mgd plant service to entire island	MM 91.0 - MM 106.0	$ 950,000	$ 742,000	$ 424,000	$ 31,507,749	na	$ 31,507,749	$ 32,911,249	March - 08
	Basin B Collection System	Stillwright Point, Largo Sound Park, Riviera Village	MM103.4 - MM105.2		$ 567,000		$ 15,053,000	$ 6,242,759	$ 21,295,759	$ 22,100,259	February - 08
	South Force Main	Southern Half Transmission	MM 91.0 - MM100.3		$ 288,000		$ 4,002,000	na	$ 4,002,000	$ 4,527,500	March - 08
	Basin C Collection System	Twin Lakes, S. Creek Village, Largo Sound	MM102.5 - MM103.4		$ 416,000		$ 11,851,000	$ 3,624,828	$ 15,475,828	$ 16,129,328	September-08
	Subtotal FY 07-08			$ 950,000	$ 2,013,000	$ 424,000	$ 62,413,749	$ 9,867,586	$ 72,281,335	$ 75,668,335	
FY 08 - 09	Basin E Collection System	Holiday Homesites, Silver Lake Park	MM 99.8 - MM101.1 Oceanside	$ 1,092,000	$ 158,000		$ 3,339,000	$ 1,384,483	$ 4,723,483	$ 5,427,483	January-09
	Basin F Collection System	Port Largo, Key Largo Beach, Buttonwood Shores	MM99.5 - MM99.8		$ 521,000	$ 300,000	$ 13,924,000	$ 8,657,800	$ 22,581,800	$ 23,948,800	March-09
	Subtotal FY 08-09			$ 1,092,000	$ 679,000	$ 300,000	$ 17,263,000	$ 10,042,283	$ 27,305,283	$ 29,376,283	
FY 09 - 10	Basin G Collection System	Buccaneer Point, Harbor Shores, Pirate's Cove	MM98.5 - MM99.5	$ 1,134,000	$ 307,000	$ 300,000	$ 8,756,000	$ 7,174,138	$ 15,930,138	$ 16,915,138	September-09
	Basin H Collection System	The Harborage, Rock Harbor, Mandalay	MM97.2 - MM98.5		$ 229,000	$ 300,000	$ 7,190,000	$ 2,693,448	$ 9,883,448	$ 10,790,448	January-10
	Basin K Collection System	Hammer Point, Old Tavernier Area, Tavernier Beach	MM91.0 - MM93.0		$ 395,000	$ 300,000	$ 12,149,000	$ 3,750,690	$ 15,899,690	$ 16,672,690	June-10
	Subtotal FY 09-10			$ 1,134,000	$ 931,000	$ 900,000	$ 28,095,000	$ 13,618,276	$ 41,713,276	$ 44,678,276	
FY 10 - 11	Basin I Collection System	Wynken-Blyken, Silver Shores, Sunset Point	MM93.9 - MM97.2	$ 1,193,000	$ 594,000	$ 300,000	$ 18,189,000	$ 4,380,000	$ 22,569,000	$ 24,059,500	December-10
	Basin J Collection System	Blue Water, Harris Ocean Point, Ocean Park Village	MM93.0 - MM93.9		$ 469,000	$ 300,000	$ 13,074,000	$ 2,013,793	$ 15,087,793	$ 16,453,293	May-11
	Subtotal FY 10-11			$ 1,193,000	$ 1,063,000	$ 600,000	$ 31,263,000	$ 6,393,793	$ 37,656,793	$ 40,512,793	
FY 11 - 12	CR 905 North Clusters	Carysfort Area, Gulf Stream Shores	MM106.5 - Ocean Reef	$ 1,190,000	$ 150,000	$ 300,000	$ 4,000,000			$ 5,045,000	January-12
	Hwy 1 North Package Plants	Jewfish Creek Area, Manatee Bay Area	MM106.5 - MM111.0		$ 225,000	$ 300,000	$ 5,500,000			$ 6,620,000	June-12
	Subtotal FY 11-12			$ 1,190,000	$ 375,000	$ 600,000	$ 9,500,000			$ 11,665,000	
	TOTALS			7,857,251	6,724,539	3,650,234	179,283,210	50,771,248	220,554,458	248,286,482	
	TOTALS ($M)			7.86	6.72	3.65	179.28	50.77	220.55	248.29	

Table 2.2 (Cont.): Key Largo Water Treatment District - Project Funding Sources

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Private Construction Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding	Federal Grant Funding	Total Funding	Unfunded Costs
Previous Years	Basin E Demonstration Project	0.183 mgd Plant, KL Trailer Village, KL Park	MM100.3 - MM101.5 Bayside	$ 5,045,042	$ 4,455,517		$ 2,504,579	$ 4,041,000	$ 5,207,619	$ 21,828,320	$ (4,371,006)
	North Force Main	Northern Half Transmission	MM100.3 - MM106.5	$ 12,372,036	na	$ 2,298,251	$ -	$ -	$ -	$ 12,946,599	$ (9,477,036)
	Basin A Collection System	Lake Surprise, Sexton Cove, Ocean Isle Estates	MM105.2 - MM106.5	$ 4,576,042	$ 3,297,586		$ -	$ -	$ -	$ 8,448,191	$ 4,178,958
	Basin D Collection System	Largo Gardens, Bahia Mar, Pennekamp Park	MM101.0 - 102.5	$ 4,310,000	$ 3,096,207		$ -	$ -	$ -	$ 7,980,770	$ 4,651,000
	Subtotal Previous Years			$ 26,303,120	$ 10,849,310	$ 2,298,251	$ 2,504,579	$ 4,041,000	$ 5,207,619	$ 51,203,879	$ (4,818,084)
FY 07 - 08	Regional Treatment Plant	2.30 mgd plant service to entire island	MM 91.0 - MM 106.0		na		$ 20,000,000			$ 20,237,500	$ 12,673,749
	Basin B Collection System	Stillwright Point, Largo Sound Park, Riviera Village	MM103.4 - MM105.2	$ 6,188,600	$ 6,242,759	$ 950,000		$ 6,038,000		$ 18,706,859	$ 3,393,400
	South Force Main	Southern Half Transmission	MM 91.0 - MM100.3	$ 7,627,562	na					$ 7,865,062	$ (3,337,562)
	Basin C Collection System	Twin Lakes, S. Creek Village, Largo Sound	MM102.5 - MM103.4	$ 6,966,435	$ 3,624,828					$ 10,828,763	$ 5,300,565
	Subtotal FY 07-08			$ 20,782,597	$ 9,867,586	$ 950,000	$ 20,000,000	$ 6,038,000	$ -	$ 57,638,183	$ 18,030,152
FY 08 - 09	Basin E Collection System	Holiday Homesites, Silver Lake Park	MM 99.8 - MM101.1 Oceanside	$ 1,481,000	$ 1,384,483	$ 766,000				$ 3,248,483	$ 2,179,000
	Basin F Collection System	Port Largo, Key Largo Beach, Buttonwood Shores	MM99.5 - MM99.8	$ 7,313,000	$ 8,657,800					$ 10,353,800	$ 7,595,000
	Subtotal FY 08-09			$ 8,794,000	$ 10,042,283	$ 766,000	$ -	$ -	$ -	$ 19,602,283	$ 9,774,000
FY 09 - 10	Basin G Collection System	Buccaneer Point, Harbor Shores, Pirate's Cove	MM98.5 - MM99.5	$ 4,877,000	$ 7,174,138					$ 12,051,138	$ 4,864,000
	Basin H Collection System	The Harborage, Rock Harbor, Mandalay	MM97.2 - MM98.5	$ 2,598,000	$ 2,693,448					$ 5,291,448	$ 5,499,000
	Basin K Collection System	Hammer Point, Old Tavernier Area, Tavernier Beach	MM91.0 - MM93.0	$ 3,990,000	$ 3,750,690					$ 7,740,690	$ 8,932,000
	Subtotal FY 09-10			$ 11,465,000	$ 13,618,276	$ -	$ -	$ -	$ -	$ 25,083,276	$ 19,595,000
FY 10 - 11	Basin I Collection System	Wynken-Blyken, Silver Shores, Sunset Point	MM93.9 - MM97.2	$ 2,893,000	$ 4,380,000					$ 7,273,000	$ 16,786,500
	Basin J Collection System	Blue Water, Harris Ocean Point, Ocean Park Village	MM93.0 - MM93.9	$ 4,119,000	$ 2,013,793					$ 6,132,793	$ 10,320,500
	Subtotal FY 10-11			$ 7,012,000	$ 6,393,793	$ -	$ -	$ -	$ -	$ 13,405,793	$ 27,107,000
FY 11 - 12	CR 905 North Clusters	Carysfort Area, Gulf Stream Shores	MM106.5 - Ocean Reef	$ 250,000						$ 250,000	$ 4,795,000
	Hwy 1 North Package Plants	Jewfish Creek Area, Manatee Bay Area	MM106.5 - MM111.0	$ 400,000						$ 400,000	$ 6,220,000
	Subtotal FY 11-12			$ 650,000		$ -	$ -	$ -	$ -	$ 650,000	$ 11,015,000
	TOTALS			75,006,717	50,771,248	4,014,251	22,504,579	10,079,000	5,207,619	167,583,414	80,703,068
	TOTALS ($M)			75.01	50.77	4.01	22.50	10.08	5.21	167.58	80.70

