

March 30th

2005

**KEY LARGO WASTEWATER TREATMENT DISTRICT BOARD OF
COMMISSIONERS SPECIAL CALL MEETING**

AGENDA

Wednesday, March 30, 2005 at 5:00 PM

Key Largo Civic Club, 209 Ocean Bay Drive

Key Largo, FL

Charles Brooks

Gary Bauman

Andrew Tobin

Glenn Patton

Claude Bullock

Chairman

Vice Chairman

Secretary-Treasure

Commissioner

Commissioner

.....
Charles F. Fishburn

Thomas Dillon

Carol Simpkins

General Manager

District Counsel

Board 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 Board Clerk at 305-451-5105 at least 48 hours in advance to request accommodations.

A. CALL TO ORDER

B. PLEDGE OF ALLEGIANCE

C. GENERAL MANAGER'S REPORT

- | | | | |
|----|---|----------|--------------|
| 1. | Purchase of KLWTD Truck | (Action) | TAB 1 |
| 2. | System Development Charges Presentation | | TAB 2 |
| 3. | SRF Funding Presentation | | TAB 3 |
| 4. | Video Camera for Collection System | | TAB 4 |

D. ADJOURNMENT

March 30, 2005

Call to order 5:10 pm

Pledge: BROOKS

Roll Call

Member	Yes	No	Other	Present
Commissioner Andrew Tobin		Late	5:21 PM	
Commissioner Gary Bauman				
Commissioner Glenn Patton			Absent	
Commissioner Claude Bullock				
Chairman Charles Brooks				

Approval of Agenda

Motion

Second

Member	Yes	No	Other	Present
Commissioner Andrew Tobin				
Commissioner Gary Bauman				
Commissioner Glenn Patton				
Commissioner Claude Bullock				
Chairman Charles Brooks				

Public Comment

TRUCK - no ACTION.

Claude -

Motion

Second

Member	Yes	No	Other
Commissioner Tobin			
Commissioner Bauman			
Commissioner Bullock			
Commissioner Patton			
Chairman Brooks			

Sy Deve Charges Tony

HARISTON - PRMG

MSTU - not on slide

LATERAL - 1 TIME - NOT DIST. Resp.

Claude:

JOB is to LOOK TO SATISFY what MANDATED to DO
what to do if no other ~~penalty~~ END Tape! A

Sensitivity

Creativity

Reality

Motion

Second

Member	Yes	No	Other
Commissioner Tobin			
Commissioner Bauman			
Commissioner Bullock			
Commissioner Patton			
Chairman Brooks			

SRF Def.

Tape 2 - A

Motion

GARY

RFI

Second

CLAUDE

Member	Yes	No	Other
Commissioner Tobin	✓		
Commissioner Bauman	✓		
Commissioner Bullock	✓		
Commissioner Patton		ABSENT	
Chairman Brooks	✓		

40

Motion

Second

Member	Yes	No	Other
Commissioner Tobin			
Commissioner Bauman			
Commissioner Bullock			
Commissioner Patton			
Chairman Brooks			

Motion

Second

Member	Yes	No	Other
Commissioner Tobin			
Commissioner Bauman			
Commissioner Bullock			
Commissioner Patton			
Chairman Brooks			

Motion to adjourn:

Seconded by:

Gauded

~~Seconded by:~~

Andy 3

Adjournment:

Time

7:55

Robert Bark

burke

KEY LARGO WASTEWATER TREATMENT DISTRICT BOARD OF
COMMISSIONERS SPECIAL CALL MEETING

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Charles F. Fishburn
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Carol Simpkins

General Manager
District Counsel
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B. PLEDGE OF ALLEGIANCE

Public Comments
C. GENERAL MANAGER'S REPORT

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D. ADJOURNMENT

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. /

☐ PUBLIC HEARING

☐ RESOLUTION

☐ DISCUSSION

☐ BID/RFP AWARD

☒ GENERAL APPROVAL OF ITEM

☐ CONSENT AGENDA

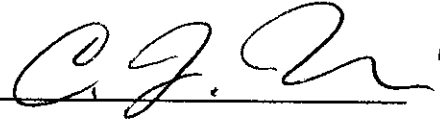
☐ Other:

SUBJECT: District Vehicle

RECOMMENDED MOTION/ACTION: Approval to purchase vehicle.

Approved by General Manager

Date: 2-24-05



Originating Department: General Manager	Costs: \$14,859 Funding Source: Mo. Co. FEMA Match Acct. #	Attachments: Information on two trucks Memo
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager <u>CJ:2</u> <input checked="" type="checkbox"/> Finance <u>CW</u>	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: The District Inspector needs a truck to oversee District construction projects.

Resulting Board Action:

☒ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Memo

To: KLWTD Board
From: Charles F. Fishburn, General Manager
Date: March 30, 2005
Re: District Vehicle

I am proposing to purchase a basic Chevrolet or Ford Truck for use by our inspector for overseeing our construction projects. The truck would be based at our new building and would not be taken home or used for any personal business.

The cost of the truck would be less than \$15,000 and insurance would be less than \$1,100 a year. The mileage would be less than 1,000 miles a month.

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Delete Options	First 3 Zones	Southern
MG5	Provide 5-speed manual transmission with overdrive in lieu of automatic overdrive	\$ 650.00	\$ 750.00
5Z4	Full size spare tire & rim	\$ 75.00	\$ 70.00
C42	Air conditioning	\$ 500.00	\$ 600.00
	Rear seat on extended cab model	N/A	N/A
	AM/FM radio	N/A	NC
	Daytime running lights	N/A	STD
	ABS brakes	N/A	STD

Order Code	Add Options	First 3 Zones	Southern
LR4	Engine: 4.8L V8	\$ 945.00	\$ 945.00
LM7	Engine: 5.3L V8	\$ 1,745.00	\$ 1,745.00
AU3	Power windows/door locks	\$ 900.00	\$ 900.00
K34	Speed control	\$ 240.00	\$ 240.00
	Tilt steering wheel	STD	STD
749	Battery, 650 CCA or greater	\$ 56.00	\$ 56.00
8B0	Dual batteries	\$ 215.00	\$ 215.00
6C7	Passenger dome lamp	\$ 55.00	\$ 95.00
951	Bucket seats in lieu of bench seat	NC	NC
B30	Carpet in lieu of rubber floor covering	\$ 100.00	\$ 975.00
A28	Sliding rear window	\$ 225.00	\$ 175.00
	Standard cab	INCL	INCL
15753	Extended cab model (4 door)	\$ 3,960.00	\$ 4,805.00
15953	Extended cab w/ long bed	\$ 5,555.00	\$ 6,005.00
15743	Crew cab	\$ 9,720.00	\$ 10,360.00
15903	Long bed in lieu of short bed	\$ 100.00	\$ 100.00
BL	Bedliner	\$ 180.00	\$ 212.00
SBL	Spray-on bedliner (Rhino or approved equivalent)	\$ 490.00	\$ 480.00
UBO	AM/FM radio with single CD	\$ 255.00	\$ 255.00
3K	Third key	\$ 38.00	\$ 35.00
	<u>Aluminum tool box</u> <i>request side opening</i>	\$ 375.00	\$ 465.00
RS	Rainshields	\$ 65.00	\$ 67.00
	<u>Deep tinted glass</u>	\$ 107.00	\$ 175.00 ?
	Bug shield	\$ 135.00	\$ 109.00
DF2	Trailer tow mirrors	\$ 70.00	\$ 70.00
V76	Tow hooks	\$ 38.00	N/A
	<u>Heavy duty towing package up to 5000 lbs.</u>	\$ 360.00	\$ 385.00
	with Class III hitch		
	Heavy duty towing package up to 7200 lbs.	\$ 410.00	\$ 595.00
	with appropriate hitch		
	Wrap-around grille guard	\$ 650.00	\$ 980.00
	8000 lb. winch with remote	\$ 1,200.00	\$ 1,750.00

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Add Options (cont'd)	First 3 Zones	Southern
	Class IV hitch & ball	\$ 435.00	\$ 575.00
	7700 lbs. GVWR	N/A	N/A
	Traction control	N/A	N/A
G80	Limited slip differential	\$ 295.00	\$ 295.00
	Side air bags	N/A	N/A
EBC	Electric brake controller	\$ 345.00	\$ 250.00
BUA	Backup alarm		
BUC	Back up camera with 3.5" LCD (rear mounted camera to provide wide angle field of vision at rear of vehicle)	\$ 710.00	\$ 675.00
ISB	Manufacturer's model upgrade pkg. (please specify pkg. bid)	\$ 5,370.00	\$ 5,400.00
	Federal FHL2 headlight flasher	\$ 146.00	\$ 161.00
	Federal FA5 headlight flasher	\$ 146.00	\$ 168.00
	Whelen UHF2150A headlight flasher	\$ 146.00	\$ 157.00
	Whelen UHF2150B headlight flasher	\$ 146.00	\$ 166.00
	Whelen SSF2150 headlight flasher	\$ 146.00	\$ 162.00
	Soundoff Roadrunner headlight flasher w/amp connectors	\$ 135.00	\$ 176.00
	Soundoff Powerpulse headlight flasher w/amp connectors	\$ 156.00	\$ 179.00
	Fiberglass tonneau cover (painted to match)	\$ 1,100.00	\$ 975.00
	Fiberglass cab high topper with front, side and rear windows (painted to match)	\$ 1,200.00	\$ 1,385.00
GS	Grill strobes (Whelen, Federal or approved equivalent)	\$ 375.00	\$ 355.00
LED-GS	LED grill flashing lights (Whelen, Federal or approved equivalent)	\$ 360.00	\$ 399.00
RVS	Rear view mirror strobes (Whelen, Federal or approved equivalent)	\$ 415.00	\$ 399.00
LED-RVS	LED rear view mirror flashing lights (Whelen, Federal or approved equivalent)	\$ 420.00	\$ 405.00
RMS	Roof-mount single amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 210.00	\$ 335.00
RMD	Roof-mount dual amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 235.00	\$ 495.00
4-CS	4 corner strobe amber bar (Whelen, Federal or approved equivalent)	\$ 576.00	\$ 895.00
4-CLED	4 corner LED amber bar (Whelen, Federal or approved equivalent)	\$ 866.00	\$ 1,190.00
CSP60	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 60w power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 495.00
CSP90	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 90w power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 515.00
SPS6J	Corner Strobe Kits - Federal Kit with 4 clear tubes, 6 outlet SPS6J power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 515.00

? is this installed?

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Add Options (cont'd)	First 3 Zones	Southern
RICH	Corner Strobe Kits - Federal Kit with 4 clear tubes, 6 outlet RICHOCHE power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 550.00
NEB	Corner Strobe Kits - Soundoff Kit with 4 clear tubes, 6 outlet, 60w Nebula power supply, 2-15', 2-30' cables	\$ 490.00	\$ 485.00
GEM	Corner Strobe Kits - Soundoff Kit with 4 clear tubes, 6 outlet, 110w Gemini power supply, 2-15', 2-30' cables	\$ 510.00	\$ 580.00
DSM	Complete set of shop manuals ONLY	\$ 400.00	\$ 205.00
	5/75 Manufacturer's Extended Base Care Warranty (\$0 deductible) See Page 1050	\$ 1,270.00	\$ 795.00
	5/75 Manufacturer's Extended Extra Care Warranty (\$0 deductible)	\$ 1,415.00	\$ 650.00
	5/75 Manufacturer's Extended Power Train Warranty (\$0 deductible)	\$ 850.00	\$ 435.00

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

Order Code	Delete Options	1st & Last Zones	Northern	Central
44M	Provide 5-speed manual transmission with overdrive in lieu of automatic overdrive	\$ 600.00	\$ 731.00	\$ 500.00
	Full size spare tire & rim	N/A	N/A	N/A
	Air conditioning	\$ 550.00	\$ 523.00	N/A
	Rear seat on extended cab model	STD	N/A	N/A
	AM/FM radio	N/A	N/A	N/A
	Daytime running lights	\$ 30.00	\$ 25.00	\$ 10.00
	ABS brakes	N/A	N/A	N/A
Order Code	Add Options	1st & Last Zones	Northern	Central
99W	Engine: 4.6L V8	\$ 1,845.00	\$ 1,813.00	\$ 1,845.00
995	Engine: 5.4L V8	\$ 2,740.00	\$ 2,547.00	\$ 1,845.00
85A	Power windows/door locks	\$ 795.00	\$ 795.00	<u>\$ 995.00</u>
52N	Speed control	\$ 225.00	\$ 225.00	<u>\$ 225.00</u>
	Tilt steering wheel	STD	\$ 225.00	STD
	Battery, 650 CCA or greater	N/A	\$ 265.00	\$ 350.00
	Dual batteries	N/A	N/A	N/A
	Passenger dome lamp	\$ 38.00	\$ 65.00	STD
	Bucket seats in lieu of bench seat	\$ 300.00	\$ 490.00	\$ 1,305.00
168	Carpet in lieu of rubber floor covering	\$ 145.00	NC(XLT)	\$ 1,150.00
433	Sliding rear window	\$ 225.00	\$ 225.00	\$ 225.00
	Standard cab	STD	STD	STD
X12	Extended cab model (4 door)	\$ 4,025.00	\$ 2,212.00	\$ 4,675.00
W12	Crew cab	\$ 9,935.00	\$ 5,645.00	\$ 9,780.00
LWB	Long bed in lieu of short bed	\$ 300.00	\$ 300.00	\$ 300.00
	Bedliner	\$ 225.00	\$ 220.00	<u>\$ 395.00</u>
	Spray-on bedliner	\$ 490.00	\$ 485.00	\$ 595.00
	(Rhino or approved equivalent)			
585	AM/FM radio with single CD	\$ 270.00	\$ 360.00	<u>\$ 360.00</u>
3K	Third key	\$ 75.00	\$ 78.00	<u>\$ 95.00</u>
	Aluminum tool box <i>request side opening</i>	\$ 380.00	\$ 383.00	<u>\$ 395.00</u>
RS	Rainshields	\$ 65.00	\$ 87.00	\$ 100.00
924	Deep tinted glass	NC	\$ 325.00	N/A
	Bug shield	\$ 140.00	\$ 225.00	\$ 295.00
	Trailer tow mirrors	N/A	N/A	N/A
	Tow hooks	N/A	N/A	\$ 100.00
	Heavy duty towing package up to 5000 lbs. with Class III hitch	\$ 375.00	\$ 475.00	<u>\$ 400.00</u>
	Heavy duty towing package up to 7200 lbs. with appropriate hitch	\$ 1,260.00	\$ 475.00	\$ 2,195.00
	Wrap-around grille guard	\$ 690.00	\$ 638.00	\$ 695.00
	8000 lb. winch with remote	\$ 1,200.00	\$ 1,125.00	\$ 1,795.00
	Class IV hitch & ball	\$ 435.00	\$ 685.00	\$ 695.00

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

Order Code	Add Options (cont'd)	1st & Last Zones	Northern	Central
627	7700 lbs. GVWR	\$ 4,440.00	\$ 1,788.00	\$ 4,240.00
	Traction control	N/A	N/A	N/A
XH9	Limited slip differential	\$ 300.00	\$ 300.00	\$ 300.00
	Side air bags	N/A	N/A	N/A
EBC	Electric brake controller	\$ 325.00	\$ 345.00	\$ 395.00
BUA	Backup alarm	\$ 89.00	\$ 95.00	\$ 100.00
BUC	Back up camera with 3.5" LCD	\$ 600.00	\$ 549.00	N/A
	(rear mounted camera to provide wide angle field of vision at rear of vehicle)			
STX	Manufacturer's model upgrade pkg. (please specify pkg. bid)	\$ 2,280.00	\$ 4,490.00	\$ 3,090.00
	Federal FHL2 headlight flasher	\$ 146.00	\$ 111.00	\$ 100.00
	Federal FA5 headlight flasher	\$ 146.00	\$ 118.00	\$ 150.00
	Whelen UHF2150A headlight flasher	\$ 146.00	\$ 107.00	\$ 107.00
	Whelen UHF2150B headlight flasher	\$ 146.00	\$ 116.00	\$ 100.00
	Whelen SSF2150 headlight flasher	\$ 146.00	\$ 114.00	\$ 100.00
	Soundoff Roadrunner headlight flasher w/amp connectors	\$ 135.00	\$ 116.00	\$ 100.00
	Soundoff Powerpulse headlight flasher w/amp connectors	\$ 156.00	\$ 119.00	\$ 100.00
	Fiberglass tonneau cover (painted to match)	\$ 1,100.00	\$ 1,115.00	\$ 1,695.00
	Fiberglass cab high topper with front, side and rear windows (painted to match)	\$ 1,200.00	\$ 1,299.00	\$ 1,995.00
GS	Grill strobes (Whelen, Federal or approved equivalent)	\$ 375.00	\$ 279.00	\$ 395.00
LED-GS	LED grill flashing lights (Whelen, Federal or approved equivalent)	\$ 360.00	\$ 279.00	\$ 450.00
RVS	Rear view mirror strobes (Whelen, Federal or approved equivalent)	\$ 415.00	\$ 314.00	\$ 395.00
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RMS	Roof-mount single amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 210.00	\$ 212.00	\$ 195.00
RMD	Roof-mount dual amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 235.00	\$ 276.00	\$ 295.00
4-CS	4 corner strobe amber bar (Whelen, Federal or approved equivalent)	\$ 576.00	\$ 439.00	\$ 595.00
4-CLED	4 corner LED amber bar (Whelen, Federal or approved equivalent)	\$ 866.00	\$ 729.00	\$ 795.00
CSP60	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 60w power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 384.00	\$ 395.00
CSP90	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 90w power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 399.00	\$ 450.00

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
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Order Code	Add Options (cont'd)	1st & Last Zones	Northern	Central
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RICH	Corner Strobe Kits – Federal Kit with 4 clear tubes, 6 outlet RICHOCHECT power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 465.00	<u>\$ 450.00</u>
NEB	Corner Strobe Kits – Soundoff Kit with 4 clear tubes, 6 outlet, 60w Nebula power supply, 2-15', 2-30' cables	\$ 490.00	\$ 398.00	\$ 405.00
GEM	Corner Strobe Kits – Soundoff Kit with 4 clear tubes, 6 outlet, 110w Gemini power supply, 2-15', 2-30' cables	\$ 510.00	\$ 495.00	\$ 450.00
DSM	Complete set of shop manuals ONLY	\$ 400.00	\$ 325.00	\$ 295.00
5/75B	5/75 Manufacturer's Extended Base Care Warranty (\$0 deductible) See Page 1050	\$ 1,215.00	\$ 1,215.00	\$ 1,250.00
5/75E	5/75 Manufacturer's Extended Extra Care Warranty (\$0 deductible)	\$ 1,465.00	\$ 1,465.00	\$ 1,570.00
5/75P	5/75 Manufacturer's Extended Power Train Warranty (\$0 deductible)	\$ 1,005.00	\$ 1,005.00	\$ 1,050.00

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 2

☐ PUBLIC HEARING

☐ RESOLUTION

☒ DISCUSSION

☐ BID/RFP AWARD

☐ GENERAL APPROVAL OF ITEM

☐ CONSENT AGENDA

☐ Other:


SUBJECT: Report from PRMG

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager

Date: 3-24-05



Originating Department: General Manager	Costs: \$ Funding Source: Acct. #	Attachments:
Department Review: <input checked="" type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager  <input checked="" type="checkbox"/> Finance	<input checked="" type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: Tony Hairston of PRMG will make a presentation on initial wastewater system development charges and rates as they relate to our current project and future projects.

Resulting Board Action:

☐ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Key Largo Wastewater Treatment District

-Draft-



-Draft-

System Development Charge and Rate Workshop

March 30, 2005

Presented by Public Resources Management Group, Inc.



Presentation Outline

-Draft-

- Description of various customer costs
- System Development Charge and Assessment Discussion
- Financial Modeling and Monthly User Rates

-Draft-

2





Customer Costs

-Draft-

Lateral (Customer connection)

- One-time cost paid by customer to contractor at time of connection

\$\$

System Development Charge

- Charge paid by customer to District for wastewater plant, transmission, and collection system capital costs

Monthly Charges

- Charge paid by customer to District for monthly operating and maintenance costs associated with wastewater service

-Draft-

3



Lateral (Customer Connection)

-Draft-

- One-time cost paid by customer to contractor at time of connection
- Customer hires contractor for connection to District's collection system and decommission onsite septic system
- Cost will vary among customers

-Draft-

4





System Development Charges

-Draft-

- **Paid by customer to District for capital (construction-related) costs**
- **Commonly referred to as:**
 - **Impact Fee, Capacity Fee, Connection Fee, Capital Recovery Fee, etc.**
- **Payment methods (KLWTD policy options):**
 - **One-time payment**
 - **Payable by customer prior to connection; or**
 - **Multi-year payments**
 - **Non-Ad Valorem assessment on annual property tax bill**
 - **Example: annual payment over 20 or 30 years**

-Draft-

5



Monthly Wastewater Rates

-Draft-

- **Billed monthly to customer for operating/maintenance and other ongoing utility costs**
- **Billing begins at time of service availability**
- **Residential rate structure options**
 - **Flat rate (all customers pay same monthly amount)**
 - **Base rate + usage charge**
 - **Monthly bill varies based on monthly water usage level**
 - **No usage charge past 12,000 gallons per month**
- **Annual rate index (based on published price index, e.g., Consumer Price Index)**

-Draft-

6





-Draft-

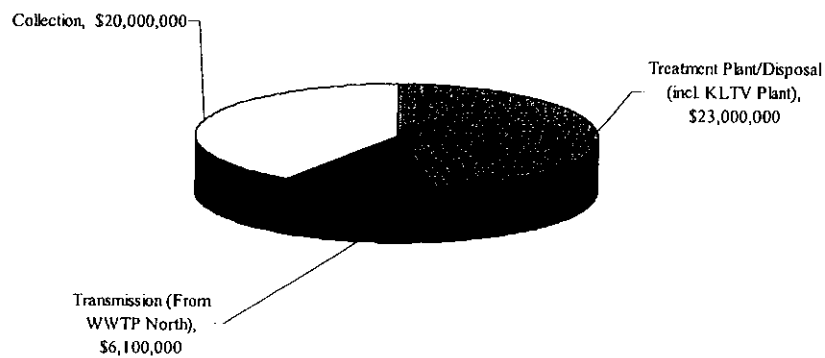
System Development Charge and Assessment Discussion

-Draft-

7



Wastewater System Capital Costs^{*Draft-*} through Fiscal Year 2009



Estimated Project Costs include KLTV, KLP, Calusa Campground, Sexton Cove/Lake Surprise Systems. Total Cost = \$49.1 million.

-Draft-

8





Allocation of Treatment/Disposal -Draft- Capital Costs

- Treatment Costs = \$23.0 million
- Includes interim plant (part of KLTV project)
- Plant designed to serve entire Key Largo Wastewater Treatment District service area
- Approximately 13,000 EDUs
- Average cost per EDU = \$1,700 to \$1,800

-Draft-

9



Allocation of Transmission Capital Costs -Draft-

- Transmission Costs = \$6.1 million (including \$1.1 million currently under construction)
- Cost of transmission from northern end of service area to plant site in middle of service area
- Approximately 6,600 EDUs
- Average cost per EDU = \$900 to \$1000

-Draft-

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Allocation of Collection Capital Costs^{-Draft-}

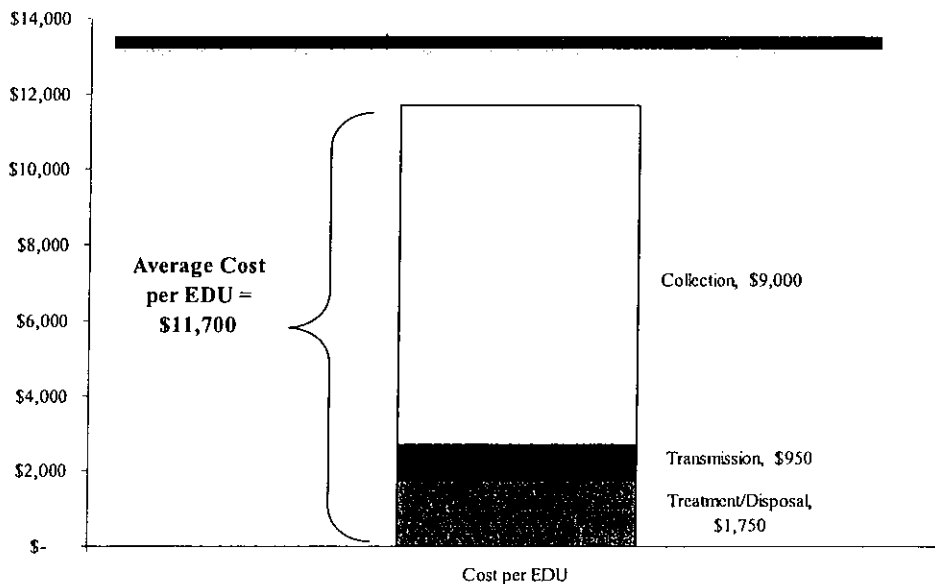
- Collection costs = \$20.0 million
- Cost of collection systems for Key Largo Trailer Village, Key Largo Park, Calusa Campground, Sexton Cove/Lake Surprise projects
- Approximately 2,300 EDUs
- Average cost per EDU = \$8,500 to \$9,500

-Draft-

11



Summary of Capital Costs by Function^{-Draft-}



-Draft-

12





Proposed System Development Charges^{-Draft-}

- Average cost per EDU = \$11,700
- Proposed Residential System Development Charge per EDU = \$4,770
- Proposed charge reflects 59% grant funding
- Grant funding for identified projects is currently 65% (including County Bonds)
- Commercial System Development Charge
 - Proposed \$2,600 to \$3,000 per EDU
- Annual inflation index

-Draft-

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System Development Charges (Cont'd.)^{-Draft-}

- System development charge to be assessed over a 20 - 30 year period, beginning October 2005
 - KL Trailer Village, KL Park, Calusa Campground, Sexton Cove, Lake Surprise
 - Customers may choose to pay entire SDC upfront rather than the 20-30 year assessment
 - Annual assessment of \$4,770 system development charge is approximately \$350.00 (assuming 20 year assessment)
 - 4% discount if payment made in November of tax year
 - Discounted annual amount approx. \$336.00 or \$28.00/month
 - Interest rate is linked to District's borrowing cost

-Draft-

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-Draft-

System Development Charges (Cont'd.)

- **Determination of SDC for forecast purposes**
 - **EDU = Equivalent Dwelling Unit**
 - **Individually Metered Residential = 1 EDU**
 - **Master-Metered Residential = 1.0 EDU per dwelling unit**
 - **Hotels/Campgrounds/etc. = 1.0 EDU per room/site**
 - **Commercial EDUs based on historical usage levels**
 - **1 EDU represents 167 gallons per day**

-Draft-

15



-Draft-

Financial Modeling and Monthly User Rates

-Draft-

16





Financial Model

-Draft-

- **Projection period - Fiscal Year 2005 through 2009**
- **Customer forecast**
 - Customer connections
 - Treatment requirements
 - Billing statistics
 - Revenue projections
- **Capital funding**
 - Capital expenditure schedule
 - Capital funding analysis

-Draft-

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Financial Model (cont'd)

-Draft-

- **Operating expenses**
 - Initial plant operations
 - System-wide plant operations
- **Other considerations**
 - MSTU revenues
 - Debt service
 - Adequate reserve funding

-Draft-

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Financial Model (cont'd)

-Draft-

- Determine average rate level to meet revenue requirements
- Design of actual rates
 - Rates by customer class (residential single-family, residential multi-family, non-residential, etc.)
 - Base monthly charge
 - Usage charge
 - Revenue stability
 - Equity among various customer classes and usage levels

-Draft-

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Monthly Rates

-Draft-

- Monthly rates depend on system development charge option
 - Higher system development charges = Lower monthly rates

Residential System Development Charge (per EDU)	Monthly Basis ⁽¹⁾ billed annually on tax bill, shown here monthly for comparison purposes	Monthly Wastewater Bill ⁽²⁾	Total Monthly Cost
		billed monthly to customer	
1. \$2,700 SDC	\$16.00	\$57.00	\$73.00
or			
2. \$4,770 SDC	\$28.00	\$45.00	\$73.00

-Draft-

(1) Amount reflects 4% discount for paying tax bill in November each year.

(2) Amount reflects estimated average residential bill (base plus usage charge). Amount assumes MSTU is extended past Fiscal Year 2007.

-Draft-

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Estimated Initial Monthly Rates ^{-Draft-}

Monthly Rates for Wastewater Service (1)	Alternative 1	Alternative 2
Residential System Development Charge	\$2,700.00	\$4,770.00
Base Facility Charge (per Account):		
Individually Metered Residential	-to be determined	-to be determined
Multi-Metered Residential (rate per dwelling unit)	--to be determined	to be determined
Commercial and All Other Customer Classes (by meter size):		
5/8 and 3/4-Inch Meter	-to be determined	-to be determined
1-Inch Meter	-to be determined	-to be determined
1 1/2-Inch Meter	-to be determined	-to be determined
2-Inch Meter	-to be determined	-to be determined
3-Inch Meter	-to be determined	-to be determined
4-Inch Meter	-to be determined	-to be determined
6-Inch Meter	-to be determined	-to be determined
Consumption Charge (per 1,000 gallons of metered water service):		
Individually Metered Residential Service -- maximum monthly use of 12,000 gallons	-to be determined	-to be determined
All Other Classes of Service -- All metered Consumption (2)	-to be determined	-to be determined

(1) Rates effective during Fiscal Year 2005 and Fiscal Year 2006. Such rates are to be indexed annually based on the Consumer Price Index or similar index.

(2) Rates reflect domestic-strength wastewater. Industrial surcharges apply for customers with higher than domestic-strength wastewater.

-Draft-

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Conclusions/Recommendations ^{-Draft-}

- **System Development Charges**
 - Residential charge of \$4,770 per EDU
 - Commercial charge between \$2,600 to \$3,000
 - Prior to adoption, final amount may vary from estimate amount due to changes in project costs or EDU tabulation
 - Continue assessment procedure
- **Work with staff on completing financial forecast**
 - Projection of annual revenue requirement
 - Identify average monthly rates
 - Design monthly rates

-Draft-

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KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 3

☒ PUBLIC HEARING

☐ RESOLUTION

☒ DISCUSSION

☐ BID/RFP AWARD

☒ GENERAL APPROVAL OF ITEM

☐ CONSENT AGENDA

Other:

Conch Chouder / Conch FATTICKS /

Robbing / C. J. / C. J. / C. J. /

SUBJECT: State Revolving Fund

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager C. J. /

Date: 3-24-05

Originating Department: General Manager	Costs: \$ Funding Source: Acct. #	Attachments: Memo on representative from SRF Overview of presentation
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager <u>C. J. /</u> <input checked="" type="checkbox"/> Finance <u>M. W. /</u>	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: SRF Funding is specific for wastewater and storm water funding. The District will surely use some level of SRF funding to provide continuity to our future projects. Robert Holmden, FDEP will brief the Board on SRF opportunities.

Resulting Board Action:

☐ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Memo

To: KLWTD Board
From: Charles F. Fishburn, General Manager
CC: File
Date: March 30, 2005
Re: SRF Funding

General Contact Information on SRF representative:

Robert Holmden, Florida Department of Environmental Protection

Bureau of Water Facilities Funding, Wastewater Funding Section

Tallahassee, FL 32399

850-245-8358

robertholmden@dep.state.fl.us

Bob Holmden is a Professional Engineer for the Department of Environmental Protection and is currently the Program Administrator for the Wastewater Funding Section within the Bureau of Water Facilities Funding. He has a B.S. degree in Civil Engineering from Ohio State University and a M.S. degree in Systems Analysis from the University of West Florida. Bob came to the Department in 1994 after spending 21 years in the Air Force.

As program administrator Bob is responsible for implementing the Clean Water State Revolving Fund (SRF) program and the Small Community Wastewater Construction Grants program for Financially Disadvantaged Small Communities. Within these programs he oversees the wastewater, storm water, reuse, and non-point source pollution activities throughout the State.

WHAT IS THE STATE REVOLVING FUND PROGRAM?

The Clean Water Act State Revolving Fund (SRF) Program provides low interest loans for water pollution control activities and facilities. Water pollution control can be divided into point source (a permit for discharge in an urban area is generally involved) and non-point source (stormwater runoff from agricultural operations is generally involved). The Clean Water SRF Program is distinct from the Safe Drinking Water Act SRF that provides funding for drinking water activities and facilities. The Clean Water SRF Program began in 1989 and over a billion dollars in loans have been made by the Department of Environmental Protection. The Program revolves in perpetuity using state and federal appropriations, loan repayments, investment earnings, and bond proceeds.

WHAT KINDS OF PROJECTS ARE ELIGIBLE?

