

**RESOLUTION 15-69**

**A RESOLUTION SUPPORTING APPROVAL OF DISBURSEMENTS  
FROM WATER SUPPLY ESCROW FUND FOR DUCK RIVER AGENCY  
FISCAL YEAR 2015-2016 PROGRAM BUDGET**

**WHEREAS**, the City of Spring Hill is a Member of Duck River Agency Technical Advisory Committee; and

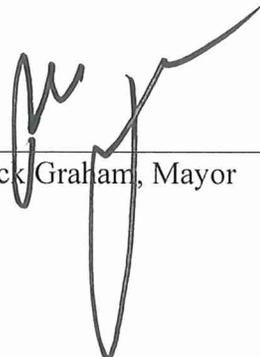
**WHEREAS**, the Duck River Comprehensive Regional Water Supply Plan has recommended two water supply infrastructure projects for future water demands: increasing the capacity of Normandy Reservoir and constructing a new intake near Williamsport. The Duck River Agency Technical Advisory Committee has recommended that the Duck River Agency continue the planning and funding of these projects in fiscal year 2015-2016; and

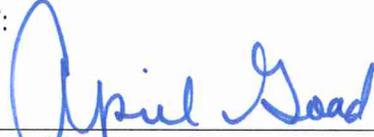
**WHEREAS**, according to each water system's agreement, the governing board of each system is required to approve decisions regarding of the use of cooperative funds from customer fees; and

**WHEREAS**, the analyses for these projects will require the Agency to disburse funds from its Water Supply Escrow Fund upon approval from a simple majority of the agency members, which includes Spring Hill Board of Mayor and Aldermen; and

**NOW, THEREFORE, BE IT RESOLVED**, by the Board of Mayor and Alderman of Spring Hill, Tennessee, supports and approves of disbursement from Water Supply Escrow Fund for Duck River Agency in the fiscal year 2015-2016 Program Budget, as outlined in the attached request letter, program budget, and agency annual program outline.

Passed and adopted this 20<sup>th</sup> day of July, 2015.

  
\_\_\_\_\_  
Rick Graham, Mayor

ATTEST:  
  
\_\_\_\_\_  
April Goad, City Recorder

LEGAL FORM APPROVED:  
  
\_\_\_\_\_  
Patrick Carter, City Attorney



**INFORMATION RE: Resolution 15-69**

**SUBMITTED BY:** Victor Lay, City Administrator  
April Goad, City Recorder

**DATE:** July 17, 2015

**RE:** Annual Approval of disbursements from water supply escrow fund for Duck River Agency 2015-2016

**ATTACHMENTS:** DRATAC Program Budget & Funding Source, DRATAC Scope & Budget, COSH\* Resolution 07-60, COSH Detail Report 2014-2015

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**PURPOSE:** DRATAC requires that members approve the program budget and scope each fiscal year.

**BACKGROUND:**

Effective March 1, 2008, the City of Spring Hill approved Resolution 07-60, DRATAC membership and costs. This cost is being charged to each customer at .05 per 1,000 gallons of water and is included in the monthly water bill since 3-1-2008.

**FINANCIAL IMPACT:**

No additional funding is being requested. This has been an annual budgeted item since approval (Resolution 07-60, March 1, 2008). The current budget amount is \$45,000.00. Total Expenditure for 2014-2015 was \$40,286.39

**STAFF RECOMMENDATION:**

Favorable Recommendation; this has been a yearly request since 2008.

**ACTION REQUIRED (INCLUDE DEADLINE /PRIORITY):**

BOMA approval as soon as possible.

\*COSH=City of Spring Hill

# BDY NATURAL SCIENCES CONSULTANTS

April 10, 2015

*via electronic mail*

Mr. Doug Murphy  
Executive Director  
Duck River Agency  
210 East Depot Street  
Shelbyville, Tennessee 37160

Re: Proposal to Provide Environmental Consulting Services  
Potential Water Intake Site Evaluations  
Various Duck River Pool Reaches  
Maury County, Tennessee

Dear Mr. Murphy

Per your request, BDY Environmental LLC (BDY) presents this proposal to provide environmental consulting services to the Duck River Agency (DRA). We understand that your request for the proposed services is based upon your anticipating a need to locate a water intake structure on the Duck River downstream of Columbia, Tennessee to provide a raw-water source for municipal use.

## **SCOPE OF WORK**

Our proposed scope of work consists of conducting the following tasks:

### **Task 1 –Flow Data Review & Location Screening**

BDY will evaluate hydrologic data (collected by others) to identify candidate intake sites. The flow data review will focus on low-flow conditions, particularly in relation to contributing tributaries, known reaches of river recharge from or discharge to groundwater (i.e., gaining and losing reaches), and locations of reported listed species occurrences.

