

JORDAN LAKE PARTNERSHIP

SUPPLEMENTAL ARTICLE No. 5 Regional Interconnections Study, Phase 2

Pursuant to Section 5 of the *Memorandum of Understanding Supporting a Regional Water Supply Partnership for Water Supply Planning and Potential Joint Use of B. Everett Jordan Reservoir* dated March 16, 2009 (MOU), this Supplemental Article No. 5 defines the terms under which the ***Regional Interconnections Study, Phase 2*** will be undertaken by the Jordan Lake Partnership. The signatories to this Supplemental Article agree to reimburse the Lead Contractual Agency for actual costs incurred, according to cost shares defined below, up to the total cost shown.

Project Lead Agency: Town of Cary

Lead Contractual Agency: City of Durham

Project Scope: The project scope is described in the Jordan Lake Partnership Potable Water Interconnection Study Phase 2: Hydraulic Modeling Proposal, from Hazen and Sawyer dated March 12, 2013 (Attachment A). The project scope includes all tasks, except Task 2.3 (Analyze flow between Cary and Chatham County).

Project Cost: The total project cost without Task 2.3 is \$446,040. Attachment A. defines the scope of the project in detail.

Chatham County: Should Chatham County choose to participate in the ***Regional Interconnections Study, Phase 2*** after this Supplemental Article No. 5 has been executed; Chatham County would sign Supplemental Article No. 5 as an Optional Participant. Task 2.3 would then be added to the project scope and the total project cost with Task 2.3 would be \$481,320. Chatham County's cost share would be \$24,560.

Project Management Team: The Project Management Team will be made up of one representative, appointed by the Manager or Executive Director, from each of the signatories.

Signatory Cost Shares: 15 percent of the total cost will be shared equally among the participating partners (base participation). The remaining 85 percent will be split according to the relative interests participating partners have in each task (task participation). Base cost and task costs differ depending on whether Chatham County participates (see Table 1). Participant signatories agree to each pay up to the larger cost share that depends upon Chatham County's participation, as defined in Table 2. The last column in Table 2 shows the largest cost share each Signatory would pay.

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Table 1. Project Scope and Task Costs

Task	Description	Cost w/ Chatham	Cost w/o Chatham
1.1	Analyze Cary-Durham Interconnections	\$57,280	\$57,280
1.2	Analyze Durham-OWASA Interconnections	\$51,840	\$51,840
1.3	Analyze Flow between Cary and OWASA through Durham	\$39,360	\$39,360
1.4	Analyze Hillsborough-Durham Interconnection	\$37,840	\$37,840
1.5	Analyze Flow from Hillsborough to Orange County	\$28,960	\$28,960
2.1	Analyze Cary emergency interconnections	\$58,000	\$58,000
2.2	Analyze Apex-Holly Springs interconnection	\$35,280	\$35,280
2.3	Analyze flow between Cary and Chatham County	\$35,280	\$0
2.4	Analyze flow from Raleigh through Cary to Holly Springs and Apex	\$34,160	\$34,160
2.5	Analyze flow from Durham to Apex and Holly Springs	\$30,600	\$30,600
2.6	Analyze Cary-Durham-Raleigh interconnections in 2060	\$72,720	\$72,720
	Total	\$481,320	\$446,040

Table 2. Partner Cost Shares for Initial Execution of Supplemental Article No. 5

Partner	Cost Share w/ Chatham	Cost Share w/o Chatham	Cost Share for Sup. Art. 5
Cary	\$ 83,342	\$ 77,982	\$ 83,342
Apex	\$ 83,342	\$ 77,982	\$ 83,342
Durham	\$ 76,809	\$ 76,809	\$ 76,809
OWASA	\$ 66,087	\$ 66,087	\$ 66,087
Hillsborough	\$ 17,941	\$ 17,941	\$ 17,941
Chatham County	\$ 24,560	\$ -	\$ -
Pittsboro	\$ 7,220	\$ 7,220	\$ 7,220
Holly Springs	\$ 20,476	\$ 20,476	\$ 20,476
Raleigh	\$ 51,641	\$ 51,641	\$ 51,641
Orange County	\$ 49,901	\$ 49,901	\$ 49,901
Total	\$ 481,320	\$ 446,040	\$ 456,760

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Attachment A.