Table 2.3: Islamorada - Project Costs

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Administration Cost	Engineering and Design Costs	Land Cost	Construction Cost	Private Property Construction Cost	Total Construction Cost	Total Project Cost	Construction Start Date
Previous Years	NPK	NPK WWTF and NPK Collection System 1109 EDUs	MM99.0 and MM89.7 - Nav Creek	$ 476,634	$ 1,099,522	$ 208,640	$ 20,689,397	$ 3,650,000	$ 24,339,397	$ 26,124,193	Completed
	Subtotal FY Previous Years			**$ 476,634**	**$ 1,099,522**	**$ 208,640**	**$ 20,689,397**	**$ 3,650,000**	**$ 24,339,397**	**$ 26,124,193**	
FY 07 - 08	SPK	SPK WWTF	MM86.7	$ 305,000	$ 732,000	$ 1,500,000	$ 6,100,000	na	$ 6,100,000	$ 8,637,000	August-08
	SPK	Collection System	MM88.5-MM88.0	$ 670,000	$ 1,608,000	$ 400,000	$ 13,400,000	$ 7,026,250	$ 20,426,250	$ 23,104,250	August-08
	MPK	NPK Plant Expansion	MM90.0	$ 215,000	$ 516,000	$ 600,000	$ 4,300,000	na	$ 4,300,000	$ 5,631,000	February-08
	MPK	Collection System	MM88.0-MM89.7	$ 670,000	$ 1,608,000	$ 300,000	$ 13,400,000	$ 5,329,000	$ 13,400,000	$ 15,978,000	February-08
	Subtotal FY 07-08			**$ 1,860,000**	**$ 4,464,000**	**$ 2,800,000**	**$ 37,200,000**	**$ 12,355,250**	**$ 44,226,250**	**$ 53,350,250**	
FY 08 - 09	LMK	WWTF	MM74.5	$ 320,000	$ 768,000	$ 800,000	$ 6,400,000	na	$ 6,400,000	$ 8,288,000	August-09
	LMK	Collection System	MM73.6-MM77.6	$ 740,000	$ 1,776,000	$ 300,000	$ 14,800,000	$ 6,371,138	$ 21,171,138	$ 23,987,138	September-08
	Subtotal FY 08-09			**$ 1,060,000**	**$ 2,544,000**	**$ 1,100,000**	**$ 21,200,000**	**$ 6,371,138**	**$ 27,571,138**	**$ 32,275,138**	
FY 09 - 10	UMK	WWTF	MM80.9	$ 535,000	$ 1,284,000	$ 1,800,000	$ 10,700,000	na	$ 10,700,000	$ 14,319,000	July-10
	UMK	South Collection Sys.	MM79.0-MM81.8	$ 390,000	$ 936,000	$ -	$ 7,800,000	$ 12,022,345	$ 19,822,345	$ 21,148,345	February-10
	UMK	North Collection System	MM81.8-MM83.4	$ 390,000	$ 936,000	$ 300,000	$ 7,800,000	accounted for under South Collection System	$ 7,800,000	$ 9,426,000	February-10
	Subtotal FY 09-10			**$ 1,315,000**	**$ 3,156,000**	**$ 2,100,000**	**$ 26,300,000**	**$ 12,022,345**	**$ 38,322,345**	**$ 44,893,345**	
FY 10 - 11	WK	WWTF	MM84.6	$ 235,000	$ 564,000	$ 1,000,000	$ 4,700,000	na	$ 4,700,000	$ 6,499,000	October-10
	WK	Collection System	MM83.4-MM85.5	$ 155,000	$ 372,000	$ -	$ 3,100,000	$ 2,935,103	$ 6,035,103	$ 6,590,103	October-10
	Subtotal FY 10-11			**$ 390,000**	**$ 936,000**	**$ 1,000,000**	**$ 7,800,000**	**$ 2,935,103**	**$ 10,735,103**	**$ 13,089,103**	
	TOTALS			5,101,634	12,199,522	7,208,640	113,189,397	37,333,836	145,194,233	169,764,029	
	TOTALS ($M)			5.10	12.20	7.21	113.19	37.33	145.19	169.70	

Table 2.3 (Cont.): Islamorada - Project Funding Sources

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Private Construction Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or other)*	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding	Federal Grant Funding	Total Funding	Unfunded Costs
Previous Years	NPK	NPKWWTF and NPK Collection System 1109 EDUs	MM99.0 and MM89.7 - Nav Creek	$ 9,061,943	$ 3,650,000	$ -	$ 400,328	$ 10,300,000	$ 2,711,922	$ 26,124,193	$ -
	Subtotal FY Previous Years			$ 9,061,943	$ 3,650,000	$ -	$ 400,328	$ 10,300,000	$ 2,711,922	$ 26,124,193	$ -
FY 07 - 08	SPK	SPK WWTF	MM86.7	$ 3,866,500	na	$ -	$ 452,000	$ -	$ -	$ 4,318,500	$ 4,318,500
	SPK	Collection System	MM88.5-MM88.0	$ 8,039,000	$ 7,026,250	$ -	$ -	$ -	$ -	$ 15,065,250	$ 8,039,000
	MPK	NPK Plant Expansion	MM90.0	$ 2,815,500	na	$ -	$ -	$ -	$ -	$ 2,815,500	$ 2,815,500
	MPK	Collection System	MM88.0-MM89.7	$ 7,989,000		$ -	$ -	$ -	$ -	$ 7,989,000	$ 7,989,000
	Subtotal FY 07-08			$ 22,710,000	$ 7,026,250	$ -	$ 452,000	$ -	$ -	$ 30,188,250	$ 23,162,000
											$ -
FY 08 - 09	LMK	WWTF	MM74.5	$ 4,144,000		$ -	$ -	$ -	$ -	$ 4,144,000	$ 4,144,000
	LMK	Collection System	MM73.6-MM77.6	$ 8,808,000	$ 6,371,138	$ -	$ -	$ -	$ 3,801,017	$ 18,980,155	$ 5,006,983
	Subtotal FY 08-09			$ 12,952,000	$ 6,371,138	$ -	$ -	$ -	$ 3,801,017	$ 23,124,155	$ 9,150,983
											$ -
FY 09 - 10	UMK	WWTF	MM80.9	$ 7,159,500	na	$ -	$ -	$ -	$ -	$ 7,159,500	$ 7,159,500
	UMK	South Collection Sys.	MM79.0-MM81.8	$ 4,563,000	$ 12,022,345	$ -	$ -	$ -	$ -	$ 16,585,345	$ 4,563,000
	UMK	North Collection System	MM81.8-MM83.4	$ 4,713,000	accounted for under South Collection System	$ -	$ -	$ -	$ -	$ 4,713,000	$ 4,713,000
	Subtotal FY 09-10			$ 16,435,500	$ 12,022,345	$ -	$ -	$ -	$ -	$ 28,457,845	$ 16,435,500
											$ -
FY 10 - 11	WK	WWTF	MM84.6	$ 3,249,500		$ -	$ -	$ -	$ -	$ 3,249,500	$ 3,249,500
	WK	Collection System	MM83.4-MM85.5	$ 1,813,500	$ 2,935,103	$ -	$ -	$ -	$ -	$ 4,748,603	$ 1,813,500
	Subtotal FY 10-11			$ 5,063,000	$ 2,935,103	$ -	$ -	$ -	$ -	$ 7,998,103	$ 5,063,000
		TOTALS		66,222,443	32,004,836	-	852,328	10,300,000	6,512,939	115,892,546	53,811,483
		TOTALS ($M)		66.22	32.00	-	0.85	10.30	6.51	115.89	53.81

Table 2.4: Key Colony Beach - Project Costs and Funding Sources

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Administration Costs	Engineering and Design Costs	Land Cost	Construction Cost	Total Project Cost	Construction Start Date
Previous Years				$ -	$ -	$ -	$ -	$ -	
	Subtotal FY Previous Years			$ -	$ -	$ -	$ -	$ -	
FY 07 - 08				$ -	$ -	$ -	$ -	$ -	
	Subtotal FY 07-08			$ -	$ -	$ -	$ -	$ -	
FY 08 - 09		WW Line Rehabilitation		$ -	$ -	$ -	$ 500,000	$ 500,000	July-08
	Subtotal FY 08-09			$ -	$ -	$ -	$ 500,000	$ 500,000	
FY 09 - 10				$ -	$ -	$ -	$ -	$ -	
	Subtotal FY 09-10			$ -	$ -	$ -	$ -	$ -	
FY 10 - 11				$ -	$ -	$ -	$ -	$ -	
	Subtotal FY 10-11			$ -	$ -	$ -	$ -	$ -	
		TOTALS		-	-	-	500,000	500,000	
		TOTALS ($M)		-	-	-	0.50	0.50	

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or other)*	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding	Total Funding	Unfunded Costs
Previous Years				$ -	$ -	$ -	$ -	$ -	$ -
	Subtotal FY Previous Years			$ -	$ -	$ -	$ -	$ -	$ -
FY 07 - 08				$ -	$ -	$ -	$ -	$ -	$ -
	Subtotal FY 07-08			$ -	$ -	$ -	$ -	$ -	$ -
FY 08 - 09		WW Line Rehabilitation		$ -	$ -	$ -	$ -	$ -	$ 500,000
	Subtotal FY 08-09			$ -	$ -	$ -	$ -	$ -	$ 500,000
FY 09 - 10				$ -	$ -	$ -	$ -	$ -	$ -
	Subtotal FY 09-10			$ -	$ -	$ -	$ -	$ -	$ -
FY 10 - 11				$ -	$ -	$ -	$ -	$ -	$ -
	Subtotal FY 10-11			$ -	$ -	$ -	$ -	$ -	$ -
		TOTALS		-	-	-	-	-	500,000
		TOTALS ($M)		-	-	-	-	-	0.50

