# Lee County Board of County Commissioners Agenda Item Summary

Blue Sheet No. 20060379

- 1. Action Requested/Purpose: Approve Supplemental Task Authorization (STA) #19 to Water Resources Solutions, under CN-01-11 Miscellaneous Utility Engineering in the amount of \$163,306.00 for completion of the Olga Water Plant ASR Wells, Phase II Expansion project; with a total project cost of \$550,000. (Includes South Florida Water Management District (SFWMD) funding of \$170,000 per Agreement No. DG061177) This project is in the CIP and funds will be available. Also, authorize the Chairwoman to execute the STA.
- 2. What Action Accomplishes: Provides the additional funding necessary to complete the project, being conducted by Lee County working cooperatively with SFWMD, that will provide additional alternative water supply within the Lee County Utilities system.
- 3. Management Recommendation: Staff Recommends Approval.

4. De	partmental Category:	10 -		Α	5. Meeting Date:	04-04-2006
6. Agenda:		7. Requirement/Purpose (specify)		8. Request Initiated:		
X	Consent		Statute		Commissioner	
	Administrative		Ordinance		Department	Public Works
	Appeals	X	Admin. Code	AC-4-4	Division	Utilities
	Public		Other		By: Nan V	/elez, Acting Director
	Walk-On		•			3/23/06

9. Background:

STA No. 6 was approved by the BOCC on 8/6/02 C10E in the amount of \$81,150.00.

STA No. 11 was previously approved in the amount of \$6,981.26

STA No. 18 was approved by the BOCC on 4/27/04 C10J in the amount of \$510,240.00.

This planned capital project will increase the capacity of the Lee County Utilities' potable water supply system and received \$170,000 in grant funding from the SFWMD Alternative Water Supply Program. Lee County Utilities is responsible for the engineering, construction and operation of the project, as well as administration of the grant. The project work scope and cost estimates originally were prepared in March 2004, however, the project was delayed awaiting a Florida Department of Environmental Protection permitting determination, that was recently received. The estimate of the cost to complete the project has increased \$163,306 as a result of the delay. The project will result in additional assets for the Lee County Utilities System and is described as follows:

- Continued on Page 2 -

10. Review	v for Sched	uling							
Department Director	Purchasing or Contracts	Human Resources	Other	County Attorney			t Services		County Manager / P.W. Director
3.23.06	23/32	N/A	( (	fraise Ville		Risk	Grants	12406	3.27.06
11. Com	mission ActApproveDeferredDeniedOther	d			CEIVED BY WINTY ADMI	,	Dat Tim	Jich Am	
(Prepare	l by Contra	acts)			RWARDED T		For 70	warded To:	A

#### Page 2 - Blue Sheet # 20060379

Phase I of the Olga ASR Wells project has proven successful, as the first ASR well has achieved sufficient recovery percentages to warrant continuing with the construction of a second well. This Phase II of the project will consist of the construction of the second ASR well. The total project cost originally was estimated at \$550,000 and an additional \$163,306 is required due to project delay. The SFWMD funding amount is \$170,000; and the balance will be funded from CIP-Olga WTP ASR Wells Project.