Projects eligible for SRF loans include wastewater management facilities, reclaimed wastewater reuse facilities, stormwater management facilities, widely accepted pollution control practices (sometimes called "best management practices") associated with agricultural stormwater runoff pollution control activities, brownfields associated with contamination of ground or surface waters and estuary protection activities and facilities.

ARE LOANS LIMITED TO CONSTRUCTION FINANCING?

SRF loans are not limited to construction loans. Loans can also be made for the planning and engineering costs necessary for construction. Such loans are described as "preconstruction loans." Preconstruction loans are available for all eligible projects. This type of loan can provide a borrower with the upfront funding necessary to get a project off the ground. When a project involves the control of agricultural runoff, a loan also may be made for the costs associated with widely accepted pollution control practices that include technical services and the purchase of equipment. In summary, loans can be made for just about any activity associated with water pollution control.

WHO IS ELIGIBLE FOR LOANS?

Eligibility is established in the federal Clean Water Act. Local governments such as municipalities, counties, authorities, special districts, and agencies thereof, are eligible for loans to control wastewater and stormwater pollution. Non-governmental parties (basically any entity that can repay a loan) are eligible for loans to control stormwater pollution related to agricultural operations.

WHY SHOULD I BOTHER WITH THE SRF?

The program has been streamlined to make it easier to get funding and the SRF offers interest rates well below market rates. The value of the subsidy varies with the individual borrower's economic wellbeing being measured by income, unemployment and poverty. Generally, interest rates vary from 20% of the market rate for a financially disadvantaged community to 80% of the market rate for a more affluent community. Most communities qualify for rates below 60% of the market rate. In addition to excellent rates, all loans offer fixed rate financing for the principal amount of the loan and for the life of the loan.

WHAT ASSISTANCE IS AVAILABLE FOR SMALL COMMUNITIES?

At the beginning of each year, small communities having populations of less than 20,000 are entitled to priority use of 15% of all loan funds. In addition, small communities qualify for loans from the unreserved 85% funds. All projects are prioritized for funding according to a system that favors small projects regardless of who the project sponsor is. Over the years, small communities have accounted for 30% of all loans.

WHAT ARE THE LOAN TERMS?

Generally, loans are to be repaid over 20 years or the useful life of the project whichever is less. The loan repayment period can be extended to a maximum of 30 years or useful life of the project for projects to benefit a small community with a financial hardship. Preconstruction loans and loans for the costs associated with pollution control associated with agricultural runoff have shorter loan repayment periods (generally 10 years). The interest rate is below market. An interest rate write-down (subsidy) is available to both governmental and non-governmental borrowers. Once established, the rate does not change over the life of the loan. Repayment begins six months after project work is scheduled for completion. Payback consists of equal semiannual repayments. A dedicated revenue source to repay the loan is required. Excess revenue, debt service reserve and other loan security features may vary depending on the source and predictability of the pledged revenue.

ARE THERE FEES ASSOCIATED WITH THE SRF?

All loans are charged a loan service fee of 2%. The fee is based on actual project costs so you only get charged for what you actually use. There are no other fees!

WHAT ARE THE STEPS IN OBTAINING A LOAN?

First, project information is provided on a *Request for Inclusion Form* to establish the project sponsor, a project description, priority score, and estimated project cost. For preconstruction loans this is the only documentation required to be put on the Department's project priority list. If pursuing a construction loan, completion of a planning, design, permitting and site certification process is needed next. The Department will then add the project to its project priority list at a public hearing. Once it is placed on the fundable portion of the priority list for a preconstruction or construction loan a completed *Loan Application Form* is sent to the Bureau of Water Facilities Funding. Finally, a *Loan Agreement* drafted by the Department is executed by both parties to the loan. All forms are available on the Department's website at www.dep.state.fl.us/wff/wwwmanual.htm.

WHAT IS THE TIMELINE FOR GETTING FUNDS?

The process can be initiated upon request of a project sponsor at any time. However, the availability of funds is the greatest at the beginning of the State fiscal year. A hearing is held quarterly to allocate funds. Potential SRF program participants are encouraged to contact the Bureau of Water Facilities Funding for further information.

For more information or to arrange a meeting, please contact:

Department of Environmental Protection
Bureau of Water Facilities Funding
Mail Station 3505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8358
www.dep.state.fl.us/water/wff



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

NOTIFICATION/APPLICATION FOR CONSTRUCTING A DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM

PART I - GENERAL

Subpart A: Permit Application Type

Permit Application Type (mark one only)	EDUs Served	Application Fee*	"X"
Are you applying for an individual permit for a domestic wastewater collection/transmission system? Note: an EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.	≥ 10	\$500	<input type="checkbox"/>
	< 10	\$300	<input type="checkbox"/>
Is this a Notice of Intent to use the general permit for wastewater collection/transmission systems? Criteria for qualifying for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.	N/A	\$250	<input type="checkbox"/>

*Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

- This form shall be completed for all domestic wastewater collection/transmission system construction projects as follows:
 - If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department at least 30 days prior to initiating construction.
 - If this is an application for an individual permit, the permit must be obtained prior to initiating construction.
- One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program.
 - If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
 - If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application, or alternatively, an engineering report shall be submitted. Plans and specifications and engineering reports shall be prepared in accordance with the applicable provisions of Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*. The plans and specifications or engineering report shall be signed and sealed by a Professional Engineer registered in Florida.
- All information shall be typed or printed in ink. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

PART II – PROJECT DOCUMENTATION

(1) Collection/Transmission System Permittee

Name _____ Title _____
 Company Name _____
 Address _____
 City _____ State _____ Zip _____
 Telephone _____ Fax _____ Email _____

(2) General Project Information

Project Name _____
 Location: County _____ City _____ Section _____ Township _____ Range _____
 Project Description and Purpose (including pipe length, range of pipe diameter, total number of manholes, and total number of pump stations) _____

 Estimated date for: Start of construction _____ Completion of construction _____
 Connections to existing system or treatment plant _____

(3) Project Capacity

A = Type of Unit	B = Number of Units	C = Population Per Unit	D = Total Population (Columns B x C)	E = Per Capita Flow	F = Total Average Daily Flow (Columns D x E)	G = Peak hour flow
Single-Family Home						
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total						

* Description of commercial, institutional, and industrial facilities and explanation of method used to estimate per capita flow for these facilities:

(4) Pump Station Data (attached additional sheets as necessary)

Location	Type	Estimated Flow to the Station (GPD)			Operating Conditions (GPM @ FT (TDH))
		Maximum	Average	Minimum	

(5) Collection/Transmission System Design Information

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project.

If this project has been designed to comply with the standards and criteria listed below, the engineer shall initial in ink before the standards or criteria. If any of the standards or criteria do not apply to this project or if this project has not been designed to comply with the standards or criteria, mark "X" before the appropriate standard or criteria and provide an explanation, including any applicable rule references, in (5)B. below.

Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit.

General Requirements

1. The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. [RSWF 11.243]
2. Procedures are specified for operation of the collection/transmission system during construction. [RSWF 20.15]
3. The project is designed to be located on public right-of-ways, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]
4. The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]
5. The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]
6. The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g)(h) and (i) and (3), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(i) 3., F.A.C., are used, describe in Part II.C. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g), (h), and (i) and (3), F.A.C.]

Gravity Sewers

7. The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]
8. The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3]
9. All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]
10. Sewers are designed with uniform slope between manholes. [RWSF 33.44]
11. Where velocities greater than 15 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]
12. Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]

- _____ 13. Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5]
- _____ 14. Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7]
- _____ 15. Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7]
- _____ 16. Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81]
- _____ 17. Appropriate deflection tests are specified for all flexible pipe. Testing is required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85]
- _____ 18. Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95]
- _____ 19. If an inverted siphon is proposed, documentation of its need is provided in Part II.C. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35]

Manholes

- _____ 20. The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1]
- _____ 21. Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2]
- _____ 22. Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 22 inches. [RSWF 34.3]
- _____ 23. Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5]
- _____ 24. Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF 34.6]
- _____ 25. Manhole inspection and testing for watertightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]
- _____ 26. Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

Stream Crossings

- _____ 27. Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21 and 48.5]
- _____ 28. Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances from the shoreline to prevent discharge in the event the line is damaged. [62-604.400(2)(k)5., F.A.C.]
- _____ 29. Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(k)1., F.A.C., and RSWF 36.11]
- _____ 30. Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(k)2., F.A.C.]
- _____ 31. Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(k)4., F.A.C.]
- _____ 32. Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning and settlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37 and 48.5]
- _____ 33. Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(k)3., F.A.C.]

Pump Stations

- _____ 34. In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), F.A.C.]
 - _____ 35. Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2]
 - _____ 36. Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3]
 - _____ 37. Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42.21]
 - _____ 38. The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]
-

39. The design includes provisions for: 1) suitable and safe means of access for persons wearing self-contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23]
40. Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25]
41. Except for low-pressure grinder or STEP systems, multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36]
42. Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322]
43. Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. [RSWF 42.33] (Note, this provision is not applicable to grinder pumps.)
44. The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34]
45. The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lightning arrestors, surge capacitors, or other similar protection devices and phase protection. Note, pump stations serving a single building are not required to provide surge protection devices if not necessary to protect the pump station. [62-604.400(2)(b), F.A.C.]
46. The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements for Class I Group D, Division 1 locations; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35]
47. The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF 42.37]
48. Pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]
49. The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]
50. The design requires: 1) suitable shutoff valves be placed on the suction line of dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5]
51. The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]
52. The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF 42.63]

53. For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]
54. The design provides for adequate ventilation all pump stations; mechanical ventilation where the dry well is below the ground surface; permanently installed ventilation if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]
55. The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]
56. The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]
57. If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]
58. If dry well ventilation is continuous, design provides at least 6 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]
59. Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]
60. The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]
61. The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 1200 gpm or greater design peak flow. [RSWF 42.8]
62. The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]

Additional Items to be Completed for Suction-Lift Pump Stations

63. The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]
64. The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be removed for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

65. Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]
66. The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]
67. In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]
68. In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]
69. In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]
70. In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]

Emergency Operations for Pump Stations

71. Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.C. showing an equivalent level of reliability and public health protection. [RSWF 45]
72. The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 46.423 and 46.433]
73. The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 46.431]
74. The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 46.411, 46.417, and 46.432]

75. For permanently-installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 46.414 and 46.415]
76. For permanently-installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 46.422]
77. Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 46.44]

Force Mains

78. Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. [RSWF 48.1]
79. The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stubouts on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]
80. The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF 48.2]
81. Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater pump stations. [RSWF 48.4]
82. When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 for design. [RSWF 48.61]
83. Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]
84. Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]

*RSWF = *Recommended Standards for Wastewater Facilities* (1997) as adopted by rule 62-604.300(5)(c), F.A.C.

B. Explanation for Requirements or Standards Marked "X" in II(5)A. Above (Attach additional sheets if necessary):

PART III - CERTIFICATIONS

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of _____
am fully aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed into service for any purpose other than testing for leaks and testing equipment operation.

Signed _____ Date _____
Name _____ Title _____

*Attach a letter of authorization.

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of _____ certify that we will be the Owner of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with applicable Department rules. Also I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date _____
Name _____ Title _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____

* Attach a letter of authorization.

(3) Wastewater Facility Serving Collection/Transmission System**

If this is a Notice of Intent to use a general permit, check here:

- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project _____
County _____ City _____
DEP permit number FL _____ Expiration Date _____
Maximum monthly average daily flow over the last 12 month period _____ MGD Month(s) used _____
Maximum three-month average daily flow over the last 12 month period _____ MGD Month(s) used _____
Current permitted capacity _____ MGD ☐ AADF ☐ MADF ☐ TMADF
Current outstanding flow commitments (including this project) against treatment plant capacity: _____

Signed _____ Date _____
Name _____ Title _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____

* Attach a letter of authorization.

** If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that plans and specifications for this project have been completed; that I have expertise in the design of wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design for this project complies with the requirements of Chapter 62-604, F.A.C.

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

AND

(*1), FLORIDA

**CLEAN WATER STATE REVOLVING FUND
CONSTRUCTION LOAN AGREEMENT
WWG120(*2)**

Florida Department of Environmental Protection
Bureau of Water Facilities Funding
Twin Towers Office Building
2600 Blair Stone Road, MS 3505
Tallahassee, Florida 32399-2400

CLEAN WATER STATE REVOLVING FUND CONSTRUCTION LOAN AGREEMENT

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CLEAN WATER STATE REVOLVING FUND CONSTRUCTION LOAN AGREEMENT
WWG120(*2)

THIS AGREEMENT is executed by the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (Department) and the (*1), FLORIDA, (Local Government) existing as a local governmental agency under the laws of the State of Florida.

WITNESSETH:

WHEREAS, pursuant to Section 403.1835, Florida Statutes, the Department is authorized to make loans to local government agencies to finance or refinance the construction of wastewater pollution control facilities, the planning and design of which have been reviewed by the Department; and

WHEREAS, the Local Government has made application for the financing of the Project, and the Department has determined that such Project meets all requirements for a loan.

NOW, THEREFORE, in consideration of the Department loaning money to the Local Government, in the principal amount and pursuant to the covenants hereinafter set forth, it is agreed as follows:

ARTICLE I - DEFINITIONS

1.01. WORDS AND TERMS.

Words and terms used herein shall have the meanings set forth below:

(1) "Agreement" or "Loan Agreement" shall mean this construction loan agreement.

(2) "Authorized Representative" shall mean the official of the Local Government authorized by ordinance or resolution to sign documents associated with the Loan.

(3) "Capitalized Interest" shall mean the interest accruing on Loan proceeds from the time of disbursement until six months before the first Semiannual Loan Payment is due. Capitalized Interest is financed as part of the Loan principal.

(4) "Depository" shall mean a bank or trust company, having a combined capital and unimpaired surplus of not less than \$50 million, authorized to transact commercial banking or savings and loan business in the State of Florida and insured by the Federal Deposit Insurance Corporation.

(5) "Grant Allocation Assessment" shall mean an assessment, expressed as a percent per annum, accruing on the unpaid balance of the Loan. It is computed similarly to the way interest charged on the Loan is computed and is included in the Semiannual Loan Payment. The Department will use Grant Allocation Assessment moneys for making grants to financially disadvantaged small communities pursuant to Section 403.1835 of the Florida Statutes.

(6) "Gross Revenues" shall mean all income or earnings received by the Local Government from the ownership or operation of its Water and Sewer Systems, including investment income, all as calculated in accordance with generally accepted accounting principles. Gross Revenues shall not include proceeds from the sale or other disposition of any part of the Water or Sewer System, condemnation

) awards or proceeds of insurance, except use and occupancy or business interruption insurance, received with respect to the Water or Sewer System.

(7) "Loan" shall mean the amount of money to be loaned pursuant to this Agreement and subsequent amendments.

(8) "Loan Application" shall mean the completed form which provides all information required to support obtaining construction loan financial assistance.

(9) "Loan Debt Service Account" shall mean an account, or a separately identified component of a pooled cash or liquid account, with a Depository established by the Local Government for the purpose of accumulating Monthly Loan Deposits and making Semiannual Loan Payments.

(10) "Loan Repayment Reserve Account" or "Loan Repayment Reserve" shall mean the account into which will be deposited the amount set aside to pay temporary and unexpected deficiencies, if any, in the Semiannual Loan Payment.

(11) "Loan Service Fee" shall mean an origination fee which shall be paid to the Department by the Local Government.

(12) "Monthly Loan Deposit" shall mean the monthly deposit to be made by the Local Government to the Loan Debt Service Account.

(13) "Operation and Maintenance Expense" shall mean the costs of operating and maintaining the Water and Sewer Systems determined pursuant to generally accepted accounting principles, exclusive of interest on any debt payable from Gross Revenues, depreciation, and any other items not requiring the expenditure of cash.

(14) "Pledged Revenues" shall mean the specific revenues pledged as security for repayment of the Loan and shall be the [* name applicable revenues] Gross Revenues derived yearly from the operation of the Water and Sewer Systems after payment of the Operation and Maintenance Expense and the satisfaction of all yearly payment obligations on account of [* If applicable] the Senior Revenue Obligations and any senior obligations issued pursuant to Section 7.02 of this Agreement.

(15) "Project" shall mean the works financed by this Loan and shall consist of furnishing all labor, materials, and equipment to construct the [* brief description or name of project] in accordance with the plans and specifications accepted by the Department for the following contracts:

(a) (* title).

(b) (* title). [* If applicable] This contract includes installation of [equipment], which will be furnished by the contract listed under (c), below.

(c) (* title). [* If applicable] This contract is for purchasing [equipment], which will be installed by the contract listed under (b), above.

(d) (* title).

The Project is in agreement with the _____ Facilities Plan, dated _____ [* include other studies if applicable]. Approval of this Project is provided by the Florida Finding of No Significant Impact dated _____

_____. [* If applicable.] This Project is a Capitalization Grant Project as defined in Chapter 62-503, Florida Administrative Code.

(16) "Semiannual Loan Payment" shall mean the payment due from the Local Government to the Department at six-month intervals, and it is comprised of principal, interest, and Grant Allocation Assessment. In addition, the Loan Service Fee and all associated interest are deducted from the first two payments.

(17) [* Include if applicable] "Senior Revenue Obligations" shall mean the following debt obligations:

(a) (* Name), Florida, Water and Sewer System Revenue Refunding Bonds, Series 19_____, issued in the amount of \$_____, pursuant to Ordinance Resolution No. _____; and

(b) (* Name), Florida, Water and Sewer System Revenue Bonds, Series 19_____, issued in the amount of \$_____, pursuant to Ordinance Resolution No. _____; and

(c) Additional bonds issued on a parity with the bonds identified above pursuant to Section _____ of Ordinance Resolution No. _____; and

(d) Any refunding bonds issued to refund the obligations identified above provided such bonds shall not increase annual debt service during the repayment period of this Loan.

(18) "Sewer System" shall mean all facilities owned by the Local Government for collection, transmission, treatment and reuse of wastewater and its residuals.

(19) "Water System" shall mean all facilities owned by the Local Government for supplying and distributing water for residential, commercial, industrial, and governmental use.

1.02. CORRELATIVE WORDS.

Words of the masculine gender shall be understood to include correlative words of the feminine and neuter genders. Unless the context shall otherwise indicate, the singular shall include the plural and the word "person" shall include corporations and associations, including public bodies, as well as natural persons.

ARTICLE II - WARRANTIES, REPRESENTATIONS AND COVENANTS

2.01. WARRANTIES, REPRESENTATIONS AND COVENANTS.

The Local Government warrants, represents and covenants that:

(1) The Local Government has full power and authority to enter into this Agreement and to comply with the provisions hereof.

(2) The Local Government currently is not the subject of bankruptcy, insolvency, or reorganization proceedings and is not in default of, or otherwise subject to, any agreement or any law, administrative regulation, judgment, decree, note, resolution, charter or ordinance which would currently restrain or enjoin it from entering into, or complying with, this Agreement.

(3) There is no material action, suit, proceeding, inquiry or investigation, at law or in equity, before any court or public body, pending or, to the best of the Local Government's knowledge, threatened, which seeks to restrain or enjoin the Local Government from entering into or complying with this Agreement.

(4) All permits, real property interests, and approvals required as of the date of this Agreement have been obtained for construction and use of the Project. The Local Government knows of no reason why any future required permits or approvals are not obtainable.

(5) The Local Government shall undertake the Project on its own responsibility, to the extent permitted by law.

(6) To the extent permitted by law, the Local Government shall release and hold harmless the State, its officers, members, and employees from any claim arising in connection with the Local Government's actions or omissions in its planning, engineering, administrative, and construction activities financed by this Loan or its operation of the Project.

(7) All Local Government representations to the Department, pursuant to the Loan Application and Agreement, were true and accurate as of the date such representations were made. The financial information delivered by the Local Government to the Department was current and correct as of the date such information was delivered. The Local Government shall comply with Chapter 62-503, Florida Administrative Code, and all applicable State and Federal laws, rules, and regulations which are identified in the Loan Application or Agreement [* If Cap Grant Project.], including Items (o) through (v) under Part IV(2) of the Loan Application. To the extent that any assurance, representation, or covenant requires a future action, the Local Government shall take such action as is necessary for compliance.

(8) The Local Government shall maintain records using Generally Accepted Governmental Accounting Standards established by the Governmental Accounting Standards Board. As part of its bookkeeping system, the Local Government shall keep accounts of the Water and Sewer Systems separate from all other accounts and it shall keep accurate records of all revenues, expenses, and expenditures relating to the Water and Sewer Systems, and of the Pledged Revenues, Loan disbursement receipts, Loan Debt Service Account, and Loan Repayment Reserve Account.

(9) In the event the anticipated Pledged Revenues are shown by the Local Government's annual budget to be insufficient to make the Semiannual Loan Payments for such Fiscal Year when due, the Local Government shall include in such budget other legally available funds which will be sufficient, together with the Pledged Revenues, to make the Semiannual Loan Payments. Such other legally available funds shall be budgeted in the regular annual governmental budget and designated for the purpose provided by this Subsection, and the Local Government shall collect such funds for application as provided herein. The Local Government shall notify the Department immediately in writing of any such budgeting of other legally available funds. Nothing in this covenant shall be construed as creating a pledge, lien, or charge upon any such other legally available funds; requiring the Local Government to levy or appropriate ad valorem tax revenues; or preventing the Local Government from pledging to the payment of any bonds or other obligations all or any part of such other legally available funds.

(10) Each year, beginning three months before the first Semiannual Loan Payment and ending with the year during which the final Loan repayment is made, the Local Government's Authorized Representative or its chief financial officer shall submit, pursuant to the schedule established in Section 10.07, a certification that: (a) Pledged Revenue collections satisfy, on a pro rata basis, the rate coverage requirement; (b) the Loan Debt Service Account contains the funds required; (c) the Loan Repayment Reserve Account contains the funds required; and (d) insurance, including that issued through

) the National Flood Insurance Program authorized under 42 U.S.C. secs. 4001-4128 when applicable, in effect for the facilities generating the Pledged Revenues, adequately covers the customary risks to the extent that such insurance is available.

(11) Pursuant to Section 216.347 of the Florida Statutes, the Local Government shall not use the Loan proceeds for the purpose of lobbying the Florida Legislature, the Judicial Branch, or a State agency.

(12) The Local Government agrees to construct the Project in accordance with the Project schedule. Delays incident to strikes, riots, acts of God, and other events beyond the reasonable control of the Local Government are excepted. If for any reason construction is not completed as scheduled, there shall be no resulting diminution or delay in the Semiannual Loan Payment or the Monthly Loan Deposit or funding of the Loan Repayment Reserve Account.

(13) The Local Government covenants that this Agreement is entered into for the purpose of constructing, refunding, or refinancing the Project which will in all events serve a public purpose. The Local Government covenants that it will, under all conditions, complete and operate the Project to fulfill the public need.

(14) [* Include for refinancing loans.]The proceeds of any indebtedness, which will be refunded or refinanced by this loan, were used for the construction of this Project. Refinancing shall be in the proportion of the ratio of completed allowable construction work to the total construction work originally financed and shall be limited to unretired debt principal, excluding any reserves such as for debt service.

2.02. LEGAL AUTHORIZATION.

) Upon signing this Agreement, the Local Government's legal counsel hereby expresses the opinion, subject to laws affecting the rights of creditors generally, that:

(1) This Agreement has been duly authorized by the Local Government and shall constitute a valid and legal obligation of the Local Government enforceable in accordance with its terms upon execution by both parties; and

(2) This Agreement specifies the revenues pledged for repayment of the Loan, and the pledge is valid and enforceable.

2.03. AUDIT AND MONITORING REQUIREMENTS.

The Local Government agrees to the following audit and monitoring requirements.

(1) The financial assistance authorized pursuant to this Loan Agreement consists of following:

Federal Resources, Including State Match, Awarded to the Recipient Pursuant to this Agreement Consist of the Following:					
Federal Program Number	Federal Agency	CFDA Number	CFDA Title	Funding Amount	State Appropriation Category
CS120001-010	EPA	66.458	Capitalization Grants for State Revolving Funds	\$	140131

(2) Audits.

(a) In the event that the Local Government expends \$300,000 or more in Federal awards in its fiscal year, the Local Government must have a single or program-specific audit conducted in accordance with the provisions of OMB Circular A-133, as revised. Subsection 2.03(1) of this Agreement indicates that Federal funds are awarded through the Department of Environmental Protection by this Agreement. In determining the Federal awards expended in its fiscal year, the Local Government shall consider all sources of Federal awards, including Federal resources received from the Department of Environmental Protection. The determination of amounts of Federal awards expended should be in accordance with the guidelines established by OMB Circular A-133, as revised. An audit of the Local Government conducted by the Auditor General in accordance with the provisions of OMB Circular A-133, as revised, will meet the requirements of this part.

(b) In connection with the audit requirements addressed in the preceding paragraph (a), the Local Government shall fulfill the requirements relative to auditee responsibilities as provided in Subpart C of OMB Circular A-133, as revised.

(c) If the Local Government expends less than \$300,000 in Federal awards in its fiscal year, an audit conducted in accordance with the provisions of OMB Circular A-133, as revised, is not required. In the event that the Local Government expends less than \$300,000 in Federal awards in its fiscal year and elects to have an audit conducted in accordance with the provisions of OMB Circular A-133, as revised, the cost of the audit must be paid from non-Federal resources (i.e., the cost of such an audit must be paid from Local Government resources obtained from other than Federal entities).

(d) The Local Government may access information regarding the Catalog of Federal Domestic Assistance (CFDA) via the internet at <http://aspe.os.dhhs.gov/cfda>.

(3) Report Submission.

(a) Copies of reporting packages for audits conducted in accordance with OMB Circular A-133, as revised, and required by Subsection 2.03(2) of this Agreement shall be submitted, when required by Section .320 (d), OMB Circular A-133, as revised, by or on behalf of the Local Government directly to each of the following:

(i) The Department of Environmental Protection at each of the following addresses:

Don W. Berryhill, P.E., Chief
Bureau of Water Facilities Funding
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 3505
Tallahassee, Florida 32399-2400

Joe Aita, Audit Director
Office of the Inspector General
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 40
Tallahassee, Florida 32399-2400

(ii) The Federal Audit Clearinghouse designated in OMB Circular A-133, as revised (the number of copies required by Sections .320 (d)(1) and (2), OMB Circular A-133, as revised, should be submitted to the Federal Audit Clearinghouse), at the following address:

)
Federal Audit Clearinghouse
Bureau of the Census
1201 East 10th Street
Jeffersonville, IN 47132

- (iii) Other Federal agencies and pass-through entities in accordance with Sections .320(e) and (f), OMB Circular A-133, as revised.

(b) Pursuant to Section .320(f), OMB Circular A-133, as revised, the Local Government shall submit a copy of the reporting package described in Section .320(c), OMB Circular A-133, as revised, and any management letters issued by the auditor, to the Department of Environmental Protection at the two addresses listed under Subsection 2.03(3)(a) of this Agreement.

(c) Any reports, management letters, or other information required to be submitted to the Department of Environmental Protection pursuant to this Agreement shall be submitted timely in accordance with OMB Circular A-133, Florida Statutes, or Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, as applicable.

(d) Local Governments, when submitting financial reporting packages to the Department of Environmental Protection for audits done in accordance with OMB Circular A-133, or Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, should indicate the date that the reporting package was delivered to the Local Government in correspondence accompanying the reporting package.

(4) Project-Specific Audit.

) Within 12 months after the amendment establishing final Project costs, the Local Government shall submit to the Department a Project-specific audit report for the Loan related revenues and expenditures. The audit shall address Loan disbursements received, Project expenditures, and compliance with Loan Agreement covenants. The Local Government shall cause the auditor to notify the Department immediately if anything comes to the auditor's attention during the examination of records that would constitute a default under the Loan Agreement. The audit findings shall set aside or question any costs that are unallowable under Chapter 62-503, Florida Administrative Code. A final determination of whether such costs are allowed shall be made by the Department.

(5) Record Retention.

The Local Government shall retain sufficient records demonstrating its compliance with the terms of this Agreement for a period of five years from the date the audit report is issued, and shall allow the Department of Environmental Protection, or its designee, Comptroller, or Auditor General access to such records upon request. The Local Government shall ensure that audit working papers are made available to the Department of Environmental Protection, or its designee, Comptroller, or Auditor General upon request for a period of three years from the date the audit report is issued, unless extended in writing by the Department of Environmental Protection.

(6) Monitoring.

) In addition to reviews of audits conducted in accordance with OMB Circular A-133, as revised (see audit requirements above), monitoring procedures may include, but not be limited to, on-site visits by Department staff, limited scope audits as defined by OMB Circular A-133, as revised, and/or other procedures. By entering into this Agreement, the Local Government agrees to comply and cooperate with

) any monitoring procedures/processes deemed appropriate by the Department of Environmental Protection. In the event the Department of Environmental Protection determines that a limited scope audit of the Local Government is appropriate, the Local Government agrees to comply with any additional instructions provided by the Department to the Local Government regarding such audit. The Local Government further agrees to comply and cooperate with any inspections, reviews, investigations, or audits deemed necessary by the Comptroller or Auditor General.

ARTICLE III - LOAN REPAYMENT ACCOUNTS

3.01. LOAN DEBT SERVICE ACCOUNT.

The Local Government shall establish a Loan Debt Service Account with a Depository and begin making Monthly Loan Deposits no later than the date set forth for such action in Section 10.07 of this Agreement.

Beginning six months prior to each Semiannual Loan Payment, the Local Government shall make six Monthly Loan Deposits. The first five deposits each shall be at least equal to one-sixth of the Semiannual Loan Payment. The sixth Monthly Loan Deposit shall be at least equal to the amount required to make the total on deposit in the Loan Debt Service Account equal to the Semiannual Loan Payment amount, taking into consideration investment earnings credited to the account pursuant to Section 3.02.

) Any month in which the Local Government fails to make a required Monthly Loan Deposit, the Local Government's chief financial officer shall notify the Department of such failure. In addition, the Local Government agrees to budget, by amendment if necessary, payment to the Department from other legally available funds all sums becoming due before the same become delinquent. This requirement shall not be construed to give superiority to the Department's claim on any revenues over prior claims of general creditors of the Local Government, nor shall it be construed to give the Department the power to require the Local Government to levy and collect any revenues other than Pledged Revenues.

3.02. INVESTMENT OF LOAN DEBT SERVICE ACCOUNT MONEYS.

Moneys on deposit in the Loan Debt Service Account shall be invested pursuant to the laws of the State of Florida. Such moneys may be pooled for investment purposes. The maturity or redemption date of investments shall be not later than the date upon which such moneys may be needed to make Semiannual Loan Payments. The investment earnings shall be credited to the Loan Debt Service Account and applied toward the Monthly Loan Deposit requirements.

3.03. LOAN DEBT SERVICE ACCOUNT WITHDRAWALS.

The withdrawal of moneys from the Loan Debt Service Account shall be for the sole purpose of making the Semiannual Loan Payment or for discharging the Local Government's obligations pursuant to Section 8.01.

3.04. LOAN REPAYMENT RESERVE ACCOUNT.

) A Loan Repayment Reserve Account shall be established with a Depository. The Local Government shall deposit into the account the reserve amount identified in Section 10.07 of this Agreement by the date set forth therein.

3.05. LOAN REPAYMENT RESERVE WITHDRAWALS.

The Loan Repayment Reserve Account shall be used by the Local Government to cure a temporary and unexpected deficiency in any Semiannual Loan Payment. The Local Government's chief financial officer shall promptly notify the Department upon any withdrawal from the account. Any unused portion of the Loan Repayment Reserve Account shall be applied to the final Semiannual Loan Payment(s) or used for discharging the Local Government's obligations pursuant to Section 8.01.

3.06. RESTORATION OF LOAN REPAYMENT RESERVE ACCOUNT.

A default causing the Local Government to use the Loan Repayment Reserve Account or the use of the account to prevent default shall result in the Local Government being responsible for making special deposits to restore the account. Special restoration deposits shall be made from the first moneys legally available to the Local Government for such purpose.

3.07. INVESTMENT OF LOAN REPAYMENT RESERVE MONEYS.

Moneys on deposit in the Loan Repayment Reserve Account shall be invested pursuant to the laws of the State of Florida. Such moneys may be pooled for investment purposes. The maturity or redemption date of investments shall be not later than the date set for the final Semiannual Loan Payment provided, however, that moneys must be available for withdrawal, if necessary, pursuant to Section 3.05 of this Agreement. All investment income and earnings shall be credited to the Loan Repayment Reserve Account.

3.08. ASSETS HELD IN TRUST.

The assets in each of the accounts created under this Loan Agreement shall be held in trust for the purposes provided herein and used only for the purposes and in the manner prescribed in this Agreement; and, pending such use, said assets shall be subject to a lien and charge in favor of the Department.