Table 2.5: Marathon - Project Costs

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Administration Costs	Engineering and Design Costs	Land Cost	Construction Cost	Private Property Construction Cost	Total Construction Cost	Total Project Cost	Construction Start Date
Previous Years	4 Vaca Key Central		33rd Street - 60th Street Including Sombrero Area	$ 159,410	$ 651,970	$ 1,104,770	$ 22,715,527	$ 8,719,850	$ 31,435,377	$ 33,351,527	under construction
	Subtotal FY Previous Years			**$ 159,410**	**$ 651,970**	**$ 1,104,770**	**$ 22,715,527**	**$ 8,719,850**	**$ 31,435,377**	**$ 33,351,527**	
FY 08 - 09	1 Knights Key		Entire Island	$ 159,410	$ 231,600	$ 150,000	$ 624,431	$ 503,700	$ 1,128,131	$ 1,669,141	January-08
	6 Fat Deer Key (West) - Coco Plum		Vaca Cut to Coco Plum - south to the end of Coco Plum Drive	$ 159,410	$ 684,811	$ 914,663	$ 9,859,822	$ 3,387,200	$ 13,247,022	$ 15,005,906	February-08
	5 Vaca Key East		60th St to Vaca Cut including Little Venice	$ 159,410	$ 1,211,488	$ 500,000	$ 25,398,910	$ 7,606,600	$ 33,005,510	$ 34,876,408	October-07
	2 Boot Key		Entire Island	$ 159,410	$ 92,616	$ -	$ 40,170	na	$ 40,170	$ 292,196	January-08
	3 Vaca Key West		11th St to 33rd St	$ 159,410	$ 560,222	$ 500,000	$ 12,113,218	$ 5,398,350	$ 17,511,568	$ 18,731,200	February-08
	Subtotal FY 07-08			**$ 797,050**	**$ 2,780,737**	**$ 2,064,663**	**$ 48,036,551**	**$ 16,895,850**	**$ 64,932,401**	**$ 70,574,851**	
FY 09 - 10	7 Grassy Key		Fat Deer Key East through Grassy Key	$ 159,410	$ 287,753	$ 500,000	$ 5,776,245	na	$ 5,776,245	$ 6,723,408	August-09
	Subtotal FY 09-10			**$ 159,410**	**$ 287,753**	**$ 500,000**	**$ 5,776,245**	**$ -**	**$ 5,776,245**	**$ 6,723,408**	
			TOTALS	1,115,870	3,720,460	3,669,433	76,528,323	25,615,700	102,144,023	110,649,786	
			TOTALS ($M)	1.12	3.72	3.67	76.53	25.62	102.14	110.65	

Table 2.5 (Cont.): Marathon - Project Funding Sources

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Private Construction Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or other)*	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding	Federal Grant Funding	Total Funding	Unfunded Costs
Previous Years	4 Vaca Key Central		33rd Street - 60th Street Including Sombrero Area	$ 10,356,537	$ 8,719,850	$ 727,717	$ 3,694,752	$ 8,100,000	$ -	$ 31,598,856	$ 1,752,671
	Subtotal FY Previous Years			**$ 10,356,537**	**$ 8,719,850**	**$ 727,717**	**$ 3,694,752**	**$ 8,100,000**	**$ -**	**$ 31,598,856**	**$ 1,752,671**
FY 07 - 08	1 Knights Key		Entire Island	$ 373,459	$ 503,700	$ 150,989	$ 174,816	$ -	$ -	$ 1,202,964	$ 466,177
	6 Fat Deer Key (West) - Coco Plum		Vaca Cut to Coco Plum - south to the end of Coco Plum Drive	$ 3,961,648	$ 3,387,200	$ 766,770	$ 1,742,806	$ -	$ 500,000	$ 10,358,424	$ 4,647,482
	5 Vaca Key East		60th St to Vaca Cut including Little Venice	$ 11,535,855	$ 7,606,600	$ 735,559	$ 4,090,471	$ -	$ -	$ 23,968,485	$ 10,907,923
	2 Boot Key		Entire Island	$ 64,119	na	$ 67,369	$ 43,829	$ -	$ -	$ 175,317	$ 116,879
	3 Vaca Key West		11th St to 33rd St	$ 5,768,074	$ 5,398,350	$ 231,709	$ 1,999,928	$ -	$ -	$ 13,398,061	$ 5,333,140
	Subtotal FY 07-08			**$ 21,703,155**	**$ 16,895,850**	**$ 1,952,396**	**$ 8,051,850**	**$ -**	**$ 500,000**	**$ 49,103,251**	**$ 21,471,600**
FY 08 - 09				$ -		$ -	$ -	$ -	$ -	$ -	$ -
	Subtotal FY 08-09			$ -		$ -	$ -	$ -	$ -	$ -	$ -
FY 09 - 10	7 Grassy Key		Fat Deer Key East through Grassy Key	$ 2,918,156	na	$ 107,378	$ 1,008,511	$ -	$ -	$ 4,034,045	$ 2,689,363
	Subtotal FY 09-10			**$ 2,918,156**	**$ -**	**$ 107,378**	**$ 1,008,511**	**$ -**	**$ -**	**$ 4,034,045**	**$ 2,689,363**
	TOTALS			34,977,848	25,615,700	2,787,491	12,755,113	8,100,000	500,000	84,736,152	25,913,634
	TOTALS ($M)			34.98	25.62	2.79	12.76	8.10	0.50	84.74	25.91

Table 2.6: Monroe County /FKAA Project Costs

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Admin Costs	Engineering and Design Costs	Land Cost	Private Property Construction Cost*	Construction Cost	Total Construction Cost	Total Project Cost	Construction Start Date
Previous Years	Little Venice Phases I and II			Note: Detailed project breakouts not available, so all project costs placed in construction line			$ 3,449,250	$ 14,663,000	$ 18,112,250	$ 18,112,250	
	Bay Point						$ 1,565,850	$ 6,614,000	$ 8,179,850	$ 8,179,850	
	Conch Key						$ 547,500	$ 2,741,000	$ 3,288,500	$ 3,288,500	
	City of Layton						$ 1,277,500	$ 5,200,000	$ 6,477,500	$ 6,477,500	
	South Lower Keys	Gravity collection, new 0.32 MGD WWTP, 2200 EDUs	MM8.5 - MM11.5	$ 1,890,000	$ 1,800,000	$ 800,000	$ 8,030,000	$ 34,700,000	$ 42,730,000	$ 47,220,000	February-07
	Subtotal FY Previous Years			**$ 1,890,000**	**$ 1,800,000**	**$ 800,000**	**$ 14,870,100**	**$ 63,918,000**	**$ 78,788,100**	**$ 83,278,100**	
FY 07 - 08	Duck Key and Conch Key	Gravity collection, 0.2 MGD WWTP upgrade, 375 EDUs	MM60.5 - MM61.5	$ 820,000	$ 1,000,000	$ -	$ 1,368,750	$ 17,400,000	$ 18,768,750	$ 20,588,750	December-07
	Middle Lower Keys	Collection and new WWTP 2,200 EDUs	MM18.0 - MM34.0	$ 2,940,000	$ 3,000,000	$ -	$ 8,030,000	$ 51,750,000	$ 59,780,000	$ 65,720,000	June-08
	Subtotal FY 07-08			**$ 3,760,000**	**$ 4,000,000**	**$ -**	**$ 9,398,750**	**$ 69,150,000**	**$ 78,548,750**	**$ 86,308,750**	
FY 08 - 09	North Lower Keys	Collection and new WWTP 3,850 EDUs	MM26.0 - MM34.0	$ 4,250,000	$ 3,000,000	$ 1,500,000	$ 14,052,500	$ 80,500,000	$ 94,552,500	$ 103,302,500	December-09
	Lower Sugarloaf	Collection, WWTP upgrade 600 EDUs	MM16.5-MM17.5	$ 765,000	$ 1,500,000	$ -	$ 2,190,000	$ 13,800,000	$ 15,990,000	$ 18,255,000	June-10
	West Long Key	FM and WWTP expansion 800 EDUs	MM16.5-MM17.5	$ 715,000	$ 500,000		$ 2,920,000	$ 13,800,000	$ 16,720,000	$ 17,935,000	June-10
	Subtotal FY 08-09			**$ 5,730,000**	**$ 5,000,000**	**$ 1,500,000**	**$ 19,162,500**	**$ 108,100,000**	**$ 127,262,500**	**$ 139,492,500**	
		TOTALS		11,380,000	10,800,000	2,300,000	43,431,350	241,168,000	284,599,350	309,079,350	
		TOTALS ($M)		11.38	10.80	2.30	43.43	241.17	284.60	309.08	
	Broken down:	City of Layton		-	-	-	1.28	5.20	6.48	6.48	
		Monroe / FKAA		11.38	10.80	2.30	42.15	235.97	278.12	302.60	

*The private property construction costs for Duck Key does not include Indies Island.