Funds will be made available in Account No. 20711048730.506510

Attachments: Three (3) Original STA No. 19 for Execution

Proposal from Water Resource Solutions dated: February 27, 2006

# LEE COUNTY PROFESSIONAL SERVICE/SERVICE PROVIDER AGREEMENT CHANGE ORDER/SUPPLEMENTAL TASK AUTHORIZATION

☐ Change Order ☐ Supplemental Task Authorization		NO.: <u>19</u>		
(A Change Order or Supplemental T Expenditures Under \$25,000 or Appr \$50,000 or Approval by the Board of C	oval by the County Manager for Exounty Commissioners for Expenditure	openditures Between \$25,000 and sover \$50,000)		
CONTRACT/PROJECT NAME: ENG.	SC. LLW to Engineer & DESIGN/OLGA ASR PHASE I EXP	PANSION		
CONSULTANT: WATER RESOURCE	SOLUTIONS PRO	ECT NO.: 7110		
SOLICIT NO.: CN-01-11 CONTR.	ACT NO.: 18 <u>63</u> ACCOUNT NO.: <u>2</u>	07 1104 2730,504510		
REQUESTED BY: RAND EDELSTEIN,	JR, PG, LEE COUNTY UTILITIES_D	ATE OF REQUEST: 3/3/06		
Upon the completion and execution of the Consultant/Provider is authorized to				
EXHIBIT "CO/STA-A: SCOPE OF PRO	OFESSIONAL SERVICE:	DATED: <u>3/3/06</u>		
EXHIBIT "CO/STA-B: COMPENSATION	ON & METHOD OF PAYMENT:	DATED: <u>3/3/06</u>		
EXHIBIT "CO/STA-C: TIME AND SCH	EDULE OF PERFORMANCE:	DATED: <u>3/3/06</u>		
EXHIBIT "CO/STA-D: CONSULTANT" SUB-CONSULT	S/PROVIDERS ASSOCIATED ANT(S)/SUB-CONTRACTORS:	DATED: <u>3/3/06</u>		
EXHIBIT "CO/STA-E: PROJECT GUID	DELINES AND CRITERIA:	DATED: <u>3/3/06</u>		
It is understood and agreed that the constitutes an accord and satisfaction.  RECOMMENDED:	e acceptance of this modification <b>R.S. 3(-) 4</b> ACCEPTED:	by the CONSULTANT/PROVIDER		
By: 3/6/04 Department Director Date	By: Y/V/ Consultant/Provider (Print Name) Don Mayne	By: Department Director (Print Name) (Under \$25,000)		
By. Cura To a 3/1/4 Contracts Mgml Date	Date Accepted: 3/3/06	Date Approved:		
APPROVED:	Corporate Seal	By:		
*County Attorney's Office Date		Ву:		
*County Attorney signature needed for <b>over</b> Board level expenditures only.		Chairman Board of County Commissioners Date Approved:		

CMO:023:09/25/01

February 27, 2006 Revised March 2, 2006

Rand Edelstein Jr., P.G. Superintendent Hydrogeologist Lee County Utilities 18513 Bartow Blvd Fort Myers, FL 33912

Re: Olga ASR-5

Part 2 Change Order Request

Dear Mr. Edelstein:

Please consider this correspondence as the Water Resource Solutions (WRS) updated proposal to provide turnkey installation of well ASR-5 at the Olga ASR system. These costs were referred to in our March 30, 2004 proposal as Part 2. Part 1 (design and permitting) has been completed. We are not asking for any changes to the costs for Part 3 (cycle testing).

The updated costs for supervising the installation and testing of well ASR-5 well, on a turnkey basis, are included herein. However, the turnkey cost does not include installation of the well pump, surface facilities, piping, or instrumentation and controls

A detailed proposed work scope and cost proposal are provided below.

#### Cost Proposal

### Part 2 - Construction of One ASR Well

### Task 5. Surveying

Detailed land surveying will be conducted of the area for the new ASR well (ASR-5) and associated facilities. The land surveying will be conducted by a LCU approved licensed land surveyor under contract to WRS.

#### Task 6. Turnkey Well Installation

WRS is herein providing a turnkey price for drilling and well construction services for installing one ASR well at the site. The well will be constructed similar to the initial ASR well (ASR-1), which was installed at the site in 1999. This will include a 24-inch diameter steel casing set into the upper portion of the Suwannee formation at a depth of about 740 feet below land surface. Setting this casing at that depth, rather than into the top of the Lower Hawthorn section of the Arcadia formation (at a depth of about 540

feet) is necessary to seal off a thick section of caving sands encountered in the Lower Hawthorn at the site. The production casing will be 16-inch diameter Certa-Lok SDR 17 PVC casing set at a depth of about 860 feet below land surface.

The new ASR well will be thoroughly developed and tested A temporary test pump will be used for the testing. The generic NPDES permit for the site will be modified to allow the temporary short-term use of the storm drain system for disposal of the pumped formation water. Near the end of the pumping tests, water samples will be procured and transported to the Lee County Environmental Laboratory for analyses of Primary and Secondary Drinking Water parameters. In addition, field testing will be performed for sand content and silt density index; both of which are anticipated to be very low as a result of proper well construction techniques and selection of a proper casing setting depth and open-hole production interval.

The turnkey cost provided herein does not include the well pump, surface facilities, piping, or instrumentation and controls. The work necessary for the installation of those items will still need to be bid.

## Task 7. Construction Supervision and Testing

Prior to the start of construction, a pre-construction conference will be scheduled with the contractor(s) to establish protocols, procedures, review working conditions, site access, regulatory compliance, and coordinate various construction-related activities.

Submittals from the contractor(s) will be reviewed by the project team and evaluated for consistency with the technical specifications. Punch lists of items that need attention for project completion will be prepared and final inspections will be performed.

During construction and testing of ASR-5, a well-trained and experienced wellsite geologist will be assigned to the project. The wellsite geologist will prepare daily reports and communicate those reports to the project manager on a daily basis. The wellsite geologist will analyze well cuttings, maintain a log of lithology, water quality, and drilling operations.

