

State of Florida



# Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD  
TALLAHASSEE, FLORIDA 32399-0850

**-M-E-M-O-R-A-N-D-U-M-**

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12 MAY - 7 PM 2: 05

COMMISSION  
CLERK

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**DATE:** May 7, 2012  
**TO:** Ann Cole, Commission Clerk, Office of Commission Clerk  
**FROM:** Stanley D. Rieger, Utilities System/Engineering Specialist, Division of Economic Regulation *SDR*  
**RE:** Docket No. 110200-WU -- Application for increase in water rates in Franklin County by Water Management Services, Inc.

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Please include in the docket file the attached 2011 & 2021 Water System Improvements plant cost estimates (2 pages) for Water Management Services, Inc. Thank You.

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2011 Water System Improvements

12-Oct-11

Ben Withers Inc.

General Conditions - Mobilization, layout testing and bond		\$127,075.00
1	12" Raw water Main - from the existing line on the bridge to the new water tank in Parallel with the existing 12" PVC water main (which is partially exposed in the Apalachicola Bay) complete with fittings, appurtenances, thrust blocking, Valves, etc..	
	1.a. Approximately 2,300 lf 12" raw water main w/ 3 tie-ins	\$100,095.08
	1.b. 11-12" Valves and fittings	\$49,259.10
2	Water Treatment Plant:	
	2.a. 2-2600 gpm flow proportional chlorination systems including dual scales, dual chlorinators, a single fixed rate chlorinator for pre-chlorination, monitor system, emergency breathing apparatus and eye wash. The chlorine system is to send and receive signal information with the PLC.	\$53,266.38
	2.b. 4 - 720 gpm @ 80 psi high service end suction pump packages including 4- 60 HP motors and 4-variable speed drives with provisions for fifth (5) all skid mounted with 12" suction and discharge piping	\$404,800.00
	2.c. 1 - 250 KW emergency generator with integral 550 gallon diesel fuel tank per FDEP requirements installed and complete at the new high service PS. The generator is to send and receive signal information with the PLC.	\$65,758.00
	2.d. A complete control system for the high service pumps, 5 wells complete with a PLC controllers, a "TEXT" communication system, HMI color touch screen, and all instrumentation including flow meters, pressure transmitter, and level transmitter required to construct a working system.	\$44,557.70
	2.e. 1-600,000 gallon pre-stressed concrete ground storage tank supported by a concrete pile system, and including a dedicated fire protection 100,000 gallon inner tank; a 2,600 gpm fixed tray, screened aerator; a chlorine distribution system; inlet and outlet piping to 5' soils investigation, recommendation and testing services for foundation design; tank design and sealed by Florida PE; complete and in operation.	\$699,909.56
	2.f. Construct a new mechanical/ electrical/ generator/ and chlorine storage building with a separate HVAC system for each space.	\$213,800.00
	2. g. Electrical distribution system	\$55,384.00
	2.h. Air Conditioning system	\$13,800.00
	2.i. Sitework and plant piping, valves, meters	\$102,279.04
3	1 - SCADA system for 5 wells, 5 high service pumps, ground storage tank water level, distribution system pressure including high service pump discharge flow rate totalizer with digital display and recorder.	\$44,110.00
4	Tie-new water plant to existing potable water distribution system - all road crossings shall be by jack and bore - the below quantities are estimated - bid	\$18,400.00
	4.a. Approximately 800' - 8" water main w/ 6-8" valves and thrust blocks (east and west extensions)	\$27,678.59
	4.b. Approximately 700' - 12" water main w/ 6-12" valves and thrust blocks w/2 tie-ins to 8" existing	\$43,674.51
	4.c. Approximately 400' - 6" water main w/ 3 valves and thrust blocks from elev tank to ground storage tank	\$11,797.73
	4.d. Approximately 200' - 16" 350 #DI w/ field lok gaskets water main w/ 4-16" gv and thrust blocks	\$56,344.92
	4.e. Approximately 40' of 8" with motorized BF valve w/ raised stem to tie inner ground storage tank to 16" from outer storage tank.	\$22,510.47
5	Well #3 - Provide and install 1 - 60 KW emergency generator with integral 550 gallon diesel fuel tank per FDEP requirements. Connect the generator to send and receive signal information with the PLC.	\$53,669.00
6	Well #5 - Perm and Construct a new 500 gpm ground water supply well complete and operable consisting of: 1-12" diameter, 282' +/- deep water well, a 500 gpm vertical turbine pump, piping, electrical, and appurtenances.	\$254,529.60
7	Well #5 1 - 60 KW emergency generator with integral w/550 gallon diesel fuel tank per FDEP requirements furnished and installed complete. The generator is to send and receive signal information with the PLC.	\$56,342.00
8	Well #5 Tie to existing - Approximately 3,700 lf of 8" with 6 - 8" GV&Bs and 1 bore and jack	\$107,441.49
Construction Bid Amount		\$2,626,482.17
2011 Distribution Mains		\$502,695.00
	Lilac Lane and Kumquat Ct	
	Leisure Lane	
	Forstia to Nicks	
	Nicks to canopy	
	12th street to leisure lane at west gulf beach blvd	
	gorrie street 10th to 12 th	
	gorrie street 10th to 8 th	
	Sub-Total 2011 Construction	\$9,129,177.17
	Contingency	5% \$156,458.86
	Construction Budget	\$9,285,636.03
	Plant Site purchase	\$425,000.00
	Well Site #5 purchase	\$50,000.00
	Land Closing Fees	\$26,500.00
	Water System Evaluation (PBSI)	\$61,000.00
	Project Design, Bid and Award	\$154,500.00
	FDEP construction permit	\$12,000.00
	FDOT Construction permit	\$2,000.00
	Construction Management	\$50,000.00
Total 2011 Water System Improvements Project Cost		\$4,066,636.03

