

First Year Monitoring per Plan of Study for Bennett Swamp Aquifer Recharge Project

ITEM	Task Description	Project Manager	Sr. Technical Specialist	Sr. Civil Engineer	SUB-Surveyors	Civil Engineers	Structural Engineers	Engineer Interns- Graduate Engineers with EIT license-Also staff	Planners /Graphic Speed artists	Entero. Scientists	Designers /CAD	Admin. Assistant	cost/task	Total Hours											
															RATE:	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
1	SIRWAMP FIELD MEETING		12	0										30											
2	MONTHLY FIELD WALKS - 8 MONTHLY			8										160											
3	BIOTA SAMPLING BEGINNING PLUS QUARTERLY FOR 4 QUARTERS- 5 Total			5										370											
4	WQ & SOIL LAB - QUARTERLY			9										11											
5	DATA ANALYSIS			24										228											
6	MONTHLY FIELD WALK REPORTS			13										78											
7	MONTHLY QAPP REPORTS			20										210											
8	BIOTA SAMPLING REPORTS - REPORT - annual			8										56											
9	REPORT - annual			163										1215											
TOTAL LABOR COSTS based on RATES ABOVE																									
TOTAL HOURS													35	75	163	0	30	0	499	0	299	84	50	\$ 133,181.16	1215

EXPENSES

1. Task 1--SIRWAMP Field Meeting															
	1.1 4x4 Truck Rental by Biologist from Gainesville--1 day	\$	53.50												
	1.2 Mileage for PM from Orlando-SIRWAMP meeting--1 day	\$	53.50												
	1.3 Mileage for PM from Orlando-Followup Coordination with Surveyor--1 day	\$	10.00												
	1.4 Miscellaneous--Rebar/Flagging, etc.														
	Subtotal	\$	220.35												
2. Task 2 Monthly Field Walks--does not include Quarterly Biota Sampling Trips--see Item 3															
	2.1 Mileage--8 trips by hydrologist from Orlando	\$	428.00												
	2.2 4x4 Truck Rental--@ 1 day trips by Sr. Biologist from Gainesville	\$	826.80												
	Subtotal	\$	1,254.80												
3 Quarterly Biota Sampling															
	3.1 Mileage--5 trips by Hydrologic Engineer from Orlando	\$	267.50												
	3.2 Mileage--5 trips by Staff Biologist from Jacksonville	\$	481.50												
	3.3 4x4 Truck Rental--5 @ 2day Trips by Sr. Env. Scientist from Gainesville	\$	805.90												
	3.4 Hotel--5 trips by 2 persons x 1 overnight	\$	940.00												
	3.5 Per Diem--5 trips by 2 persons	\$	600.00												
	Subtotal	\$	3,094.90												
4 Task 4 Water Quality Sampling--Quarterly Biota Sampling															
	4.1 Initial Startup + Quarterly Water Quality Samples--5 events--\$526/event	\$	2,630.00												
	Initial Startup + Annual Soil Sampling--\$240/event	\$	480.00												
	4.3 Rental of Continuous DO/specific Conductance meters--5 data--2 sites--includes shipping and handling	\$	2,594.80												
	Subtotal	\$	5,704.80												
5 Tasks 5, 6, 7, 8, 9 Office Expense--October, 2017 through May, 2019															
	5.1 Printing--10,000 sheets @ \$0.07/sheet	\$	700.00												
	5.2 Postage & Shipping--20 months @ \$45/month	\$	900.00												
	Subtotal	\$	1,600.00												
Equipment Purchase for City for Use on Future Monitoring															
	YSI--Meter	\$	12,585.05												
	Tree Diameter Tape--dib	\$	39.95												
	Pocket Rod--Water Levels	\$	18.25												
	Stainless Steel Mixing Bow & Stainless Steel--Soil Sampling	\$	10.02												
	Subtotal	\$	12,653.27												
Extended Monitoring Costs															
	Labor	\$	139,181.16												
	1st Year Expenses	\$	11,874.85												
	Equipment Purchase for Future City Use	\$	12,653.27												
	Exhibit B.1 Subtotal	\$	157,709.28												
From Exhibit B.2															
	Labor	\$	15,012.84												
	Equipment Purchase--Includes Vendor Time for Setup/Calibration--Training--18 unit	\$	101,303.49												
	Mileage/hotel/PerDiem	\$	889.80												
	Exhibit B.2 Subtotal	\$	117,206.13												
	Project Total	\$	274,915.41												





First Year Monitoring per Plan of Study for Bennett Swamp Aquifer Recharge Project

ITEM	Task Description	Project Manager		Sr. Technical Specialist		Grant Specialist		Sr. Civil Engineer		SUB-Surveyors		Structural Engineers		Engineer Interns--Graduate Engineers with EI License		Planners/Specialists		Staff Enviro. Scientist--Planner		Designers /CADD Tech		Admin. Assistant		cost/task	Total Hours																						
		Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE	Hours	RATE																								
10	INSTALL 4 NEW STAGE RECORDERS	20																																													
11	REPLACE 13 CELL PHONES ON EXISTING PIEZOMETERS WITH SATELLITE TELEMETRY EQUIPMENT	24																																													
TOTAL HOURS																							44		0		0		0		0		0		0		0		0		0		4				
TOTAL LABOR COSTS based on RATES ABOVE																							\$8,108.76		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$6,700.32		\$0.00		\$0.00		\$0.00		\$203.76		\$15,012.84	\$15,012.84	check

NOTE: TASK 10 and 11 to occur during same week

EXPENSES

1. In-Situ monitoring equipment including swap of cell phone to satellite telemetry		\$	53.50
Orlando to Daytona Beach--50 miles each way		\$	96.30
Jacksonville to Daytona Beach 90 miles each way		\$	119.84
Gainesville to Daytona Beach 112 miles each way		\$	95.33
4x4 Truck Rental-one day trip--From Gainesville		\$	153.16
4x4 Truck Rental-two day day trip from Gainesville		\$	
Per Diem Expenses		\$	94.00
Hotel--Daytona		\$	30.00
Meals		\$	
Hardware for Telemetry Systems		\$	335.79
21 pieces 2" pvc pipe posts and stilling wells		\$	101.83
17 pieces 1" pvc pipe--conduit from stilling wells to telemetry posts		\$	71.72
vinyl coated galvanized cable		\$	166.77
51 turnbuckles		\$	406.47
51 tie-downs anchors		\$	364.00
auger rental		\$	300.00
miscellaneous fittings/wire swages/cable ties, etc.		\$	1,746.58
Subtotal		\$	1,746.58

2. Consumable Expenses		\$	363.80
Mileage--5 trips from Orlando--1 trip from Jacksonville=(5x2x50+1x2x90)x\$0.535		\$	526.00
Hotel and Per Diem--1 persons 4 nights: 5 days (4x\$94/night+5x\$30/day)		\$	
Subtotal 2		\$	889.80

3. General Office --Not included--This is covered in Exhibit B 2

Expense Total	\$	102,193.29
Labor Total	\$	15,012.84
Project Total	\$	117,206.13