ARTICLE IV - PROJECT INFORMATION

4.01. PROJECT CHANGES.

Project changes prior to bid opening shall be made by addendum to plans and specifications. Changes after bid opening shall be made by change order. The Local Government shall submit all addenda and all change orders to the Department. Any change order which increases the contract amount by more than one hundred thousand dollars (\$100,000) or which alters the approved Project scope or which involves a procurement method that is not consistent with the approved method or which involves deletion or substantive modification of any requirement of Chapter 62-503, Florida Administrative Code, requires an eligibility determination by the Department.

4.02. TITLE TO PROJECT SITE.

The Local Government shall have an interest in real property sufficient for the construction and location of the Project free and clear of liens and encumbrances which would impair the usefulness of such sites for the intended use. [* If applicable.] The Authorized Representative shall submit a clear site title certification by the date set forth in Section 10.07 of this Agreement.

4.03. PERMITS AND APPROVALS.

The Local Government shall have obtained, prior to the Department's authorization to award construction contracts, all permits and approvals required for construction of the Project or portion of the Project funded under this Agreement.

4.04. ENGINEERING SERVICES.

A professional engineer, registered in the State of Florida, shall be employed by, or under contract with, the Local Government to oversee construction.

4.05. PROHIBITION AGAINST ENCUMBRANCES.

The Local Government is prohibited from selling, leasing, or disposing of any part of the Water or Sewer System which would materially reduce operational integrity or Gross Revenues so long as this Agreement, including any amendment thereto, is in effect unless the written consent of the Department is first secured.

4.06. COMPLETION MONEYS.

In addition to the proceeds of this Loan, the Local Government covenants that it has obtained, or will obtain, sufficient moneys from other sources to complete construction and place the Project in operation on, or prior to, the date specified in Article X. Failure of the Department to approve additional financing shall not constitute a waiver of the Local Government's covenants to complete and place the Project in operation.

4.07. CLOSE-OUT.

The Department shall conduct a final inspection of the Project and Project records. Following the inspection, deadlines for submitting additional disbursement requests, if any, shall be established, along with deadlines for uncompleted Loan requirements, if any. Deadlines shall be incorporated into the Loan Agreement by amendment. The Loan principal shall be reduced by any excess over the amount required to pay all approved costs. As a result of such adjustment, the Semiannual Loan Payment shall be reduced accordingly, as addressed in Section 10.05.

4.08. LOAN DISBURSEMENTS.

Disbursements shall be made only by the State Comptroller and only when the requests for such disbursements are accompanied by a Department certification that such withdrawals are proper expenditures. Disbursements shall be made directly to the Local Government for administrative and engineering allowances, reimbursement of the incurred construction costs and related services, and establishing a Loan Repayment Reserve Account. Disbursement of the allowances shall be made upon the Department's receipt of a disbursement request form. Disbursements for materials, labor, or services shall be made upon receipt of the following:

(1) A completed disbursement request form signed by the Authorized Representative. Such requests must be accompanied by sufficiently itemized summaries of the materials, labor, or services to identify the nature of the work performed; the cost or charges for such work; and the person providing the service or performing the work.

(2) A certification signed by the Authorized Representative as to the current estimated costs of the Project; that the materials, labor, or services represented by the invoice have been satisfactorily purchased, performed, or received and applied to the project; that all funds received to date have been applied toward completing the Project; and that under the terms and provisions of the contracts, the Local Government is required to make such payments.

(3) A certification by the engineer responsible for overseeing construction stating that equipment, materials, labor and services represented by the construction invoices have been satisfactorily purchased, or received, and applied to the Project in accordance with construction contract documents; stating that payment is in accordance with construction contract provisions; stating that construction, up to the point of the requisition, is in compliance with the contract documents; and identifying all additions or deletions to the Project which have altered the Project's performance standards, scope, or purpose since the issue of the Department construction permit.

(4) Such other certificates or documents by engineers, attorneys, accountants, contractors, or suppliers as may reasonably be required by the Department.

ARTICLE V - RATES AND USE OF THE WATER AND SEWER SYSTEMS

5.01. RATE COVERAGE.

The Local Government shall maintain rates and charges for the services furnished by the Water and Sewer Systems which [* Include as applicable -- together with impact fees, connection fees, and Special Assessments] will be sufficient to provide, in each Fiscal Year, Pledged Revenues equal to or exceeding (*) 1.15 times the sum of the Semiannual Loan Payments due in such Fiscal Year. In addition, the Local Government shall satisfy the coverage requirements of all senior and parity debt obligations.

5.02. NO FREE SERVICE.

The Local Government shall not permit connections to, or furnish any services afforded by, the Water or Sewer System without making a charge therefor based on the Local Government's uniform schedule of rates, fees, and charges.

5.03. MANDATORY CONNECTIONS.

The Local Government shall adopt, as necessary, and enforce requirements, consistent with applicable laws, for the owner, tenant or occupant of each building located on a lot or parcel of land which is served, or may reasonably be served, by the Sewer System to connect such building to the Sewer System.

5.04. NO COMPETING SERVICE.

The Local Government shall not allow any person to provide any services which would compete with the Water or Sewer System so as to adversely affect Gross Revenues.

5.05. MAINTENANCE OF THE WATER AND SEWER SYSTEMS.

The Local Government shall operate and maintain the Water and Sewer Systems in a proper, sound and economical manner and shall make all necessary repairs, renewals and replacements.

5.06. ADDITIONS AND MODIFICATIONS.

The Local Government may make any additions, modifications or improvements to the Water and Sewer Systems which it deems desirable and which do not materially reduce the operational integrity of any part of the Water or Sewer System. All such renewals, replacements, additions, modifications and improvements shall become part of the Water and Sewer Systems.

5.07. COLLECTION OF REVENUES.

The Local Government shall use its best efforts to collect all rates, fees and other charges due to it. The Local Government shall establish liens on premises served by the Water or Sewer System for the amount of all delinquent rates, fees and other charges where such action is permitted by law. The Local Government shall, to the full extent permitted by law, cause to discontinue the services of the Water and Sewer Systems and use its best efforts to shut off water service furnished to persons who are delinquent beyond customary grace periods in the payment of Water and Sewer System rates, fees and other charges.

ARTICLE VI - DEFAULTS AND REMEDIES

6.01. EVENTS OF DEFAULT.

Each of the following events is hereby declared an event of default:

(1) Failure to fund the Loan Repayment Reserve Account or to make any Monthly Loan Deposit or to make any installment of the Semiannual Loan Payment when it is due and such failure shall continue for a period of 30 days.

(2) Except as provided in Subsections 6.01(1) and 6.01(7), failure to comply with the provisions of this Agreement or failure in the performance or observance of any of the covenants or actions required by this Agreement and such failure shall continue for a period of 60 days after written notice thereof to the Local Government by the Department.

(3) Any warranty, representation or other statement by, or on behalf of, the Local Government contained in this Agreement or in any information furnished in compliance with, or in reference to, this Agreement, which is false or misleading.

(4) An order or decree entered, with the acquiescence of the Local Government, appointing a receiver of any part of the Water or Sewer System or Gross Revenues thereof; or if such order or decree, having been entered without the consent or acquiescence of the Local Government, shall not be vacated or discharged or stayed on appeal within 60 days after the entry thereof.

(5) Any proceeding instituted, with the acquiescence of the Local Government, for the purpose of effecting a composition between the Local Government and its creditors or for the purpose of adjusting the claims of such creditors, pursuant to any federal or state statute now or hereafter enacted, if the claims of such creditors are payable from Gross Revenues of the Water or Sewer System.

(6) Any bankruptcy, insolvency or other similar proceeding instituted by, or against, the Local Government under federal or state bankruptcy or insolvency law now or hereafter in effect and, if instituted against the Local Government, is not dismissed within 60 days after filing.

(7) Failure of the Local Government to give immediate written notice of default to the Department and such failure shall continue for a period of 30 days.

6.02. REMEDIES.

Upon any event of default and subject to the rights of others having prior liens on the Pledged Revenues, the Department may enforce its rights by any of the following remedies:

(1) By mandamus or other proceeding at law or in equity, cause to establish rates and collect fees and charges for use of the Water and Sewer Systems, and to require the Local Government to fulfill this Agreement.

(2) By action or suit in equity, require the Local Government to account for all moneys received from the Department or from the ownership of the Water and Sewer Systems and to account for the receipt, use, application, or disposition of the Pledged Revenues.

(3) By action or suit in equity, enjoin any acts or things which may be unlawful or in violation of the rights of the Department.

(4) By applying to a court of competent jurisdiction, cause to appoint a receiver to manage the Water and Sewer Systems, establish and collect fees and charges, and apply the revenues to the reduction of the obligations under this Agreement.

(5) By certifying to the Auditor General and the Comptroller delinquency on loan repayments, the Department may intercept the delinquent amount plus a penalty from any unobligated funds due to the Local Government under any revenue or tax sharing fund established by the State, except as otherwise provided by the State Constitution. The Department may impose a penalty in an amount not to exceed an interest rate of 18 percent per annum on the amount due in addition to charging the cost to handle and process the debt. Penalty interest shall accrue on any amount due and payable beginning on the 30th day following the date upon which payment is due.

(6) By notifying financial market credit rating agencies and potential creditors.

(7) By suing for payment of amounts due, or becoming due, with interest on overdue payments together with all costs of collection, including attorneys' fees.

(8) By accelerating the repayment schedule or increasing the interest rate on the unpaid principal of the Loan to as much as 3.333 times the Loan interest rate for a default under Subsection 6.01(1).

6.03. DELAY AND WAIVER.

No delay or omission by the Department to exercise any right or power accruing upon event of default shall impair any such right or power or shall be construed to be a waiver of any such default or acquiescence therein, and every such right and power may be exercised as often as may be deemed expedient. No waiver or any default under this Agreement shall extend to or affect any subsequent event of default, whether of the same or different provision of this Agreement, or shall impair consequent rights or remedies.

ARTICLE VII - THE PLEDGED REVENUES

7.01. SUPERIORITY OF THE PLEDGE TO THE DEPARTMENT.

From and after the effective date of this Agreement, the Department shall have a lien on the Pledged Revenues prior and superior to any other lien, pledge or assignment with the following exception. All obligations of the Local Government under this Agreement shall be junior, inferior, and subordinate in all respects in right of payment and security to [* If applicable] the Senior Revenue Obligations defined in Section 1.01 of this Agreement and to any additional senior obligations issued with the Department's consent pursuant to Section 7.02. Any of the Pledged Revenues may be released from the lien on such Pledged Revenues in favor of the Department if the Department makes a determination, based upon facts deemed sufficient by the Department, that the remaining Pledged Revenues will, in each Fiscal Year, equal or exceed (*) 1.15 times the debt service coming due in each Fiscal Year under the terms of this Agreement.

7.02. ADDITIONAL DEBT OBLIGATIONS.

The Local Government may issue additional debt obligations on a parity with, or senior to, the lien of the Department on the Pledged Revenues provided the Department's written consent is obtained. Such consent shall be granted if the Local Government demonstrates at the time of such issuance that the Pledged Revenues, which may take into account reasonable projections of growth of the Water and Sewer Systems and revenue increases, plus revenues to be pledged to the additional proposed debt obligations will, during the period of time Semiannual Loan Payments are to be made under this Agreement, equal or exceed (*) 1.15 times the annual combined debt service requirements of this Agreement and the obligations proposed to be issued by the Local Government and will satisfy the coverage requirements of all other debt obligations secured by the Pledged Revenues. [* If applicable] However, no such consent is required with respect to issuance of Senior Revenue Obligations as defined in Section 1.01.

ARTICLE VIII - GENERAL PROVISIONS

8.01. DISCHARGE OF OBLIGATIONS.

All payments required to be made under this Agreement shall be cumulative and any deficiencies in any Fiscal Year shall be added to the payments due in the succeeding year and all years thereafter until fully paid. Payments shall continue to be secured by this Agreement until all of the payments required shall be fully paid to the Department. If at any time the Local Government shall have paid, or shall have made provision for the timely payment of, the entire principal amount of the Loan, Loan Service Fee, related interest and Grant Allocation Assessment, the pledge of, and lien on, the Pledged Revenues to the Department shall be no longer in effect. Deposit of sufficient cash, securities, or investments, authorized by law, from time to time, may be made to effect defeasance of this Loan. However, the deposit shall be made in irrevocable trust with a banking institution or trust company for the sole benefit of the Department. There shall be no penalty imposed by the Department for early retirement of this Loan.

8.02. PROJECT RECORDS AND STATEMENTS.

Books, records, reports, engineering documents, contract documents, and papers shall be available to the authorized representatives of the Department and the U.S. Environmental Protection Agency's Inspector General for inspection at any reasonable time after the Local Government has received a disbursement and before three (3) years have elapsed after the Department's final Project disbursement to the Local Government.

8.03. ACCESS TO PROJECT SITE.

The Local Government shall provide access to Project sites and administrative offices to authorized representatives of the Department at any reasonable time. The Local Government shall cause its engineers and contractors to cooperate during Project inspections, including making available working copies of plans and specifications and supplementary materials.

8.04. ASSIGNMENT OF RIGHTS UNDER AGREEMENT.

The Department may assign any part of its rights under this Agreement after notification to the Local Government. The Local Government shall not assign rights created by this Agreement without the written consent of the Department.

8.05. AMENDMENT OF AGREEMENT.

This Agreement may be amended in writing, except that no amendment shall be permitted which is inconsistent with statutes, rules, regulations, executive orders, or written agreements between the Department and the U.S. Environmental Protection Agency. This Agreement may be amended after all construction contracts are executed to re-establish the Project cost, Loan amount, Project schedule, and Semiannual Loan Payment amount. A final amendment establishing the final Project costs shall be completed after the Department's final inspection of the Project records.

8.06. ANNULMENT OF AGREEMENT.

The Department may unilaterally annul this Agreement if the Local Government has not drawn any of the Loan proceeds [*Which ever date is earlier - Option 1] within eighteen months after the effective date of this Agreement [* Option 2] by the date set in Section 10.07 for establishing the Loan Debt Service Account. If the Department unilaterally annuls this Agreement, the Department will provide written notification to the Local Government.

8.07. SEVERABILITY CLAUSE.

If any provision of this Agreement shall be held invalid or unenforceable, the remaining provisions shall be construed and enforced as if such invalid or unenforceable provision had not been contained herein.

ARTICLE IX - CONSTRUCTION CONTRACTS AND INSURANCE

9.01. AUTHORIZATION TO AWARD CONSTRUCTION CONTRACTS.

The following documentation is required to receive the Department's authorization to award construction contracts:

- (1) Proof of advertising.
- (2) Award recommendation, bid proposal, and bid tabulation (certified by the responsible engineer).
- (3) Certified copy of the Local Government's tentative award resolution.

(4) Certification of compliance with the conditions of the Department's approval of competitively or non-competitively negotiated procurement, if applicable.

(5) [If applicable] Certification by the Authorized Representative that affirmative steps were taken to encourage Minority and Women's Business Enterprises participation in Project construction.

(6) [If applicable] Current certifications for Minority and Women's Business Enterprises participating in the contract. If the goals as stated in the plans and specifications are not met, documentation of actions taken shall be submitted.

9.02. SUBMITTAL OF CONSTRUCTION CONTRACT DOCUMENTS.

After the Department's authorization to award construction contracts has been received, the Local Government shall submit contractor insurance certifications and notices to proceed with construction.

9.03. INSURANCE REQUIRED.

The Local Government shall cause the Project, as each part thereof is certified by the engineer responsible for overseeing construction as completed, and the Water and Sewer Systems (hereafter referred to as "Revenue Producing Facilities") to be insured by an insurance company or companies licensed to do business in the State of Florida against such damage and destruction risks as are customary for the operation of Revenue Producing Facilities of like size, type and location to the extent such insurance is obtainable from time to time against any one or more of such risks.

The proceeds of insurance policies received as a result of damage to, or destruction of, the Project or the other Revenue Producing Facilities, shall be used to restore or replace damaged portions of the facilities. If such proceeds are insufficient, the Local Government shall provide additional funds to restore or replace the damaged portions of the facilities. Repair, construction or replacement shall be promptly completed.

ARTICLE X - DETAILS OF FINANCING

10.01. PRINCIPAL AMOUNT OF LOAN.

The estimated principal amount of the Loan is \$_____, which consists of \$_____ to be disbursed to the Local Government and \$_____ of Capitalized Interest.

Capitalized Interest is not disbursed to the Local Government, but is amortized via periodic Loan repayments to the Department as if it were actually disbursed. Capitalized Interest is computed at the combined rate of interest and Grant Allocation Assessment, or rates, set for the Loan. It accrues and is compounded annually from the time when disbursements are made until six months before the first Semiannual Loan Payment is due. Capitalized Interest is estimated prior to establishing the schedule of actual disbursements.

[* If applicable] This project is a Segmented Project. Additional State Revolving Fund financing for the Project is dependent upon the availability of additional funds. The current funding limitations and future funding priority entitlement for Segmented Projects are set forth in the Chapter 62-503 of the Florida Administrative Code.

10.02. LOAN SERVICE FEE.

The Loan Service Fee is \$_____ for the Loan amount authorized to date. The fee represents two percent of the Loan amount excluding the Loan Repayment Reserve and Capitalized Interest amounts; that is, two percent of \$_____. An additional Loan Service Fee amount will be assessed for any additional funding provided by amendment to the Agreement. The fee shall be adjusted downward if adjustment of Project costs results in a Loan decrease, provided that the decrease amendment is executed before the first Semiannual Loan Payment due date.

Interest shall accrue on the Loan Service Fee at the combined rate of interest and Grant Allocation Assessment, or rates, set for the Loan until the fee is paid. Loan Service Fee interest shall be compounded annually from the effective date of the Loan until six months before the first Semiannual Loan Payment is due at which time it is capitalized. The estimated Loan Service Fee capitalized interest is \$_____.

10.03. INTEREST AND GRANT ALLOCATION ASSESSMENT RATES.

The combined rate of interest and Grant Allocation Assessment on the unpaid principal of the Loan amount specified in Section 10.01 is _____ percent per annum. Individually, the interest rate is _____ percent per annum and the Grant Allocation Assessment rate is _____ percent per annum. However, if this Agreement is not executed by the Local Government and returned to the Department before _____ 1, 2002, the interest and Grant Allocation Assessment rates may be adjusted. New interest and Grant Allocation Assessment rates shall be established for any funds provided by amendment to this Agreement.

10.04. LOAN TERM.

The Loan shall be repaid in 40 Semiannual Loan Payments.

10.05. REPAYMENT SCHEDULE.

The Semiannual Loan Payment shall be computed based upon the principal amount of the Loan plus the Loan Service Fee and Loan Service Fee capitalized interest and the principle of level debt service. The Department will deduct the Loan Service Fee and all associated interest from the first two payments. The Semiannual Loan Payment amount may be adjusted, by amendment of this Agreement, based upon revised information. After the final disbursement of Loan proceeds, the Semiannual Loan Payment shall be based upon the actual Project costs and actual dates and amounts of disbursements, taking into consideration any previous payments. Actual Project costs shall be established after the Department's inspection of the completed Project and associated records.

Each Semiannual Loan Payment shall be in the amount of \$_____ until the payment amount is adjusted by amendment. The interest and Grant Allocation Assessment portions of each Semiannual Loan Payment shall be computed on the unpaid balance of the principal amount of the Loan, which principal includes Capitalized Interest. Interest (at the combined rate of Loan interest and Grant Allocation Assessment) also shall be computed on the unpaid balance of the Loan Service Fee and Loan Service Fee capitalized interest. The interest and Grant Allocation Assessment on the unpaid balance shall be computed as of the due date of each Semiannual Loan Payment.

Semiannual Loan Payments shall be received by the Department beginning on _____ and semiannually thereafter on _____ 15 and _____ 15 of each year until all amounts due hereunder have been fully paid. Funds transfer shall be made by electronic means.

The Semiannual Loan Payment amount is based on the total amount owed of \$_____, which consists of the Loan principal plus the Loan Service Fee with its capitalized interest.

10.06. PROJECT COSTS.

The Local Government and the Department acknowledge that the actual Project costs have not been determined as of the effective date of this Agreement. Project cost adjustments may be made as a result of construction bidding or mutually agreed upon Project changes. An additional Loan Repayment Reserve Account deposit will be required for any additional funding provided by amendment to this Agreement. Capitalized Interest will be recalculated based on actual dates and amounts of Loan disbursements. If the Local Government receives other governmental financial assistance for this Project, the costs funded by such other governmental assistance will not be financed by this Loan. The Department shall establish the final Project costs after its final inspection of the Project records. Changes in Project costs may also occur as a result of the Local Government's Project audit or a Department audit. The Local Government agrees to the following estimates of Project costs:

PROJECT COSTS

CATEGORY	COST(\$)	AUTHORIZED LOAN AMOUNT(\$) TO DATE
Administrative Allowance		<i>Line items</i>
Engineering Allowance		<i>may vary</i>
Construction and Demolition		<i>based on</i>
Contingencies		<i>Actual</i>
Technical Services After Bid Opening	0	<i>Disbursements</i>
SUBTOTAL	0	0
Loan Repayment Reserve	0	0
SUBTOTAL (Disbursable Amount)	0	0
Capitalized Interest	0	0
TOTAL (Loan Principal Amount)	0	0

Loan proceeds for deposit in the Loan Repayment Reserve represent three percent of the Loan amount excluding the Capitalized Interest and Loan Repayment Reserve amounts; three percent of \$_____ equals \$_____ for the Loan amount authorized to date.

10.07. SCHEDULE.

The Local Government agrees by execution hereof:

- (1) Initiation of Project construction is scheduled for _____.
- (2) Completion of Project construction is scheduled for _____.
- (3) The Loan Repayment Reserve Account shall be established and \$_____ shall be deposited no later than _____.
- (4) The Loan Debt Service Account shall be established and Monthly Loan Deposits shall begin no later than _____.
- (5) [* Include statement if clear site certification has not been provided] A clear site title certification shall be submitted no later than _____. [* Construction close-out date]

(6) The initial annual certification required under Subsection 2.01(10) of this Agreement shall be due _____. Thereafter the certification shall be submitted no later than September 30 of each year until the final Semiannual Loan Payment is made.

(7) The first Semiannual Loan Payment in the amount of \$ _____ shall be due _____.

[If applicable.] 10.08. SPECIAL CONDITIONS.

(1) [* A condition may concern a pending permit or reuse agreement, an atypical Loan Repayment Reserve, etc.]

(2)

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

ARTICLE XI - EXECUTION OF AGREEMENT

This Loan Agreement WWG120(*2) shall be executed in three or more counterparts, any of which shall be regarded as an original and all of which constitute but one and the same instrument.

IN WITNESS WHEREOF, the Department has caused this Agreement to be executed on its behalf by the Secretary of the Department and the Local Government has caused this Agreement to be executed on its behalf by its Authorized Representative and by its affixed seal. The effective date of this Agreement shall be as set forth below by the Secretary of the Department.

for

(*1)

(*) Mayor

Attest

I attest to the opinion expressed in Section 2.02,
entitled Legal Authorization, and as to form and
legal sufficiency.

(*) City Clerk

(*) City Attorney

SEAL

for

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Secretary

Date

RESOLUTION Number

"A RESOLUTION OF City OF Name, FLORIDA, RELATING TO THE STATE REVOLVING FUND LOAN PROGRAM; MAKING FINDINGS; AUTHORIZING THE LOAN APPLICATION; AUTHORIZING THE LOAN AGREEMENT; ESTABLISHING PLEDGED REVENUES; DESIGNATING AUTHORIZED REPRESENTATIVES; PROVIDING ASSURANCE; PROVIDING FOR CONFLICTS, SEVERABILITY, AND EFFECTIVE DATE."

WHEREAS, Florida Statutes provide for loans to local government agencies to finance the construction of water pollution control facilities; and

WHEREAS, Florida Administrative Code rules require authorization to apply for loans, to establish pledged revenues, to designate an authorized representative; to provide assurances of compliance with loan program requirements; and to enter into a loan agreement; and

WHEREAS, the State Revolving Fund loan priority list designates Project No. CS120Loan Number as eligible for available funding; and

WHEREAS, the City of Name, Florida, intends to enter into a loan agreement with the Department of Environmental Protection under the State Revolving Fund for project financing.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE City OF Name, FLORIDA, AS FOLLOWS:

SECTION I. The foregoing finding are incorporated herein by reference and made a part hereof.

SECTION II. The City of Name, Florida is authorized apply for a loan to finance the Project.

SECTION III. The revenues pledged for the repayment of the loan are net water and sewer utility system revenues after payment of debt service on the City's Series 19Year Water and Sewer System Utility Revenue Bonds and the Series 19Year Water and Sewer System Utility Refunding Revenue Bonds.

SECTION IV. The Mayor is hereby designated as the authorized representative to provide the assurances and commitments required by the loan application.

SECTION V. The Mayor is hereby designated as the authorized representative to execute the loan agreement which will become a binding obligation in accordance with its terms when signed by both parties. The Mayor is authorized to represent the City in carrying out the City's responsibilities under the loan agreement. The Mayor is authorized to delegate responsibility to appropriate City staff to carryout technical, financial, and administrative activities associated with the loan agreement.

SECTION VI. The legal authority for borrowing moneys to construct this Project is , Florida Statutes.

SECTION VII. Conflicts. All resolutions or part of Resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

SECTION VIII. Severability. If any Section or portion of a Section of this Resolution proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other Section or part of this Resolution.

SECTION IX. Effective Date. This Resolution shall become effective immediately upon its passage and adoption.

PASSED and ADOPTED this Day day of Month, A.D.19Year.

ATTEST

APPROVED AS TO FORM AND LEGALITY

City Clerk

City Attorney

Mayor

SAMPLE LEGAL OPINION

Date

Don W. Berryhill, P.E., Chief
Bureau of Water Facilities Funding
2600 Blair Stone Road, M.S. 3505
Tallahassee, Florida 32399-2400

Re: Project Number CS120 _____
Project Name (e.g., Wastewater Treatment Facilities)

Dear Mr. Berryhill:

I am the duly appointed City Attorney for the City of Name. The City proposes to borrow \$Amount from the State Revolving Fund for improvements to the City's wastewater treatment plant. The loan will be secured by the net operating revenues of the City's water and sewer system and the pledged revenues are available to pledge. The City of Name has the legal authority to increase rates to ensure repayment of the loan.

The pledge on revenues is subject to a prior lien with the following issues:

- (1) City of Name, Florida Water and Sewer System Revenue Bonds, Series 19____.
- (2) City of Name, Florida Water and Sewer System Refunding Revenue Bonds, Series 19____.

Sincerely,

Name
Address

Notes: Actual revenues to be pledged to secure loan should be clearly identified.
Please state if there are no prior liens against the pledged revenues.

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 4

- | | |
|---|--|
| <input type="checkbox"/> PUBLIC HEARING
<input checked="" type="checkbox"/> DISCUSSION
<input type="checkbox"/> GENERAL APPROVAL OF ITEM
<input type="checkbox"/> Other: | <input type="checkbox"/> RESOLUTION
<input type="checkbox"/> BID/RFP AWARD
<input type="checkbox"/> CONSENT AGENDA |
|---|--|

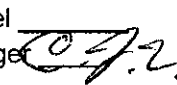

SUBJECT: Video Camera for Collection System

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager

Date: 3-24-05



Originating Department: General Manager	Costs: \$ Funding Source: Mo. Co. FEMA Match Acct. _____	Attachments: Catalog pages of different types of video cameras
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager  <input type="checkbox"/> Finance 	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: The District will need to purchase a video camera sooner rather than later to inspect vacuum pits and collection systems of our current projects.

Resulting Board Action:

☒ Approved

☐ Tabled

☐ Disapproved

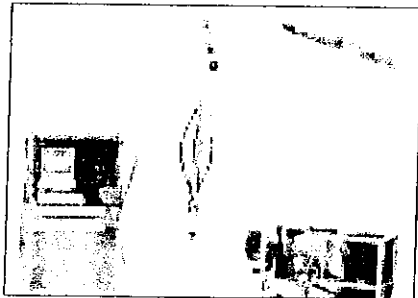
☐ Recommendation Revised

application
notes

Stock #	33102 33103 (p.181)	33100 33101 (p. 181)	69745, 69730 69746, 69731 69749, 69750 (p. 180)	33104 33105 (p. 181)	69743 69744 69751 (p. 180)	33239 33237 (p. 180)	33238 33236 (p. 180)
Pipe Size	1 1/4" - 6"	2" - 12"	2" - 12"	2" - 8"	2" - 10"	2" - 10"	8" - 24"
Camera Head	B & W	B & W	Color	Color	Color	Color	Color
VCR	Yes	Yes	Yes	Yes	No	No	No
Lux Rating	0.5	0.5	0.5	5	0.3	0.3	0.3
Electronic Iris	No	No	No	No	No	No	No
Lighting Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Cable Lengths	200'	325'	400'	325'	400'	200'	200'
Push Cable Storage	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Voltage 115AC/12DC	Dual	Dual	Dual	Dual	Dual	85-264 AC	85-264 AC
Locator & Transmitter	Option	Option	Option	Option	Yes	Option	Option
Picture Inverter	No	No	Yes	No	Yes	No	No
On-Screen Distance Counter	Yes	Yes	Yes	Yes	Yes	Option	Option
Screen Titler	Yes	Yes	Yes	Yes	Yes	No	No

Besides the obvious, price is a major consideration. As technology has improved over the last couple of years, the price of color models has decreased dramatically. With color being more competitively priced, the majority of cameras now sold are color.

Black & white cameras provide a crisper picture and lower lux (the amount of light required to obtain a picture rating). If your application requires determining why and where a line is blocked, a black & white camera can easily accomplish this. When looking for a hairline crack in clay tile, however, color would be the better choice. Color is best for identification and details when you need to know what exactly is in the pipe. For example, is the blockage grease, mud, or something else?

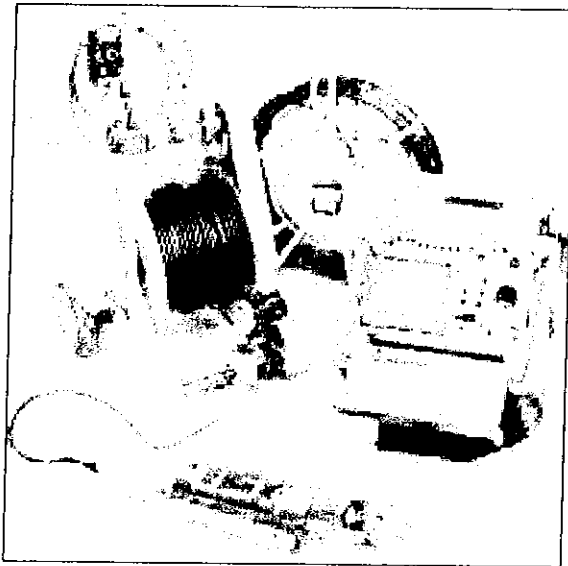


Lateral cameras are for pipe sizes 2-1/2" to 12". These cameras are small enough to negotiate the 90° bends. This camera is limited to 12" pipe because of the amount of light the unit provides. These camera systems use fiberglass push cable or rods. Most systems allow up to 300 feet of cable. This cable is pushed through the pipe manually and is very difficult to push over 300 feet.

Mainline cameras are used in lines 6" or larger. These camera systems are much larger than the lateral cameras. The light source(s) are much brighter, allowing the camera to view the larger diameter pipes. These cameras are skid- or tractor-mounted. Skid cameras usually include 500 to 1,000 feet of coaxial cable. The camera is usually propelled through the pipe with the use of a sewer jetter. Alternatively, the camera can be pulled using a winch and cable. Tractor cameras are remote-controlled, motorized units. These cameras are much more expensive but require little physical effort to operate.



*Our job in Tech Support is
to make your job easier.
Call or fax us for a quick
response.*



- Configure to meet your exact needs!
- Operate mini, mainline and pan-and-tilt cameras
- Available in portable, truck or trailer mounted systems

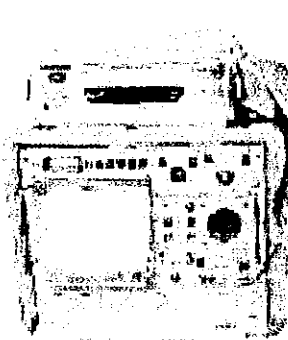
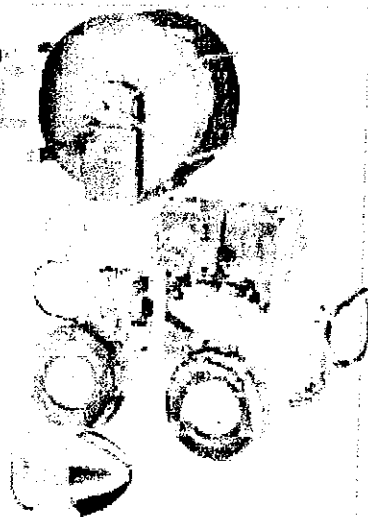
The heart of the ARIES® Universal Saturn® III is a System Control Unit (SCU) that you configure to meet your inspection requirements. Whether configured for push, pull, tractor or skid, the SCU provides the power, controls, diagnostics and data logging to successfully record and document any pipeline inspection task. Cameras and lighting are available for inspecting 3" to 200" diameter lines. Cable lengths are available up to 1000 feet.