JORDAN LAKE PARTNERSHIP

SUPPLEMENTAL ARTICLE No. 5 Regional Interconnections Study, Phase 2

HAZEN AND SAWYER
Environmental Engineers & Scientists

Hazen and Sawyer, P.C.
629 Green Valley Road
Suite 200
Greensboro, NC 27408
336-292-7490
Fax: 336-292-6614

March 12, 2013

Mr. Sydney Paul Miller, P.E.
Water Resources Engineer
Department of Public Works and Utilities
Town of Cary
400 James Jackson Ave.
Cary, NC 27513

Re: Jordan Lake Partnership
Potable Water Interconnection Study
Phase 2: Hydraulic Modeling Proposal

Dear Mr. Miller:

Hazen and Sawyer is pleased to submit this updated proposal for hydraulic modeling of potable water interconnections among the Jordan Lake Partners. This version of the proposal responds to our discussions with Orange County and the Town of Holly Springs.

The purpose of this study is to develop a regional approach for planning interconnections that increase the reliability and sustainability of drinking water by using resources cooperatively.

Our December 1, 2011, technical memorandum summarized Phase 1 of the project. This summary tabulated each partner's water facilities, documented existing interconnections and evaluated opportunities for improved interconnections. The key deliverable was a map showing all the partners' water systems, pressure zone boundaries and the interconnection locations.

Our December 20, 2011, technical memorandum outlined the next steps for evaluating interconnections by providing a modeling overview; an explanation of issues involved with combining and updating models; and recommendations for moving forward.

This updated proposal for the project's second phase integrates interconnection modeling requests by the partners and their feedback on the scope and cost estimates from previous proposals.

Interconnections will be evaluated for sustained transfers using multi-day extended period simulations. Each evaluation will include flow in both directions, where feasible. Predicted hydraulic performance will be compared with design criteria for velocities, pressures and tank water levels. Calibration tasks will focus on existing interconnections; broader calibration will be recommended if a partner's model is unable to match field measurements.

The following pages outline the requested modeling projects. Part 2 builds on Part 1 so that tasks are not repeated. Projects that involve wheeling water through an intermediate system may involve the same interconnections as direct transfer projects, but these are separate modeling scenarios that produce different flows and pressures. The numbers included in each project description refer to the interconnection IDs on the map from our December 1, 2011, technical memorandum. Each project includes initial meetings with the partners involved, to review and update model scenarios.

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Scope of Services

Part	Project Task Description	Hours	Fee
1	Build core model of Cary and Durham, then add OWASA-Hillsborough Model		
1.1	Analyze Cary-Durham Interconnections (#6, 7, 9) 1 Gather information and interview Partners' staff 2 Update Cary model Infrastructure 3 Update Durham model Infrastructure 4 Combine Durham and Cary models & add interconnection details 5 Check model calibration near Interconnections 6 Determine sustainable flow from Cary to Durham with existing Interconnections (EPS) 7 Identify improvements for sustained flow of 10 mgd from Cary to Durham (EPS) 8 Determine sustainable flow from Durham to Cary with existing Interconnections (EPS) 9 Identify improvements for sustained flow of 7 mgd from Durham to Cary (EPS) 10 Present preliminary results 11 Prepare report chapter that incorporates review comments 12 QC	368	\$ 57,280
1.2	Analyze Durham-OWASA Interconnections (#25, 26, 27) 1 Gather information and interview Partners' staff 2 Combine OWASA-Hillsborough model with Durham-Cary model and add interconnection details 3 Check model calibration near Interconnections 4 Determine sustainable flow from Durham to OWASA with no flow to Chatham (EPS) 5 Determine flow from Durham to OWASA with 4 mgd point load to Chatham (at #10) 6 Identify improvements for 7 mgd from Durham to OWASA + 4 mgd to Chatham (at #10) 7 Identify improvements for 9 mgd from Durham to OWASA inc 2 mgd to Orange + 4 mgd to Chatham 8 Determine sustainable flow from OWASA to Durham with no flow to Chatham 9 Present preliminary results 10 Prepare report chapter that incorporates review comments 11 QC	368	\$ 51,840
1.3	Analyze Flow between Cary and OWASA through Durham (#6, 7, 9, 25, 26, 27) 1 Gather information and interview Partners' staff 2 Identify improvements for sustained 5 mgd from Cary through Durham to OWASA off peak 3 Determine sustainable flow from OWASA through Durham to Cary 4 Present preliminary results 5 Prepare report chapter that incorporates review comments 6 QC	256	\$ 39,360