Additionally, BDY will accompany DRA personnel on visual reconnaissance-level visits of up to 5 potential intake location sites on the Duck River. Screening criteria will include general pool characteristics (approximate areal dimensions), proximity to reported occurrences of listed mussel species, proximity to adjacent bars, riffles, shoals, and tributary mouths, and access to landward ingress (for facility siting, construction and maintenance purposes). We assume this task can be completed in one field-day.

At each location BDY will conduct one or more bathymetric transects across the Duck River channel. Data will be collected by use of a laser-level, survey rod and tape. Survey end-points will be established by use of Geographic Positioning System (GPS) equipment. Bathymetric channel profiles will be constructed for each transect.

April 10, 2015  
Mr. Doug Murphy

Task 2 – Regulatory Constraints Analysis & Water Quality Sampling

BDY will conduct a Regulatory Constraints Analysis (RCA) of up to 4 potential intake locations to characterize the regulatory status of each potential location. Our scope of work includes a review of potential rare, threatened, and endangered (RTE) species and their associated habitats that may occur at the project site. This review will include a summary of state and federally-listed aquatic RTE species known within the vicinity of the project site.

BDY also will collect surface-water samples from the Duck River at multiple locations pertinent to the candidate intake sites. Two of these locations will be in the vicinity of the former Monsanto facility. Additional sampling sites will be determined. Up to 10 samples, including duplicates, will be collected and transported to a qualified laboratory under chain-of-custody standards. Analytes will include volatile and semi-volatile organic compounds, pesticides, poly-chlorinated biphenyls (PCBs), and certain metals (As, Ba, Cd, Cr, Hg, Pb, Se, and Ag). BDY will review the analytical results within the context of the federal Safe Drinking Water Act and other relevant state and federal standards.

Task 4- Vicinity and Watershed Land-Use Review

BDY will characterize land-use in the vicinity and watershed of up to 4 intake locations. Sources of potential impairment of surface water and groundwater quality will be identified by visual reconnaissance and by review of published lists of regulated facilities (e.g., hazardous waste generators, underground petroleum storage sites, etc.).

Task 6 – Reporting

BDY will prepare a report summarizing our efforts and findings on each of the potential intake locations. Our report will include supporting materials including pertinent tables, data, photographs, maps, and exhibits.

**COST ESTIMATE AND SCHEDULE**

We propose to provide the scope of services on a time and materials basis and will execute the foregoing Scope of Work under the terms and conditions of our existing Agreement with the Duck River Agency. We estimate the following itemized budget to complete the described scope of work.

Task 1 –Flow Data Review and Location Screening	\$ 9,950
Task 2– Regulatory Constraints Analysis & Water Quality Sampling	\$ 9,695
Task 3- Vicinity and Watershed Land-Use Review	\$ 3,300
Task 4– Reporting	<u>\$ 1,860</u>
<b>Total Estimated Cost</b>	<b>\$24,805</b>

We can begin work immediately upon receiving notice to proceed.

April 10, 2015  
Mr. Doug Murphy

We appreciate very much the opportunity to be of service to you. Please contact us at (615) 460-9797 if you require further information.

Very truly yours,  
BDY Environmental, LLC

A handwritten signature in black ink, appearing to read "David E. Jackson". The signature is fluid and cursive, with a large initial "D" and "J".

David E. Jackson, PG  
Principal

**Tennessee Duck River Development Agency  
Program Budget & Funding Source  
For Fiscal Year 2016**

**FY2016  
New  
Budget**

**Trust Fund B**

**Annual Programs and Contracts**

a. USGS Streamgages (2 new gages)	56,400
b. Regional Duck River Cleanup	3,000

**Water Supply Plan Implementation Contracts/Projects**

a. Regional Drought Management Plan - OBG	5,300
b. Optimizing Normandy Reservoir Releases - OBG	10,800
c. Water Use Efficiency Program - OBG	6,150

**Program Support**

a. Program Management - OBG	41,050
b. Modeling/consulting - HydroLogics Inc	25,000
c. Pathogen Compliance Analysis - DRUC	35,000
d. Water Demand Projections - MWM	74,040

**Project Funding for FY2016** 256,740

**Administrative Budget for FY2016** 204,057

**Total Trust Fund B Expenses** \$ 460,797

**Water Supply Escrow Fund**

a. Normandy Reservoir Capacity Improvements - OBG	0
c. New Maury County Water Supply Intake - OBG	112,800
1) Environmental & Regulatory Assessments - BDY	24,805

**Total WSEF Expenses for FY2016** \$ 137,605

**TENNESSEE DUCK RIVER DEVELOPMENT AGENCY**  
**COMPREHENSIVE REGIONAL WATER SUPPLY PLAN**  
**SCOPE OF SERVICES FOR FISCAL YEAR 2016**

**TASK 820.001 - PROGRAM MANAGEMENT**

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Develop implementation plans and schedules, develop scopes of service and assist in the procurement and management of professional consultants, generate cash flow projections, prepare progress reports and budgets, prepare for and document meetings with stakeholders, solicit input and address questions, and assist with external communications. Support discussions and studies for regional withdrawal permitting, including support related to discharge of effluent from Spring Hill directly to Duck River, as part of the regional withdrawal strategy.. Update information on DRA's website and enhance functionality. Attend work sessions (assume 4) with regulators and stakeholders in support of overall water supply program.