Start with a basic unit and then add options as needed to meet ever-increasing inspection challenges. The SCU provides a compact platform for camera operation, lighthouse control, tractor speed/direction, video recording, data capture, and report writing. Transport the Universal Saturn® III and your inspection equipment in a pick-up or van or mount the SCU in a trailer or truck.

Reference # 33225 when you call.

See

for our complete line of
**Pipe Cleaning
Tools and
Accessories**



Shown with optional VD-1000



- Can be upgraded/expanded to main-line system
- Rugged and dependable
- 400' reel capacity for 2" to 15" lines

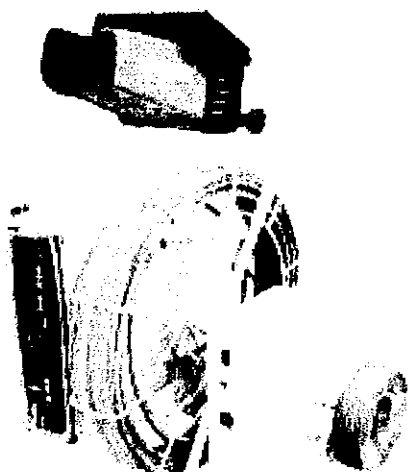
The Aries® Saturn® III Color Mini Camera System allows inspection of 2" to 6" lateral lines. Optional light heads and camera skids enable this system to inspect up to 15" mains. Don't settle for second best due to budget constraints. Start out with this lateral system and add the transporter, report writer, or Pan & Tilt camera in your next budget year. Before long, you'll have a system capable of handling your ever-increasing inspection challenges without having to buy it all at once.

The heart of the Saturn III is the universal System Control Unit (SCU). The SCU can be configured with factory or field installed options to meet each and every pipe inspection challenge. Push, pull, tractor or skid, the universal Saturn III SCU provides the power, controls, system diagnostics, and report writing functions you need to complete the job successfully.

The color camera head with LED lighting features rugged stainless steel construction, and the slim 1.65" diameter is designed for lines as small as 2" (no bends) or 3" lines with elbows. The flexible spring attachment provides camera maneuverability around pipe elbows. The reel basket has a 400' capacity and adjustable drag brake. The slim, wheeled reel assembly easily maneuvers through doors and stairways providing easy access to most locations.

The basic unit includes 200' of push rods mounted in an open basket reel with a mechanical footage counter, mini color camera, the universal System Control Unit (SCU), a commercial grade VCR and 3" to 6" camera skids. The optional VD-1000 footage module and keyboard allows the user to type text onto the video, run reports and view onscreen footage. The Saturn III lateral system comes with a one-year manufacturer's warranty. Please call to discuss the many available options.

DESCRIPTION	CABLE LENGTH	STOCK #	EACH
Saturn III Lateral Camera	200'	33226	Call
Saturn III Lateral Camera	300'	33227	Call
Saturn III Lateral Camera	400'	33228	Call
VD-1000 Footage Module & Keyboard		33229	Call



- Perfect for utility, contractor, and industrial applications
- Extremely portable
- Anti-glare LCD monitor

The ARIES® SEEKER portable video inspection system brings you the best in compact, lightweight, portable inspection technology. The entire system is water-resistant with no external wiring and is self-contained in one easily transported unit weighing as little as 40 pounds. You can now have a low-cost portable system and get the high quality and reliability you've come to expect from ARIES equipment.

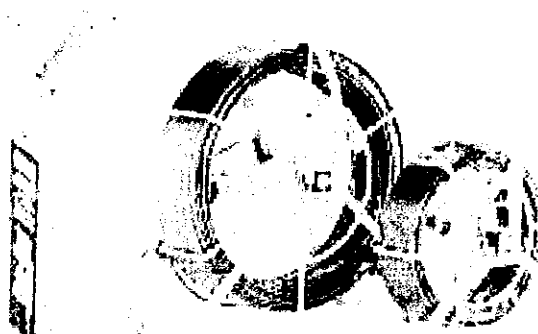
The SEEKER system is available with a 100' or 200' push rod cable. All circuitry is housed in a rugged, sealed, polycarbonate enclosure. The enclosure has built-in connections for VCR, video printer or video glasses. On top of the reel is a bright, active matrix 6.4" LCD anti-glare monitor. This tiltable monitor has adjustable color, brightness and contrast controls as well as a fold-up sun shield that also protects the LCD during transport. A universal AC power input of 85 - 264 VAC at 50/60 Hz is standard.

The standard 1.4" diameter camera accesses 2" to 10" diameter pipes. The camera is equipped with low-power, long-life LED lightheads and a high sensitivity (0.3LUX) video chip that produces high-resolution (570 lines) pictures.

Other options include a self-leveling camera head, VCR, reel-operated electronic footage counter and overlay (no footage head is required), and internal battery power with auto charge during AC operation and auto AC/battery switchover.

SYSTEM DESCRIPTION	STOCK #	EACH
100' Push Rod Reel and Camera for 2" - 10" Pipes	33239	\$ 5,332.00
200' Push Rod Reel and Camera for 2" - 10" Pipes	33237	5,798.55
Optional Footage Counter	33234	466.55
Optional 5-hour Internal Battery	33233	466.55
Optional Self-Leveling Camera Head	33231	480.20
Optional VCR	33232	388.22

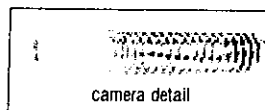
To receive more complete specifications on the Aries Seeker, visit our website or call our Fast-Facts system at 800-469-4911 and request document #332392.



- On-screen distance counter
- Built-in titler
- Picture inverter

The Gen-Eye 3™ camera system combines quality and toughness. The camera head has a two-year warranty along with a one-year warranty on the monitor. The camera head is constructed of stainless steel and features a sapphire lens. The camera's 28 ultra bright LEDs provide ample lighting for 2" - 12" pipes. The camera measures 1.60" x 1.50" allowing it to slip into 2" runs of pipe and make the 90 degree elbows in 3" pipe. The push rods are made of Kevlar and a tough fiberglass core wrapped in a plastic sheath. The reel holds up to 400 ft of push rods and is constructed of powder-coated steel. The reel's 7" wheels along with its convenient handle aid in transportation. The command module has a 9" color TV/VCR packed in a fully padded, waterproof, fan-cooled, high-impact plastic carrying case.

The locator/transmitter eliminates all the guesswork. The camera has a built-in antenna, which accepts the signal from the transmitter. The locator then picks up this signal. The unit has push button depth, which will pinpoint exactly where the camera head is in the pipe. The additional cost of this locator/transmitter option will surely pay for itself the first time you use it. No more using a backhoe and unnecessarily digging up real estate.



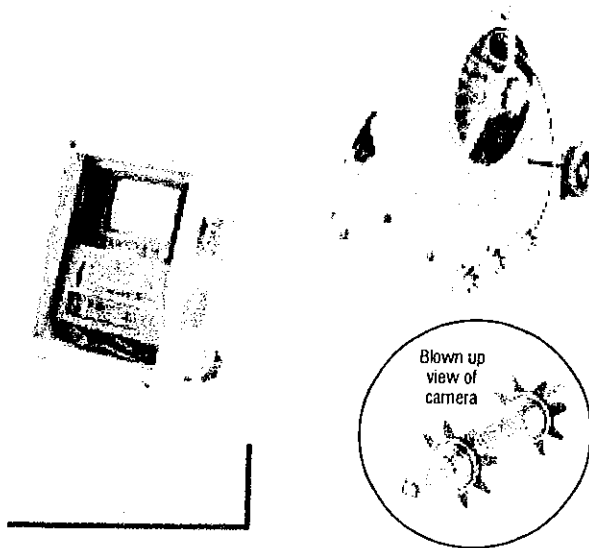
Black & White Camera Systems	CABLE LENGTH	STOCK #	EACH
Gen-Eye 3	200'	69745	\$ 6,052.42
Gen-Eye 3	300'	69746	6,835.05
Gen-Eye 3	400'	69749	7,228.28
Gen-Eye 3 with Locator	200'	69730	7,259.05
Gen-Eye 3 with Locator	300'	69731	8,040.72
Gen-Eye 3 with Locator	400'	69751	8,434.92

Color Camera Systems	CABLE LENGTH	STOCK #	EACH
Gen-Eye 3	200'	69743	\$ 7,293.67
Gen-Eye 3	300'	69744	8,076.30
Gen-Eye 3	400'	69750	8,470.50
Gen-Eye 3 with Locator	200'	69741	8,489.34
Gen-Eye 3 with Locator	300'	69742	9,282.93
Gen-Eye 3 with Locator	400'	69752	9,676.17

Accessories

4", 6" & 8" Skids	69734	\$ 242.29
6" Skids	69732	121.15
8" Skids	69733	131.24

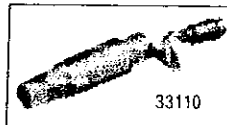
RIDGID



- Ridgid quality & durability
- Digital footage counter
- New built-in transmitter

The Ridgid SeeSnake™ & Mini-SeeSnake™ provide great performance and dependability. It's one of the most rugged systems on the market. The Mini-Seesnake will allow you to view 1" to 6" pipe. Larger lines 2" to 12" will be viewed easily by the Seesnake.

Whether it is black & white or color, Ridgid has the system for you. Both systems utilize Ridgid's exclusive "Pipe View" technology which uses a camera head designed to focus inside pipe. The system features a fully adjustable LED lighting system, which provides more light than other cameras. Surveillance grade monitor system provides the sharpest detail and allows the most accurate diagnosis of a problem. Quality components like hardened stainless steel cameras, spring assemblies, and scratchproof crystal lenses ensure durability. All cameras and push cables are pressure tested and guaranteed waterproof to 330 feet.



A cable counter is standard equipment on all SeeSnake models. It permits the distance, date and time to be displayed on the screen at the touch of a button.

The Video System Manager (VSM) combines a 9" high-resolution monitor with a commercial grade VCR. The system's "hands-free" audio recording feature allows for quick and easy recording of the problem.

Black & White Camera Systems

	STOCK #	EACH
200' SeeSnake with VSM-A EIA	33100	\$ 7,205.97
325' SeeSnake with VSM-A EIA	33101	7,845.67
100' Mini-SeeSnake with VSM-A EIA	33102	6,156.73
200' Mini-SeeSnake with VSM-A EIA	33103	6,856.42

Color Camera Systems

200' SeeSnake with Monitor & VCR	33104	\$ 7,579.64
325' SeeSnake with Monitor & VCR	33105	8,218.35

Locators & Transmitters

KD-4510 Locator	33106	\$ 668.17
KD-4550 Carrying Case	33115	115.93
Remote Transmitter	33110	229.59
3' Centering Guides (20 Pack)	33111	69.93
6' Centering Guides (20 Pack)	33112	69.93
Centering Guides for Mini-SeeSnake (20 Pack)	33113	69.93

RIDGID



- Map function
- Advanced six-antenna technology
- Locates 24 frequencies

The NaviTrack® locator takes locating to the next level. This state-of-the art unit has the most features on the market, providing accurate locates within minutes. NaviTrack's exclusive map function provides a map of the energized line, making locating buried utilities simple. It is like being able to see the line in the ground. The continuous depth feature eliminates locating errors, due to signal bleed over.

NaviTrack makes sonde locating fast and accurate with its advanced six-antenna technology. Conventional 2-3 antenna locators may indicate "False Peaks" away from the sonde or no signal (Null) when the locator is directly over the sonde. NaviTrack technology, eliminates these false signals and allows the user to perform locates by simply maximizing the digital signal reading.

The NaviTrack will locate 24 preprogrammed frequencies ranging from 512 Hz to 480 kHz, making your old transmitter compatible with the NaviTrack receiver. Simply scroll through the frequency search, in manufacturer order, until you find the brand of transmitter. If you don't have a transmitter, you could purchase the Ridgid KD-4000. This transmitter offers two output frequencies, 512 Hz (low frequency) and a 51 kHz (high frequency).

The unit comes complete with the NaviTrack receiver, rugged carrying case, two sets of marker chips, batteries and a quick start guide. This unit is covered under Ridgid's Full Lifetime Warranty against material defects and workmanship.

Receiver

Frequencies:	24 (ranges from 512 Hz to 480 kHz)
Depth reading:	continuous
Left/right guidance:	audible and visual
Display backlight:	yes
Battery type:	4 "C" cell alkaline
Weight:	5.85 lbs

Transmitter

Output frequencies:	2 (512 Hz & 51 kHz)
Power output:	100 mW
Power settings:	one
Battery type:	8 "D" cell alkaline
Battery life:	120 hours
Operating temperature:	-4°F to 133°F (-20°C to 56°C)
Weight:	6.2 lbs

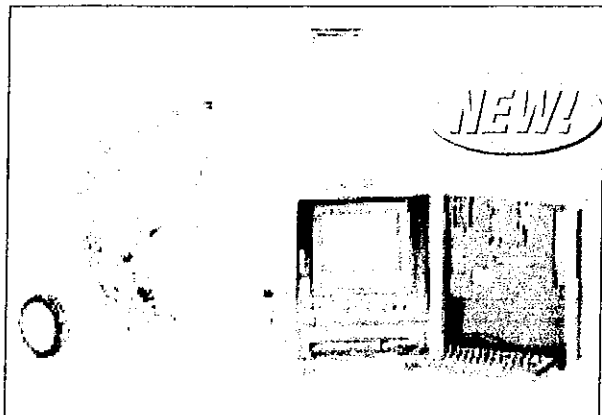
DESCRIPTION	STOCK #	EACH
NaviTrack	33098	\$ 2,120.75
KD-4000 Transmitter	33099	756.91
Replacement Batteries, D, 8/pk	43655	6.08
Replacement Batteries, C, 6/pk	43650	5.77

Fax 1-847-689-3030

Phone 1-800-548-1234

www.usabluebook.com

181



- Optional self-leveling head
- Built-in 512Hz transmitter
- 4 & 6" trap skids included

The Speedway® SPEEDY CAM is the best choice for your video inspection equipment. The camera is 1.5" in diameter and 1.7" in length, allowing the camera to negotiate 2" pipes. Features like the durable stainless steel housing, scratch-resistant sapphire lens, and a shock- and water-resistant module enhance the camera's performance. The monitor/control unit includes a tilted, self-contained 9" color monitor with a separate 4-head VCR. This allows the VCR to be replaced in the field. An on-screen distance counter with time and date stamp, along with a text-writing keyboard, are housed along with the monitor and VCR in a hard-cover padded carrying case. Video systems include push rods on an open reel, camera head with built-in 512HZ transmitter, 4" & 6" trap skids, command module with color monitor/VCR, padded case and power inverter.



Camera Head

The optional self-leveling camera head is only available in color. This head is slightly larger than the standard head, at 1.6" in diameter and 2.6" in length. This camera floats in the housing so it always gives you the correct view—no more upside-down video.

DESCRIPTION	STOCK#	EACH
200' Black & White System	32861	\$ 5,495.00
300' Black & White System	32862	5,895.00
200' Color System	32863	6,495.00
300' Color System	32864	6,995.00
Optional Self-Leveling Camera Head	32865	795.00

Natural Systems for Wastewater Treatment – MOP FD-16

Water Environment Federation

- New 2nd edition
- Check out the considerable savings over conventional treatment

This text describes natural aquatic and soil-based wastewater treatment methods that are particularly well-suited for small- to medium-size communities. Most of the alternative systems described offer substantial savings in operation and maintenance costs as compared to conventional treatment processes that produce similar effluent quality. 285 pgs., 2001.

Natural Systems – English Edition	71158	\$ 92.00
Natural Systems – Spanish Edition	71159	65.00

Introduction to Small Wastewater Systems

Skeet Arasmith and Holly Ploetz

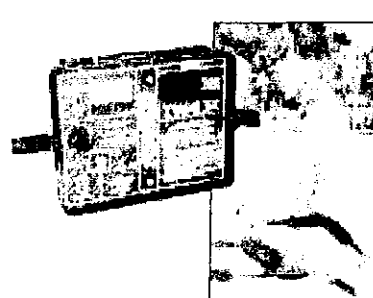
- Designed for wastewater systems serving a population of less than 3000
- Excellent material for certification preparation

Owners and operators of small wastewater systems will appreciate this manual that was written specifically with you in mind. It provides a basic understanding of the principals and practices involved in collecting, treatment, and disposing of wastewater and solids in a safe and effective manner. Subjects covered include characteristics of wastewater, collection systems, treatment, sludge treatment and disposal, disinfection, and more. Spiral binding, over 350 illustrations, 518 pgs., 2nd edition; 1998.

Introduction to Small WW Systems	68543	\$ 66.00
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See our

for our big selection of
**Line Tracers,
Sonde Locators &
Metal Detectors**



Memo

To: KLWTD Board Members
From: Carol Simpkins, CMC
CC: File
Date: March 30, 2005
Re: TAB 1

Please see attached information on leasing a Truck. This information supplements TAB 1.

March 28, 2005

Carol Simpkins, Board Clerk
Carol Simpkins [cjsimpkins@bellsouth.net]
Keweenaw Wastewater Treatment District

Mr. Carol:

Albers Motor Leasing is pleased to make the following lease proposal per your specification request. Pricing is based on the 2005 Florida Association of Counties Bid Award and is subject to any changes if the 2006 contract changes. Pricing is also based on the interest rate at the time of quote and is subject to any changes in the Prime Rate. Lead time to order these vehicles is approximately 7-8 weeks from receipt of purchase order depending on the manufacturer. The 2005 build out is very close and more than likely 2006 models will be ordered depending on your timing. This quote is for budgeting purposes.

**2005-Chevrolet Silverado 1500, Work Truck, AC, AT, V-6 Engine,
With requested Options per 2005 Florida Assoc. of Counties Bid Award**

36-Month Closed-End Lease

Mileage Allowance	1,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$299.00 including tags & renewals

Mileage Allowance	10,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$335.00 including tags & renewals

Mileage Allowance	20,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$375.00 including tags & renewals

60-Month Closed-End Lease

Mileage Allowance	1,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$280.00 including tags & renewals

Mileage Allowance	10,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$310.00 including tags & renewals

Mileage Allowance	20,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$340.00 including tags & renewals

**2005-Ford F150, Work Truck, AC, AT, V-6 Engine,
With requested Options per 2005 Florida Sheriff's Bid**

36-Month Closed-End Lease

Mileage Allowance	1,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$290.00 including tags & renewals

Mileage Allowance	10,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$325.00 including tags & renewals

Mileage Allowance	20,000 miles per year
Over mileage	\$0.12 cents per mile
36 months @	\$365.00 including tags & renewals

60-Month Closed-End Lease

Mileage Allowance	1,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$275.00 including tags & renewals

Mileage Allowance	10,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$300.00 including tags & renewals

Mileage Allowance	20,000 miles per year
Over mileage	\$0.12 cents per mile
60 months @	\$330.00 including tags & renewals

At the end of the closed-end lease, you will have the following options:

- Replace the vehicle with a new leased vehicle of your choice.
- Extend the existing lease
- Return the vehicle
- Purchase the vehicle from Mears at current wholesale market value

Please contact me with any questions.


Sincerely,

Tom Endre
Account Executive
tendre@mearsleasing.com
407-298-2982, Ext. 333

P.O. Box 491 Key Largo, FL 33037
Phone: 305-852-2477
Fax: 305-852-2477

Key Largo
Waste Water
Treatment District

Memo

To: KLWTD Board
From: Carol Simpkins, CMC
CC: File
Date: March 30, 2005
Re: TAB 1


Please see attached information. This information replaces the TAB 2 information in your package.

Key Largo Wastewater Treatment District



System Development Charge and Rate Workshop

March 30, 2005

Presented by Public Resources Management Group, Inc.





Presentation Outline

- **Description of various customer costs**
- **System Development Charge and Assessment Discussion**
- **Financial Modeling and Monthly User Rates**



Customer Costs

Lateral (Customer connection)

- One-time cost paid by customer to contractor at time of connection

System Development Charge

- Charge paid by customer to District for wastewater plant, transmission, and collection system capital costs

Monthly Charges

- Charge paid by customer to District for monthly operating and maintenance costs associated with wastewater service

\$\$



Lateral (Customer Connection)

- **One-time cost paid by customer to contractor at time of connection**
- **Customer hires contractor for connection to District's collection system and decommission onsite septic system**
- **Cost will vary among customers**



System Development Charges

- **Paid by customer to District for capital (construction-related) costs**
- **Commonly referred to as:**
 - **Impact Fee, Capacity Fee, Connection Fee, Capital Recovery Fee, etc.**
- **Payment methods (KLWTD policy options):**
 - **One-time payment**
 - **Payable by customer prior to connection; or**
 - **Multi-year payments**
 - **Non-Ad Valorem assessment on annual property tax bill**
 - **Example: annual payment over 20 or 30 years**



Monthly Wastewater Rates

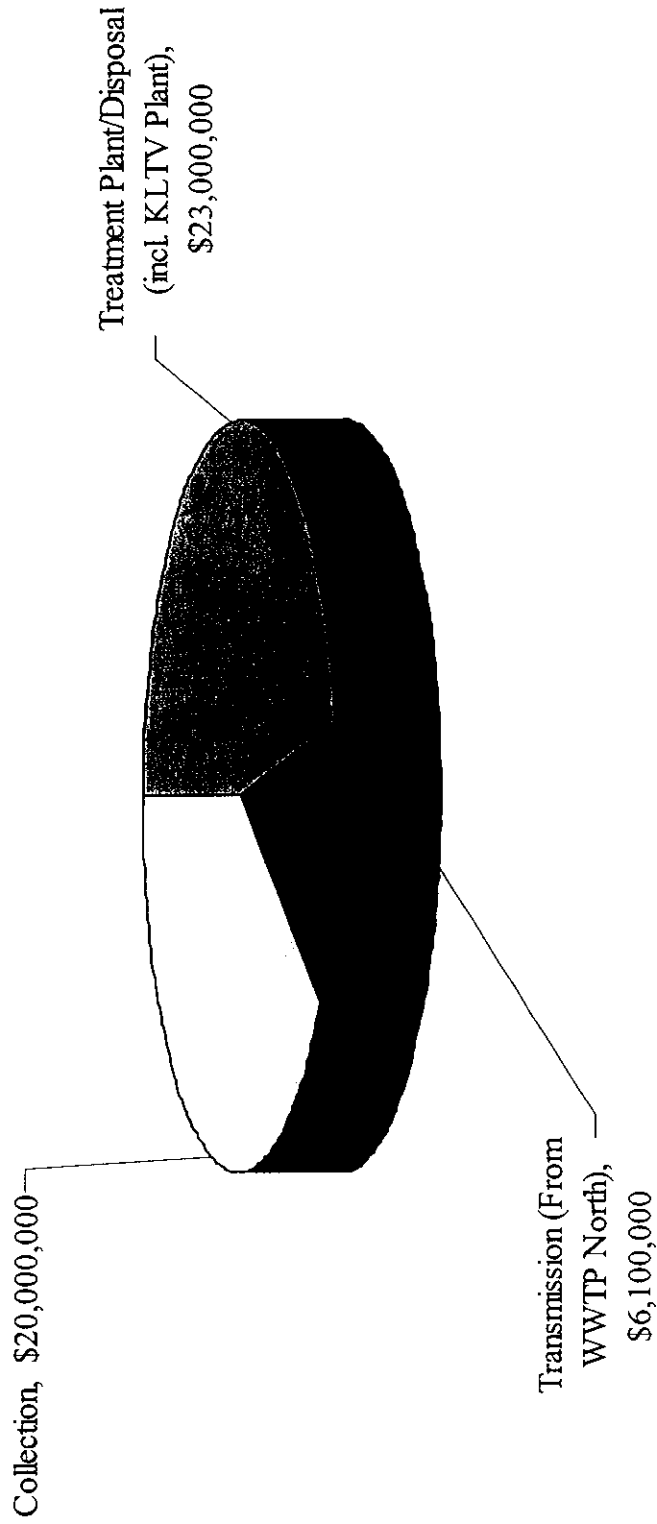
- Billed monthly to customer for operating/maintenance and other ongoing utility costs
- Billing begins at time of service availability
- Residential rate structure options
 - Flat rate (all customers pay same monthly amount)
 - Base rate + usage charge
 - Monthly bill varies based on monthly water usage level
 - No usage charge past 12,000 gallons per month
- Annual rate index (based on published price index, e.g., Consumer Price Index)



System Development Charge and Assessment Discussion



Wastewater System Capital Costs through Fiscal Year 2009



Estimated Project Costs include KLT V, KLP, Calusa Campground, Sexton Cove/Lake Surprise Systems. Total Cost = \$49.1 million.



Allocation of Treatment/Disposal Capital Costs

- **Treatment Costs = \$23.0 million**
- **Includes interim plant (part of KLTV project)**
- **Plant designed to serve entire Key Largo Wastewater Treatment District service area**
- **Approximately 13,000 EDUs**
- **Average cost per EDU = \$1,700 to \$1,800**



Allocation of Transmission Capital Costs

- **Transmission Costs = \$6.1 million (including \$1.1 million currently under construction)**
- **Cost of transmission from northern end of service area to plant site in middle of service area**
- **Approximately 6,600 EDUs**
- **Average cost per EDU = \$900 to \$1000**

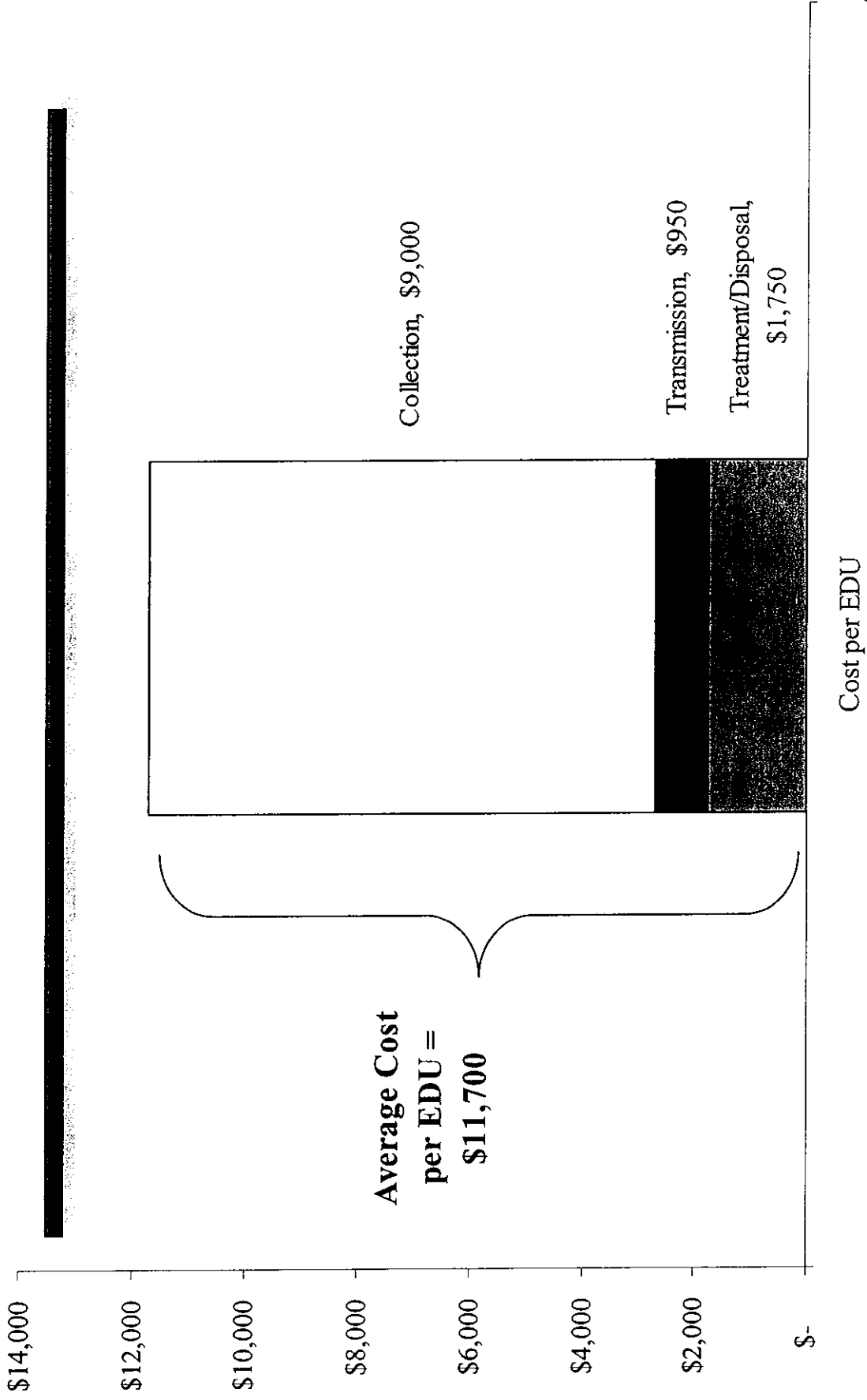


Allocation of Collection Capital Costs

- **Collection costs = \$20.0 million**
- **Cost of collection systems for Key Largo Trailer Village, Key Largo Park, Calusa Campground, Sexton Cove/Lake Surprise projects**
- **Approximately 2,300 EDUs**
- **Average cost per EDU = \$8,500 to \$9,500**



Summary of Capital Costs by Function





Proposed System Development Charges

- **Average cost per EDU = \$11,700**
- **Proposed Residential System Development Charge per EDU = \$4,770**
- **Proposed charge reflects 59% grant funding**
- **Grant funding for identified projects is currently 65% (including County Bonds)**
- **Commercial System Development Charge**
 - **Proposed \$2,600 to \$3,000 per EDU**
- **Annual inflation index**



System Development Charges (Cont'd.)

- System development charge to be assessed over a 20 - 30 year period, beginning October 2005
 - KL Trailer Village, KL Park, Calusa Campground, Sexton Cove, Lake Surprise
 - Customers may choose to pay entire SDC upfront rather than the 20-30 year assessment
 - Annual assessment of \$4,770 system development charge is approximately \$350.00 (assuming 20 year assessment)
 - 4% discount if payment made in November of tax year
 - Discounted annual amount approx. \$336.00 or \$28.00/month
 - Interest rate is linked to District's borrowing cost



System Development Charges (Cont'd.)

- **Determination of SDC for forecast purposes**
 - **EDU = Equivalent Dwelling Unit**
 - **Individually Metered Residential = 1 EDU**
 - **Master-Metered Residential = 1.0 EDU per dwelling unit**
 - **Hotels/Campgrounds/etc. = 1.0 EDU per room/site**
 - **Commercial EDUs based on historical usage levels**
 - **1 EDU represents 167 gallons per day**



Financial Modeling and Monthly User Rates





Financial Model

- **Projection period - Fiscal Year 2005 through 2009**
- **Customer forecast**
 - **Customer connections**
 - **Treatment requirements**
 - **Billing statistics**
 - **Revenue projections**
- **Capital funding**
 - **Capital expenditure schedule**
 - **Capital funding analysis**



Financial Model (cont'd)

- **Operating expenses**
 - Initial plant operations
 - System-wide plant operations
- **Other considerations**
 - MSTU revenues
 - Debt service
 - Adequate reserve funding



Financial Model (cont'd)

- **Determine average rate level to meet revenue requirements**
- **Design of actual rates**
 - **Rates by customer class (residential single-family, residential multi-family, non-residential, etc.)**
 - **Base monthly charge**
 - **Usage charge**
 - **Revenue stability**
 - **Equity among various customer classes and usage levels**



Monthly Rates

- **Monthly rates depend on system development charge option**
- **Higher system development charges = Lower monthly rates**

Residential System Development Charge (per EDU)	Monthly Basis(1) billed annually on tax bill, shown here monthly for comparison purposes	Monthly		Total Monthly Cost
		Wastewater Bill (2)	billed monthly to customer	
1. \$2,700 SDC	\$16.00	\$57.00 *		\$73.00
2. \$4,770 SDC	\$28.00	\$45.00 *		\$73.00

or

(1) Amount reflects 4% discount for paying tax bill in November each year.

(2) Amount reflects estimated average residential bill (base plus usage charge). Amount assumes

MSTU is extended past Fiscal Year 2007.