Table 2.6(Cont.): Monroe County /FKAA Project Funding Sources

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or other)*	Additional Local Revenue (Sales Tax Revenue)	Private Construction Revenue*	State Grant Funding	Federal Grant Funding	Total Funding	Unfunded Costs
Previous Years	Little Venice Phases I and II			$ 4,290,240	$ -	$ 3,033,002	$ 3,449,250	$ 3,013,758	$ 4,326,000	$ 18,112,250	$ -
	Bay Point			$ 781,536	$ 160,000	$ 2,152,808	$ 1,565,850	$ 502,808	$ 3,016,848	$ 8,179,850	$ -
	Conch Key			$ 141,382	$ 40,000	$ 933,035	$ 547,500	$ 232,368	$ 1,394,215	$ 3,288,500	$ -
	City of Layton			$ 950,000	$ -	$ 100,000	$ 1,277,500	$ 3,350,000	$ 800,000	$ 6,477,500	$ -
	South Lower Keys	Gravity collection, new 0.32 MGD WWTP, 2200 EDUs	MM8.5 - MM11.5	$ 7,650,000	$ 280,000	$ 21,650,000	$ 8,030,000	$ 7,980,000	$ -	$ 45,590,000	$ 1,630,000
	Subtotal FY Previous Years			**$ 13,813,158**	**$ 480,000**	**$ 27,868,845**	**$ 14,870,100**	**$ 15,078,934**	**$ 9,537,063**	**$ 81,648,100**	**$ 1,630,000**
FY 07 - 08	Duck Key and Conch Key	Gravity collection, 0.2 MGD WWTP upgrade, 375 EDUs	MM60.5 - MM61.5	$ 1,800,000	$ 150,000	$ 12,750,000	$ 1,368,750	$ 3,000,000	$ -	$ 19,068,750	$ 1,520,000
	Middle Lower Keys	Collection and new WWTP 2,200 EDUs	MM18.0 - MM34.0	$ 8,370,000	$ 300,000	$ 3,000,000	$ 8,030,000	$ -	$ -	$ 19,700,000	$ 46,020,000
	Subtotal FY 07-08			**$ 10,170,000**	**$ 450,000**	**$ 15,750,000**	**$ 9,398,750**	**$ 3,000,000**	**$ -**	**$ 38,768,750**	**$ 47,540,000**
FY 08 - 09	North Lower Keys	Collection and new WWTP 3,850 EDUs	MM26.0 - MM34.0	$ 17,325,000	$ -	$ -	$ 14,052,500	$ -	$ -	$ 31,377,500	$ 71,925,000
	Lower Sugarloaf	Collection, WWTP upgrade 600 EDUs	MM16.5-MM17.5	$ 2,700,000	$ -	$ -	$ 2,190,000	$ -	$ -	$ 4,890,000	$ 13,365,000
	West Long Key	FM and WWTP expansion 800 EDUs	MM16.5-MM17.5	$ 1,800,000	$ -	$ -	$ 2,920,000	$ -	$ -	$ 4,720,000	$ 13,215,000
	Subtotal FY 08-09			**$ 21,825,000**	**$ -**	**$ -**	**$ 19,162,500**	**$ -**	**$ -**	**$ 40,987,500**	**$ 98,505,000**
		TOTALS		45,808,158	930,000	43,618,845	43,431,350	18,078,934	9,537,063	161,404,350	147,675,000
		TOTALS ($M)		45.81	0.93	43.62	43.43	18.08	9.54	161.40	147.68
Broken down:		City of Layton		0.95	-	0.10	1.28	3.35	0.80	6.48	-
		Monroe / FKAA		44.86	0.93	43.52	42.15	14.73	8.74	154.93	147.68

*The private construction revenue for Duck Key does not include Indies Island.

Table 2.7: City of Key West - Project Costs

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	Planning and Administration Costs	Engineering and Design Costs	Land Cost	Construction Cost	Total Project Cost	Construction Start Date
								$ 64,000,000	
Previous Years	Subtotal FY Previous Years			$ -	$ -	$ -	$ -	$ 64,000,000	
FY 07 - 08	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ 200,000	$ 200,000	Complete September-08
	Key West	PS DA & F.M.	Vernon to Dennis	$ -	$ 174,600	$ -	$ 1,796,000	$ 1,970,600	Complete September-08
	Key West	WWTP Solids & Admin. Roof Repl	All of KW	$ -	$ 75,984	$ -	$ 489,150	$ 565,134	Complete December-08
	Key West	PS Generators	B,C F,G,R,J,N,O ,ST,H All of KW	$ -	$ 326,406	$ -	$ 4,040,073	$ 4,366,479	Complete March-08
	Key West	Truman Ann. Collection System	W KW	$ -	$ 250,000	$ -	$ -	$ 250,000	Designed September-08
	Key West	WWTP Exp., F.M./Head Works	All of KW	$ -	$ 385,000	$ -	$ -	$ 385,000	Designed September-08
	Key West	Pumps & HVAC WWTP	All of KW	$ -	$ -	$ -	$ 302,000	$ 302,000	Complete September-08
	Key West	WWTP Headworks Replacement	All of KW	$ -	$ -	$ -	$ 495,000	$ 495,000	Complete September-08
	Subtotal FY 07-08			$ -	$ 1,211,990	$ -	$ 7,322,223	$ 8,534,213	
FY 08 - 09	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ 200,000	$ 200,000	Complete September-09
	Key West	WWTP Diffused Air	All of KW	$ -	$ 290,000	$ -	$ -	$ 290,000	Designed September-09
	Key West	Truman Ann. Collection System	W KW	$ -	$ -	$ -	$ 1,300,540	$ 1,300,540	Complete September-10 (2 yr)
	Key West	WWTP Exp., F.M./Head Works	W KW	$ -	$ -	$ -	$ 3,955,000	$ 3,955,000	Complete September-09
	Subtotal FY 08-09			$ -	$ 290,000	$ -	$ 5,455,540	$ 5,745,540	
FY 09 - 10	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ 200,000	$ 200,000	Complete September-10
	Key West	WWTP Diffused Air	All of KW	$ -	$ -	$ -	$ 1,795,000	$ 1,795,000	Complete September-11 (2 Yr)
	Key West	Truman Ann. Collection System	W KW	$ -	$ -	$ -	$ 262,500	$ 262,500	Complete September-10
	Subtotal FY 09-10			$ -	$ -	$ -	$ 2,257,500	$ 2,257,500	
FY 10 - 11	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ 230,000	$ 230,000	Complete September-11
	Key West	WWTP Diffused Air	All of KW	$ -	$ -	$ -	$ 2,084,750	$ 2,084,750	Complete September-11
	Key West	WWTP Bio- Solids Dryer	All of KW	$ -	$ 350,000	$ -	$ -	$ 350,000	Complete September-12
	Subtotal FY 10-11			$ -	$ 350,000	$ -	$ 2,314,750	$ 2,664,750	
FY 11 - 12	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ 1,117,350	$ 1,117,350	Complete September-12
	Key West	WWTP Bio- Solids Dryer	All of KW	$ -	$ -	$ -	$ 3,000,000	$ 3,000,000	Complete September-12
	Key West	Gravity Sewer Green Street NW	Downtown KW	$ -	$ 150,000	$ -	$ 1,350,000	$ 1,500,000	Complete September-12
	Key West	N Roosevelt F.M.	Sigsbee to Hilton Haven	$ -	$ -	$ -	$ 210,000	$ 210,000	Complete September-12
	Subtotal FY 11-12			$ -	$ 150,000	$ -	$ 5,677,350	$ 5,827,350	
	TOTALS			-	2,001,990	-	23,027,363	89,029,353	
	TOTALS ($M)			-	2.00	-	23.03	89.03	

Table 2.7(Cont.): City of Key West - Project Funding

STATE FISCAL YEAR	Service Area	Description	Project Boundaries	System Development Fee Revenue	Local Planning and Engineering Revenue (Ad Valorem MSTUs or other)*	Additional Local Revenue (Sales Tax Revenue)	State Grant Funding	Federal Grant Funding	Total Funding	Unfunded $
Previous Years									$ 64,000,000	$
	Subtotal FY Previous Years			$ -	$ -	$ -	$ -	$ -	$ 64,000,000	$
FY 07 - 08	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 200,000
	Key West	PS DA & F.M.	S of Flagler, Vernon to Dennis	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,970,000
	Key West	WWTP Solids & Admin. Roof Repl	All of KW	$ -	$ -	$ -	$ -	$ 423,700	$ 423,700	$ 141,300
	Key West	PS Generators	B,C,F,G,R,,I,N,O ,ST,H All of KW	$ -	$ -	$ -	$ 2,000,000	$ -	$ 2,000,000	$ 2,366,479
	Key West	Truman Ann. Collection System	W KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 250,000
	Key West	WWTP Exp., F.M./Head Works	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 385,000
	Key West	Pumps & HVAC WWTP	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 302,000
	Key West	WWTP Headworks Replacement	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 495,000
	Subtotal FY 07-08			$ -	$ -	$ -	$ 2,000,000	$ 423,700	$ 2,423,700	$ 6,110,513
FY 08 - 09	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 200,000
	Key West	WWTP Diffused Air	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 290,000
	Key West	Truman Ann. Collection System	W KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,300,840
	Key West	WWTP Exp., F.M./Head Works	W KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,955,000
	Subtotal FY 08-09			$ -	$ -	$ -	$ -	$ -	$ -	$ 5,745,840
FY 09 - 10	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 200,000
	Key West	WWTP Diffused Air	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,795,000
	Key West	Truman Ann. Collection System	W KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 262,500
	Subtotal FY 09-10			$ -	$ -	$ -	$ -	$ -	$ -	$ 2,257,500
FY 10 - 11	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 230,000
	Key West	WWTP Diffused Air	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,084,750
	Key West	WWTP Bio- Solids Dryer	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 350,000
	Subtotal FY 10-11			$ -	$ -	$ -	$ -	$ -	$ -	$ 2,664,750
FY 11 - 12	Key West	Emergency Repair	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,117,350
	Key West	WWTP Bio- Solids Dryer	All of KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,000,000
	Key West	Gravity Sewer Green Street NW	Downtown KW	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,500,000
	Key West	N Roosevelt F.M.	Sigsbee to Hilton Haven	$ -	$ -	$ -	$ -	$ -	$ -	$ 210,000
	Subtotal FY 11-12			$ -	$ -	$ -	$ -	$ -	$ -	$ 5,827,350
		TOTALS		-	-	-	2,000,000	423,700	66,423,700	22,695,952
		TOTALS ($M)		-	-	-	2.00	0.42	66.42	22.7