Length	Size	Method	Estimated Cost
220	6"	bore	
5,291	8"	open	
220	6	bore	
400	6	bore	
40	6"	bore	
1,600	10"		
3,400	10"		
11,171	5	502,695.00 Dollars @	5 45.00

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18 Brown street for FH	1500	6"	open	
19 east sawyer	1000	6"	open	
20 West Bay Shore Dr to East Sawyer Street	200	6"	bore	
21 gorrie street 3rd street to 5 th	2500	10"	open replace 2"	
22 porter street repace 2"	1100	6"	open replace 2"	
23 W. Bayshore - Palmer - Land St loop	1600	6"	open	
24 patton	1000	6"	open replace 2"	
25 howell	1000	6"	open replace 2"	
26 bruce	1000	6"	open replace 2"	
27 west pine 4th to 6th	2400	6"	open replace 2"	
28 gorrie street 3rd street east to 11 th east	5296	10"	open replace 2"	
29 East bay shore drive from 9th east to franklin blvd	6000	6"	open	new
30 wefing street	1500	6"	open	new
31 6" on 10th e from pine to e gulf beach drive connect to gulf beach	200	6"	open	
32 Gorrie to West Gulf Beach	150	12"		
LF new piping	29196	\$	1,313,820.00	Dollars @ \$ 45.00
Number of tie-ins	48	\$	72,000.00	Dollars @ \$ 1,500.00
High Service Pump #5		\$	85,000.00	
Total 2021 Distribution Line Construction:		\$	1,470,820.00	
Contingency	10%		\$147,082.00	
Engineering, Permitting, Analysis	20%		\$294,164.00	
Total Construction Budget		\$	1,912,066.00	

Preparation and Participation in WMSI rate increase application \$11,000.00

Construction Improvement Program including Hydraulic Model, capacity analysis and recommendations \$42,800.00

Permitting  
 NWPWMD Consumptive Use Permit \$65,000.00  
 (well driller)  
 NWPWMD Well Construction Permit \$118,800.00