****Preliminary, Subject to Change***





Estimated Initial Monthly Rates

Monthly Rates for Wastewater Service (1)	Alternative 1	Alternative 2
Residential System Development Charge	\$2,700.00	\$4,770.00
Base Facility Charge (per Account):		
Individually Metered Residential	-to be determined	-to be determined
Multi-Metered Residential (rate per dwelling unit)	--tbd	--tbd
Commercial and All Other Customer Classes (by meter size):		
5/8 and 3/4-Inch Meter	--tbd	--tbd
1-Inch Meter	--tbd	--tbd
1 1/2-Inch Meter	--tbd	--tbd
2-Inch Meter	--tbd	--tbd
3-Inch Meter	--tbd	--tbd
4-Inch Meter	--tbd	--tbd
6-Inch Meter	--tbd	--tbd
Consumption Charge		
(per 1,000 gallons of metered water service):		
Individually Metered Residential Service – maximum monthly use of 12,000 gallons	-to be determined	-to be determined
All Other Classes of Service – All metered Consumption (2)	--tbd	--tbd

(1) Rates effective during Fiscal Year 2005 and Fiscal Year 2006. Such rates are to be indexed annually based on the Consumer Price Index or similar index.

(2) Rates reflect domestic-strength wastewater. Industrial surcharges apply for customers with higher than domestic-strength wastewater.



Conclusions/Recommendations

- **System Development Charges**
 - Residential charge of \$4,770 per EDU
 - Commercial charge between \$2,600 to \$3,000
 - Prior to adoption, final amount may vary from estimate amount due to changes in project costs or EDU tabulation
 - Continue assessment procedure
- **Work with staff on completing financial forecast**
 - Projection of annual revenue requirement
 - Identify average monthly rates
 - Design monthly rates

**KEY LARGO WASTEWATER TREATMENT DISTRICT BOARD OF
COMMISSIONERS SPECIAL CALL MEETING**

AGENDA

Wednesday, March 30, 2005 at 5:00 PM

Key Largo Civic Club, 209 Ocean Bay Drive

Key Largo, FL

Charles Brooks

Gary Bauman

Andrew Tobin

Glenn Patton

Claude Bullock

Chairman

Vice Chairman

Secretary-Treasure

Commissioner

Commissioner

.....
Charles F. Fishburn

Thomas Dillon

Carol Simpkins

General Manager

District Counsel

Board 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 Board Clerk at 305-451-5105 at least 48 hours in advance to request accommodations.

A. CALL TO ORDER

B. PLEDGE OF ALLEGIANCE

C. GENERAL MANAGER'S REPORT

- | | | | |
|----|---|----------|--------------|
| 1. | Purchase of KLWTD Truck | (Action) | TAB 1 |
| 2. | System Development Charges Presentation | | TAB 2 |
| 3. | SRF Funding Presentation | | TAB 3 |
| 4. | Video Camera for Collection System | | TAB 4 |

D. ADJOURNMENT

TAB 1

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. /

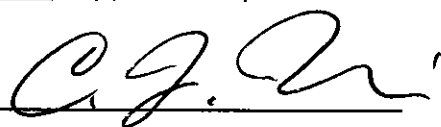
- | | |
|---|--|
| <input type="checkbox"/> PUBLIC HEARING
<input type="checkbox"/> DISCUSSION
<input checked="" type="checkbox"/> GENERAL APPROVAL OF ITEM
<input type="checkbox"/> Other: | <input type="checkbox"/> RESOLUTION
<input type="checkbox"/> BID/RFP AWARD
<input type="checkbox"/> CONSENT AGENDA |
|---|--|

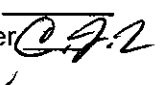

SUBJECT: District Vehicle

RECOMMENDED MOTION/ACTION: Approval to purchase vehicle.

Approved by General Manager

Date: 3-24-05



Originating Department: General Manager	Costs: \$4,859 Funding Source: Mo. Co. FEMA Match Acct. #	Attachments: Information on two trucks Memo
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager  <input checked="" type="checkbox"/> Finance 	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: The District Inspector needs a truck to oversee District construction projects.

Resulting Board Action:

☒ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Memo

To: KLWTD Board
From: Charles F. Fishburn, General Manager
Date: March 30, 2005
Re: District Vehicle

I am proposing to purchase a basic Chevrolet or Ford Truck for use by our inspector for overseeing our construction projects. The truck would be based at our new building and would not be taken home or used for any personal business.

The cost of the truck would be less than \$15,000 and insurance would be less than \$1,100 a year. The mileage would be less than 1,000 miles a month.



**FLORIDA
ASSOCIATION
OF COUNTIES**



**FLORIDA SHERIFFS ASSOCIATION,
FLORIDA ASSOCIATION OF COUNTIES &
FLORIDA FIRE CHIEFS' ASSOCIATION**

**2005 CHEVROLET SILVERADO 1500
Specification #27
(1/2 Ton Pickup Truck, 4 x 2)**

The Chevrolet Silverado 1500 (truck (CC15703) purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and FSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by manufacturer by specification by zone.

ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

While the Florida Sheriffs Association, Florida Association of Counties and Florida Fire Chiefs' Association have attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

14,619.
240.
14859.

with safety
items & work
related.

**LEGEND FOR
DELETE/ADD OPTIONS**

Every line will require a **DOLLAR VALUE**
or one of the following abbreviations
Std. = manufacturer's standard equip.
Incl. = included with base specs.
NC = no additional charge
NA = not applicable to the vehicle
— = option not bid by vendor

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Delete Options	First 3 Zones	Southern
MG5	Provide 5-speed manual transmission with overdrive in lieu of automatic overdrive	\$ 650.00	\$ 750.00
5Z4	Full size spare tire & rim	\$ 75.00	\$ 70.00
C42	Air conditioning	\$ 500.00	\$ 600.00
	Rear seat on extended cab model	N/A	N/A
	AM/FM radio	N/A	NC
	Daytime running lights	N/A	STD
	ABS brakes	N/A	STD

Order Code	Add Options	First 3 Zones	Southern
LR4	Engine: 4.8L V8	\$ 945.00	\$ 945.00
LM7	Engine: 5.3L V8	\$ 1,745.00	\$ 1,745.00
AU3	Power windows/door locks	\$ 900.00	\$ 900.00
K34	<u>Speed control</u>	\$ 240.00	\$ 240.00
	Tilt steering wheel	STD	STD
749	Battery, 650 CCA or greater	\$ 56.00	\$ 56.00
8B0	Dual batteries	\$ 215.00	\$ 215.00
6C7	<u>Passenger dome lamp</u>	\$ 55.00	\$ 95.00
951	Bucket seats in lieu of bench seat	NC	NC
B30	Carpet in lieu of rubber floor covering	\$ 100.00	\$ 975.00
A28	Sliding rear window	\$ 225.00	\$ 175.00
	Standard cab	INCL	INCL
15753	Extended cab model (4 door)	\$ 3,960.00	\$ 4,805.00
15953	Extended cab w/ long bed	\$ 5,555.00	\$ 6,005.00
15743	Crew cab	\$ 9,720.00	\$ 10,360.00
15903	Long bed in lieu of short bed	\$ 100.00	\$ 100.00
BL	Bedliner	\$ 180.00	\$ 212.00
SBL	Spray-on bedliner (Rhino or approved equivalent)	\$ 490.00	\$ 480.00
UBO	AM/FM radio with single CD	\$ 255.00	\$ 255.00
3K	Third key	\$ 38.00	\$ 35.00
	<u>Aluminum tool box</u> <i>request side opening</i>	\$ 375.00	\$ 465.00
RS	Rainshields	\$ 65.00	\$ 67.00
	<u>Deep tinted glass</u>	\$ 107.00	\$ 175.00 ?
	Bug shield	\$ 135.00	\$ 109.00
DF2	Trailer tow mirrors	\$ 70.00	\$ 70.00
V76	Tow hooks	\$ 38.00	N/A
	<u>Heavy duty towing package up to 5000 lbs.</u>	\$ 360.00	\$ 385.00
	with Class III hitch		
	Heavy duty towing package up to 7200 lbs.	\$ 410.00	\$ 595.00
	with appropriate hitch		
	Wrap-around grille guard	\$ 650.00	\$ 980.00
	8000 lb. winch with remote	\$ 1,200.00	\$ 1,750.00

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Add Options (cont'd)	First 3 Zones	Southern
	Class IV hitch & ball	\$ 435.00	\$ 575.00
	7700 lbs. GVWR	N/A	N/A
	Traction control	N/A	N/A
G80	Limited slip differential	\$ 295.00	\$ 295.00
	Side air bags	N/A	N/A
EBC	Electric brake controller	\$ 345.00	\$ 250.00
BUA	Backup alarm		
BUC	Back up camera with 3.5" LCD (rear mounted camera to provide wide angle field of vision at rear of vehicle)	\$ 710.00	\$ 675.00
ISB	Manufacturer's model upgrade pkg. (please specify pkg. bid)	\$ 5,370.00	\$ 5,400.00
	Federal FHL2 headlight flasher	\$ 146.00	\$ 161.00
	<u>Federal FA5 headlight flasher</u>	\$ 146.00	\$ 168.00
	Whelen UHF2150A headlight flasher	\$ 146.00	\$ 157.00
	Whelen UHF2150B headlight flasher	\$ 146.00	\$ 166.00
	Whelen SSF2150 headlight flasher	\$ 146.00	\$ 162.00
	Soundoff Roadrunner headlight flasher w/amp connectors	\$ 135.00	\$ 176.00
	Soundoff Powerpulse headlight flasher w/amp connectors	\$ 156.00	\$ 179.00
	Fiberglass tonneau cover (painted to match)	\$ 1,100.00	\$ 975.00
	Fiberglass cab high topper with front, side and rear windows (painted to match)	\$ 1,200.00	\$ 1,385.00
GS	Grill strobes (Whelen, Federal or approved equivalent)	\$ 375.00	\$ 355.00
LED-GS	LED grill flashing lights (Whelen, Federal or approved equivalent)	\$ 360.00	\$ 399.00
RVS	Rear view mirror strobes (Whelen, Federal or approved equivalent)	\$ 415.00	\$ 399.00
LED-RVS	LED rear view mirror flashing lights (Whelen, Federal or approved equivalent)	\$ 420.00	\$ 405.00
RMS	Roof-mount single amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 210.00	\$ 335.00
RMD	Roof-mount dual amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 235.00	\$ 495.00
4-CS	4 corner strobe amber bar (Whelen, Federal or approved equivalent)	\$ 576.00	\$ 895.00
4-CLED	4 corner LED amber bar (Whelen, Federal or approved equivalent)	\$ 866.00	\$ 1,190.00
CSP60	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 60w power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 495.00
CSP90	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 90w power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 515.00
SPS6J	<u>Corner Strobe Kits - Federal Kit with 4 clear tubes, 6 outlet SPS6J power supply, 2-15' cables, 2-30' cables</u>	\$ 450.00	\$ 515.00

? is this installed?

VEHICLE:	Silverado	Silverado	Silverado	Silverado
	1500	1500	1500	1500
DEALER:	Garber Chev.	Garber Chev.	Garber Chev.	Classic
ZONE:	Western	Northern	Central	Southern
BASE PRICE:	\$11,520.00	\$11,430.00	\$11,410.00	\$11,449.00

Order Code	Add Options (cont'd)	First 3 Zones	Southern
RICH	Corner Strobe Kits - Federal Kit with 4 clear tubes, 6 outlet RICHOCHE power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 550.00
NEB	Corner Strobe Kits - Soundoff Kit with 4 clear tubes, 6 outlet, 60w Nebula power supply, 2-15', 2-30' cables	\$ 490.00	\$ 485.00
GEM	Corner Strobe Kits - Soundoff Kit with 4 clear tubes, 6 outlet, 110w Gemini power supply, 2-15', 2-30' cables	\$ 510.00	\$ 580.00
DSM	Complete set of shop manuals ONLY	\$ 400.00	\$ 205.00
	5/75 Manufacturer's Extended Base Care Warranty (\$0 deductible) See Page 1050	\$ 1,270.00	\$ 795.00
	5/75 Manufacturer's Extended Extra Care Warranty (\$0 deductible)	\$ 1,415.00	\$ 650.00
	5/75 Manufacturer's Extended Power Train Warranty (\$0 deductible)	\$ 850.00	\$ 435.00



**FLORIDA
ASSOCIATION
OF COUNTIES**



**FLORIDA SHERIFFS ASSOCIATION,
FLORIDA ASSOCIATION OF COUNTIES &
FLORIDA FIRE CHIEFS' ASSOCIATION**

**2005 FORD F-150
Specification #27
(1/2 Ton Pickup Truck, 4 x 2)**

The Ford F-150 truck (F12) purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and FSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by manufacturer by specification by zone.

ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

While the Florida Sheriffs Association, Florida Association of Counties and Florida Fire Chiefs' Association have attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

★ = Specification Low Bid

\$14008.
with safety
\$14233, items & work related

**LEGEND FOR
DELETE/ADD OPTIONS**

Every line will require a **DOLLAR VALUE** or one of the following abbreviations
Std. = manufacturer's standard equip.
Incl. = included with base specs
NC = no additional charge
NA = not applicable to the vehicle
— = option not bid by vendor

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

Order Code	Delete Options	1st & Last Zones	Northern	Central
44M	Provide 5-speed manual transmission with overdrive in lieu of automatic overdrive	\$ 600.00	\$ 731.00	\$ 500.00
	Full size spare tire & rim	N/A	N/A	N/A
	Air conditioning	\$ 550.00	\$ 523.00	N/A
	Rear seat on extended cab model	STD	N/A	N/A
	AM/FM radio	N/A	N/A	N/A
	Daytime running lights	\$ 30.00	\$ 25.00	\$ 10.00
	ABS brakes	N/A	N/A	N/A
Order Code	Add Options	1st & Last Zones	Northern	Central
99W	Engine: 4.6L V8	\$ 1,845.00	\$ 1,813.00	\$ 1,845.00
995	Engine: 5.4L V8	\$ 2,740.00	\$ 2,547.00	\$ 1,845.00
85A	Power windows/door locks	\$ 795.00	\$ 795.00	<u>\$ 995.00</u>
52N	Speed control	\$ 225.00	\$ 225.00	<u>\$ 225.00</u>
	Tilt steering wheel	STD	\$ 225.00	STD
	Battery, 650 CCA or greater	N/A	\$ 265.00	\$ 350.00
	Dual batteries	N/A	N/A	N/A
	Passenger dome lamp	\$ 38.00	\$ 65.00	STD
	Bucket seats in lieu of bench seat	\$ 300.00	\$ 490.00	\$ 1,305.00
168	Carpet in lieu of rubber floor covering	\$ 145.00	NC(XLT)	\$ 1,150.00
433	Sliding rear window	\$ 225.00	\$ 225.00	\$ 225.00
	Standard cab	STD	STD	STD
X12	Extended cab model (4 door)	\$ 4,025.00	\$ 2,212.00	\$ 4,675.00
W12	Crew cab	\$ 9,935.00	\$ 5,645.00	\$ 9,780.00
LWB	Long bed in lieu of short bed	\$ 300.00	\$ 300.00	\$ 300.00
	Bedliner	\$ 225.00	\$ 220.00	<u>\$ 395.00</u>
	Spray-on bedliner (Rhino or approved equivalent)	\$ 490.00	\$ 485.00	\$ 595.00
585	AM/FM radio with single CD	\$ 270.00	\$ 360.00	<u>\$ 360.00</u>
3K	Third key	\$ 75.00	\$ 78.00	<u>\$ 95.00</u>
	Aluminum tool box <i>request side opening</i>	\$ 380.00	\$ 383.00	<u>\$ 395.00</u>
RS	Rainshields	\$ 65.00	\$ 87.00	\$ 100.00
924	Deep tinted glass	NC	\$ 325.00	N/A
	Bug shield	\$ 140.00	\$ 225.00	\$ 295.00
	Trailer tow mirrors	N/A	N/A	N/A
	Tow hooks	N/A	N/A	\$ 100.00
	Heavy duty towing package up to 5000 lbs. with Class III hitch	\$ 375.00	\$ 475.00	<u>\$ 400.00</u>
	Heavy duty towing package up to 7200 lbs. with appropriate hitch	\$ 1,260.00	\$ 475.00	\$ 2,195.00
	Wrap-around grille guard	\$ 690.00	\$ 638.00	\$ 695.00
	8000 lb. winch with remote	\$ 1,200.00	\$ 1,125.00	\$ 1,795.00
	Class IV hitch & ball	\$ 435.00	\$ 685.00	\$ 695.00

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

Order Code	Add Options (cont'd)	1st & Last Zones	Northern	Central
627	7700 lbs. GVWR	\$ 4,440.00	\$ 1,788.00	\$ 4,240.00
	Traction control	N/A	N/A	N/A
XH9	Limited slip differential	\$ 300.00	\$ 300.00	\$ 300.00
	Side air bags	N/A	N/A	N/A
EBC	Electric brake controller	\$ 325.00	\$ 345.00	\$ 395.00
BUA	Backup alarm	\$ 89.00	\$ 95.00	\$ 100.00
BUC	Back up camera with 3.5" LCD	\$ 600.00	\$ 549.00	N/A
	(rear mounted camera to provide wide angle field of vision at rear of vehicle)			
STX	Manufacturer's model upgrade pkg.	\$ 2,280.00	\$ 4,490.00	\$ 3,090.00
	(please specify pkg. bid)			
	Federal FHL2 headlight flasher	\$ 146.00	\$ 111.00	\$ 100.00
	Federal FA5 headlight flasher	\$ 146.00	\$ 118.00	\$ 150.00
	Whelen UHF2150A headlight flasher	\$ 146.00	\$ 107.00	\$ 107.00
	Whelen UHF2150B headlight flasher	\$ 146.00	\$ 116.00	\$ 100.00
	Whelen SSF2150 headlight flasher	\$ 146.00	\$ 114.00	\$ 100.00
	Soundoff Roadrunner headlight flasher w/amp connectors	\$ 135.00	\$ 116.00	\$ 100.00
	Soundoff Powerpulse headlight flasher w/amp connectors	\$ 156.00	\$ 119.00	\$ 100.00
	Fiberglass tonneau cover (painted to match)	\$ 1,100.00	\$ 1,115.00	\$ 1,695.00
	Fiberglass cab high topper with front, side and rear windows (painted to match)	\$ 1,200.00	\$ 1,299.00	\$ 1,995.00
GS	Grill strobes (Whelen, Federal or approved equivalent)	\$ 375.00	\$ 279.00	\$ 395.00
LED-GS	LED grill flashing lights (Whelen, Federal or approved equivalent)	\$ 360.00	\$ 279.00	\$ 450.00
RVS	Rear view mirror strobes (Whelen, Federal or approved equivalent)	\$ 415.00	\$ 314.00	\$ 395.00
LED-RVS	LED rear view mirror flashing lights (Whelen, Federal or approved equivalent)	\$ 420.00	\$ 314.00	\$ 405.00
RMS	Roof-mount single amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 210.00	\$ 212.00	\$ 195.00
RMD	Roof-mount dual amber strobe beacon (Whelen, Federal or approved equivalent)	\$ 235.00	\$ 276.00	\$ 295.00
4-CS	4 corner strobe amber bar (Whelen, Federal or approved equivalent)	\$ 576.00	\$ 439.00	\$ 595.00
4-CLED	4 corner LED amber bar (Whelen, Federal or approved equivalent)	\$ 866.00	\$ 729.00	\$ 795.00
CSP60	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 60w power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 384.00	\$ 395.00
CSP90	Corner Strobe Kits - Whelen Kit with 4 clear tubes, 6 outlet CSP 90w power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 399.00	\$ 450.00

VEHICLE:	F-150	F-150	F-150	F-150
DEALER:	Garber Ford	Duval	Don Reid	Garber Ford
ZONE:	★ Western	★ Northern	★ Central	★ Southern
BASE PRICE:	\$10,718.00	\$10,708.00	\$10,695.00	\$10,768.00

Order Code	Add Options (cont'd)	1st & Last Zones	Northern	Central
SPS6J	Corner Strobe Kits – Federal Kit with 4 clear tubes, 6 outlet SPS6J power supply, 2-15' cables, 2-30' cables	\$ 450.00	\$ 399.00	\$ 405.00
RICH	Corner Strobe Kits – Federal Kit with 4 clear tubes, 6 outlet RICHOCHE power supply, 2-15' cables, 2-30' cables	\$ 490.00	\$ 465.00	<u>\$ 450.00</u>
NEB	Corner Strobe Kits – Soundoff Kit with 4 clear tubes, 6 outlet, 60w Nebula power supply, 2-15', 2-30' cables	\$ 490.00	\$ 398.00	\$ 405.00
GEM	Corner Strobe Kits – Soundoff Kit with 4 clear tubes, 6 outlet, 110w Gemini power supply, 2-15', 2-30' cables	\$ 510.00	\$ 495.00	\$ 450.00
DSM	Complete set of shop manuals ONLY	\$ 400.00	\$ 325.00	\$ 295.00
5/75B	5/75 Manufacturer's Extended Base Care Warranty (\$0 deductible) See Page 1050	\$ 1,215.00	\$ 1,215.00	\$ 1,250.00
5/75E	5/75 Manufacturer's Extended Extra Care Warranty (\$0 deductible)	\$ 1,465.00	\$ 1,465.00	\$ 1,570.00
5/75P	5/75 Manufacturer's Extended Power Train Warranty (\$0 deductible)	\$ 1,005.00	\$ 1,005.00	\$ 1,050.00

TAB 2

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 2

☐ PUBLIC HEARING

☐ RESOLUTION

☒ DISCUSSION

☐ BID/RFP AWARD

☐ GENERAL APPROVAL OF ITEM

☐ CONSENT AGENDA


☐ Other:

SUBJECT: Report from PRMG

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager

Date: 3-24-05



Originating Department: General Manager	Costs: \$ Funding Source: Acct. #	Attachments:
Department Review: <input checked="" type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager <u>C.J.R.</u> <input checked="" type="checkbox"/> Finance	<input checked="" type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: Tony Hairston of PRMG will make a presentation on initial wastewater system development charges and rates as they relate to our current project and future projects.

Resulting Board Action:

☐ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Key Largo Wastewater Treatment District

-Draft-



-Draft-

System Development Charge and Rate Workshop

March 30, 2005

Presented by Public Resources Management Group, Inc.



Presentation Outline

-Draft-

- Description of various customer costs
- System Development Charge and Assessment Discussion
- Financial Modeling and Monthly User Rates

-Draft-

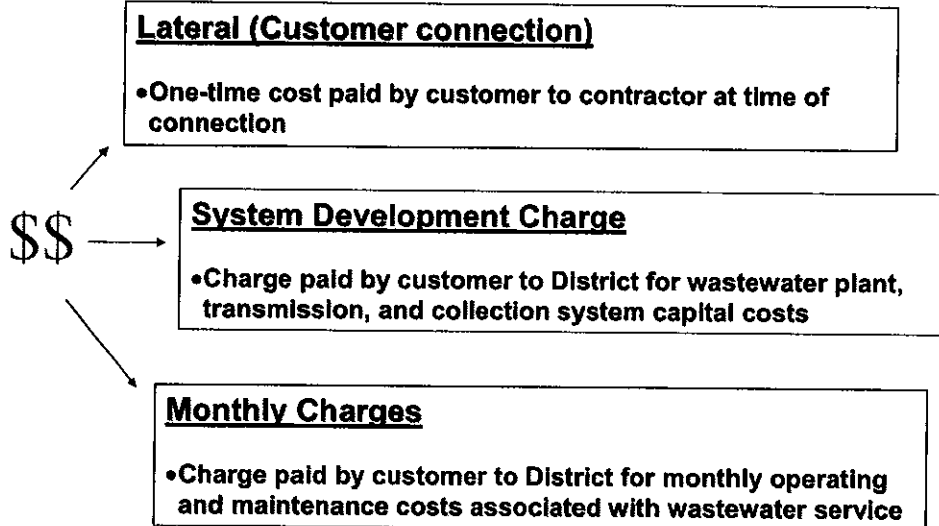
2





Customer Costs

-Draft-



-Draft-

3



Lateral (Customer Connection)^{*-Draft-*}

- One-time cost paid by customer to contractor at time of connection
- Customer hires contractor for connection to District's collection system and decommission onsite septic system
- Cost will vary among customers

-Draft-

4





System Development Charges

-Draft-

- **Paid by customer to District for capital (construction-related) costs**
- **Commonly referred to as:**
 - **Impact Fee, Capacity Fee, Connection Fee, Capital Recovery Fee, etc.**
- **Payment methods (KLWTD policy options):**
 - **One-time payment**
 - **Payable by customer prior to connection; or**
 - **Multi-year payments**
 - **Non-Ad Valorem assessment on annual property tax bill**
 - **Example: annual payment over 20 or 30 years**

-Draft-

5



Monthly Wastewater Rates

-Draft-

- **Billed monthly to customer for operating/maintenance and other ongoing utility costs**
- **Billing begins at time of service availability**
- **Residential rate structure options**
 - **Flat rate (all customers pay same monthly amount)**
 - **Base rate + usage charge**
 - **Monthly bill varies based on monthly water usage level**
 - **No usage charge past 12,000 gallons per month**
- **Annual rate index (based on published price index, e.g., Consumer Price Index)**

-Draft-

6





-Draft-

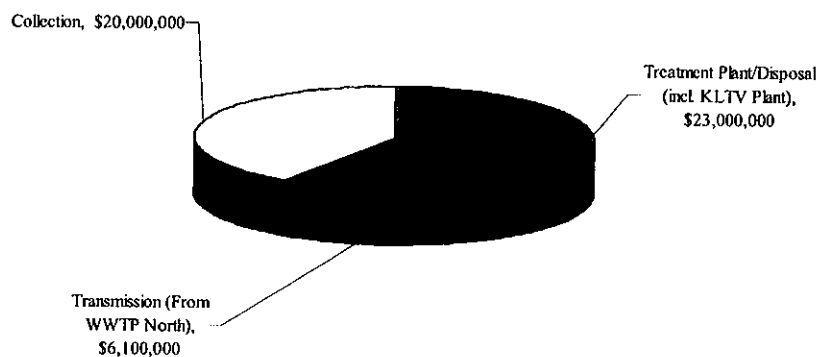
System Development Charge and Assessment Discussion

-Draft-

7



Wastewater System Capital Costs^{Draft-} through Fiscal Year 2009



Estimated Project Costs include KLTV, KLP, Calusa Campground, Sexton Cove/Lake Surprise Systems. Total Cost = \$49.1 million.

-Draft-

8





Allocation of Treatment/Disposal ^{-Draft-} Capital Costs

- Treatment Costs = \$23.0 million
- Includes interim plant (part of KLTV project)
- Plant designed to serve entire Key Largo Wastewater Treatment District service area
- Approximately 13,000 EDUs
- Average cost per EDU = \$1,700 to \$1,800

-Draft-

9



Allocation of Transmission Capital Costs ^{-Draft-}

- Transmission Costs = \$6.1 million (including \$1.1 million currently under construction)
- Cost of transmission from northern end of service area to plant site in middle of service area
- Approximately 6,600 EDUs
- Average cost per EDU = \$900 to \$1000

-Draft-

10





Allocation of Collection Capital Costs^{-Draft-}

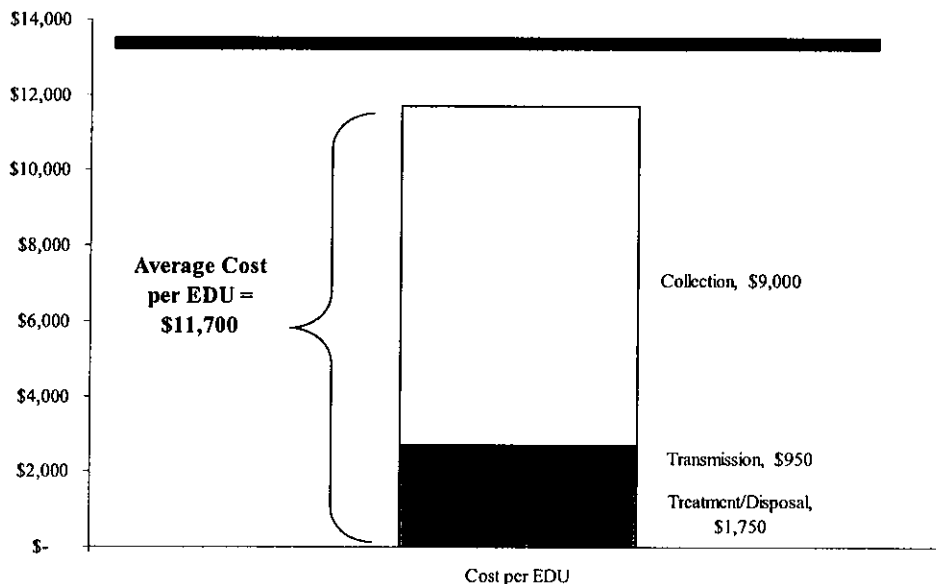
- Collection costs = \$20.0 million
- Cost of collection systems for Key Largo Trailer Village, Key Largo Park, Calusa Campground, Sexton Cove/Lake Surprise projects
- Approximately 2,300 EDUs
- Average cost per EDU = \$8,500 to \$9,500

-Draft-

11



Summary of Capital Costs by Function^{-Draft-}



-Draft-

12





Proposed System Development Charges^{-Draft-}

- Average cost per EDU = \$11,700
- Proposed Residential System Development Charge per EDU = \$4,770
- Proposed charge reflects 59% grant funding
- Grant funding for identified projects is currently 65% (including County Bonds)
- Commercial System Development Charge
 - Proposed \$2,600 to \$3,000 per EDU
- Annual inflation index

-Draft-

13



System Development Charges (Cont'd.)^{-Draft-}

- System development charge to be assessed over a 20 - 30 year period, beginning October 2005
 - KL Trailer Village, KL Park, Calusa Campground, Sexton Cove, Lake Surprise
 - Customers may choose to pay entire SDC upfront rather than the 20-30 year assessment
 - Annual assessment of \$4,770 system development charge is approximately \$350.00 (assuming 20 year assessment)
 - 4% discount if payment made in November of tax year
 - Discounted annual amount approx. \$336.00 or \$28.00/month
 - Interest rate is linked to District's borrowing cost

-Draft-

14





System Development Charges (Cont'd.)

-Draft-

- **Determination of SDC for forecast purposes**
 - **EDU = Equivalent Dwelling Unit**
 - **Individually Metered Residential = 1 EDU**
 - **Master-Metered Residential = 1.0 EDU per dwelling unit**
 - **Hotels/Campgrounds/etc. = 1.0 EDU per room/site**
 - **Commercial EDUs based on historical usage levels**
 - 1 EDU represents 167 gallons per day

-Draft-

15



Financial Modeling and Monthly User Rates

-Draft-

-Draft-

16





Financial Model

-Draft-

- **Projection period - Fiscal Year 2005 through 2009**
- **Customer forecast**
 - Customer connections
 - Treatment requirements
 - Billing statistics
 - Revenue projections
- **Capital funding**
 - Capital expenditure schedule
 - Capital funding analysis

-Draft-

17



Financial Model (cont'd)

-Draft-

- **Operating expenses**
 - Initial plant operations
 - System-wide plant operations
- **Other considerations**
 - MSTU revenues
 - Debt service
 - Adequate reserve funding

-Draft-

18





Financial Model (cont'd)

-Draft-

- Determine average rate level to meet revenue requirements
- Design of actual rates
 - Rates by customer class (residential single-family, residential multi-family, non-residential, etc.)
 - Base monthly charge
 - Usage charge
 - Revenue stability
 - Equity among various customer classes and usage levels

-Draft-

19



Monthly Rates

-Draft-

- Monthly rates depend on system development charge option
 - Higher system development charges = Lower monthly rates

<u>Residential System Development Charge</u> <u>(per EDU)</u>	<u>Monthly Basis⁽¹⁾</u> billed annually on tax bill, shown here monthly for comparison purposes	<u>Monthly Wastewater Bill⁽²⁾</u> billed monthly to customer	<u>Total Monthly Cost</u>
1. \$2,700 SDC	\$16.00	\$57.00	\$73.00
or			
2. \$4,770 SDC	\$28.00	\$45.00	\$73.00

-Draft-

(1) Amount reflects 4% discount for paying tax bill in November each year.

(2) Amount reflects estimated average residential bill (base plus usage charge). Amount assumes MSTU is extended past Fiscal Year 2007.

-Draft-

20





Estimated Initial Monthly Rates ^{-Draft-}

Monthly Rates for Wastewater Service (1)	Alternative 1	Alternative 2
Residential System Development Charge	\$2,700.00	\$4,770.00
Base Facility Charge (per Account):		
Individually Metered Residential	-to be determined	-to be determined
Multi-Metered Residential (rate per dwelling unit)	-to be determined	to be determined
Commercial and All Other Customer Classes (by meter size):		
5/8 and 3/4-Inch Meter	-to be determined	-to be determined
1-Inch Meter	-to be determined	-to be determined
1 1/2-Inch Meter	-to be determined	-to be determined
2-Inch Meter	-to be determined	-to be determined
3-Inch Meter	-to be determined	-to be determined
4-Inch Meter	-to be determined	-to be determined
6-Inch Meter	-to be determined	-to be determined
Consumption Charge (per 1,000 gallons of metered water service):		
Individually Metered Residential Service – maximum monthly use of 12,000 gallons	-to be determined	-to be determined
All Other Classes of Service – All metered Consumption (2)	-to be determined	-to be determined

(1) Rates effective during Fiscal Year 2005 and Fiscal Year 2006. Such rates are to be indexed annually based on the Consumer Price Index or similar index.