The project manager will be responsible for selecting all casing setting, coring, testing, and geophysical logging depths. He will be present for all important events such as packer testing, coring, geophysical logging, casing setting, and drilling through important intervals. Our proximity to the wellsite (i.e. less than 15 miles) will allow the project manager to frequently visit the site to discuss activities with the wellsite geologist and LCU staff, and reduces costs.

## Task 8. Regulatory Compliance During Construction and Testing

During construction and testing, weekly progress reports are required to be sent to the FDEP and TAC. These reports contain copies of pertinent data such as daily drilling reports, lithologic logs, geophysical logs, core data, water quality data, aquifer test data, casing mill slips, casing cementing records, and casing pressure tests. In addition, FDEP approval must be obtained for casing setting depths. WRS will prepare and submit this information to the FDEP and LCU on a weekly basis.

## Task 9. Completion Report, Certifications, and Operations and Maintenance Manual

Upon completion of construction and testing activities, a completion report will be prepared detailing the drilling and construction activities and the results of all testing and analyses of the new ASR well. These documents will address all conditions in the FDEP construction permits. Copies of the completion report for ASR-5 will be supplied to the TAC and the FDEP after LCU approval.

We will update our previously prepared Operations and Maintenance Manual and work with the WTP operators to develop effective operating protocols and record keeping procedures for the system. Equipment data, as-built drawings, maintenance and operation recommendations, and regulatory compliance requirements will be detailed in the O&M manuals.

#### Task 10. Startup Services

The WRS project team will conduct a training session with LCU staff to provide instruction on the proper operation of the facilities and to facilitate commencement of use of the ASR system.

#### Task 11. Operational Testing Authorization

Subsequent to approval by LCU of the final report, record drawings, and operations and maintenance manual, copies of these documents will be forwarded to the FDEP and TAC with a request for authorization to commence operational testing of the new ASR well. Any further documentation requested by the FDEP will also be provided.

# Task 12. Project Supervision and Subcontractor Management for Part 2

Management of subcontracted engineering and well drilling will be provided on a lump sum basis for Part 2 tasks.

### COST PROPOSAL

<u>Item</u> :					
Part 2 - Construction					
5. Surveying	2,975				
6. Turnkey Well Drilling/Construction	431,500				
<ul> <li>7. Construction Supervision and Testing (CA. ASR Well</li> <li>B. Surface Facilities and Piping</li> </ul>	One Well) 28,240 22,740				
8. Regulatory Compliance During Construc	ction and Testing 5,475				
9. Completion Report and Operations and N	Maintenance Manual Update 6,750				
10. Start-Up Services	4,805				
11. Operational Testing Authorization	1,820				
12. Project Supervision and Subcontractor M	Anagement 48,156  Part 2 Total: \$552,461				

N.B A comparison of the 2004 costs to the costs delineated herein is shown on the attached table.

#### Authorization

Water Resource Solutions is pleased to be of continuing service to Lee County Utilities. Do not hesitate to call should you have any questions or comments regarding any aspect of this matter. You may indicate your acceptance of this proposal by providing us with a Supplementary Task Authorization (STA) and referencing our proposal number. We have included only the costs for Part 2 of our proposal in the attached STA.

Sincerely,

Daniel J Acquaviva, P.G.

Senior Consultant

Licensed Professional Geologist # 1066

# TABLE SHOWING ORIGINAL COSTS, REVISED COSTS, AND DIFFERENCE IN FEES

Original Task Number	Task Number	Task Title	ORIGINAL ESTIMATE 3/30/04	REVISED COST	DIFFERENCE IN COST
		PART 2			
5	5	SURVEYING	2,475	2,975	500.00
6	6	WELL DRILLING/CONSTRUCTION	324,950	431,500	106,550
7A	7A	ASR CONSTRUCTION	22,240	28,240	1,000
7B	7B	SURFACE FACILITY PIPING	16,740	22,740	6,000
8	8	REGULATORY COMPLIANCE TESTING	4,475	5,475	1,000
9	9	COMPLETION REPORT & OM MANUAL	6,750	6,750	0
10	10	START UP SERVICES	4,805	4,805	0
11	11	OPERATIONAL TESTING AUTHORIZATION	1,720	1,820	100
NA	12	PROJECT SUPERVISION AND SUBCONTRACTOR MANAGEMENT	NA	48,156	48,156
12	13	PART 3 CYCLE TESTING	54,545	54,545	0