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Part	Project Task Description	Hours	Fee
1.4	Analyze Hillsborough-Durham Interconnection (#16) 1 Gather information and interview Partners' staff 2 Test three pumps and check model calibration at connection point 3 Identify improvements for 2 mgd from Durham to Hillsborough 4 Identify improvements for 4 mgd from Durham to Hillsborough Inc 2 mgd to Orange Co (Eno EDD) 5 Identify improvements for 1 mgd to Durham 6 Present preliminary results 7 Prepare report chapter that incorporates review comments 8 QC	248	\$ 37,840
1.5	Analyze flow from Hillsborough to Orange County (#17,22) 1 Gather information and interview Partners' staff 2 Update Orange Alamance model and add to combined model 3 Check model calibration near interconnections 4 Identify improvements for 0.75 mgd from Hillsborough through Orange Alamance to Buckhorn EDD 5 Map fire flows in Orange Alamance system with Buckhorn EDD supplied from Hillsborough 6 Identify improvements for 0.75 mgd from Hillsborough directly to Buckhorn EDD 7 Present preliminary results 8 Prepare report chapter that incorporates review comments 9 QC	208	\$ 28,960
Part 1 Totals		1,448	\$ 215,280

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Part	Project Task Description	Hours	Fee
2	Add Raleigh, Apex, Holly Springs and North Chatham to model from Part 1		
2.1	Analyze Cary emergency Interconnections (#9, 6, 7, 47, 43, 32, 42, 44, 44, 45, 46, 50, 4, 3, 2, & 1) 1 Gather information and interview Partners' staff 2 Update Apex model infrastructure 3 Add Raleigh and Apex to model from Part 1 and add details at interconnections 4 Check model calibration at interconnections 5 Analyze Cary emergency interconnections with 42" pipe out of service 6 Analyze Cary emergency interconnections with CAWTF out of service 7 Present preliminary results 8 Prepare report chapter that incorporates review comments 9 QC	400	\$ 58,000
2.2	Analyze Apex-Holly Springs Interconnection (#21, 5, 1, 2, 3, 4, 50) 1 Gather information and interview Partners' staff 2 Add new Holly Springs model to core model and add details at interconnections 3 Identify improvements for 2 mgd to Holly Springs + 3 mgd to Apex + 7 mgd to Cary from Hammett 4 Determine sustainable flow from Apex to Holly Springs 5 Identify improvements needed to supply average demand in Holly Springs from Cary and Apex 6 Present preliminary results 7 Prepare report chapter that incorporates review comments 8 QC	240	\$ 35,280
2.3	Analyze flow between Cary and Chatham County (#48, 1, 2, 3, 4) 1 Gather information and interview Partners' staff 2 Add North Chatham County model to core model and add details for connecting pipes 3 Determine flow from Cary through Apex to Chatham County 4 Determine flow from Chatham County through Apex to Cary 5 Present preliminary results 6 Prepare report chapter that incorporates review comments 7 QC	240	\$ 35,280

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Part	Project Task Description	Hours	Fee
2.4	Analyze flow from Raleigh through Cary to Holly Springs and Apex (#46, 50, 4, 5) 1 Gather information and interview Partners' staff 2 Update model at Cary's proposed connections to Holly Springs transmission main 3 Determine flow from Raleigh through Cary to Holly Springs 4 Determine flow from Raleigh through Cary to Apex 5 Identify improvements to increase above flows 6 Present preliminary results 7 Prepare report chapter that incorporates review comments 8 QC	232	\$ 34,160
2.5	Analyze flow from Durham to Apex and Holly Springs (1, 2, 3, 4, 5, 6, 7, 9) 1 Gather information and interview Partners' staff 2 Determine flow from Durham through Cary to Apex and Holly Springs 3 Identify improvements to increase above flows 4 Present preliminary results 5 Prepare report chapter that incorporates review comments 6 QC	196	\$ 30,600
2.6	Analyze Cary-Durham-Raleigh interconnections in 2060 (#9, 6, 7, 47, 43, 32, 42, 44, 45, 46, 25, 26, 27) 1 Gather information and interview Partners' staff 2 Adjust core models to 2060 demand from Triangle Regional Water Supply Plan 3 Identify improvements for 10 mgd from Durham to Cary/Apex/Holly Springs 4 Identify improvements for 10 mgd from Raleigh to Cary/Apex/Holly Springs 5 Identify improvements for 10 mgd from Durham and Raleigh to Cary/Apex/Holly Springs 6 Identify improvements for 17 mgd from Durham to Cary/Apex/Holly Springs 7 Identify improvements for 17 mgd from Raleigh to Cary/Apex/Holly Springs 8 Identify improvements for 17 mgd from Durham and Raleigh to Cary/Apex/Holly Springs 9 Determine flow from Hamett County through Holly Springs to Cary/Apex/Holly Springs 10 Determine flow from Hamett County through Holly Springs and Cary/Apex to Raleigh 11 Determine flow from Hamett County through Holly Springs and Cary/Apex to Durham 12 Determine flow from Hamett County through Holly Springs, Cary/Apex and Durham to OWASA 13 Present preliminary results 14 Prepare report chapter that incorporates review comments 15 QC	496	\$ 72,720
Part 2 Totals		1,804	\$ 266,040
GRAND TOTALS		3,252	\$ 481,320