(2) Rates reflect domestic-strength wastewater. Industrial surcharges apply for customers with higher than domestic-strength wastewater.

-Draft-

21



Conclusions/Recommendations ^{-Draft-}

- **System Development Charges**
 - Residential charge of \$4,770 per EDU
 - Commercial charge between \$2,600 to \$3,000
 - Prior to adoption, final amount may vary from estimate amount due to changes in project costs or EDU tabulation
 - Continue assessment procedure
- **Work with staff on completing financial forecast**
 - Projection of annual revenue requirement
 - Identify average monthly rates
 - Design monthly rates

-Draft-

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TAB 3

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 3

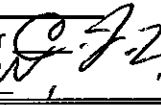
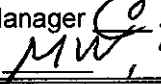
- | | |
|---|--|
| <input type="checkbox"/> PUBLIC HEARING
<input checked="" type="checkbox"/> DISCUSSION
<input type="checkbox"/> GENERAL APPROVAL OF ITEM
<input type="checkbox"/> Other: | <input type="checkbox"/> RESOLUTION
<input type="checkbox"/> BID/RFP AWARD
<input type="checkbox"/> CONSENT AGENDA |
|---|--|

SUBJECT: State Revolving Fund

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager 

Date: 3-24-05

Originating Department: General Manager	Costs: \$ Funding Source: Acct. #	Attachments: Memo on representative from SRF Overview of presentation
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager  <input checked="" type="checkbox"/> Finance 	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: SRF Funding is specific for wastewater and storm water funding. The District will surely use some level of SRF funding to provide continuity to our future projects. Robert Holmden, FDEP will brief the Board on SRF opportunities.

Resulting Board Action:

☐ Approved

☐ Tabled

☐ Disapproved

☐ Recommendation Revised

Memo

To: KLWTD Board
From: Charles F. Fishburn, General Manager
CC: File
Date: March 30, 2005
Re: SRF Funding

General Contact Information on SRF representative:

Robert Holmden, Florida Department of Environmental Protection

Bureau of Water Facilities Funding. Wastewater Funding Section

Tallahassee, FL 32399

850-245-8358

robertholmden@dep.state.fl.us

Bob Holmden is a Professional Engineer for the Department of Environmental Protection and is currently the Program Administrator for the Wastewater Funding Section within the Bureau of Water Facilities Funding. He has a B.S. degree in Civil Engineering from Ohio State University and a M.S. degree in Systems Analysis from the University of West Florida. Bob came to the Department in 1994 after spending 21 years in the Air Force.

As program administrator Bob is responsible for implementing the Clean Water State Revolving Fund (SRF) program and the Small Community Wastewater Construction Grants program for Financially Disadvantaged Small Communities. Within these programs he oversees the wastewater, storm water, reuse, and non-point source pollution activities throughout the State.

WHAT IS THE STATE REVOLVING FUND PROGRAM?

The Clean Water Act State Revolving Fund (SRF) Program provides low interest loans for water pollution control activities and facilities. Water pollution control can be divided into point source (a permit for discharge in an urban area is generally involved) and non-point source (stormwater runoff from agricultural operations is generally involved). The Clean Water SRF Program is distinct from the Safe Drinking Water Act SRF that provides funding for drinking water activities and facilities. The Clean Water SRF Program began in 1989 and over a billion dollars in loans have been made by the Department of Environmental Protection. The Program revolves in perpetuity using state and federal appropriations, loan repayments, investment earnings, and bond proceeds.

WHAT KINDS OF PROJECTS ARE ELIGIBLE?

Projects eligible for SRF loans include wastewater management facilities, reclaimed wastewater reuse facilities, stormwater management facilities, widely accepted pollution control practices (sometimes called "best management practices") associated with agricultural stormwater runoff pollution control activities, brownfields associated with contamination of ground or surface waters and estuary protection activities and facilities.

ARE LOANS LIMITED TO CONSTRUCTION FINANCING?

SRF loans are not limited to construction loans. Loans can also be made for the planning and engineering costs necessary for construction. Such loans are described as "preconstruction loans." Preconstruction loans are available for all eligible projects. This type of loan can provide a borrower with the upfront funding necessary to get a project off the ground. When a project involves the control of agricultural runoff, a loan also may be made for the costs associated with widely accepted pollution control practices that include technical services and the purchase of equipment. In summary, loans can be made for just about any activity associated with water pollution control.

WHO IS ELIGIBLE FOR LOANS?

Eligibility is established in the federal Clean Water Act. Local governments such as municipalities, counties, authorities, special districts, and agencies thereof, are eligible for loans to control wastewater and stormwater pollution. Non-governmental parties (basically any entity that can repay a loan) are eligible for loans to control stormwater pollution related to agricultural operations.

WHY SHOULD I BOTHER WITH THE SRF?

The program has been streamlined to make it easier to get funding and the SRF offers interest rates well below market rates. The value of the subsidy varies with the individual borrower's economic wellbeing being measured by income, unemployment and poverty. Generally, interest rates vary from 20% of the market rate for a financially disadvantaged community to 80% of the market rate for a more affluent community. Most communities qualify for rates below 60% of the market rate. In addition to excellent rates, all loans offer fixed rate financing for the principal amount of the loan and for the life of the loan.

WHAT ASSISTANCE IS AVAILABLE FOR SMALL COMMUNITIES?

At the beginning of each year, small communities having populations of less than 20,000 are entitled to priority use of 15% of all loan funds. In addition, small communities qualify for loans from the unreserved 85% funds. All projects are prioritized for funding according to a system that favors small projects regardless of who the project sponsor is. Over the years, small communities have accounted for 30% of all loans.

WHAT ARE THE LOAN TERMS?

Generally, loans are to be repaid over 20 years or the useful life of the project whichever is less. The loan repayment period can be extended to a maximum of 30 years or useful life of the project for projects to benefit a small community with a financial hardship. Preconstruction loans and loans for the costs associated with pollution control associated with agricultural runoff have shorter loan repayment periods (generally 10 years). The interest rate is below market. An interest rate write-down (subsidy) is available to both governmental and non-governmental borrowers. Once established, the rate does not change over the life of the loan. Repayment begins six months after project work is scheduled for completion. Payback consists of equal semiannual repayments. A dedicated revenue source to repay the loan is required. Excess revenue, debt service reserve and other loan security features may vary depending on the source and predictability of the pledged revenue.

ARE THERE FEES ASSOCIATED WITH THE SRF?

All loans are charged a loan service fee of 2%. The fee is based on actual project costs so you only get charged for what you actually use. There are no other fees!

WHAT ARE THE STEPS IN OBTAINING A LOAN?

First, project information is provided on a *Request for Inclusion Form* to establish the project sponsor, a project description, priority score, and estimated project cost. For preconstruction loans this is the only documentation required to be put on the Department's project priority list. If pursuing a construction loan, completion of a planning, design, permitting and site certification process is needed next. The Department will then add the project to its project priority list at a public hearing. Once it is placed on the fundable portion of the priority list for a preconstruction or construction loan a completed *Loan Application Form* is sent to the Bureau of Water Facilities Funding. Finally, a *Loan Agreement* drafted by the Department is executed by both parties to the loan. All forms are available on the Department's website at www.dep.state.fl.us/wff/wwwmanual.htm.

WHAT IS THE TIMELINE FOR GETTING FUNDS?

The process can be initiated upon request of a project sponsor at any time. However, the availability of funds is the greatest at the beginning of the State fiscal year. A hearing is held quarterly to allocate funds. Potential SRF program participants are encouraged to contact the Bureau of Water Facilities Funding for further information.

For more information or to arrange a meeting, please contact:

Department of Environmental Protection
Bureau of Water Facilities Funding
Mail Station 3505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 245-8358
www.dep.state.fl.us/water/wff

Request for Inclusion

Florida Department of Environmental Protection
Bureau of Water Facilities Funding

Twin Towers Office Bldg. 2600 Blair Stone Road MS 3505 Tallahassee, Florida 32399-2400

Project Number: _____ Affordability Index: _____
(Filled in by DEP) (Filled in by DEP)

Type of loan applying for: Pre-construction ☐ Construction ☐

1. Applicant's Name and Address.

Project Sponsor: _____

(street)

(city) (county) (zip code)

Contact Person: _____

(street)

(city) (county) (zip code)

(telephone) (fax) (e-mail)

2. Name and Address of Applicant's Consultant (if any).

Firm: _____ Contact Person _____

(street)

(city) (county) (zip code)

(telephone) (fax) (e-mail)

3. Certification by Authorized Representative: I certify that this form and attachments have been completed by me or at my direction and that the information presented herein is, to the best of my knowledge, accurate.

(signature) (date)

(name, typed) (title)

Request for Inclusion

4. Eligible Projects.

- a. A project may encompass urban stormwater management facilities, such as detention/retention facilities, treatment facilities, etc. sponsored by a local government (eligible under Section 212 of the amended Clean Water Act).
- b. A project may encompass wastewater management facilities, such as sewers, pump stations, treatment plants, reuse facilities, sludge facilities, etc. sponsored by a local government (eligible under Section 212 of the amended Clean Water Act).
- c. A project may encompass nonpoint source pollution control best management practices for agriculture, silvaculture, on-site treatment and disposal, wetlands, mining, marinas, brownfields or groundwater protection sponsored by any entity (eligible under Section 319 or 320 of the amended Clean Water Act).

To be eligible for listing on the fundable part of the integrated priority list, the project component(s) must be specifically identified in a planning document. If the planning has been completed for this project, note the title and date, and reference the page numbers or other location at which the specific facilities are described.

_____	_____	_____
(title)	(date)	(reference page or other location)

5. Project Information (Please Attach).

- a. Describe the project, its location, the scope, why it's needed and the environmental benefit.
- b. Attach maps showing system boundaries, existing and proposed service area, and project area.
- c. Census tract numbers of the existing and proposed service area. List in item 12 below.
- d. List any NPDES permit number associated with this project.

Estimated Costs (Clean Water Act Section 212, 319, and 320).

- | | |
|---|-------|
| a. Construction, Equipment, Materials, Demolition and Related Procurement | _____ |
| b. Eligible Land | _____ |
| c. Other (explain) | _____ |
| d. Contingency (10% for Items a. through c. if costs are unknown, otherwise 5% for a. and c.) | _____ |
| e. Technical Services during Construction | _____ |
| f. Sum of Items a. through f. | _____ |
| g. Allowance: $((25 - \text{natural log of costs in a}) \times \text{Costs in a} / 100)$. For design build projects the allowance is 30% of the calculated amount. [see Rule 62-503(300)(5)] | _____ |
| h. Total (sum of Items f. and g.) | _____ |

Request for Inclusion

7. Prioritization.

a. Default Minimum Priority

☐ Check here if applying for a default minimum priority score (100 points) and skip to Item 10 below.

b. Baseline Priority Category

☐ Check here if applying for a priority determination under Rule 62-503.600, F.A.C., and provide appropriate information. Identify the category score(s) for which the project qualifies and reference the location in the planning documentation where substantiating information may be found or attach other such substantiating information. Note that when a project justifies different base scores, the highest base score is to be used. The total of the base scores is not to be used.

Project Category (Base Score)		Reference
Reduce documented public health hazard (500 points). <ul style="list-style-type: none"> Page 6 must be annotated and signed by the Director of the County Health Department. Examples: elimination of failing septic tanks or failing package plants or elimination of SSO. 	<input type="checkbox"/>	Page 6 Certification
Protect groundwater or surface water (400 points). <ul style="list-style-type: none"> Examples: upgrade in level of treatment, elimination of SSO (in the absence of a documented public health hazard), laws requiring the elimination of a discharge from specific water bodies, I/I correction. 	<input type="checkbox"/>	
Promote reclaimed water or residuals reuse (300 points) <ul style="list-style-type: none"> Examples: constructing new or expanded reuse facilities for beneficial reuse of treated wastewater/stormwater or residuals. 	<input type="checkbox"/>	
Compliance with enforceable standards or requirements (200 points). <ul style="list-style-type: none"> Examples: state or federal Consent Orders or Administrative Agreements, temporary operating permits with enforceable schedules and requirements, or new state or federal regulations. 	<input type="checkbox"/>	
All other (100 Points) <ul style="list-style-type: none"> Example: treatment plant rehab/expansion, major sewer rehab/replacement, new collection sewers, or new transmission mains. 	<input type="checkbox"/>	

Request for Inclusion

8. Restoration and Protection of Special Water Bodies.

In order to qualify for a base score multiplier identify which of the water bodies listed below that the project will assist in restoring or protecting and reference the location in existing documentation where substantiating information may be found or attach other such substantiating information. If none are selected the multiplier equals 1.0. If one or more are selected the multiplier is 1.2.

Water Body		Reference
A priority water body identified in an adopted Surface Water Improvement and Management (SWIM) Plan.	<input type="checkbox"/>	
A water body classified as Outstanding Florida Waters.	<input type="checkbox"/>	
A water body identified under the National Estuary Program.	<input type="checkbox"/>	
A water body classified as Wild and Scenic Rivers.	<input type="checkbox"/>	
A water body located in a priority watershed established under the Unified Watershed Assessment Program	<input type="checkbox"/>	

9. Cost-to-benefit Index.

Project priority scores (base category scores adjusted for waterbody restoration and protection) are multiplied by an index as detailed below. Note that Bureau of Water Facilities Funding personnel are available to assist in the computation of the index.

- a. Total Project Cost (Item 6. above) in units of \$1,000 (e.g., \$1,000,000 is 1,000) expressed to the nearest whole number is \$ _____
- b. Highest base category score (from Item 7. above) multiplied by the waterbody restoration/protection factor (from Item 8. above) is \$ _____
- c. Cost-to-benefit ratio (Item a. divided by Item b.) expressed to nearest 0.01 is \$ _____
- d. Natural logarithm of cost-to-benefit ratio (Item c.) expressed to the nearest 0.001 is \$ _____
- e. Index computed as $[1.20 - 0.021 \times \text{Natural logarithm}]$ (from Item d.) and expressed to nearest 0.01 is \$ _____

10. Small Community Economic Hardship

If the project will serve a small community (population less than 20,000 as of the most recent decennial census) and the affordability index for that community is less than 100, an economic hardship exists. Ten points will be added to the priority score in recognition of the economic hardship after the appropriate multipliers under Items 8 and 9 have been applied.

11. Priority Score

- a. Base Score from 7 above. _____
- b. Restoration and Protection of Special Water Bodies multiplier from 8 above. _____
- c. Cost-to-benefit Index from 9 above. _____
- d. Small Community Economic Hardship points from 10 above. _____
- e. Priority Score is $(a \times b \times c + d)$ or if default minimum is selected score is $(100 + d)$. _____

Request for Inclusion

12. Affordability Index. The affordability index will be determined by the Department using census tract information from the most recent decennial census for the community to be served to determine the financing rate under Rule 62-503.300(9)(a), F.A.C.. List the census tracts for the area served and proposed to be served by the project.

Census Tracts: 9702, 9703, 9704, 9706

3. Project Schedule.

(Month and Year)

- a. Complete the planning documentation
- b. Complete the design documents (if necessary)
- c. Obtain a permit or intent to issue a permit (if necessary) for construction or other activity
- d. Obtain all required project sites
- e. Start activity (such as construction or non-structural best management practice)
- f. Complete activity (such as construction or non-structural best management practice)

4. Loan Application and Loan Execution Schedule

Completed Loan Application and Executed Loan Agreement Considerations

In situations described in Rule 62-503.430(1)(b), F.A.C., late submittals could have adverse consequences. The certification required, under Item 3 above, from the Authorized Representative as part of this form includes the project sponsor's commitment to meet the submittal requirements for the completed loan application and for executing a loan agreement.

Note the following activities associated with completing a loan application:

- a. Establish pledged revenues and designate an Authorized Representative.
- b. If requested, submit EPA Compliance Report (relating to service area demographics).
- c. Establish project schedule.
- d. Provide financial information for each source of pledged revenue as follows: Actual revenues and expenditures for the last two fiscal years, and forecast revenues and debt coverage demonstrating the availability of pledged revenues for loan repayment.
- e. Address the availability of pledged revenues for loan repayment, and the subordination of the pledge if pledged revenues are subject to a prior or parity lien.
- f. Provide information concerning liens on the pledged revenues that have prior or parity status. Information is to be provided for each of the last two fiscal years and estimated throughout the loan repayment period. Describe each obligation, the amount, and repayment terms. Provide resolutions, ordinances, or other documentation recognizing the seniority or parity of unissued debt.

(Month/Year)

Submit complete loan application (shall be submitted within 120 days of project listing on the fundable list).

Anticipated date that loan agreement will be delivered for the Department's execution (shall be executed within 210 days of project listing on the fundable list).

Return completed form to the Bureau of Water Facilities Funding, 2600 Blair Stone Road, MS #3505, Tallahassee, Florida 399-2400. Information may also be sent by FAX at (850) 245-8411.

Request for Inclusion

CERTIFICATION THAT THE PROJECT WILL REDUCE A PUBLIC HEALTH HAZARD

Attach the following information noting that each item must be specifically addressed:

- a) Description of existing conditions
- b) Specific location of the hazard and proposed project, including a sketch or map.
- c) Extent of the hazard (for example, area involved and severity of problem).
- d) Frequency of occurrence (for example, the approximate number of days during the year that the hazard exists)
- e) Identification of the toxics, pathogens, or other contaminants causing the health hazard.
- f) Explanation of how the project will reduce or eliminate the hazard.

I hereby certify that a documented public health hazard exists and that the information presented herein and attached hereto is accurate. (Certification is required by the Director of the County Health Department.)

(signature) (date)

(name, typed) (title)

(agency)

(address)

(telephone) (fax) (e-mail)



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

NOTIFICATION/APPLICATION FOR CONSTRUCTING A DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM

PART I - GENERAL

Subpart A: Permit Application Type

Permit Application Type (mark one only)	EDUs Served	Application Fee*	"X"
Are you applying for an individual permit for a domestic wastewater collection/transmission system? Note: an EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.	≥ 10	\$500	<input type="checkbox"/>
	< 10	\$300	<input type="checkbox"/>
Is this a Notice of Intent to use the general permit for wastewater collection/transmission systems? Criteria for qualifying for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.	N/A	\$250	<input type="checkbox"/>

*Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

- (1) This form shall be completed for all domestic wastewater collection/transmission system construction projects as follows:
 - If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department **at least 30 days prior to initiating construction.**
 - If this is an application for an individual permit, the permit must be obtained prior to initiating construction.
- (2) One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program.
 - If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
 - If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application, or alternatively, an engineering report shall be submitted. Plans and specifications and engineering reports shall be prepared in accordance with the applicable provisions of Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*. The plans and specifications or engineering report shall be signed and sealed by a Professional Engineer registered in Florida.
- (3) All information shall be typed or printed in ink. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

PART II – PROJECT DOCUMENTATION

(1) Collection/Transmission System Permittee

Name _____ Title _____
 Company Name _____
 Address _____
 City _____ State _____ Zip _____
 Telephone _____ Fax _____ Email _____

(2) General Project Information

Project Name _____
 Location: County _____ City _____ Section _____ Township _____ Range _____
 Project Description and Purpose (including pipe length, range of pipe diameter, total number of manholes, and total number of pump stations) _____

 Estimated date for: Start of construction _____ Completion of construction _____
 Connections to existing system or treatment plant _____

(3) Project Capacity

A = Type of Unit	B = Number of Units	C = Population Per Unit	D = Total Population (Columns B x C)	E = Per Capita Flow	F = Total Average Daily Flow (Columns D x E)	G = Peak hour flow
Single-Family Home						
Mobile Home						
Apartment						
Commercial, Institutional, or Industrial Facility*						
Total						

* Description of commercial, institutional, and industrial facilities and explanation of method used to estimate per capita flow for these facilities:

(4) Pump Station Data (attached additional sheets as necessary)

Location	Type	Estimated Flow to the Station (GPD)			Operating Conditions [GPM @ FT (TDH)]
		Maximum	Average	Minimum	

(5) Collection/Transmission System Design Information

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project.

If this project has been designed to comply with the standards and criteria listed below, the engineer shall initial in ink before the standards or criteria. If any of the standards or criteria do not apply to this project or if this project has not been designed to comply with the standards or criteria, mark "X" before the appropriate standard or criteria and provide an explanation, including any applicable rule references, in (5)B. below.

Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit.

General Requirements

- _____ 1. The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. [RSWF 11.243]
- _____ 2. Procedures are specified for operation of the collection/transmission system during construction. [RSWF 20.15]
- _____ 3. The project is designed to be located on public right-of-ways, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]
- _____ 4. The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]
- _____ 5. The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]
- _____ 6. The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g)(h) and (i) and (3), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(i) 3., F.A.C., are used, describe in Part II.C. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g), (h), and (i) and (3), F.A.C.]

Gravity Sewers

- _____ 7. The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]
 - _____ 8. The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3]
 - _____ 9. All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]
 - _____ 10. Sewers are designed with uniform slope between manholes. [RWSF 33.44]
 - _____ 11. Where velocities greater than 15 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]
 - _____ 12. Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]
-

- _____ 13. Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5]
- _____ 14. Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7]
- _____ 15. Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7]
- _____ 16. Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81]
- _____ 17. Appropriate deflection tests are specified for all flexible pipe. Testing is required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85]
- _____ 18. Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95]
- _____ 19. If an inverted siphon is proposed, documentation of its need is provided in Part II.C. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35]

Manholes

- _____ 20. The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1]
- _____ 21. Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2]
- _____ 22. Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 22 inches. [RSWF 34.3]
- _____ 23. Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5]
- _____ 24. Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF 34.6]
- _____ 25. Manhole inspection and testing for watertightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]
- _____ 26. Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

Stream Crossings

- _____ 27. Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21 and 48.5]
- _____ 28. Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances from the shoreline to prevent discharge in the event the line is damaged. [62-604.400(2)(k)5., F.A.C.]
- _____ 29. Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(k)1., F.A.C., and RSWF 36.11]
- _____ 30. Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(k)2., F.A.C.]
- _____ 31. Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(k)4., F.A.C.]
- _____ 32. Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning and settlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37 and 48.5]
- _____ 33. Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(k)3., F.A.C.]

Pump Stations

- _____ 34. In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), F.A.C.]
 - _____ 35. Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2]
 - _____ 36. Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3]
 - _____ 37. Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42.21]
 - _____ 38. The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]
-

39. The design includes provisions for: 1) suitable and safe means of access for persons wearing self-contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23]
40. Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25]
41. Except for low-pressure grinder or STEP systems, multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36]
42. Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322]
43. Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. [RSWF 42.33] (Note, this provision is not applicable to grinder pumps.)
44. The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34]
45. The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lighting arrestors, surge capacitors, or other similar protection devices and phase protection. Note, pump stations serving a single building are not required to provide surge protection devices if not necessary to protect the pump station. [62-604.400(2)(b), F.A.C.]
46. The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements for Class I Group D, Division 1 locations; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35]
47. The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF 42.37]
48. Pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38]
49. The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4]
50. The design requires: 1) suitable shutoff valves be placed on the suction line of dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5]
51. The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]
52. The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF 42.63]

53. For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]
54. The design provides for adequate ventilation all pump stations; mechanical ventilation where the dry well is below the ground surface; permanently installed ventilation if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]
55. The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]
56. The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]
57. If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]
58. If dry well ventilation is continuous, design provides at least 6 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]
59. Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]
60. The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]
61. The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 1200 gpm or greater design peak flow. [RSWF 42.8]
62. The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]

Additional Items to be Completed for Suction-Lift Pump Stations

63. The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]
64. The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be remove for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

- _____ 65. Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]
- _____ 66. The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]
- _____ 67. In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]
- _____ 68. In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]
- _____ 69. In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]
- _____ 70. In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]

Emergency Operations for Pump Stations

- _____ 71. Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.C. showing an equivalent level of reliability and public health protection. [RSWF 45]
 - _____ 72. The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 46.423 and 46.433]
 - _____ 73. The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 46.431]
 - _____ 74. The design provides for emergency equipment to be protected from operation conditions that would result in damage to the equipment and from damage at the restoration of regular electrical power. [RSWF 46.411, 46.417, and 46.432]
-

75. For permanently-installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 46.414 and 46.415]
76. For permanently-installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 46.422]
77. Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 46.44]

Force Mains

78. Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. [RSWF 48.1]
79. The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stubouts on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]
80. The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF 48.2]
81. Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater pump stations. [RSWF 48.4]
82. When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 for design. [RSWF 48.61]
83. Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]
84. Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]

*RSWF = *Recommended Standards for Wastewater Facilities* (1997) as adopted by rule 62-604.300(5)(c), F.A.C.

B. Explanation for Requirements or Standards Marked "X" in II(5)A. Above (Attach additional sheets if necessary):

PART III - CERTIFICATIONS

(1) Collection/Transmission System Permittee

I, the undersigned owner or authorized representative* of _____
 am fully aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. I agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed into service for any purpose other than testing for leaks and testing equipment operation.

Signed _____ Date _____
 Name _____ Title _____

*Attach a letter of authorization.

(2) Owner of Collection/Transmission System

I, the undersigned owner or authorized representative* of _____ certify that we will be the Owner of this project after it is placed into service. I agree that we will operate and maintain this project in a manner that will comply with applicable Department rules. Also I agree that we will promptly notify the Department if we sell or legally transfer ownership of this project.

Signed _____ Date _____
Name _____ Title _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____

* Attach a letter of authorization.

(3) Wastewater Facility Serving Collection/Transmission System**

If this is a Notice of Intent to use a general permit, check here:

- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has the capacity to receive the wastewater generated by the proposed collection system; is in compliance with the capacity analysis report requirements of Rule 62-600.405, F.A.C.; is not under a Department order associated with effluent violations or the ability to treat wastewater adequately; and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

If this is an application for an individual permit, check one:

- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility has and will have adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.
- ☐ The undersigned owner or authorized representative* of the _____ wastewater facility hereby certifies that the above referenced facility currently does not have, but will have prior to placing the proposed project into operation, adequate reserve capacity to accept the flow from this project and will provide the necessary treatment and disposal as required by Chapter 403, F.S., and applicable Department rules.

Name of Treatment Plant Serving Project _____
County _____ City _____
DEP permit number FL _____ Expiration Date _____
Maximum monthly average daily flow over the last 12 month period _____ MGD Month(s) used _____
Maximum three-month average daily flow over the last 12 month period _____ MGD Month(s) used _____
Current permitted capacity _____ MGD ☐ AADF ☐ MADF ☐ TMADF
Current outstanding flow commitments (including this project) against treatment plant capacity: _____

Signed _____ Date _____
Name _____ Title _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____

* Attach a letter of authorization.

** If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify that I am in responsible charge of the preparation and production of engineering documents for this project; that plans and specifications for this project have been completed; that I have expertise in the design of wastewater collection/transmission systems; and that, to the best of my knowledge and belief, the engineering design for this project complies with the requirements of Chapter 62-604, F.A.C.

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

(Affix Seal)

Signed _____
Date _____

Name _____ Florida Registration No. _____
Company Name _____
Address _____
City _____ State _____ Zip _____
Telephone _____ Fax _____ Email _____
Portion of Project for Which Responsible _____

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

AND

(*1), FLORIDA

**CLEAN WATER STATE REVOLVING FUND
CONSTRUCTION LOAN AGREEMENT**

WWG120(*2)

Florida Department of Environmental Protection
Bureau of Water Facilities Funding
Twin Towers Office Building
2600 Blair Stone Road, MS 3505
Tallahassee, Florida 32399-2400

CLEAN WATER STATE REVOLVING FUND CONSTRUCTION LOAN AGREEMENT

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CLEAN WATER STATE REVOLVING FUND CONSTRUCTION LOAN AGREEMENT
WWG120(*2)

THIS AGREEMENT is executed by the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (Department) and the (*1), FLORIDA, (Local Government) existing as a local governmental agency under the laws of the State of Florida.

WITNESSETH:

WHEREAS, pursuant to Section 403.1835, Florida Statutes, the Department is authorized to make loans to local government agencies to finance or refinance the construction of wastewater pollution control facilities, the planning and design of which have been reviewed by the Department; and

WHEREAS, the Local Government has made application for the financing of the Project, and the Department has determined that such Project meets all requirements for a loan.

NOW, THEREFORE, in consideration of the Department loaning money to the Local Government, in the principal amount and pursuant to the covenants hereinafter set forth, it is agreed as follows:

ARTICLE I - DEFINITIONS

1.01. WORDS AND TERMS.

Words and terms used herein shall have the meanings set forth below:

- (1) "Agreement" or "Loan Agreement" shall mean this construction loan agreement.
- (2) "Authorized Representative" shall mean the official of the Local Government authorized by ordinance or resolution to sign documents associated with the Loan.
- (3) "Capitalized Interest" shall mean the interest accruing on Loan proceeds from the time of disbursement until six months before the first Semiannual Loan Payment is due. Capitalized Interest is financed as part of the Loan principal.
- (4) "Depository" shall mean a bank or trust company, having a combined capital and unimpaired surplus of not less than \$50 million, authorized to transact commercial banking or savings and loan business in the State of Florida and insured by the Federal Deposit Insurance Corporation.
- (5) "Grant Allocation Assessment" shall mean an assessment, expressed as a percent per annum, accruing on the unpaid balance of the Loan. It is computed similarly to the way interest charged on the Loan is computed and is included in the Semiannual Loan Payment. The Department will use Grant Allocation Assessment moneys for making grants to financially disadvantaged small communities pursuant to Section 403.1835 of the Florida Statutes.
- (6) "Gross Revenues" shall mean all income or earnings received by the Local Government from the ownership or operation of its Water and Sewer Systems, including investment income, all as calculated in accordance with generally accepted accounting principles. Gross Revenues shall not include proceeds from the sale or other disposition of any part of the Water or Sewer System, condemnation

awards or proceeds of insurance, except use and occupancy or business interruption insurance, received with respect to the Water or Sewer System.

(7) "Loan" shall mean the amount of money to be loaned pursuant to this Agreement and subsequent amendments.

(8) "Loan Application" shall mean the completed form which provides all information required to support obtaining construction loan financial assistance.

(9) "Loan Debt Service Account" shall mean an account, or a separately identified component of a pooled cash or liquid account, with a Depository established by the Local Government for the purpose of accumulating Monthly Loan Deposits and making Semiannual Loan Payments.

(10) "Loan Repayment Reserve Account" or "Loan Repayment Reserve" shall mean the account into which will be deposited the amount set aside to pay temporary and unexpected deficiencies, if any, in the Semiannual Loan Payment.

(11) "Loan Service Fee" shall mean an origination fee which shall be paid to the Department by the Local Government.

(12) "Monthly Loan Deposit" shall mean the monthly deposit to be made by the Local Government to the Loan Debt Service Account.

(13) "Operation and Maintenance Expense" shall mean the costs of operating and maintaining the Water and Sewer Systems determined pursuant to generally accepted accounting principles, exclusive of interest on any debt payable from Gross Revenues, depreciation, and any other items not requiring the expenditure of cash.

(14) "Pledged Revenues" shall mean the specific revenues pledged as security for repayment of the Loan and shall be the [* name applicable revenues] Gross Revenues derived yearly from the operation of the Water and Sewer Systems after payment of the Operation and Maintenance Expense and the satisfaction of all yearly payment obligations on account of [* If applicable] the Senior Revenue Obligations and any senior obligations issued pursuant to Section 7.02 of this Agreement.

(15) "Project" shall mean the works financed by this Loan and shall consist of furnishing all labor, materials, and equipment to construct the [* brief description or name of project] in accordance with the plans and specifications accepted by the Department for the following contracts:

(a) (* title).

(b) (* title). [* If applicable] This contract includes installation of [equipment], which will be furnished by the contract listed under (c), below.

(c) (* title). [* If applicable] This contract is for purchasing [equipment], which will be installed by the contract listed under (b), above.

(d) (* title).

The Project is in agreement with the _____ Facilities Plan, dated _____ [* include other studies if applicable]. Approval of this Project is provided by the Florida Finding of No Significant Impact dated _____

_____. [* If applicable.] This Project is a Capitalization Grant Project as defined in Chapter 62-503, Florida Administrative Code.

(16) "Semiannual Loan Payment" shall mean the payment due from the Local Government to the Department at six-month intervals, and it is comprised of principal, interest, and Grant Allocation Assessment. In addition, the Loan Service Fee and all associated interest are deducted from the first two payments.