TERMS AND CONDITIONS

Any deletion of items listed will increase the price of the balance of our package. A fee will be charged for any item returned. See above exceptions/clarifications. The purchaser is responsible for all freight charges on all items being returned.

This offer is open for acceptance up to noon EST on May 1, 2008. After that date, AIRVAC reserves the right to re-quote the material. Equipment must be released into production no later than August 1, 2008.

PATENTS

As a matter of importance, AIRVAC Inc. uses a unique two-phase, plugless vacuum sewerage transport system and certain of its components are protected by United States certain patents. Obviously, the patented system and components may not be used or sold without authorization by AIRVAC. Purchase of an equipment package from AIRVAC and use according to its specifications is an authorized use.

If you have any questions regarding this offer, please feel free to call our office at 813-855-6297, my extension is 402. Our Regional Sales Manager, Mr. Dave Elias, can be reached at 813-855-6297 extension 403 or Sean Agans 813-503-3629.

Sincerely,

Ronald H White

Ron White
Inside Sales Manager

RW
cc: Mark Jones,
Dave Elias, Sean Agans

TAB 12

KEY LARGO WASTEWATER TREATMENT DISTRICT

Agenda Request Form

Meeting Date: November 18, 2008 Agenda Item No. 12

[ ] PUBLIC HEARING [ ] RESOLUTION

[X] DISCUSSION [ ] BID/RFP AWARD

[ ] GENERAL APPROVAL OF ITEM [ ] CONSENT AGENDA

[ ] Other:

SUBJECT: WWTP Bid Results

RECOMMENDED MOTION/ACTION:

Approved by General Manager C.J.2 **Date:** 11-13-08

Originating Department: General Manager	Costs: $15,249,000.00 Funding Source: Acct. #	**Attachments:**
Department Review: [X] District Counsel TO [X] General Manager C.J.2 [ ] Finance _____	[X] Engineering JB [ ] Clerk_____	**Advertised:** Date: _____ Paper: _____ [ ] Not Required
	All parties that have an interest in this agenda item must be notified of meeting date and time. The following box must be filled out to be on agenda.	Yes I have notified everyone_____ or Not applicable in this case_____: Please initial one.

Summary Explanation/Background: Nine contractors bid the wastewater treatment plant expansion project. Meador Construction Co. Inc., of Jacksonville, Florida, is the apparent low bidder.

Resulting Board Action:

☐ Approved ☐ Tabled ☐ Disapproved ☐ Recommendation Revised

Wastewater Treatment Facility Expansion and Upgrade
Key Largo Wastewater Treatment District
11/12/2008 Bid Tabulation by James R Brush
Bidders Ranked From Low Bid to High Bid

Ranking No.	Name of Contractor	TOTAL BASE BID (SCHEDULE A plus Schedule B)
1	Meadors Construction Co., Inc	**$15,249,000.00**
2	General Contracting Services, Inc.	**$15,473,888.00**
3	Wharton-Smith, Inc.	**$16,887,000.00**
4	Garney Companies, Inc.	**$17,059,000.00**
5	Globe Tec Construction, Inc	**$17,240,000.00**
6	Soares Da Costa, Inc	**$17,499,831.00**
7	Cardinal Contractors, Inc	**$17,750,424.00**
8	John J Kirlin, L.L.C.	**$17,921,373.00**
9	PCL Civil Contractors, Inc	**$18,604,641.00**

Memo

To: KLWTD Commissioners and Staff

From: Synthia Lankford, Acting Clerk

Date: November 18, 2008

Re: Agenda Item K-6

Please find attached the back up for TAB 6.

THE WEILER ENGINEERING CORPORATION

"Excellence in Engineering"

5800 Overseas Highway, Suite 36
Marathon, Florida 33050
(305) 289-4161 ph
(305) 289-4162 fax

MEMORANDUM

To: Key Largo Wastewater Treatment District Board

From: Daniel Saus

Date: November 12, 2008

Re: Globetec Performance Issues

On November 4th, 2008 the KLWTD Board requested Weiler Engineering to provide a report regarding performance issues with Globetec Construction in conjunction with the District's collection system basins A-2 and A-3. Several District personnel were interviewed as well as inspectors and pay application processors at Weiler Engineering.

The following information is a compilation of comments and observations made by those interviewed during interaction with Globetec and their sub-contractor C&W Pipeline.

The work has progressed at a steady pace and a good focus has been placed on production. The underground pipe work is generally done in an acceptable manner. Even with this focus on production, the substantial completion date was missed for phase A-2. The final completion date is November 16th and as of today it seems very unlikely that deadline can be met. This focus on production has caused some issues with jobsite conditions, redlined plans, completion details, restoration, and maintenance-of-traffic (MOT).

A major concern for the field inspectors is the lack of supervision provided to the subcontractor (C&W Pipeline) by Globetec. Globetec personnel are rarely found on the job sites and rarely communicate with the inspectors. The inspectors are charged with observing the construction and ensuring that the system is built according to the plans and specifications. Their primary point of contact should be Globetec personnel. Generally inspectors do not communicate directly with subcontractors but in this project they have had little choice. This lack of supervision has contributed to the poor execution of the above mentioned items.

While performing work in the right-of-way (ROW) a proper MOT plan must been in place and be properly executed. This has not happened on an ongoing basis. The job site maintenance has been poor with trash left in the ROW and piping and materials placed on private properties (outside of the ROW). The redlined drawings that establish the final as-built plans have not been maintained in a timely fashion and have been rejected when submitted for review.

A walk through of Basin A-3 produced a list of 28 items that required correction. Some of the items on the list were: concrete driveways not restored; missing striping on the roadway; clean-outs that were damaged, missing, cross threaded and not glued; and cracked concrete collars on pits and valve boxes. Although not major items, these items reflect a generally poor emphasis being placed on finish work and restoration.

In summary, Globetec is getting the pits, piping, and connections installed correctly but with a lack of follow up on many other issues that affect the public perception of the project as well as complicate the way the District personnel interact with the subcontractor.

Memo

To: KLWTD Commissioners and Staff

From: Synthia Lankford, Acting Clerk

Date: November 18, 2008

Re: TAB 10

Please find attached updated information in reference to TAB 10.

Key Largo Wastewater Treatment District
Basin B, Phase 2
Prepared by: M. Blank
10-Nov-08