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Deliverables

The deliverable for this project will be a single report with chapters describing findings for each interconnection project. The report will be provided in electronic format.

Project Team

The Hazen and Sawyer team for this project will include:

Project Director: Michael Wang, PhD, P.E.

Project Manager: Jeffrey R. Cruickshank, P.E.

Modelers:

Crystal Broadbent, P.E.

Todd Davis, P.E.

Ricardo Espinosa, P.E.

Megan Roberts, P.E.

Wayne Zhang, PhD, P.E.

Field Coordinator:

Kevin Widderich, E.I.

Compensation:

Compensation for services rendered shall be based on a Direct Labor Multiplier of 3.15 applied to labor costs of the cumulative hours charged to the project by each employee providing services.

Table 1 depicts current direct salary rates for various staff positions expected to be involved with this project. Actual rates will be based upon labor costs for the individuals working on the project at the time services are rendered, and may differ from those shown in the table.

Table 1 – Direct Salary Rates	
Position	Direct Salary Rates
Vice President	\$75
Senior Associate	\$67
Associate	\$48
Principal Engineer	\$44
Engineer/Field Coordinator	\$40

The Direct Labor Multiplier will be applied to actual labor costs and will include all overhead, profit, travel, modeling software and computer costs, word processing, secretarial, telephones, faxes, etc.

It shall be understood the aggregate cost ceiling established for this project shall not be exceeded. If a project takes fewer hours than estimated, the fee will be less than that shown. If the costs for another project overrun that project's cost ceiling, remaining fees from other projects may be used.

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Schedule:

We estimate completion within 12 months of authorization to proceed. Invoicing will not begin before July 1, 2013.

Please call me at (336) 292-7490 x81720 if you have any questions regarding this proposal, or email me at jcruckshank@hazenandsawyer.com.

Sincerely,

HAZEN AND SAWYER, P.C.



Jeffrey R. Cruickshank, P.E.
Senior Associate

CC: Michael Wang, P.E.
Christopher Belk, P.E.

JORDAN LAKE PARTNERSHIP
SUPPLEMENTAL ARTICLE No. 5
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Participant: TOWN OF PITTSBORO

(Signature) _____
Bryan Gruesbeck, Town Manager

ATTEST: _____

JORDAN LAKE PARTNERSHIP

SUPPLEMENTAL ARTICLE No. 6 Allocation Consultant Agreement Triangle J Council of Governments

Pursuant to Section 5 of the *Memorandum of Understanding Supporting a Regional Water Supply Partnership for Water Supply Planning and Potential Joint Use of B. Everett Jordan Reservoir* dated March 16, 2009 (MOU) this Supplemental Article No. 6 defines the terms under which the *Allocation Application Consultant services* will be undertaken by the Jordan Lake Partnership. The signatories to this Supplemental Article agree to reimburse the Lead Contractual Agency for actual costs incurred, according to cost shares defined below, up to the total cost shown.

Lead Contractual Agency: City of Durham

Project Scope:

The project scope is described in the *Jordan Lake Water Supply Storage Allocation Round 4 Application Template and Review* document dated November 30, 2012 from Triangle J Council of Governments (**Attachment A**).

The project scope includes Task 1.) Develop Jordan Lake Application Template, Task 2.) Develop Customized Excel Workbook, Task 3.) Review Jordan Lake Applications, and Task 4.) Assist Jordan Lake Partners in Working with DWR and EMC, plus 20 hours allotted for project management and administration duties. All are described in detail within Attachment A as appears on pages 3-7 of this supplemental article.