☐ CHANGE ORDER AGREEMENT No.	
or	
SUPPLEMENTAL TASK AUTHORIZATION No.	19

EXHIBIT "CO/STA-B"

Date: <u>3/3/06</u>

# COMPENSATION AND METHOD OF PAYMENT for OLGA ASR PHASE I EXPANSION

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization)

## SECTION 1.00 CHANGE(S) IN COMPENSATION

The compensation the CONSULTANT, or SERVICE PROVIDER, shall be entitled to receive for providing and performing the supplemented, changed or authorized services, tasks, or work as set forth and enumerated in the Scope of Services set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto shall be as follows:

NOTE: A Lump Sum (L.S.) or Not-to-Exceed (N.T.E.) amount of compensation to be paid the CONSULTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "S/COA-A". In accordance with Professional Services Agreement Article 5.03(2) "Method of Payment", tasks to be paid on a Work-in-Progress payment basis should be identified (WIPP).

Task Number	Task Title	Amount of Compensation	Indicate Basis of Compensation LS or NTE	If Applicable Indicate (W.I.P.P.)
5	SURVEYING	500.00	NTE	WIPP
6	WELL DRILLING/CONSTRUCTION	106,550	NTE	WIPP
7A	ASR CONSTRUCTION	1,000	NTE	WIPP
7B	SURFACE FACILITY PIPING	6,000	NTE	WIPP
8	REGULATORY COMPLIANCE TESTING	1,000	NTE	WIPP
9	COMPLETION REPORT & OM MANUAL	0	NTE	WIPP
10	START UP SERVICES	0	NTE	WIPP
11	OPERATIONAL TESTING AUTHORIZATION	100	NTE	WIPP
12	PROJECT SUPERVISION AND SUBCONTRACTOR MANAGEMENT	48,156	LS	WIPP
TOTAL		163,306.00		

(Unless list is continued on next page)

CHANGE ORDER AGREEMENT No	
or	
SUPPLEMENTAL TASK AUTHORIZATION No.	19

## SECTION 2.00 SUMMARY OF CHANGE(S) IN COMPENSATION

Pursuant to and in consideration of the change(s) in the Scope of Professional Services set forth in the CHANGE ORDER or AGREEMENT, Exhibit "CO/STA-A", the compensation the COUNTY has previously agreed to pay to the CONSULTANT, or SERVICE PROVIDER, as set forth in Exhibit "B" of the Professional Services Agreement, or Service Provider Agreement, shall be changed to be as follows:

Section/Task Number	Section/Task Name	Compensation In the Basic Agreement	Adjustment(s) by Previous CO or STA Nos.	Adjustment(s) Due to this CO or STA	Summary of Changed Compensation
STA'S 1-17			1,204,601.26		1,204,601.26
STA #18			510,240.00		510,240.00
STA #19				163,306.00	163,306.00
				-	
			,		_
				·	
TOTAL			1,714,841.26	163,306.00	1,878,147.26

☐ CHANGE ORDER AGREEMENT No or SUPPLEMENTAL TASK AUTHORIZATION No. 19	EXHIBIT "CO/STA-C"
TIME AND SCHEDULE OF PERFORMANCE	Date: <u>3/3/06</u>
for OLGA ASR PHASE I EXPANSION	

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization Agreement)

SECTION 1.00

CHANGES FOR THIS CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT

The time and schedule of completion for the various phases or tasks required to provide and perform the services, tasks, or work set forth in this CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", entitled "Scope of Professional Services" attached hereto is as follows:

Phase and/or Task Reference As Enumerated in EXHIBIT "A"	Name or Title of Phase and/or Task	Number of Calendar Days For Completion of Each Phase and/or Task	Cumulative Number of Calendar Days For Completion from Date of Notice to Proceed For this CO or STA
11	HYDROGEOLOGICAL SERVICES	200	200
	<u></u>		L

CHANGE ORDER AGREEMENT No	
SUPPLEMENTAL TASK AUTHORIZATION No. 19	EXHIBIT "CO/STA-C"
	Date: <u>3/3/06</u>

TIME AND SCHEDULE OF PERFORMANCE

for OLGA ASR PHASE I EXPANSION

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization Agreement)

SECTION 2.00 SUMMARY OF THE IMPACT OF CHANGE(S) IN PROFESSIONAL SERVICES ON THE OVERALL PROJECT TIME AND SCHEDULE OF PERFORMANCE

Pursuant to and in consideration of the changes in the Scope of Professional Services in this CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", the time and schedule the COUNTY and the CONSULTANT, or SERVICE PROVIDER, has previously agreed to for all of the work to be done under this Professional Services Agreement, or Service Provider Agreement, shall be changed to be as follows:

Phase and/or Task Reference As Enumerated in EXHIBIT 'A' and EXHIBIT 'CO/ STA-A'	Name or Title of Phase and/or Task	Number of Calendar Days For Completion of Each Phase and/or Task	Cumulative Number Of Calendar Days For Completion From Date of Notice to Proceed
11	HYDROGEOLOGICAL SERVICES	200	200

☐ CHANGE ORDER AGREEMENT No	
OF SUBBLEMENTAL TASK AUTUS DIZATION N	40
SUPPLEMENTAL TASK AUTHORIZATION No.	<u> 19</u>

EXHIBIT "CO/STA-D"

Date: 3/3/06

# CONSULTANT'S, OR SERVICE PROVIDER'S, ASSOCIATED SUB-CONSULTANT(S) AND SUBCONTRACTOR(S)

for OLGA ASR PHASE I EXPANSION

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization Agreement)

CONSULTANT, or SERVICE PROVIDER, intends to engage the following sub-consultant(s) and/or sub-contractor(s) to assist the CONSULTANT, or SERVICE PROVIDER, in providing and performing the services, tasks, or work required under this CHANGE ORDER, or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT.

(If none, enter the word "none" in the space below.)

Service and/or Work to be Provided or Performed	Name and Address of Individual or Firm	Disadvantaged, Minority or Women Business Enterprise, (If Yes, Indicate Type)			Sub-Consultant Services are Exempted from Prime Consultant's Insurance Coverage	
		Yes	No	Туре	Yes	No
DRILLING	WELLS AND WATER SERVICES 5730 ZIP DRIVE FORT MYERS, FL 33905		X		X	
ENGINEERING	DUFRESNE – HENRY 630 WOODBURY DRIVE PORT CHARLOTTE, FL 33954		X		×	

EXHIBIT "CO/STA-E"

Date: 3/3/06

PROJECT GUIDELINES AND CRITERIA

for OLGA ASR PHASE I EXPANSION

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization Agreement)

As a supplement, or change, to the Project Guidelines and Criteria set forth in the Professional Services Agreement, or Service Provider Agreement, Exhibit "E", the COUNTY has established the following Guidelines, Criteria, Goals, Objectives, Constraints, Schedule, Budget, and/or Requirements which shall serve as a guide to the CONSULTANT, or SERVICE PROVIDER, in performing the professional services, tasks, or work to be provided pursuant to the professional services set forth hereinbefore in CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto:

(If none, enter the word "None" in the space below.)

ITEM No. 1 NONE

CMO:029 09/25/01

Page E1 of E1

February 27, 2006 Revised March 2, 2006

Rand Edelstein Jr., P.G. Superintendent Hydrogeologist Lee County Utilities 18513 Bartow Blvd. Fort Myers, FL 33912

Re: Olga ASR-5

Part 2 Change Order Request

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# Task 12. Project Supervision and Subcontractor Management for Part 2

Management of subcontracted engineering and well drilling will be provided on a lump sum basis for Part 2 tasks.

### COST PROPOSAL

<u>Item</u> :				
Part 2 - Construction				
5. Surveying	2,975			
6. Turnkey Well Drilling/Construction	431,500			
<ul> <li>7. Construction Supervision and Testing (One Well)</li> <li>A. ASR Well</li> <li>B. Surface Facilities and Piping</li> </ul>	28,240 22,740			
8. Regulatory Compliance During Construction and Testing	5,475			
9. Completion Report and Operations and Maintenance Manual U	Update 6,750			
10. Start-Up Services	4,805			
11. Operational Testing Authorization	1,820			
12. Project Supervision and Subcontractor Management  Part 2	48,156 Total: \$552,461			

N.B. A comparison of the 2004 costs to the costs delineated herein is shown on the attached table.

#### Authorization

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Sincerely,

/ Daniel J. Acquaviva, P.G.

Thui J. Clepuova

Senior Consultant

Licensed Professional Geologist # 1066

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8	8	REGULATORY COMPLIANCE TESTING	4,475	5,475	1,000
9	9	COMPLETION REPORT & OM MANUAL	6,750	6,750	0
10	10	START UP SERVICES	4,805	4,805	0
11	11	OPERATIONAL TESTING AUTHORIZATION	1,720	1,820	100
NA	12	PROJECT SUPERVISION AND SUBCONTRACTOR MANAGEMENT	NA	48,156	48,156
12	13	P <b>ART 3</b> CYCLE TESTING	54,545	54,545	0