Basin B Phase 2				RicMan B1 Bid		Expertech B1 Bid		Conquest Engineering B1 Bid		LaRocco - Basin D2 Prices		RicMan Proposal - 10/31/08		Fountain - Basin A1 Prices		GlobeTec - Basin A3 Prices	
Item No.	Description	Units	Quantity	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1	Mobilization[1]	LS	1	$ 122,000.00	$ 122,000.00	$ 18,181.24	$ 18,181.24	$ 50,625.00	$ 50,625.00	$ 1,000.00	$ 1,000.00	$ 54,100.00	$ 54,100.00	$ 15,000.00	$ 15,000.00	$ 3,000.00	$ 3,000.00
2	Preconstruction Video	LS	1	$ 3,600.00	$ 3,600.00	$ 2,487.39	$ 2,487.39	$ 4,375.00	$ 4,375.00	$ 10,000.00	$ 10,000.00	$ 4,500.00	$ 4,500.00	$ 10,000.00	$ 10,000.00	$ 8,000.00	$ 8,000.00
3	Maintenance of Traffic	LS	1	$ 14,000.00	$ 14,000.00	$ 6,217.13	$ 6,217.13	$ 18,750.00	$ 18,750.00	$ 20,000.00	$ 20,000.00	$ 17,000.00	$ 17,000.00	$ 30,000.00	$ 30,000.00	$ 10,000.00	$ 10,000.00
4	Furnish and Install SDR21 PVC Vacuum Sewer																
4a	4-inch	LF	7,500	$ 34.00	$ 255,000.00	$ 29.88	$ 224,100.00	$ 38.27	$ 287,025.00	$ 42.00	$ 315,000.00	$ 44.00	$ 330,000.00	$ 46.00	$ 345,000.00	$ 35.00	$ 262,500.00
4b	6-inch	LF	650	$ 44.00	$ 28,600.00	$ 35.16	$ 22,854.00	$ 42.20	$ 27,430.00	$ 45.00	$ 29,250.00	$ 49.00	$ 31,850.00	$ 53.50	$ 34,775.00	$ 45.00	$ 29,250.00
4c	8-inch	LF		$ 60.00	$ -	$ 46.45	$ -	$ 62.46	$ -	$ -	$ -	$ -	$ -	$ 59.50	$ -	$ 55.00	$ -
4d	10-inch	LF	-		$ -		$ -		$ -	$ 50.00	$ -	$ -	$ -		$ -		$ -
5	Furnish and Install resilient wedge gate (V-3) division valves and boxes																
5a	4 inch	EA	6	$ 750.00	$ 4,500.00	$ 937.89	$ 5,627.34	$ 718.00	$ 4,308.00	$ 1,000.00	$ 6,000.00	$ 930.00	$ 5,580.00	$ 1,000.00	$ 6,000.00	$ 1,000.00	$ 6,000.00
5b	6-inch	EA		$ 880.00	$ -	$ 1,092.68	$ -	$ 872.00	$ -	$ 1,300.00	$ -	$ -	$ -	$ 1,200.00	$ -	$ 1,600.00	$ -
5c	8-inch	EA		$ -	$ -		$ -		$ -	$ -	$ -	$ -	$ -	$ 1,500.00	$ -	$ 2,000.00	$ -
5d	10-inch	EA	-	$ -	$ -		$ -		$ -	$ 2,000.00	$ -	$ -	$ -		$ -		$ -
6	Install Owner-furnished AirVac vacuum collection pit assemblies, complete																
6a	Type A - 5 foot deep pit	EA	1	$ 620.00	$ 620.00	$ 761.71	$ 761.71	$ 1,090.50	$ 1,090.50	$ 1,500.00	$ 1,500.00	$ 2,000.00	$ 2,000.00	$ 2,300.00	$ 2,300.00	$ 2,000.00	$ 2,000.00
6b	Type B - 6.5 foot deep pit	EA	51	$ 620.00	$ 31,620.00	$ 942.25	$ 48,054.75	$ 1,216.00	$ 62,016.00	$ 2,500.00	$ 127,500.00	$ 2,700.00	$ 137,700.00	$ 2,400.00	$ 122,400.00	$ 2,100.00	$ 107,100.00
6c	Type C - 7.5 foot deep pit (Note 2)	EA	14	$ 1,200.00	$ 16,800.00	$ 942.37	$ 13,193.18	$ 1,609.00	$ 22,526.00	$ 2,600.00	$ 36,400.00	$ 2,800.00	$ 39,200.00	$ 2,250.00	$ 31,500.00	$ 2,100.00	$ 29,400.00
7	Furnish and install 3-inch Vacuum connection	LF	1,000	$ 14.00	$ 14,000.00	$ 39.82	$ 39,820.00	$ 32.82	$ 32,820.00	$ 45.00	$ 45,000.00	$ 36.00	$ 36,000.00	$ 50.00	$ 50,000.00	$ 50.00	$ 50,000.00
8	Install Owner-furnished AirVac dedicated air intake/vertical	EA	66	$ 500.00	$ 33,000.00	$ 491.35	$ 32,429.10	$ 343.75	$ 22,687.50	$ 500.00	$ 33,000.00	$ 330.00	$ 21,780.00	$ 350.00	$ 23,100.00	$ 500.00	$ 33,000.00
9	Furnish and install dedicated air intake/horizontal	LF	350	$ 40.00	$ 14,000.00	$ 37.40	$ 13,090.00	$ 93.54	$ 32,739.00	$ 50.00	$ 17,500.00	$ 45.00	$ 15,750.00	$ 50.00	$ 17,500.00	$ 45.00	$ 15,750.00
10	Furnish and install 6-inch PVC clean-out	EA	219	$ 310.00	$ 67,890.00	$ 360.30	$ 78,905.70	$ 394.00	$ 86,286.00	$ 400.00	$ 87,600.00	$ 380.00	$ 83,220.00	$ 525.00	$ 114,975.00	$ 300.00	$ 65,700.00
11	Furnish and install 6-inch gravity laterals	LF	4,200	$ 32.00	$ 134,400.00	$ 22.30	$ 93,660.00	$ 25.94	$ 108,948.00	$ 40.00	$ 168,000.00	$ 59.00	$ 247,800.00	$ 53.35	$ 224,070.00	$ 80.00	$ 336,000.00
12	Asphalt roadway/driveway restoration	LF	1,500	$ 35.00	$ 52,500.00	$ 69.08	$ 103,620.00	$ 64.50	$ 96,750.00	$ 50.00	$ 75,000.00	$ 44.00	$ 66,000.00	$ 53.00	$ 79,500.00	$ 160.00	$ 240,000.00
13	Asphalt overlay	SY	4,500	$ 9.30	$ 41,850.00	$ 21.94	$ 98,730.00	$ 14.20	$ 63,900.00	$ 13.00	$ 58,500.00	$ 13.00	$ 58,500.00	$ 11.50	$ 51,750.00	$ 14.00	$ 63,000.00
					$ 834,380.00		**$ 801,731.54**		**$ 922,276.00**		**$ 1,031,250.00**		**$ 1,150,980.00**		**$ 1,157,870.00**		**$ 1,260,700.00**
	COST PER CONNECTION =				$ 3,809.95		$ 3,660.87		$ 4,211.31		$ 4,708.90		$ 5,255.62		$ 5,287.08		$ 5,756.62

Note 1: Erosion and Sediment Control was a separate item in previous bids. It has been combined with Mobilization here for purposes of comparison. RicMan's proposal included Indemnification and Erosion and Sediment Control. These items have been rolled into Mobilization for the purposes of comparison.

Note 2: There is no 7.5-foot pit installation cost available for GlobeTec. Assumed $2100 per pit, same as 6-foot pit.

Memo

To: KLWTD Commissioners and Staff

From: Synthia Lankford, Acting Clerk

Date: November 18, 2008

Re: TAB 12

Please find attached information in reference to TAB 12.

MEMORANDUM

FROM: Thomas M. Dillon, Attorney at Law
Board Certified in Construction Law
P.O. Box 370736
Key Largo, Florida 33037-0736

Tel: 305-240-1767
Fax: 305-853-2693
E-mail lawtmd@gmail.com

To: Key Largo Wastewater Treatment District
Board of Commissioners

Date: November 18, 2008

Subject: Meadors Construction request to withdraw bid

I am attaching the following documentation:

- Email of 11/14/08 regarding request by Meadors Construction to withdraw its bid.
- Letter of 11/14/08 to Meadors advising it of the standard applicable to withdrawal on account of a bid mistake.
- Meadors submittal of 11/17/08 in support of request to withdraw its bid.
- Email of 11/17/08 regarding standard of proof necessary to justify bid withdrawal.

I am suggesting that the Board schedule a hearing at its next meeting to consider whether to allow Meadors to withdraw its bid.

Thomas M Dillon

From: Thomas M Dillon [lawtmd@gmail.com]
Sent: Friday, November 14, 2008 4:02 PM
To: James Brush (jimmyrb@msn.com); Chuck Fishburn; Margaret Blank; EdRCastle@aol.com
Cc: 'Andrew Tobin'; 'Carol Walker'; Charlie Brooks; 'Claude Bullock'; 'Gary Bauman (E-mail)'; 'Norman Higgins'; Robby Majeska; Susan Ford Hammaker
Subject: Meadors bid re District Plant

I spoke just now with Loren Atwell of Meadors Construction. Meadors is the apparent low bidder on the plant construction project.

Mr. Meadors states that he made a $2 million mistake on the bid. The mistake somehow occurred in the spreadsheet used to prepare the bid.

The District Procurement Policy addresses this type of issue as follows:

2-202.10 Mistakes in bids.

2-202.10.1 General. To protect the integrity of the competitive bidding process and to assure fairness, the District will carefully consider a request to correct or withdraw a bid because of an inadvertent, nonjudgmental mistake in the bid. If the mistake is attributable to an error in judgment, the bid may not be corrected. Bid correction or withdrawal by reason of a nonjudgmental mistake is permissible but only to the extent it is not contrary to the interest of the District or to the fair treatment of other bidders.

2-202.10.2 Not relevant.

2-202.10.3 Mistakes discovered after opening but before award. After bid opening, changes in bid prices or other provisions prejudicial to the interest of the District or fair competition will not be permitted. The following procedures will be applied in three situations in which mistakes in bids are discovered after the time and date set for bid opening but before award:

(1) Minor informalities. Minor informalities are matters of form rather than substance, or insignificant mistakes that can be waived or corrected without prejudice to other bidders; that is, the effect on price, quantity, quality, delivery, or contractual conditions is negligible. The District shall waive in writing these informalities or allow a bidder to correct them depending on which is in the best interest of the District.

(2) Mistakes where intended correct bid is evident. If the mistake and the intended correct bid are clearly evident on the face of the bid document, the bid will be corrected to the intended correct bid and may not be withdrawn. Examples of mistakes that may be clearly evident on the face of the bid document are typographical errors, errors in extending unit prices, transportation errors, and arithmetical errors. Unit price is the governing factor if an error is made in extending the unit price.