Project Cost: The total project cost is \$28,866.00. Attachment A defines the breakdown of project costs in detail as appears on page 7 of this supplemental article.

Project Management Team: The Project Management Team will be made up of one representative from each of the signatories as appointed by that partner's Manager or Executive Director.

The Jordan Lake Partnership for the purposes of this scope of work includes the following:

- Town of Apex
- Town of Cary
- Chatham County
- City of Durham
- Town of Hillsborough
- Town of Holly Springs
- Town of Morrisville
- Orange County
- Town of Pittsboro
- Orange Water and Sewer Authority (OWASA)
- Wake County

Signatory Cost Shares: The costs will be split based on the relative Level 1 or Level 2 base charges each Partner is paying under the MOU and are reflected in the following table:

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Participants	Cost Share	Maximum Cost Based on Budget
• Town of Apex	15.8%	\$4,553.00
• Town of Cary	15.8%	\$4,553.00
• Chatham County	5.3%	\$1,522.00
• City of Durham	15.8%	\$4,553.00
• Town of Hillsborough	5.3%	\$1,522.00
• Town of Holly Springs	5.3%	\$1,522.00
• Town of Morrisville	5.3%	\$1,522.00
• Orange County	5.3%	\$1,522.00
• Orange Water and Sewer Authority (OWASA)	15.8%	\$4,553.00
• Town of Pittsboro	5.3%	\$1,522.00
• Wake County	5.3%	\$1,522.00
	100%	28,866.00

JORDAN LAKE PARTNERSHIP

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Allocation Consultant Agreement
Triangle J Council of Governments**

JORDAN LAKE WATER SUPPLY STORAGE ALLOCATION

ROUND 4 APPLICATION TEMPLATE AND REVIEW

ATTACHMENT A

SCOPE OF WORK

JORDAN LAKE PARTNERSHIP

SUPPLEMENTAL ARTICLE No. 6 Allocation Consultant Agreement Triangle J Council of Governments



World
Class
Region

TRIANGLE J COUNCIL OF GOVERNMENTS

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Durham, NC 27703

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Research Triangle Park, NC 27709

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Jordan Lake Partnership Jordan Lake Water Supply Storage Allocation Round 4 Application Template and Review

November 30, 2012

Scope of Services

Purpose, Objectives and Overview

The purpose of this project is to coordinate and facilitate the development of consistent Round 4 Jordan Lake water supply allocation applications (Jordan Lake Applications) for submission by participating members of the Jordan Lake Partnership (JLP or Partnership) to the NC Division of Water Resources (DWR). It is not anticipated that all members of the Partnership will be submitting Jordan Lake Applications, thus efforts have been made to use the term participating Partnership members in this Scope of Work to designate those members of the Partnership that will be preparing and submitting Jordan Lake Applications.

The objectives of this project are to ensure that Jordan Lake Applications submitted by participating JLP members have a common format, meet the guidelines outlined by DWR, and are consistent with the Partnership's Triangle Regional Water Supply Plan.

In the pursuit of these objectives, Triangle J Council of Governments (TJCOG) will work with DWR and participating Partnership members will develop a Jordan Lake Application template that adheres to the application guidelines developed by DWR. This template will provide a formatted application outline that participating Partnership members and/or their consultants will populate to create completed individual Jordan Lake Applications. Additionally, TJCOG will pre-populate the template with common text describing the Partnership and its collaborative efforts to date including the development of the Triangle Regional Water Supply Plan (TRWSP). TJCOG will also provide each participating Partnership member with a companion Excel workbook which will be customized from the JLA-4 workbook provided by DWR with population estimates and water supply demand projections specific to the Partnership member as developed for Volume I of the TRWSP. Finally, TJCOG will provide technical and editorial review of each individual Jordan Lake Application and provide written comments to each Partnership member to ensure consistency with each other and with the TRWSP.

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JORDAN LAKE PARTNERSHIP

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Task 1. Develop Jordan Lake Application Template

TJCOG will work with DWR and participating Partnership members to develop a formatted Jordan Lake Application template that adheres to the application guidelines developed by DWR and that ensures a consistent format and look and feel for individual Jordan Lake Applications.