(17) [* Include if applicable] "Senior Revenue Obligations" shall mean the following debt obligations:

(a) (* Name), Florida, Water and Sewer System Revenue Refunding Bonds, Series 19 _____, issued in the amount of \$ _____, pursuant to Ordinance Resolution No. _____; and

(b) (* Name), Florida, Water and Sewer System Revenue Bonds, Series 19 _____, issued in the amount of \$ _____, pursuant to Ordinance Resolution No. _____; and

(c) Additional bonds issued on a parity with the bonds identified above pursuant to Section _____ of Ordinance Resolution No. _____; and

(d) Any refunding bonds issued to refund the obligations identified above provided such bonds shall not increase annual debt service during the repayment period of this Loan.

(18) "Sewer System" shall mean all facilities owned by the Local Government for collection, transmission, treatment and reuse of wastewater and its residuals.

(19) "Water System" shall mean all facilities owned by the Local Government for supplying and distributing water for residential, commercial, industrial, and governmental use.

1.02. CORRELATIVE WORDS.

Words of the masculine gender shall be understood to include correlative words of the feminine and neuter genders. Unless the context shall otherwise indicate, the singular shall include the plural and the word "person" shall include corporations and associations, including public bodies, as well as natural persons.

ARTICLE II - WARRANTIES, REPRESENTATIONS AND COVENANTS

2.01. WARRANTIES, REPRESENTATIONS AND COVENANTS.

The Local Government warrants, represents and covenants that:

(1) The Local Government has full power and authority to enter into this Agreement and to comply with the provisions hereof.

(2) The Local Government currently is not the subject of bankruptcy, insolvency, or reorganization proceedings and is not in default of, or otherwise subject to, any agreement or any law, administrative regulation, judgment, decree, note, resolution, charter or ordinance which would currently restrain or enjoin it from entering into, or complying with, this Agreement.

(3) There is no material action, suit, proceeding, inquiry or investigation, at law or in equity, before any court or public body, pending or, to the best of the Local Government's knowledge, threatened, which seeks to restrain or enjoin the Local Government from entering into or complying with this Agreement.

(4) All permits, real property interests, and approvals required as of the date of this Agreement have been obtained for construction and use of the Project. The Local Government knows of no reason why any future required permits or approvals are not obtainable.

(5) The Local Government shall undertake the Project on its own responsibility, to the extent permitted by law.

(6) To the extent permitted by law, the Local Government shall release and hold harmless the State, its officers, members, and employees from any claim arising in connection with the Local Government's actions or omissions in its planning, engineering, administrative, and construction activities financed by this Loan or its operation of the Project.

(7) All Local Government representations to the Department, pursuant to the Loan Application and Agreement, were true and accurate as of the date such representations were made. The financial information delivered by the Local Government to the Department was current and correct as of the date such information was delivered. The Local Government shall comply with Chapter 62-503, Florida Administrative Code, and all applicable State and Federal laws, rules, and regulations which are identified in the Loan Application or Agreement [* If Cap Grant Project.], including Items (o) through (v) under Part IV(2) of the Loan Application. To the extent that any assurance, representation, or covenant requires a future action, the Local Government shall take such action as is necessary for compliance.

(8) The Local Government shall maintain records using Generally Accepted Governmental Accounting Standards established by the Governmental Accounting Standards Board. As part of its bookkeeping system, the Local Government shall keep accounts of the Water and Sewer Systems separate from all other accounts and it shall keep accurate records of all revenues, expenses, and expenditures relating to the Water and Sewer Systems, and of the Pledged Revenues, Loan disbursement receipts, Loan Debt Service Account, and Loan Repayment Reserve Account.

(9) In the event the anticipated Pledged Revenues are shown by the Local Government's annual budget to be insufficient to make the Semiannual Loan Payments for such Fiscal Year when due, the Local Government shall include in such budget other legally available funds which will be sufficient, together with the Pledged Revenues, to make the Semiannual Loan Payments. Such other legally available funds shall be budgeted in the regular annual governmental budget and designated for the purpose provided by this Subsection, and the Local Government shall collect such funds for application as provided herein. The Local Government shall notify the Department immediately in writing of any such budgeting of other legally available funds. Nothing in this covenant shall be construed as creating a pledge, lien, or charge upon any such other legally available funds; requiring the Local Government to levy or appropriate ad valorem tax revenues; or preventing the Local Government from pledging to the payment of any bonds or other obligations all or any part of such other legally available funds.

(10) Each year, beginning three months before the first Semiannual Loan Payment and ending with the year during which the final Loan repayment is made, the Local Government's Authorized Representative or its chief financial officer shall submit, pursuant to the schedule established in Section 10.07, a certification that: (a) Pledged Revenue collections satisfy, on a pro rata basis, the rate coverage requirement; (b) the Loan Debt Service Account contains the funds required; (c) the Loan Repayment Reserve Account contains the funds required; and (d) insurance, including that issued through

the National Flood Insurance Program authorized under 42 U.S.C. secs. 4001-4128 when applicable, in effect for the facilities generating the Pledged Revenues, adequately covers the customary risks to the extent that such insurance is available.

(11) Pursuant to Section 216.347 of the Florida Statutes, the Local Government shall not use the Loan proceeds for the purpose of lobbying the Florida Legislature, the Judicial Branch, or a State agency.

(12) The Local Government agrees to construct the Project in accordance with the Project schedule. Delays incident to strikes, riots, acts of God, and other events beyond the reasonable control of the Local Government are excepted. If for any reason construction is not completed as scheduled, there shall be no resulting diminution or delay in the Semiannual Loan Payment or the Monthly Loan Deposit or funding of the Loan Repayment Reserve Account.

(13) The Local Government covenants that this Agreement is entered into for the purpose of constructing, refunding, or refinancing the Project which will in all events serve a public purpose. The Local Government covenants that it will, under all conditions, complete and operate the Project to fulfill the public need.

(14) [* Include for refinancing loans.]The proceeds of any indebtedness, which will be refunded or refinanced by this loan, were used for the construction of this Project. Refinancing shall be in the proportion of the ratio of completed allowable construction work to the total construction work originally financed and shall be limited to unretired debt principal, excluding any reserves such as for debt service.

2.02. LEGAL AUTHORIZATION.

Upon signing this Agreement, the Local Government's legal counsel hereby expresses the opinion, subject to laws affecting the rights of creditors generally, that:

(1) This Agreement has been duly authorized by the Local Government and shall constitute a valid and legal obligation of the Local Government enforceable in accordance with its terms upon execution by both parties; and

(2) This Agreement specifies the revenues pledged for repayment of the Loan, and the pledge is valid and enforceable.

2.03. AUDIT AND MONITORING REQUIREMENTS.

The Local Government agrees to the following audit and monitoring requirements.

(1) The financial assistance authorized pursuant to this Loan Agreement consists of following:

Federal Resources, Including State Match, Awarded to the Recipient Pursuant to this Agreement Consist of the Following:					
Federal Program Number	Federal Agency	CFDA Number	CFDA Title	Funding Amount	State Appropriation Category
CS120001-010	EPA	66.458	Capitalization Grants for State Revolving Funds	\$	140131

(2) Audits.

(a) In the event that the Local Government expends \$300,000 or more in Federal awards in its fiscal year, the Local Government must have a single or program-specific audit conducted in accordance with the provisions of OMB Circular A-133, as revised. Subsection 2.03(1) of this Agreement indicates that Federal funds are awarded through the Department of Environmental Protection by this Agreement. In determining the Federal awards expended in its fiscal year, the Local Government shall consider all sources of Federal awards, including Federal resources received from the Department of Environmental Protection. The determination of amounts of Federal awards expended should be in accordance with the guidelines established by OMB Circular A-133, as revised. An audit of the Local Government conducted by the Auditor General in accordance with the provisions of OMB Circular A-133, as revised, will meet the requirements of this part.

(b) In connection with the audit requirements addressed in the preceding paragraph (a), the Local Government shall fulfill the requirements relative to auditee responsibilities as provided in Subpart C of OMB Circular A-133, as revised.

(c) If the Local Government expends less than \$300,000 in Federal awards in its fiscal year, an audit conducted in accordance with the provisions of OMB Circular A-133, as revised, is not required. In the event that the Local Government expends less than \$300,000 in Federal awards in its fiscal year and elects to have an audit conducted in accordance with the provisions of OMB Circular A-133, as revised, the cost of the audit must be paid from non-Federal resources (i.e., the cost of such an audit must be paid from Local Government resources obtained from other than Federal entities).

(d) The Local Government may access information regarding the Catalog of Federal Domestic Assistance (CFDA) via the internet at <http://aspe.os.dhhs.gov/cfda>.

(3) Report Submission.

(a) Copies of reporting packages for audits conducted in accordance with OMB Circular A-133, as revised, and required by Subsection 2.03(2) of this Agreement shall be submitted, when required by Section .320 (d), OMB Circular A-133, as revised, by or on behalf of the Local Government directly to each of the following:

- (i) The Department of Environmental Protection at each of the following addresses:

Don W. Berryhill, P.E., Chief
Bureau of Water Facilities Funding
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 3505
Tallahassee, Florida 32399-2400

Joe Aita, Audit Director
Office of the Inspector General
Florida Department of Environmental Protection
2600 Blair Stone Road, MS 40
Tallahassee, Florida 32399-2400

- (ii) The Federal Audit Clearinghouse designated in OMB Circular A-133, as revised (the number of copies required by Sections .320 (d)(1) and (2), OMB Circular A-133, as revised, should be submitted to the Federal Audit Clearinghouse), at the following address:

Federal Audit Clearinghouse
Bureau of the Census
1201 East 10th Street
Jeffersonville, IN 47132

- (iii) Other Federal agencies and pass-through entities in accordance with Sections .320(e) and (f), OMB Circular A-133, as revised.

(b) Pursuant to Section .320(f), OMB Circular A-133, as revised, the Local Government shall submit a copy of the reporting package described in Section .320(c), OMB Circular A-133, as revised, and any management letters issued by the auditor, to the Department of Environmental Protection at the two addresses listed under Subsection 2.03(3)(a) of this Agreement.

(c) Any reports, management letters, or other information required to be submitted to the Department of Environmental Protection pursuant to this Agreement shall be submitted timely in accordance with OMB Circular A-133, Florida Statutes, or Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, as applicable.

(d) Local Governments, when submitting financial reporting packages to the Department of Environmental Protection for audits done in accordance with OMB Circular A-133, or Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, should indicate the date that the reporting package was delivered to the Local Government in correspondence accompanying the reporting package.

(4) Project-Specific Audit.

Within 12 months after the amendment establishing final Project costs, the Local Government shall submit to the Department a Project-specific audit report for the Loan related revenues and expenditures. The audit shall address Loan disbursements received, Project expenditures, and compliance with Loan Agreement covenants. The Local Government shall cause the auditor to notify the Department immediately if anything comes to the auditor's attention during the examination of records that would constitute a default under the Loan Agreement. The audit findings shall set aside or question any costs that are unallowable under Chapter 62-503, Florida Administrative Code. A final determination of whether such costs are allowed shall be made by the Department.

(5) Record Retention.

The Local Government shall retain sufficient records demonstrating its compliance with the terms of this Agreement for a period of five years from the date the audit report is issued, and shall allow the Department of Environmental Protection, or its designee, Comptroller, or Auditor General access to such records upon request. The Local Government shall ensure that audit working papers are made available to the Department of Environmental Protection, or its designee, Comptroller, or Auditor General upon request for a period of three years from the date the audit report is issued, unless extended in writing by the Department of Environmental Protection.

(6) Monitoring.

In addition to reviews of audits conducted in accordance with OMB Circular A-133, as revised (see audit requirements above), monitoring procedures may include, but not be limited to, on-site visits by Department staff, limited scope audits as defined by OMB Circular A-133, as revised, and/or other procedures. By entering into this Agreement, the Local Government agrees to comply and cooperate with

any monitoring procedures/processes deemed appropriate by the Department of Environmental Protection. In the event the Department of Environmental Protection determines that a limited scope audit of the Local Government is appropriate, the Local Government agrees to comply with any additional instructions provided by the Department to the Local Government regarding such audit. The Local Government further agrees to comply and cooperate with any inspections, reviews, investigations, or audits deemed necessary by the Comptroller or Auditor General.

ARTICLE III - LOAN REPAYMENT ACCOUNTS

3.01. LOAN DEBT SERVICE ACCOUNT.

The Local Government shall establish a Loan Debt Service Account with a Depository and begin making Monthly Loan Deposits no later than the date set forth for such action in Section 10.07 of this Agreement.

Beginning six months prior to each Semiannual Loan Payment, the Local Government shall make six Monthly Loan Deposits. The first five deposits each shall be at least equal to one-sixth of the Semiannual Loan Payment. The sixth Monthly Loan Deposit shall be at least equal to the amount required to make the total on deposit in the Loan Debt Service Account equal to the Semiannual Loan Payment amount, taking into consideration investment earnings credited to the account pursuant to Section 3.02.

Any month in which the Local Government fails to make a required Monthly Loan Deposit, the Local Government's chief financial officer shall notify the Department of such failure. In addition, the Local Government agrees to budget, by amendment if necessary, payment to the Department from other legally available funds all sums becoming due before the same become delinquent. This requirement shall not be construed to give superiority to the Department's claim on any revenues over prior claims of general creditors of the Local Government, nor shall it be construed to give the Department the power to require the Local Government to levy and collect any revenues other than Pledged Revenues.

3.02. INVESTMENT OF LOAN DEBT SERVICE ACCOUNT MONEYS.

Moneys on deposit in the Loan Debt Service Account shall be invested pursuant to the laws of the State of Florida. Such moneys may be pooled for investment purposes. The maturity or redemption date of investments shall be not later than the date upon which such moneys may be needed to make Semiannual Loan Payments. The investment earnings shall be credited to the Loan Debt Service Account and applied toward the Monthly Loan Deposit requirements.

3.03. LOAN DEBT SERVICE ACCOUNT WITHDRAWALS.

The withdrawal of moneys from the Loan Debt Service Account shall be for the sole purpose of making the Semiannual Loan Payment or for discharging the Local Government's obligations pursuant to Section 8.01.

3.04. LOAN REPAYMENT RESERVE ACCOUNT.

A Loan Repayment Reserve Account shall be established with a Depository. The Local Government shall deposit into the account the reserve amount identified in Section 10.07 of this Agreement by the date set forth therein.

3.05. LOAN REPAYMENT RESERVE WITHDRAWALS.

The Loan Repayment Reserve Account shall be used by the Local Government to cure a temporary and unexpected deficiency in any Semiannual Loan Payment. The Local Government's chief financial officer shall promptly notify the Department upon any withdrawal from the account. Any unused portion of the Loan Repayment Reserve Account shall be applied to the final Semiannual Loan Payment(s) or used for discharging the Local Government's obligations pursuant to Section 8.01.

3.06. RESTORATION OF LOAN REPAYMENT RESERVE ACCOUNT.

A default causing the Local Government to use the Loan Repayment Reserve Account or the use of the account to prevent default shall result in the Local Government being responsible for making special deposits to restore the account. Special restoration deposits shall be made from the first moneys legally available to the Local Government for such purpose.

3.07. INVESTMENT OF LOAN REPAYMENT RESERVE MONEYS.

Moneys on deposit in the Loan Repayment Reserve Account shall be invested pursuant to the laws of the State of Florida. Such moneys may be pooled for investment purposes. The maturity or redemption date of investments shall be not later than the date set for the final Semiannual Loan Payment provided, however, that moneys must be available for withdrawal, if necessary, pursuant to Section 3.05 of this Agreement. All investment income and earnings shall be credited to the Loan Repayment Reserve Account.

3.08. ASSETS HELD IN TRUST.

The assets in each of the accounts created under this Loan Agreement shall be held in trust for the purposes provided herein and used only for the purposes and in the manner prescribed in this Agreement; and, pending such use, said assets shall be subject to a lien and charge in favor of the Department.

ARTICLE IV - PROJECT INFORMATION

4.01. PROJECT CHANGES.

Project changes prior to bid opening shall be made by addendum to plans and specifications. Changes after bid opening shall be made by change order. The Local Government shall submit all addenda and all change orders to the Department. Any change order which increases the contract amount by more than one hundred thousand dollars (\$100,000) or which alters the approved Project scope or which involves a procurement method that is not consistent with the approved method or which involves deletion or substantive modification of any requirement of Chapter 62-503, Florida Administrative Code, requires an eligibility determination by the Department.

4.02. TITLE TO PROJECT SITE.

The Local Government shall have an interest in real property sufficient for the construction and location of the Project free and clear of liens and encumbrances which would impair the usefulness of such sites for the intended use. [* If applicable.] The Authorized Representative shall submit a clear site title certification by the date set forth in Section 10.07 of this Agreement.

4.03. PERMITS AND APPROVALS.

The Local Government shall have obtained, prior to the Department's authorization to award construction contracts, all permits and approvals required for construction of the Project or portion of the Project funded under this Agreement.

4.04. ENGINEERING SERVICES.

A professional engineer, registered in the State of Florida, shall be employed by, or under contract with, the Local Government to oversee construction.

4.05. PROHIBITION AGAINST ENCUMBRANCES.

The Local Government is prohibited from selling, leasing, or disposing of any part of the Water or Sewer System which would materially reduce operational integrity or Gross Revenues so long as this Agreement, including any amendment thereto, is in effect unless the written consent of the Department is first secured.

4.06. COMPLETION MONEYS.

In addition to the proceeds of this Loan, the Local Government covenants that it has obtained, or will obtain, sufficient moneys from other sources to complete construction and place the Project in operation on, or prior to, the date specified in Article X. Failure of the Department to approve additional financing shall not constitute a waiver of the Local Government's covenants to complete and place the Project in operation.

4.07. CLOSE-OUT.

The Department shall conduct a final inspection of the Project and Project records. Following the inspection, deadlines for submitting additional disbursement requests, if any, shall be established, along with deadlines for uncompleted Loan requirements, if any. Deadlines shall be incorporated into the Loan Agreement by amendment. The Loan principal shall be reduced by any excess over the amount required to pay all approved costs. As a result of such adjustment, the Semiannual Loan Payment shall be reduced accordingly, as addressed in Section 10.05.

4.08. LOAN DISBURSEMENTS.

Disbursements shall be made only by the State Comptroller and only when the requests for such disbursements are accompanied by a Department certification that such withdrawals are proper expenditures. Disbursements shall be made directly to the Local Government for administrative and engineering allowances, reimbursement of the incurred construction costs and related services, and establishing a Loan Repayment Reserve Account. Disbursement of the allowances shall be made upon the Department's receipt of a disbursement request form. Disbursements for materials, labor, or services shall be made upon receipt of the following:

(1) A completed disbursement request form signed by the Authorized Representative. Such requests must be accompanied by sufficiently itemized summaries of the materials, labor, or services to identify the nature of the work performed; the cost or charges for such work; and the person providing the service or performing the work.

(2) A certification signed by the Authorized Representative as to the current estimated costs of the Project; that the materials, labor, or services represented by the invoice have been satisfactorily purchased, performed, or received and applied to the project; that all funds received to date have been applied toward completing the Project; and that under the terms and provisions of the contracts, the Local Government is required to make such payments.

(3) A certification by the engineer responsible for overseeing construction stating that equipment, materials, labor and services represented by the construction invoices have been satisfactorily purchased, or received, and applied to the Project in accordance with construction contract documents; stating that payment is in accordance with construction contract provisions; stating that construction, up to the point of the requisition, is in compliance with the contract documents; and identifying all additions or deletions to the Project which have altered the Project's performance standards, scope, or purpose since the issue of the Department construction permit.

(4) Such other certificates or documents by engineers, attorneys, accountants, contractors, or suppliers as may reasonably be required by the Department.

ARTICLE V - RATES AND USE OF THE WATER AND SEWER SYSTEMS

5.01. RATE COVERAGE.

The Local Government shall maintain rates and charges for the services furnished by the Water and Sewer Systems which [* Include as applicable -- together with impact fees, connection fees, and Special Assessments] will be sufficient to provide, in each Fiscal Year, Pledged Revenues equal to or exceeding (*) 1.15 times the sum of the Semiannual Loan Payments due in such Fiscal Year. In addition, the Local Government shall satisfy the coverage requirements of all senior and parity debt obligations.

5.02. NO FREE SERVICE.

The Local Government shall not permit connections to, or furnish any services afforded by, the Water or Sewer System without making a charge therefor based on the Local Government's uniform schedule of rates, fees, and charges.

5.03. MANDATORY CONNECTIONS.

The Local Government shall adopt, as necessary, and enforce requirements, consistent with applicable laws, for the owner, tenant or occupant of each building located on a lot or parcel of land which is served, or may reasonably be served, by the Sewer System to connect such building to the Sewer System.

5.04. NO COMPETING SERVICE.

The Local Government shall not allow any person to provide any services which would compete with the Water or Sewer System so as to adversely affect Gross Revenues.

5.05. MAINTENANCE OF THE WATER AND SEWER SYSTEMS.

The Local Government shall operate and maintain the Water and Sewer Systems in a proper, sound and economical manner and shall make all necessary repairs, renewals and replacements.

5.06. ADDITIONS AND MODIFICATIONS.

The Local Government may make any additions, modifications or improvements to the Water and Sewer Systems which it deems desirable and which do not materially reduce the operational integrity of any part of the Water or Sewer System. All such renewals, replacements, additions, modifications and improvements shall become part of the Water and Sewer Systems.

5.07. COLLECTION OF REVENUES.

The Local Government shall use its best efforts to collect all rates, fees and other charges due to it. The Local Government shall establish liens on premises served by the Water or Sewer System for the amount of all delinquent rates, fees and other charges where such action is permitted by law. The Local Government shall, to the full extent permitted by law, cause to discontinue the services of the Water and Sewer Systems and use its best efforts to shut off water service furnished to persons who are delinquent beyond customary grace periods in the payment of Water and Sewer System rates, fees and other charges.

ARTICLE VI - DEFAULTS AND REMEDIES

6.01. EVENTS OF DEFAULT.

Each of the following events is hereby declared an event of default:

(1) Failure to fund the Loan Repayment Reserve Account or to make any Monthly Loan Deposit or to make any installment of the Semiannual Loan Payment when it is due and such failure shall continue for a period of 30 days.

(2) Except as provided in Subsections 6.01(1) and 6.01(7), failure to comply with the provisions of this Agreement or failure in the performance or observance of any of the covenants or actions required by this Agreement and such failure shall continue for a period of 60 days after written notice thereof to the Local Government by the Department.

(3) Any warranty, representation or other statement by, or on behalf of, the Local Government contained in this Agreement or in any information furnished in compliance with, or in reference to, this Agreement, which is false or misleading.

(4) An order or decree entered, with the acquiescence of the Local Government, appointing a receiver of any part of the Water or Sewer System or Gross Revenues thereof; or if such order or decree, having been entered without the consent or acquiescence of the Local Government, shall not be vacated or discharged or stayed on appeal within 60 days after the entry thereof.

(5) Any proceeding instituted, with the acquiescence of the Local Government, for the purpose of effecting a composition between the Local Government and its creditors or for the purpose of adjusting the claims of such creditors, pursuant to any federal or state statute now or hereafter enacted, if the claims of such creditors are payable from Gross Revenues of the Water or Sewer System.

(6) Any bankruptcy, insolvency or other similar proceeding instituted by, or against, the Local Government under federal or state bankruptcy or insolvency law now or hereafter in effect and, if instituted against the Local Government, is not dismissed within 60 days after filing.

(7) Failure of the Local Government to give immediate written notice of default to the Department and such failure shall continue for a period of 30 days.

6.02. REMEDIES.

Upon any event of default and subject to the rights of others having prior liens on the Pledged Revenues, the Department may enforce its rights by any of the following remedies:

(1) By mandamus or other proceeding at law or in equity, cause to establish rates and collect fees and charges for use of the Water and Sewer Systems, and to require the Local Government to fulfill this Agreement.

(2) By action or suit in equity, require the Local Government to account for all moneys received from the Department or from the ownership of the Water and Sewer Systems and to account for the receipt, use, application, or disposition of the Pledged Revenues.

(3) By action or suit in equity, enjoin any acts or things which may be unlawful or in violation of the rights of the Department.

(4) By applying to a court of competent jurisdiction, cause to appoint a receiver to manage the Water and Sewer Systems, establish and collect fees and charges, and apply the revenues to the reduction of the obligations under this Agreement.

(5) By certifying to the Auditor General and the Comptroller delinquency on loan repayments, the Department may intercept the delinquent amount plus a penalty from any unobligated funds due to the Local Government under any revenue or tax sharing fund established by the State, except as otherwise provided by the State Constitution. The Department may impose a penalty in an amount not to exceed an interest rate of 18 percent per annum on the amount due in addition to charging the cost to handle and process the debt. Penalty interest shall accrue on any amount due and payable beginning on the 30th day following the date upon which payment is due.

(6) By notifying financial market credit rating agencies and potential creditors.

(7) By suing for payment of amounts due, or becoming due, with interest on overdue payments together with all costs of collection, including attorneys' fees.

(8) By accelerating the repayment schedule or increasing the interest rate on the unpaid principal of the Loan to as much as 3.333 times the Loan interest rate for a default under Subsection 6.01(1).

6.03. DELAY AND WAIVER.

No delay or omission by the Department to exercise any right or power accruing upon event of default shall impair any such right or power or shall be construed to be a waiver of any such default or acquiescence therein, and every such right and power may be exercised as often as may be deemed expedient. No waiver or any default under this Agreement shall extend to or affect any subsequent event of default, whether of the same or different provision of this Agreement, or shall impair consequent rights or remedies.

ARTICLE VII - THE PLEDGED REVENUES

7.01. SUPERIORITY OF THE PLEDGE TO THE DEPARTMENT.

From and after the effective date of this Agreement, the Department shall have a lien on the Pledged Revenues prior and superior to any other lien, pledge or assignment with the following exception. All obligations of the Local Government under this Agreement shall be junior, inferior, and subordinate in all respects in right of payment and security to [* If applicable] the Senior Revenue Obligations defined in Section 1.01 of this Agreement and to any additional senior obligations issued with the Department's consent pursuant to Section 7.02. Any of the Pledged Revenues may be released from the lien on such Pledged Revenues in favor of the Department if the Department makes a determination, based upon facts deemed sufficient by the Department, that the remaining Pledged Revenues will, in each Fiscal Year, equal or exceed (*) 1.15 times the debt service coming due in each Fiscal Year under the terms of this Agreement.

7.02. ADDITIONAL DEBT OBLIGATIONS.

The Local Government may issue additional debt obligations on a parity with, or senior to, the lien of the Department on the Pledged Revenues provided the Department's written consent is obtained. Such consent shall be granted if the Local Government demonstrates at the time of such issuance that the Pledged Revenues, which may take into account reasonable projections of growth of the Water and Sewer Systems and revenue increases, plus revenues to be pledged to the additional proposed debt obligations will, during the period of time Semiannual Loan Payments are to be made under this Agreement, equal or exceed (*) 1.15 times the annual combined debt service requirements of this Agreement and the obligations proposed to be issued by the Local Government and will satisfy the coverage requirements of all other debt obligations secured by the Pledged Revenues. [* If applicable] However, no such consent is required with respect to issuance of Senior Revenue Obligations as defined in Section 1.01.

ARTICLE VIII - GENERAL PROVISIONS

8.01. DISCHARGE OF OBLIGATIONS.

All payments required to be made under this Agreement shall be cumulative and any deficiencies in any Fiscal Year shall be added to the payments due in the succeeding year and all years thereafter until fully paid. Payments shall continue to be secured by this Agreement until all of the payments required shall be fully paid to the Department. If at any time the Local Government shall have paid, or shall have made provision for the timely payment of, the entire principal amount of the Loan, Loan Service Fee, related interest and Grant Allocation Assessment, the pledge of, and lien on, the Pledged Revenues to the Department shall be no longer in effect. Deposit of sufficient cash, securities, or investments, authorized by law, from time to time, may be made to effect defeasance of this Loan. However, the deposit shall be made in irrevocable trust with a banking institution or trust company for the sole benefit of the Department. There shall be no penalty imposed by the Department for early retirement of this Loan.

8.02. PROJECT RECORDS AND STATEMENTS.

Books, records, reports, engineering documents, contract documents, and papers shall be available to the authorized representatives of the Department and the U.S. Environmental Protection Agency's Inspector General for inspection at any reasonable time after the Local Government has received a disbursement and before three (3) years have elapsed after the Department's final Project disbursement to the Local Government.

8.03. ACCESS TO PROJECT SITE.

The Local Government shall provide access to Project sites and administrative offices to authorized representatives of the Department at any reasonable time. The Local Government shall cause its engineers and contractors to cooperate during Project inspections, including making available working copies of plans and specifications and supplementary materials.

8.04. ASSIGNMENT OF RIGHTS UNDER AGREEMENT.

The Department may assign any part of its rights under this Agreement after notification to the Local Government. The Local Government shall not assign rights created by this Agreement without the written consent of the Department.

8.05. AMENDMENT OF AGREEMENT.

This Agreement may be amended in writing, except that no amendment shall be permitted which is inconsistent with statutes, rules, regulations, executive orders, or written agreements between the Department and the U.S. Environmental Protection Agency. This Agreement may be amended after all construction contracts are executed to re-establish the Project cost, Loan amount, Project schedule, and Semiannual Loan Payment amount. A final amendment establishing the final Project costs shall be completed after the Department's final inspection of the Project records.

8.06. ANNULMENT OF AGREEMENT.

The Department may unilaterally annul this Agreement if the Local Government has not drawn any of the Loan proceeds [*Whichever date is earlier - Option 1] within eighteen months after the effective date of this Agreement [* Option 2] by the date set in Section 10.07 for establishing the Loan Debt Service Account. If the Department unilaterally annuls this Agreement, the Department will provide written notification to the Local Government.

8.07. SEVERABILITY CLAUSE.

If any provision of this Agreement shall be held invalid or unenforceable, the remaining provisions shall be construed and enforced as if such invalid or unenforceable provision had not been contained herein.

ARTICLE IX - CONSTRUCTION CONTRACTS AND INSURANCE

9.01. AUTHORIZATION TO AWARD CONSTRUCTION CONTRACTS.

The following documentation is required to receive the Department's authorization to award construction contracts:

- (1) Proof of advertising.
- (2) Award recommendation, bid proposal, and bid tabulation (certified by the responsible engineer).
- (3) Certified copy of the Local Government's tentative award resolution.

(4) Certification of compliance with the conditions of the Department's approval of competitively or non-competitively negotiated procurement, if applicable.

(5) [If applicable] Certification by the Authorized Representative that affirmative steps were taken to encourage Minority and Women's Business Enterprises participation in Project construction.

(6) [If applicable] Current certifications for Minority and Women's Business Enterprises participating in the contract. If the goals as stated in the plans and specifications are not met, documentation of actions taken shall be submitted.

9.02. SUBMITTAL OF CONSTRUCTION CONTRACT DOCUMENTS.

After the Department's authorization to award construction contracts has been received, the Local Government shall submit contractor insurance certifications and notices to proceed with construction.

9.03. INSURANCE REQUIRED.

The Local Government shall cause the Project, as each part thereof is certified by the engineer responsible for overseeing construction as completed, and the Water and Sewer Systems (hereafter referred to as "Revenue Producing Facilities") to be insured by an insurance company or companies licensed to do business in the State of Florida against such damage and destruction risks as are customary for the operation of Revenue Producing Facilities of like size, type and location to the extent such insurance is obtainable from time to time against any one or more of such risks.

The proceeds of insurance policies received as a result of damage to, or destruction of, the Project or the other Revenue Producing Facilities, shall be used to restore or replace damaged portions of the facilities. If such proceeds are insufficient, the Local Government shall provide additional funds to restore or replace the damaged portions of the facilities. Repair, construction or replacement shall be promptly completed.

ARTICLE X - DETAILS OF FINANCING

10.01. PRINCIPAL AMOUNT OF LOAN.

The estimated principal amount of the Loan is \$_____, which consists of \$_____ to be disbursed to the Local Government and \$_____ of Capitalized Interest.

Capitalized Interest is not disbursed to the Local Government, but is amortized via periodic Loan repayments to the Department as if it were actually disbursed. Capitalized Interest is computed at the combined rate of interest and Grant Allocation Assessment, or rates, set for the Loan. It accrues and is compounded annually from the time when disbursements are made until six months before the first Semiannual Loan Payment is due. Capitalized Interest is estimated prior to establishing the schedule of actual disbursements.

[* If applicable] This project is a Segmented Project. Additional State Revolving Fund financing for the Project is dependent upon the availability of additional funds. The current funding limitations and future funding priority entitlement for Segmented Projects are set forth in the Chapter 62-503 of the Florida Administrative Code.