(3) Mistakes where intended correct bid is not evident. A bidder may be permitted to withdraw a low bid if:

(A) a mistake is clearly evident on the face of the bid document, but the intended correct bid is not similarly evident; or

(B) the bidder submits proof which clearly and convincingly demonstrates that a mistake was made.

The mistake claimed by Mr. Atwell is covered by 2-202.10.1 and 2-202.10.3(3)(B).

I have instructed Mr. Atwell that he may seek relief by submitting an affidavit and supporting documentation showing by clear and convincing evidence that the error in the bid was an inadvertent, nonjudgmental mistake. Upon receipt, I will consider the evidence and make a recommendation to the Board.

If the Board permits withdrawal of the Meadors bid, Meadors would be entitled to withdraw the bid and receive its bid security. Otherwise, Meadors must either perform or forfeit its bid security. The bid security is 5% of the amount of the bid, or about $750,000.

Tom

Thomas M Dillon PA
Board Certified in Construction Law
PO Box 370736
Key Largo, Florida 33037
Phone: 305-240-1767
Fax: 305-853-2693

Please update your address book to show my new email address:
lawtmd@gmail.com

Thomas M. Dillon, PA
Board Certified in Construction Law
P.O. Box 370736
Key Largo, Florida 33037-0736

305-240-1767
Fax 305-853-2693
lawtmd@gmail.com

November 14, 2008

Lauren C. Atwell
Meadors Construction Company

By Fax: 904-695-9272

Re: Key Largo Wastewater Treatment District

Dear Mr. Atwell:

I am in receipt of your letter of this date. Please be advised that the following provisions of the District Procurement Policy apply to this situation:

2-202.10 Mistakes in bids.

2-202.10.1 General. To protect the integrity of the competitive bidding process and to assure fairness, the District will carefully consider a request to correct or withdraw a bid because of an inadvertent, nonjudgmental mistake in the bid. If the mistake is attributable to an error in judgment, the bid may not be corrected. Bid correction or withdrawal by reason of a nonjudgmental mistake is permissible but only to the extent it is not contrary to the interest of the District or to the fair treatment of other bidders.

2-202.10.2 Not relevant.

2-202.10.3 Mistakes discovered after opening but before award. After bid opening, changes in bid prices or other provisions prejudicial to the interest of the District or fair competition will not be permitted. The following procedures will be applied in three situations in which mistakes in bids are discovered after the time and date set for bid opening but before award:

(1) Minor informalities. Minor informalities are matters of form rather than substance, or insignificant mistakes that can be waived or corrected without prejudice to other bidders; that is, the effect on price, quantity, quality, delivery, or contractual conditions is negligible. The District shall waive in writing these informalities or allow a bidder to correct them depending on which is in the best interest of the District.

(2 Mistakes where intended correct bid is evident. If the mistake and the intended correct bid are clearly evident on the face of the bid document, the bid will be corrected to the intended correct bid and may not be withdrawn. Examples of mistakes that may be clearly evident on the face of the bid document are typographical errors, errors in extending unit prices, transportation errors, and arithmetical errors. Unit price is the governing factor if an error is made in extending the unit price.

(3) Mistakes where intended correct bid is not evident. A bidder may be permitted to withdraw a low bid if:

(A) a mistake is clearly evident on the face of the bid document, but the intended correct bid is not similarly evident; or

(B) the bidder submits proof which clearly and convincingly demonstrates that a mistake was made.

The mistake claimed by Meadors is covered by 2-202.10.1 and 2-202.10.3(3)(B). This will confirm my advice to you that you may present an affidavit and supporting documentation in support of your request to withdraw the Meadors bid.

The District will not be able to treat your documentation as confidential.

Sincerely,

MEADORS
CONSTRUCTION CO., Inc.

November 17, 2008

Key Largo Wastewater Treatment District
P.O. Box 491
9880 Overseas Hwy
Key Largo, Fl 33037

Attn: Mr. Chuck Fishburn

Re: Key Largo Wastewater Plant Expansion Bid

Attachment No. 1 Print out of Meadors Cut & Add Excel Spreadsheet @ bid time
Attachment No. 2 Print out of Meadors Bid Summary from Estimating Program
Attachment of Affidavit

Gentlemen:

Pursuant to our notification dated November 14, 2008, requesting withdrawal of our bid for The Key Largo WWTP Upgrade Project, please find as follows and attached our supporting documentation of our clerical error.

Just prior to bid day Meadors transfers the estimate from our estimating software to an excel Cut & Add spreadsheet to handle the in-flux of vendor and subcontractor quotes. The Cut and Add sheet adjust for the differences from our estimate and the actual quotes received to derive our bid amount. The estimated cost amount of $13,828,992.69 from our estimate (attachment #2) was inserted into cell C62 of the cut & adds (attachment 1page2). The difference between estimated items and quoted items cell D63 is then subtracted or added to the estimated cost.

The mistake occurred in cell C57 (attachment 1page 2) which should have equaled the estimate total for machinery $3,649,581 from cell C28 (attachment 1 page 3), instead the formula was incorrectly written and brought forward $5,707,278 from cell D28 (attachment 1 page 3). Therefore the difference between the estimated machinery and quoted machinery was never accounted for ($5,707,278-$3,649,581) creating an error in the amount of $2,057,697. The final Cut/Add amount D63 did not include the difference from the machinery sheet.

Upon your review, if you have any questions or need further explanation or documentation please feel free to contact us.

Very truly yours,
Meadors Construction Company, Inc.

Lauren C. Atwell
Vice President

5634 W 5TH Street • Jacksonville, Florida 32254 • Phone: (904) 635-9290 • Fax: (904) 695-9272

	A	B	C	D	E	F
1	**CUT & ADD**			**KEY LARGO WWTP**		
2	SST Included					
3	Item		In Est.	Quoted	Vendor	Buy
4	Silt Fence	s/c	$14,021	$14,021	mcci	
5	Foundation Piles		$122,066	$122,066	pender	5000
6	Utility Structures		$11,380	$12,215	oldcastle	
7	RCP Drain Pipe		$20,223	$27,625	us precast	
8	Grassing	s/c	$21,653	$21,653	mcci	$10,000
9	Landscaping	s/c	$24,223	$22,991	mcci	$10,000
10	Stone (3738 ton)		$134,890	$89,525	riz	
11	Import Soil-2,598 ton		$34,745	$34,745	mcci	
12	Stormwater Wells		$50,000	$16,000	lca	
13	Fencing		$23,212	$39,500	fl fence	
14	Paving		$99,400	$81,819	rpm	
15	Ready Mix 2423@$139.11		$337,064	$337,064	mcci	
16	Concrete (Structural)	s/c		$0	mcci	
17	Concrete (Site)	s/c		$0	mcci	
18	Reinforcing Steel 266 ton x 989.54		$270,440	$246,000	ameristeel	
19	Rodbuster (structural)	s/c	$73,504	$106,400	ks	
20	Rodbuster (site)	s/c		$0	mcci	
21	Masonry	s/c	$127,491	$128,500	cicero	
22	Masonry Rebar	s/c	$6,297	$6,297	mcci	
23	Hollowcore Slabs	s/c	$219,255	$124,821	ccc	$6,000
24	Misc Metals		$647,341	$515,000	dixie	$25,000
25	Windows		$10,820	$20,000	lca	
26	**Windows Installed**		$13,575	$13,575	mcci	
27	Doors/Hardware		$87,740	$87,740	mcci	
28	**Doors Installed**		$99,448	$135,000	lca	
29	Rollup Doors		$21,333	$51,003	all american	
30	Toilet Accessories		$2,247	$3,285	mardale	
31	Lockers & Benches		$2,557	$1,650	storage craft	
32	Casework		$20,560	$20,560	mcci	
33	Lab Casework		$21,400	$15,231	newton	
34	Roofing	s/c	$49,778	$78,300	hilson	
35	Metal Studs	s/c	$22,232	$22,232	mcci	
36	Resilient Tile (floor)	s/c	$5,750	$7,650	carpet 1	
37	Ceramic Tile	s/c	$3,725	$12,930	carpet 1	
38	Carpet	s/c	$2,170	$2,530	carpet 1	
39	Acoustical Ceiling	s/c	$10,500	$10,500	mcci	
40	Drywall	s/c	$10,650	$10,650	mcci	
41	Stucco	s/c	$48,015	$0	cicero	
42	Painting+Coatings	s/c	$250,000	$265,000	service	
43	Epoxy Flooring	s/c	$2,860	$2,860	mcci	
44	Elevator	s/c	$50,000	$48,270	mowry	
45	HDPE Tanks		$85,600	$58,526	beach	$5,000
46	Plumbing	s/c	$93,550	$93,550	mcci	
47	HVAC	s/c	$200,000	$146,000	houston	
48	Louvers		$13,696	$0	houston	