1. TJCOG will develop a formatted template in Microsoft Word that follows the guidelines developed by DWR.
 - a. The template will include the sections outlined in the application guidelines, including:
 - i. Section I – Water Demand Forecast
 - ii. Section II – Conservation & Demand Management
 - iii. Section III – Current Water Supply
 - iv. Section IV – Future Water Supply Needs
 - v. Section V – Water Supply Alternatives
 - vi. Section VI – Plans to Use Jordan Lake
2. TJCOG will include additional formatted subsections as per the application guidelines.
3. TJCOG will include placeholders for tables and figures to ensure consistency.
4. TJCOG will develop a map of each participating Partnership member's current and future water service area for inclusion in the Jordan Lake Application.
5. TJCOG will develop common text for inclusion in each of the individual Jordan Lake Applications describing the Partnership and its collaborative efforts to date including the development of the Triangle Regional Water Supply Plan (TRWSP).
6. TJCOG will solicit feedback from DWR and from JLP members on a draft template.
7. TJCOG will incorporate feedback as appropriate into a final application template.
8. TJCOG will provide the final Jordan Lake Application template to JLP members.

Task 2. Develop Customized Excel Workbook

TJCOG will customize the JLA-4 workbook provided by DWR for each Partnership member with the population estimates and water demand projections developed for Volume I of the TRWSP and the individual source water options developed for Phase II of the TRWSP.

1. TJCOG will customize the JLA-4 workbook developed by DWR for each participating Partnership member by incorporating the water service area population estimates and water demand projections developed for Volume I of the TRWSP.
2. TJCOG will interpolate the water demand projections developed at 10-year time increments for the TRWSP into 5-year projections as required for the Jordan Lake Applications.
3. TJCOG will create a source water options tab in the workbook and populate it with the individual source water options developed for Phase II of the TRWSP.
4. TJCOG will provide each participating Partnership member with the most recent version of the regional water supply alternatives developed for Phase II of the TRWSP.

Task 3. Review Jordan Lake Applications

TJCOG will review individual Jordan Lake Applications and provide feedback to each participating Partnership member to ensure consistency with other applications and with the TRWSP.

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1. TJCOG will review draft Jordan Lake Applications from each participating Partnership member for accuracy and consistency with other Jordan Lake Application and with the TRWSP.
2. TJCOG will provide technical and editorial comments to each Partnership member.
3. TJCOG will work with each participating Partnership member on incorporating feedback to ensure consistency among applications submitted by members of the Partnership.

Task 4. Assist Jordan Lake Partnership in working with DWR and EMC.

TJCOG will facilitate and provide technical support for meetings between the Jordan Lake Partnership and the Division of Water Resources or the Environmental Management Commission.

1. TJCOG will assist JLP in scheduling meetings with DWR and EMC.
2. TJCOG will assist JLP in preparing for meetings with DWR and EMC.
3. TJCOG will attend meetings between JLP and DWR or EMC to provide technical support.

Project Management and Administration

For any contracted project, some amount of time is required to manage the finances of the project, such as accounting for the time that staff members spend on various project tasks, accounting for travel and other expenses, and preparing invoices.

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Budget

Billing will be on a cost-reimbursable basis. Labor will be billed according to the rates in Table 1. Mileage expenses will be reimbursed at the rate of \$0.500 per mile. Other expenses will be reimbursed based on actual cost. The total budget for Jordan Lake Water Supply Storage Allocation Round 4 Application Template and Review is \$28,866, and details for each task are included in Table 2.

Table 1. Labor Billing Rates

Labor Category	Billing Rate
Water Resources Program Manager	\$90.00 per hour, Jan. 1, 2013 – Dec. 31, 2013
Water Resources Planner	\$51.00 per hour, Jan. 1, 2013 – Dec. 31, 2013

Note that the billing rates provided in Table 1 are an estimate. TJCOG will inform the Jordan Lake Partnership of any billing rate changes during the course of the Project.

Table 2. Complete Project Budget

Task	WR Program Manager Hours	WR Planner Hours	Total Labor Hours	Budget
Task 1	36	78	114	\$7,218
Task 2	32	124	156	\$9,204
Task 3	48	98	146	\$9,318
Task 4	10	16	26	\$1,716
Project Management	10	10	20	\$1,410
Total	136	326	462	\$28,866

JORDAN LAKE PARTNERSHIP
SUPPLEMENTAL ARTICLE No. 6
ALLOCATIONS CONSULTANT AGREEMENT
TRIANGLE J COUNCIL OF GOVERNMENTS

Participant: TOWN OF PITTSBORO

Bryan Gruesbeck, Town Manager

Date

ATTEST: _____