10.02. LOAN SERVICE FEE.

The Loan Service Fee is \$_____ for the Loan amount authorized to date. The fee represents two percent of the Loan amount excluding the Loan Repayment Reserve and Capitalized Interest amounts; that is, two percent of \$_____. An additional Loan Service Fee amount will be assessed for any additional funding provided by amendment to the Agreement. The fee shall be adjusted downward if adjustment of Project costs results in a Loan decrease, provided that the decrease amendment is executed before the first Semiannual Loan Payment due date.

Interest shall accrue on the Loan Service Fee at the combined rate of interest and Grant Allocation Assessment, or rates, set for the Loan until the fee is paid. Loan Service Fee interest shall be compounded annually from the effective date of the Loan until six months before the first Semiannual Loan Payment is due at which time it is capitalized. The estimated Loan Service Fee capitalized interest is \$_____.

10.03. INTEREST AND GRANT ALLOCATION ASSESSMENT RATES.

The combined rate of interest and Grant Allocation Assessment on the unpaid principal of the Loan amount specified in Section 10.01 is _____ percent per annum. Individually, the interest rate is _____ percent per annum and the Grant Allocation Assessment rate is _____ percent per annum. However, if this Agreement is not executed by the Local Government and returned to the Department before _____ 1, 2002, the interest and Grant Allocation Assessment rates may be adjusted. New interest and Grant Allocation Assessment rates shall be established for any funds provided by amendment to this Agreement.

10.04. LOAN TERM.

The Loan shall be repaid in 40 Semiannual Loan Payments.

10.05. REPAYMENT SCHEDULE.

The Semiannual Loan Payment shall be computed based upon the principal amount of the Loan plus the Loan Service Fee and Loan Service Fee capitalized interest and the principle of level debt service. The Department will deduct the Loan Service Fee and all associated interest from the first two payments. The Semiannual Loan Payment amount may be adjusted, by amendment of this Agreement, based upon revised information. After the final disbursement of Loan proceeds, the Semiannual Loan Payment shall be based upon the actual Project costs and actual dates and amounts of disbursements, taking into consideration any previous payments. Actual Project costs shall be established after the Department's inspection of the completed Project and associated records.

Each Semiannual Loan Payment shall be in the amount of \$_____ until the payment amount is adjusted by amendment. The interest and Grant Allocation Assessment portions of each Semiannual Loan Payment shall be computed on the unpaid balance of the principal amount of the Loan, which principal includes Capitalized Interest. Interest (at the combined rate of Loan interest and Grant Allocation Assessment) also shall be computed on the unpaid balance of the Loan Service Fee and Loan Service Fee capitalized interest. The interest and Grant Allocation Assessment on the unpaid balance shall be computed as of the due date of each Semiannual Loan Payment.

Semiannual Loan Payments shall be received by the Department beginning on _____ and semiannually thereafter on _____ 15 and _____ 15 of each year until all amounts due hereunder have been fully paid. Funds transfer shall be made by electronic means.

The Semiannual Loan Payment amount is based on the total amount owed of \$_____, which consists of the Loan principal plus the Loan Service Fee with its capitalized interest.

10.06. PROJECT COSTS.

The Local Government and the Department acknowledge that the actual Project costs have not been determined as of the effective date of this Agreement. Project cost adjustments may be made as a result of construction bidding or mutually agreed upon Project changes. An additional Loan Repayment Reserve Account deposit will be required for any additional funding provided by amendment to this Agreement. Capitalized Interest will be recalculated based on actual dates and amounts of Loan disbursements. If the Local Government receives other governmental financial assistance for this Project, the costs funded by such other governmental assistance will not be financed by this Loan. The Department shall establish the final Project costs after its final inspection of the Project records. Changes in Project costs may also occur as a result of the Local Government's Project audit or a Department audit. The Local Government agrees to the following estimates of Project costs:

PROJECT COSTS

CATEGORY	COST(\$)	AUTHORIZED LOAN AMOUNT(\$) TO DATE
Administrative Allowance		<i>Line items</i>
Engineering Allowance		<i>may vary</i>
Construction and Demolition		<i>based on</i>
Contingencies		<i>Actual</i>
Technical Services After Bid Opening	0	<i>Disbursements</i>
SUBTOTAL	0	0
Loan Repayment Reserve	0	0
SUBTOTAL (Disbursable Amount)	0	0
Capitalized Interest	0	0
TOTAL (Loan Principal Amount)	0	0

Loan proceeds for deposit in the Loan Repayment Reserve represent three percent of the Loan amount excluding the Capitalized Interest and Loan Repayment Reserve amounts; three percent of \$_____ equals \$_____ for the Loan amount authorized to date.

10.07. SCHEDULE.

The Local Government agrees by execution hereof:

- (1) Initiation of Project construction is scheduled for _____.
- (2) Completion of Project construction is scheduled for _____.
- (3) The Loan Repayment Reserve Account shall be established and \$_____ shall be deposited no later than _____.
- (4) The Loan Debt Service Account shall be established and Monthly Loan Deposits shall begin no later than _____.
- (5) [* Include statement if clear site certification has not been provided] A clear site title certification shall be submitted no later than _____. [* Construction close-out date]

(6) The initial annual certification required under Subsection 2.01(10) of this Agreement shall be due _____. Thereafter the certification shall be submitted no later than September 30 of each year until the final Semiannual Loan Payment is made.

(7) The first Semiannual Loan Payment in the amount of \$_____ shall be due _____.

[If applicable.] 10.08. SPECIAL CONDITIONS.

(1) [* A condition may concern a pending permit or reuse agreement, an atypical Loan Repayment Reserve, etc.]

(2)

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ARTICLE XI - EXECUTION OF AGREEMENT

This Loan Agreement WWG120(*2) shall be executed in three or more counterparts, any of which shall be regarded as an original and all of which constitute but one and the same instrument.

IN WITNESS WHEREOF, the Department has caused this Agreement to be executed on its behalf by the Secretary of the Department and the Local Government has caused this Agreement to be executed on its behalf by its Authorized Representative and by its affixed seal. The effective date of this Agreement shall be as set forth below by the Secretary of the Department.

for

(*1)

(*) Mayor

Attest

I attest to the opinion expressed in Section 2.02,
entitled Legal Authorization, and as to form and
legal sufficiency.

(*) City Clerk

(*) City Attorney

SEAL

for

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Secretary

Date

RESOLUTION Number

“A RESOLUTION OF City OF Name, FLORIDA, RELATING TO THE STATE REVOLVING FUND LOAN PROGRAM; MAKING FINDINGS; AUTHORIZING THE LOAN APPLICATION; AUTHORIZING THE LOAN AGREEMENT; ESTABLISHING PLEDGED REVENUES; DESIGNATING AUTHORIZED REPRESENTATIVES; PROVIDING ASSURANCE; PROVIDING FOR CONFLICTS, SEVERABILITY, AND EFFECTIVE DATE.”

WHEREAS, Florida Statutes provide for loans to local government agencies to finance the construction of water pollution control facilities; and

WHEREAS, Florida Administrative Code rules require authorization to apply for loans, to establish pledged revenues, to designate an authorized representative; to provide assurances of compliance with loan program requirements; and to enter into a loan agreement; and

WHEREAS, the State Revolving Fund loan priority list designates Project No. CS120Loan Number as eligible for available funding; and

WHEREAS, the City of Name, Florida, intends to enter into a loan agreement with the Department of Environmental Protection under the State Revolving Fund for project financing.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE City OF Name, FLORIDA, AS FOLLOWS:

SECTION I. The foregoing finding are incorporated herein by reference and made a part hereof.

SECTION II. The City of Name, Florida is authorized apply for a loan to finance the Project.

SECTION III. The revenues pledged for the repayment of the loan are net water and sewer utility system revenues after payment of debt service on the City's Series 19Year Water and Sewer System Utility Revenue Bonds and the Series 19Year Water and Sewer System Utility Refunding Revenue Bonds.

SECTION IV. The Mayor is hereby designated as the authorized representative to provide the assurances and commitments required by the loan application.

SECTION V. The Mayor is hereby designated as the authorized representative to execute the loan agreement which will become a binding obligation in accordance with its terms when signed by both parties. The Mayor is authorized to represent the City in carrying out the City's responsibilities under the loan agreement. The Mayor is authorized to delegate responsibility to appropriate City staff to carryout technical, financial, and administrative activities associated with the loan agreement.

SECTION VI. The legal authority for borrowing moneys to construct this Project is _____, Florida Statutes.

SECTION VII. Conflicts. All resolutions or part of Resolutions in conflict with any of the provisions of this Resolution are hereby repealed.

SECTION VIII. Severability. If any Section or portion of a Section of this Resolution proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other Section or part of this Resolution.

SECTION IX. Effective Date. This Resolution shall become effective immediately upon its passage and adoption.

PASSED and ADOPTED this Day day of Month, A.D.19Year.

ATTEST

APPROVED AS TO FORM AND LEGALITY

City Clerk

City Attorney

Mayor

SAMPLE LEGAL OPINION

Date

Don W. Berryhill, P.E., Chief
Bureau of Water Facilities Funding
2600 Blair Stone Road, M.S. 3505
Tallahassee, Florida 32399-2400

Re: Project Number CS120 _____
Project Name (e.g., Wastewater Treatment Facilities)

Dear Mr. Berryhill:

I am the duly appointed City Attorney for the City of Name. The City proposes to borrow \$Amount from the State Revolving Fund for improvements to the City's wastewater treatment plant. The loan will be secured by the net operating revenues of the City's water and sewer system and the pledged revenues are available to pledge. The City of Name has the legal authority to increase rates to ensure repayment of the loan.

The pledge on revenues is subject to a prior lien with the following issues:

- (1) City of Name, Florida Water and Sewer System Revenue Bonds, Series 19 ____.
- (2) City of Name, Florida Water and Sewer System Refunding Revenue Bonds, Series 19 ____.

Sincerely,

Name
Address

Notes: Actual revenues to be pledged to secure loan should be clearly identified.
Please state if there are no prior liens against the pledged revenues.

TAB 4

KEY LARGO WASTEWATER TREATMENT DISTRICT
Agenda Request Form

Meeting Date: March 30, 2005

Agenda Item No. 4

☐ PUBLIC HEARING

☐ RESOLUTION

☒ DISCUSSION

☐ BID/RFP AWARD

☐ GENERAL APPROVAL OF ITEM

☐ CONSENT AGENDA

☐ Other:

SUBJECT: Video Camera for Collection System

RECOMMENDED MOTION/ACTION: Discussion Only

Approved by General Manager C. J. [Signature]

Date: 3-24-05

Originating Department: General Manager	Costs: \$ Funding Source: Mo. Co. FEMA Match - Acct.	Attachments: Catalog pages of different types of video cameras
Department Review: <input type="checkbox"/> District Counsel <input checked="" type="checkbox"/> General Manager <u>C. J. [Signature]</u> <input type="checkbox"/> Finance <u>[Signature]</u>	<input type="checkbox"/> Engineering _____ <input type="checkbox"/> Clerk _____	Advertised: Date: _____ Paper: _____ <input checked="" type="checkbox"/> 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: The District will need to purchase a video camera sooner rather than later to inspect vacuum pits and collection systems of our current projects.

Resulting Board Action:

☐ Approved

☐ Tabled

☐ Disapproved

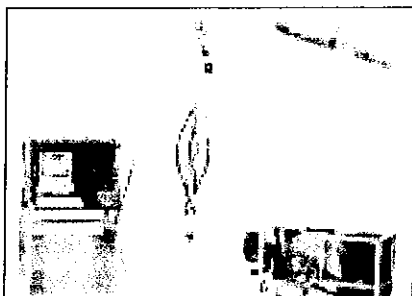
☐ Recommendation Revised

application
notes

Stock #	33102 33103 (p.181)	33100 33101 (p. 181)	69745, 69730 69746, 69731 69749, 69750 (p. 180)	33104 33105 (p. 181)	69743 69744 69751 (p. 180)	33239 33237 (p. 180)	33238 33236 (p. 180)
Pipe Size	11/4" - 6"	2" - 12"	2" - 12"	2" - 8"	2" - 10"	2" - 10"	8" - 24"
Camera Head	B & W	B & W	Color	Color	Color	Color	Color
VCR	Yes	Yes	Yes	Yes	No	No	No
Lux Rating	0.5	0.5	0.5	5	0.3	0.3	0.3
Electronic Iris	No	No	No	No	No	No	No
Lighting Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Cable Lengths	200'	325'	400'	325'	400'	200'	200'
Push Cable Storage	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Voltage 115AC/12DC	Dual	Dual	Dual	Dual	Dual	85-264 AC	85-264 AC
Locator & Transmitter	Option	Option	Option	Option	Yes	Option	Option
Picture Inverter	No	No	Yes	No	Yes	No	No
On-Screen Distance Counter	Yes	Yes	Yes	Yes	Yes	Option	Option
Screen Titler	Yes	Yes	Yes	Yes	Yes	No	No

Besides the obvious, price is a major consideration. As technology has improved over the last couple of years, the price of color models has decreased dramatically. With color being more competitively priced, the majority of cameras now sold are color.

Black & white cameras provide a crisper picture and lower lux (the amount of light required to obtain a picture rating). If your application requires determining why and where a line is blocked, a black & white camera can easily accomplish this. When looking for a hairline crack in clay tile, however, color would be the better choice. Color is best for identification and details when you need to know what exactly is in the pipe. For example, is the blockage grease, mud, or something else?

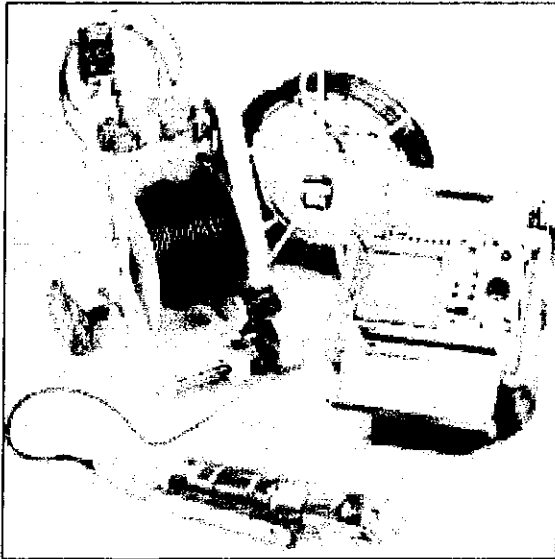


Lateral cameras are for pipe sizes 2-1/2" to 12". These cameras are small enough to negotiate the 90° bends. This camera is limited to 12" pipe because of the amount of light the unit provides. These camera systems use fiberglass push cable or rods. Most systems allow up to 300 feet of cable. This cable is pushed through the pipe manually and is very difficult to push over 300 feet.

Mainline cameras are used in lines 6" or larger. These camera systems are much larger than the lateral cameras. The light source(s) are much brighter, allowing the camera to view the larger diameter pipes. These cameras are skid- or tractor-mounted. Skid cameras usually include 500 to 1,000 feet of coaxial cable. The camera is usually propelled through the pipe with the use of a sewer jetter. Alternatively, the camera can be pulled using a winch and cable. Tractor cameras are remote-controlled, motorized units. These cameras are much more expensive but require little physical effort to operate.



Our job in Tech Support is to make your job easier. Call or fax us for a quick response.



- Configure to meet your exact needs!
- Operate mini, mainline and pan-and-tilt cameras
- Available in portable, truck or trailer mounted systems

The heart of the ARIES® Universal Saturn® III is a System Control Unit (SCU) that you configure to meet your inspection requirements. Whether configured for push, pull, tractor or skid, the SCU provides the power, controls, diagnostics and data logging to successfully record and document any pipeline inspection task. Cameras and lighting are available for inspecting 3" to 200" diameter lines. Cable lengths are available up to 1000 feet.

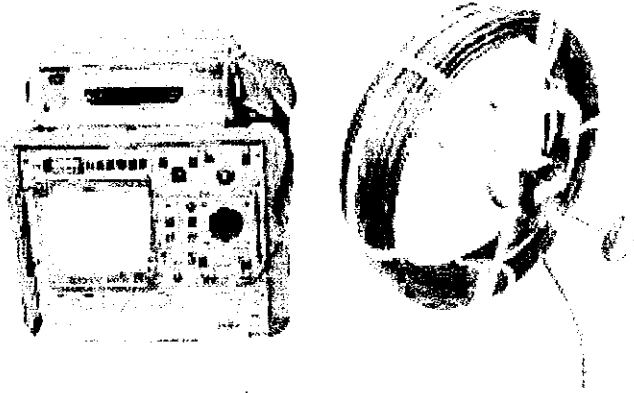
Start with a basic unit and then add options as needed to meet ever-increasing inspection challenges. The SCU provides a compact platform for camera operation, lighththead control, tractor speed/direction, video recording, data capture, and report writing. Transport the Universal Saturn® III and your inspection equipment in a pick-up or van or mount the SCU in a trailer or truck.

Reference # 33225 when you call.

See

Pages 161-171

for our complete line of
**Pipe Cleaning
Tools and
Accessories**



Shown with optional VD-1000

- Can be upgraded/expanded to main-line system
- Rugged and dependable
- 400' reel capacity for 2" to 15" lines

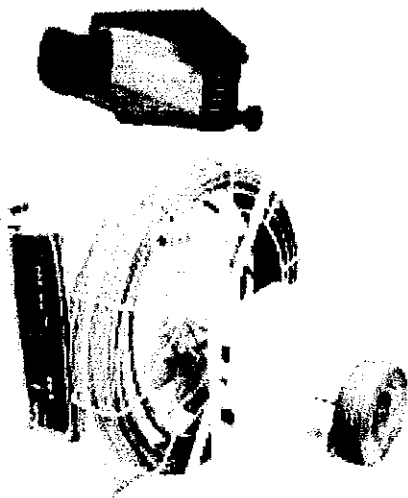
The Aries® Saturn® III Color Mini Camera System allows inspection of 2" to 6" lateral lines. Optional light heads and camera skids enable this system to inspect up to 15" mains. Don't settle for second best due to budget constraints. Start out with this lateral system and add the transporter, report writer, or Pan & Tilt camera in your next budget year. Before long, you'll have a system capable of handling your ever-increasing inspection challenges without having to buy it all at once.

The heart of the Saturn III is the universal System Control Unit (SCU). The SCU can be configured with factory or field installed options to meet each and every pipe inspection challenge. Push, pull, tractor or skid, the universal Saturn III SCU provides the power, controls, system diagnostics, and report writing functions you need to complete the job successfully.

The color camera head with LED lighting features rugged stainless steel construction, and the slim 1.65" diameter is designed for lines as small as 2" (no bends) or 3" lines with elbows. The flexible spring attachment provides camera maneuverability around pipe elbows. The reel basket has a 400' capacity and adjustable drag brake. The slim, wheeled reel assembly easily maneuvers through doors and stairways providing easy access to most locations.

The basic unit includes 200' of push rods mounted in an open basket reel with a mechanical footage counter, mini color camera, the universal System Control Unit (SCU), a commercial grade VCR and 3" to 6" camera skids. The optional VD-1000 footage module and keyboard allows the user to type text onto the video, run reports and view onscreen footage. The Saturn III lateral system comes with a one-year manufacturer's warranty. Please call to discuss the many available options.

DESCRIPTION	CABLE LENGTH	STOCK #	EACH
Saturn III Lateral Camera	200'	33226	Call
Saturn III Lateral Camera	300'	33227	Call
Saturn III Lateral Camera	400'	33228	Call
VD-1000 Footage Module & Keyboard		33229	Call



- Perfect for utility, contractor, and industrial applications
- Extremely portable
- Anti-glare LCD monitor

The ARIES® SEEKER portable video inspection system brings you the best in compact, lightweight, portable inspection technology. The entire system is water-resistant with no external wiring and is self-contained in one easily transported unit weighing as little as 40 pounds. You can now have a low-cost portable system and get the high quality and reliability you've come to expect from ARIES equipment.

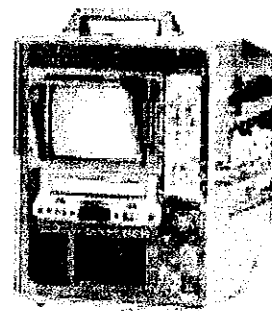
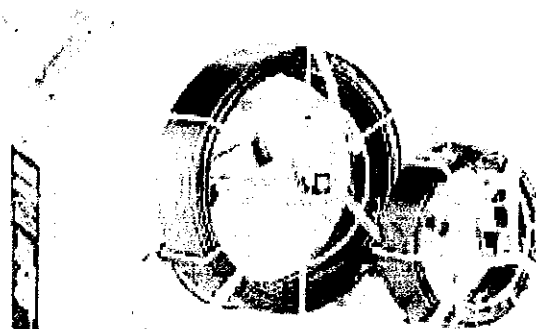
The SEEKER system is available with a 100' or 200' push rod cable. All circuitry is housed in a rugged, sealed, polycarbonate enclosure. The enclosure has built-in connections for VCR, video printer or video glasses. On top of the reel is a bright, active matrix 6.4" LCD anti-glare monitor. This tiltable monitor has adjustable color, brightness and contrast controls as well as a fold-up sun shield that also protects the LCD during transport. A universal AC power input of 85 - 264 VAC at 50/60 Hz is standard.

The standard 1.4" diameter camera accesses 2" to 10" diameter pipes. The camera is equipped with low-power, long-life LED lightheads and a high sensitivity (0.3LUX) video chip that produces high-resolution (570 lines) pictures.

Other options include a self-leveling camera head, VCR, reel-operated electronic footage counter and overlay (no footage head is required), and internal battery power with auto charge during AC operation and auto AC/battery switchover.

SYSTEM DESCRIPTION	STOCK #	EACH
100' Push Rod Reel and Camera for 2" - 10" Pipes	33239	\$ 5,332.00
200' Push Rod Reel and Camera for 2" - 10" Pipes	33237	5,798.55
Optional Footage Counter	33234	466.55
Optional 5-hour Internal Battery	33233	466.55
Optional Self-Leveling Camera Head	33231	460.20
Optional VCR	33232	388.22

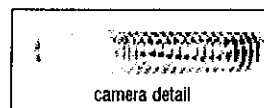
To receive more complete specifications on the Aries Seeker, visit our website or call our Fast-Facts system at 800-469-4911 and request document #332392.



- On-screen distance counter
- Built-in titler
- Picture inverter

The Gen-Eye 3" camera system combines quality and toughness. The camera head has a two-year warranty along with a one-year warranty on the monitor. The camera head is constructed of stainless steel and features a sapphire lens. The camera's 28 ultra bright LEDs provide ample lighting for 2" - 12" pipes. The camera measures 1.60" x 1.50" allowing it to slip into 2" runs of pipe and make the 90 degree elbows in 3" pipe. The push rods are made of Kevlar and a tough fiberglass core wrapped in a plastic sheath. The reel holds up to 400 ft of push rods and is constructed of powder-coated steel. The reel's 7" wheels along with its convenient handle aid in transportation. The command module has a 9" color TV/VCR packed in a fully padded, waterproof, fan-cooled, high-impact plastic carrying case.

The locator/transmitter eliminates all the guesswork. The camera has a built-in antenna, which accepts the signal from the transmitter. The locator then picks up this signal. The unit has push button depth, which will pinpoint exactly where the camera head is in the pipe. The additional cost of this locator/transmitter option will surely pay for itself the first time you use it. No more using a backhoe and unnecessarily digging up real estate.



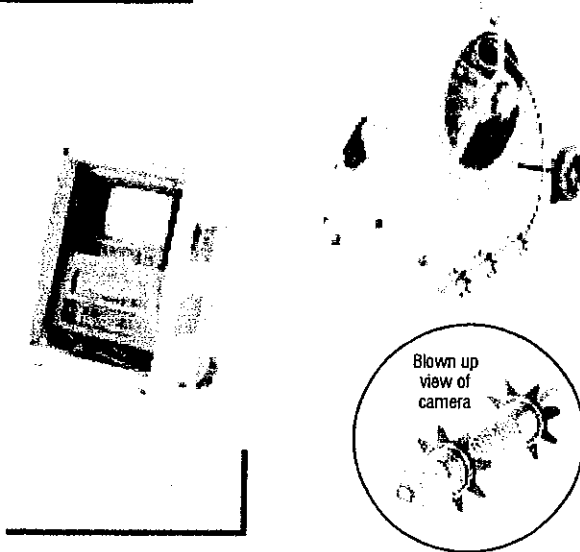
Black & White Camera Systems	CABLE LENGTH	STOCK #	EACH
Gen-Eye 3	200'	69745	\$ 6,052.42
Gen-Eye 3	300'	69746	6,835.05
Gen-Eye 3	400'	69749	7,228.28
Gen-Eye 3 with Locator	200'	69730	7,259.05
Gen-Eye 3 with Locator	300'	69731	8,040.72
Gen-Eye 3 with Locator	400'	69751	8,434.92

Color Camera Systems	CABLE LENGTH	STOCK #	EACH
Gen-Eye 3	200'	69743	\$ 7,293.67
Gen-Eye 3	300'	69744	8,076.30
Gen-Eye 3	400'	69750	8,470.50
Gen-Eye 3 with Locator	200'	69741	8,499.34
Gen-Eye 3 with Locator	300'	69742	9,282.93
Gen-Eye 3 with Locator	400'	69752	9,676.17

Accessories

4", 6" & 8" Skids	69734	\$ 242.29
6" Skids	69732	121.15
8" Skids	69733	131.24

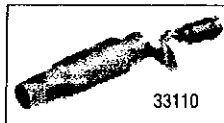
RIDGID



- Ridgid quality & durability
- Digital footage counter
- New built-in transmitter

The Ridgid SeeSnake™ & Mini-SeeSnake™ provide great performance and dependability. It's one of the most rugged systems on the market. The Mini-SeeSnake will allow you to view 1" to 6" pipe. Larger lines 2" to 12" will be viewed easily by the Seesnake.

Whether it is black & white or color, Ridgid has the system for you. Both systems utilize Ridgid's exclusive "Pipe View" technology which uses a camera head designed to focus inside pipe. The system features a fully adjustable LED lighting system, which provides more light than other cameras. Surveillance grade monitor system provides the sharpest detail and allows the most accurate diagnosis of a problem. Quality components like hardened stainless steel cameras, spring assemblies, and scratchproof crystal lenses ensure durability. All cameras and push cables are pressure tested and guaranteed waterproof to 330 feet.



A cable counter™ is standard equipment on all SeeSnake models. It permits the distance, date and time to be displayed on the screen at the touch of a button.

The Video System Manager (VSM) combines a 9" high-resolution monitor with a commercial grade VCR. The system's "hands-free" audio recording feature allows for quick and easy recording of the problem.

Black & White Camera Systems

	STOCK #	EACH
200' SeeSnake with VSM-A EIA	33100	\$ 7,205.97
325' SeeSnake with VAM-A EIA	33101	7,845.67
100' Mini-SeeSnake with VSM-A EIA	33102	6,156.73
200' Mini-SeeSnake with VSM-A EIA	33103	6,656.42

Color Camera Systems

200' SeeSnake with Monitor & VCR	33104	\$ 7,579.64
325' SeeSnake with Monitor & VCR	33105	8,218.35

Locators & Transmitters

KD-4510 Locator	33106	\$ 668.17
KD-4550 Carrying Case	33115	115.93
Remote Transmitter	33110	229.59
3' Centering Guides (20 Pack)	33111	69.93
6' Centering Guides (20 Pack)	33112	69.93
Centering Guides for Mini-SeeSnake (20 Pack)	33113	69.93

RIDGID



- Map function
- Advanced six-antenna technology
- Locates 24 frequencies

The NaviTrack® locator takes locating to the next level. This state-of-the art unit has the most features on the market, providing accurate locates within minutes. NaviTrack's exclusive map function provides a map of the energized line, making locating buried utilities simple. It is like being able to see the line in the ground. The continuous depth feature eliminates locating errors, due to signal bleed over.

NaviTrack makes sonde locating fast and accurate with its advanced six-antenna technology. Conventional 2-3 antenna locators may indicate "False Peaks" away from the sonde or no signal (Null) when the locator is directly over the sonde. NaviTrack technology, eliminates these false signals and allows the user to perform locates by simply maximizing the digital signal reading.

The NaviTrack will locate 24 preprogrammed frequencies ranging from 512 Hz to 480 kHz, making your old transmitter compatible with the NaviTrack receiver. Simply scroll through the frequency search, in manufacturer order, until you find the brand of transmitter. If you don't have a transmitter, you could purchase the Ridgid KD-4000. This transmitter offers two output frequencies, 512 Hz (low frequency) and a 51 kHz (high frequency).

The unit comes complete with the NaviTrack receiver, rugged carrying case, two sets of marker chips, batteries and a quick start guide. This unit is covered under Ridgid's Full Lifetime Warranty against material defects and workmanship.

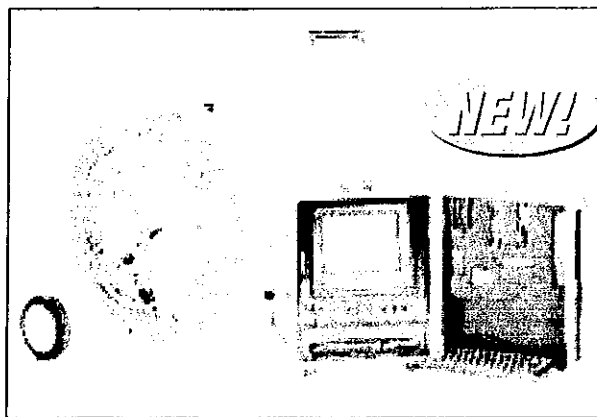
Receiver

Frequencies:	24 (ranges from 512 Hz to 480 kHz)
Depth reading:	continuous
Left/right guidance:	audible and visual
Display backlight:	yes
Battery type:	4 "C" cell alkaline
Weight:	5.85 lbs

Transmitter

Output frequencies:	2 (512 Hz & 51 kHz)
Power output:	100 mW
Power settings:	one
Battery type:	8 "D" cell alkaline
Battery life:	120 hours
Operating temperature:	-4°F to 133°F (-20°C to 56°C)
Weight:	6.2 lbs

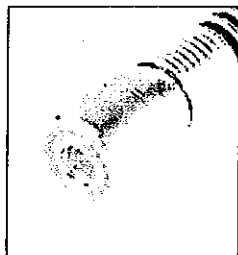
DESCRIPTION	STOCK #	EACH
NaviTrack	33098	\$ 2,120.75
KD-4000 Transmitter	33099	756.91
Replacement Batteries, D, 6/pk	43655	6.08
Replacement Batteries, C, 6/pk	43650	5.77



- Optional self-leveling head
- Built-in 512Hz transmitter
- 4 & 6" trap skids included

The Speedway® SPEEDY CAM is the best choice for your video inspection equipment. The camera is 1.5" in diameter and 1.7" in length, allowing the camera to negotiate 2" pipes. Features like the durable stainless steel housing, scratch-resistant sapphire lens, and a shock- and water-resistant module enhance the camera's performance. The monitor/control unit includes a tilted, self-contained 9" color monitor with a separate 4-head VCR. This allows the VCR to be replaced in the field. An on-screen distance counter with time and date stamp, along with a text-writing keyboard, are housed along with the monitor and VCR in a hard-cover padded carrying case. Video systems include push rods on an open reel, camera head with built-in 512HZ transmitter, 4" & 6" trap skids, command module with color monitor/VCR, padded case and power inverter.

The optional self-leveling camera head is only available in color. This head is slightly larger than the standard head, at 1.6" in diameter and 2.6" in length. This camera floats in the housing so it always gives you the correct view—no more upside-down video.



Camera Head

DESCRIPTION	STOCK#	EACH
200' Black & White System	32861	\$ 5,495.00
300' Black & White System	32862	5,995.00
200' Color System	32863	6,495.00
300' Color System	32864	6,995.00
Optional Self-Leveling Camera Head	32865	795.00

Natural Systems for Wastewater Treatment – MOP FD-16

Water Environment Federation

- New 2nd edition
- Check out the considerable savings over conventional treatment

This text describes natural aquatic and soil-based wastewater treatment methods that are particularly well-suited for small- to medium-size communities. Most of the alternative systems described offer substantial savings in operation and maintenance costs as compared to conventional treatment processes that produce similar effluent quality. 285 pgs., 2001.

Natural Systems – English Edition	71158	\$ 82.00
Natural Systems – Spanish Edition	71159	65.00

Introduction to Small Wastewater Systems

Skeet Arasmith and Holly Ploetz

- Designed for wastewater systems serving a population of less than 3000
- Excellent material for certification preparation

Owners and operators of small wastewater systems will appreciate this manual that was written specifically with you in mind. It provides a basic understanding of the principals and practices involved in collecting, treatment, and disposing of wastewater and solids in a safe and effective manner. Subjects covered include characteristics of wastewater, collection systems, treatment, sludge treatment and disposal, disinfection, and more. Spiral binding, over 350 illustrations, 518 pgs., 2nd edition; 1998.

Introduction to Small WW Systems	68543	\$ 66.00
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Introduction to Small Wastewater Systems



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