ATTACHMENT 1 PAGE 1

	A	B	C	D	E	F
49	Fuel System	s/c	$75,000	$75,000	mcci	
50	Emergency Generator		$294,250	$220,000	cat	$10,000
51	Electric Construction	s/c	$1,600,000	$1,573,199	fl industrial	
52	Camera System	s/c	$60,000	$69,873	site secure	$10,000
53	Piping, Fitg		$911,381	$1,382,860	mcci	
54	Trench Pipelines	s/c	$100,800	$100,800	mcci	
55	Air Piping (SST)		$331,165	$301,740	douglas bro	$10,000
56	Insulate Air Pipe	s/c	$20,000	$20,000	mcci	
57	Machinery & Pumps		$5,707,278	$5,707,278	mcci	$18,000
58	Builders Risk		$30,000	$280,000	mcci	
59	Additional Bond		$0	$8,500	mcci	
60	Rate Cuts		$0	$0	mcci	$360,000
61			$12,495,285	$12,792,534		$469,000
62	**Base Bid**	=	**$13,828,993**			**$14,126,242**
63			**Cut/Add =**	$297,249	Buy	$469,000
64					Sub Total	$13,657,242
65					Markup	$1,862,351
66						
67					**Grand Total**	**$15,519,593**

From BID Summary Attachment No. 2

Cell formula was = mach! D28 should have been = mach! C28

ATTACHMENT 1 PAGE 2

ATTACHMENT 1 PAGE 3

	A	B	C	D	E	F
1	CUT & ADD			JEA BNR Arlington		
2	SST Included	MACHINERY				
3						
4	Item	spec.	In Est.	Quoted	Vendor	Buy
5	Regenerative Blower		$4,119	$4,119	mcci	
6	Air Compressor		$5,350	$5,350	mcci	
7	Fine Screen	11075	$107,000	$112,350	westec	
8	Biological Process Equipment	11120	$214,000	$2,241,193	aqua	
9	Centrifugal Air Blowers	11520	$481,500	$844,230	aqua	
10	Chemical Feed Pumps	11270	$107,000	$158,360	periflo	
11	Tertiary Package Filters	11123	$963,000	$1,021,768	aqua	
12	Grit Removal System	11079	$321,000	$313,200	eutek	
13	Screening Conveyor/Compactor	11076	$160,500	$32,100	westec	
14	Mod Biofiltration Syst	11090	$214,000	$46,963	biorem	
15	Chemical Induction System	MS26	$74,900	$62,863	periflo	
16	Slide Gates		$42,800	$195,300	rodney hunt	$10,000
17	Rectangular B'Fly Valves		$64,200	$0	rodney hunt	
18	Booster Pumps	11300	$171,200	$105,609	flygt	$5,000
19	Injection Well Pump VT	11300	$321,000	$129,470	flowserve	
20	Plant PS Pumps	11300	$32,100	$0	flygt	
21	Sump Pump		$963	$1,240	granger	
22	Plant Reuse Pump System		$26,750	$26,750	mcci	
23	Sample Pumps	MS28A	$7,704	$7,704	mcci	
24	Samplers		$17,976	$25,000	ks	
25	Surge Tank	MS27	$12,519	$31,295	flow	$3,000
26	Instrumentation		$300,000	$342,414	c2i	
27						
28			$3,649,581	$5,707,278		$18,000
29						
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38						
39						

this cell should have been used for C57 attachment 1 page 2

Meadors Construction Co. Inc.

5634 West 5Th Street
Jacksonville, FL 32254

Phone: 904 695 9290
Fax: 904 695 9272

Bid Summary Report

Project Name:	Key Largo WWTP	**Customer:**	Key Largo Wastewater Treatment District
Job Number:	**Bid Number:** 2008	**Billing Address:**	98880 Overseas Highway
Bid As:	General Contractor		Key Largo, FL 33037
Estimator:	Joe ,Juan, Kevin, Ed, Andy	**Phone:**	305-453-5804
Project Address:	Key Largo WWTP, Key Largo, FL	**Contact:**	Carol Walker
Completion Date:			

Cost Summary

	Direct Cost	% of Direct	% of Bid Price
Labor	$2,019,777.16	14.68%	14.61%
Equipment	$856,513.30	6.22%	6.19%
Materials	$6,923,066.09	50.31%	50.06%
Subcontracted	$3,549,298.25	25.79%	25.67%
Trucking	$23,562.50	0.17%	0.17%
Miscellaneous	$388,087.68	2.82%	2.81%
Plug	$0.00	0.00%	0.00%
Total	$13,760,304.97		99.50%

Cost and Markup Summary

	Calculated	Adds/Cuts	Target	Current	Difference
Direct Cost	$13,760,304.97	$0.00	$13,760,304.97	$13,760,304.97	$0.00
Indirect Cost	$0.00	$0.00	$0.00	$0.00	$0.00
Bond	$68,687.72	$0.00	$68,687.72	$68,687.72	$0.00
Total Cost	$13,828,992.69	$0.00	$13,828,992.69	$13,828,992.69	$0.00
Overhead	$0.00	$0.00	$0.00	$0.00	$0.00
Profit	$0.00	$0.00	$0.00	$0.01	$0.01
Total Markup	$0.00	$0.00	$0.00	$0.01	$0.01
Markup %	0.00%		0.00%	0.00%	0.00%
Margin %	0.00%		0.00%	0.00%	0.00%
Total Price	$13,828,992.69	$0.00	$13,828,992.69	$13,828,992.70	$0.01

Bid vs. Takeoff Summary

	Bid Quantity	Take-off Quantity	Difference
Direct Cost	$13,760,304.97	$13,760,304.97	$0.00
Indirect Cost	$0.00	$0.00	$0.00
Bond	$68,687.72	$68,687.72	$0.00
Total Cost	$13,828,992.69	$13,828,992.69	$0.00
Overhead	$0.00	$0.00	$0.00
Profit	$0.01	$0.01	$0.00
Total Markup	$0.01	$0.01	$0.00
Markup %	0.00%	0.00%	0.00%
Margin %	0.00%	0.00%	0.00%
Total Price	$13,828,992.70	$13,828,992.70	$0.00

Attachment 2

AFFIDAVIT OF LAUREN C. ATWELL

STATE OF FLORIDA)
) ss.
COUNTY OF _____)

I, Lauren C. Atwell, declare as follows:

1. I am over the age of 18, of sound mind, and capable of making this affidavit.

2. I am a Vice President of Meadors Construction Co., Inc. ("Meadors"), and I participated in the preparation of Meadors' bid on the Key Largo Wastewater Plant Expansion.

3. Meadors made a clerical error on its bid for the Key Largo Wastewater Plant Expansion in the amount of $2,057,697. Meadors' bid included its internal estimated cost for certain machinery, but should have accounted for the actual quoted cost for such machinery. The failure to include the actual quoted cost was due to an improperly written formula on a spreadsheet Meadors used to calculate its bid.

4. Attached as **Exhibit 1** is a copy of the spreadsheet depicting the clerical error.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed at MEADORS CONSTRUCTION CO. 5631 W. 5TH STREET JACKSONVILLE, FL 32254 on November 17, 2008.

Lauren C. Atwell

SUBSCRIBED and SWORN to before me this 17 day of November, 2008, by Lauren C. Atwell.

Notary Public

My Commission Expires:

5-4-09

SYLV... DD0425722 ...res 5/4/2009 ...ed thru (800)432-4254 Florida Notary Assn., Inc

Thomas M Dillon

From: Thomas M Dillon [lawtmd@gmail.com]
Sent: Monday, November 17, 2008 5:04 PM
To: Chuck Fishburn; James Brush (jimmyrb@msn.com)
Cc: Andrew M. Tobin; Susan Ford Hammaker
Subject: FW: Meadors Bid withdrawal
Attachments: image001.jpg; 20081117142212.pdf

I am forwarding the information provided by Mr. Atwell of Meadors Construction.

As described in my letter to Mr. Atwell, in order to be permitted to withdraw his bid, he must submit evidence that clearly and convincingly shows that a mistake was made in preparing the bid, and that the mistake was of a clerical nature, rather than an error in judgment. In other words, if the amount of the bid was arrived at through calculations that were based on judgments as to the cost of performance, even if the judgments were erroneous, the bid may not be withdrawn without forfeiting the bid security. In order to be allowed to withdraw the bid, he must show that the error was in the nature of a clerical error.

The standard of proof is "clear and convincing." Here is the definition of that term:

> "Clear and convincing evidence" is evidence that is precise, explicit, lacking in confusion, and of such weight that it produces a firm belief or conviction, without hesitation, about the matter in issue.

In reviewing Mr. Atwell's submittal, you should determine whether the information meets the requisite standard. In order for Meadors to be allowed to withdraw the bid without penalty, the District must determine that the information provided by Mr. Atwell is precise, explicit, lacking in confusion, and of such weight that it produces a firm believe or conviction, without hesitation, that the bid contained a clerical error.

Tom

Thomas M Dillon PA
Board Certified in Construction Law
PO Box 370736
Key Largo, Florida 33037
Phone: 305-240-1767
Fax: 305-853-2693

Please update your address book to show my new email address:
lawtmd@gmail.com

From: Lauren Atwell [mailto:latwell@meadorsconstruction.com]
Sent: Monday, November 17, 2008 2:38 PM
To: cffishburn@aol.com; lawtmd@gmail.com
Subject: Meadors Bid withdrawal

Mr. Fishburn,

Pursuant to our correspondence with Mr. Dillon please find attached our supporting documentation and affidavit for our bid withdrawal request. The original hard copy is being mailed this date as well for your use.

Upon your review if you have any further questions we will be glad to address them as required. Please do not hesitate to contact us.

Thank you.

Lauren C. Atwell

Vice President

MEADORS
CONSTRUCTION CO., Inc.

5634 West 5th Street

Jacksonville, Fl 32254

904.695.9290, Fax 904.695.9272

visit our website @ www.meadorsconstruction.com