**TASK 820.002 – OPTIMIZE NORMANDY RESERVOIR RELEASES**

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Provide DRA with general consultation on optimization of Normandy Reservoir releases, and revise DRA's report (as needed) based on review comments. Support DRA with the NEPA review process by providing guidance and assisting with procuring experts as needed. Attend work sessions (assume 2) with Task Force and stakeholders.

**TASK 820.003 - NORMANDY RESERVOIR CAPACITY IMPROVEMENTS**

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Provide consultation to DRA on the recommended capacity improvements at Normandy Reservoir (i.e., change in Winter/Spring pool level) and the possible allocation of cost for improvements at Normandy Dam between DRA and TVA. Support DRA with the NEPA review process by providing guidance and assisting with procuring experts as needed.

**TASK 820.004 – MAURY COUNTY WATER INTAKE DOWNSTREAM OF COLUMBIA**

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Provide DRA with assistance in developing a scope of services and procuring a consultant to conduct a bathymetric survey to locate pools suitable for an intake in the Duck River downstream of Columbia. Provide general consultation to DRA on the intake style and sizing based regulatory requirements and river characteristics; identification of potential parcels for acquisition; concept layout of intake and pumping station; preliminary alignment study for pipeline; identification of permits and studies needed; development of cost estimates; and preparation of reports and work products. Attend work sessions (assume 4) with CPWS and stakeholders.

**TASK 820.005 - FINANCIAL PLANNING**

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Provide DRA with an estimate of water rates and system development charges (SDC) and assist with development of contracts between DRA and the Water Systems for capital projects identified in Comprehensive Regional Water Supply Plan.

**TASK 820.006 - REGIONAL DROUGHT MANAGEMENT PLAN**

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Provide DRA with general consultation on drought management plan process, and revise DRA's Regional Drought Management Plan (as needed) based on review comments. Support DRA with the NEPA review process by providing guidance and assisting with procuring experts as needed.

**TASK 820.007 - WATER MANAGEMENT PROGRAM**

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Provide DRA with assistance in procuring a specialized consultant, as needed, and refining the scope of the water management program. Support DRA's efforts to disaggregate water demands by customer sector for each water system; enhance public awareness and promote public education programs on water management in the region; identify partnering opportunities in the region; investigate opportunities to minimize out-of-basin transfers or groundwater discharge; and promote protection of quantity and quality of source water.

RESOLUTION 07-60

A RESOLUTION TO AUTHORIZE THE CITY OF SPRING HILL  
MEMBERSHIP IN THE DUCK RIVER AGENCY TECHNICAL  
ADVISORY COMMITTEE (DRATAC)

WHEREAS, the governing Board of the City of Spring Hill has membership in the Duck River Agency and wishes to begin membership with the Duck River Agency Technical Advisory Committee; and

WHEREAS, the governing Board of Spring Hill supports the mission of Duck River Agency "To develop, protect and sustain a clean and dependable water resource for all citizens of the Duck River region."; and

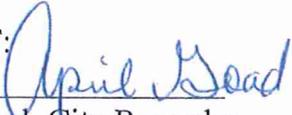
NOW THEREFORE, Be It Resolved by the Board of Mayor and Aldermen approval of the expense of approximately \$.05 per thousand gallons of water sold per month. The cost of this membership will be added to the customers' of Spring Hill Waterworks monthly water bill. Membership to begin on March 1, 2008.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, on the 22<sup>nd</sup> day of January 2008.

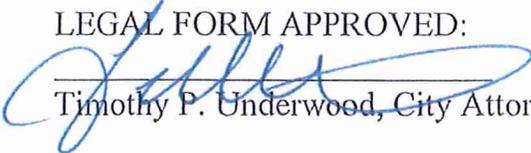


Danny M. Leverette, Mayor

ATTEST:

  
April Goad, City Recorder

LEGAL FORM APPROVED:

  
Timothy P. Underwood, City Attorney



Spring Hill, TN

# Detail Report

## Account Detail

Date Range: 07/01/2014 - 06/30/2015

Account	Name	Source Transaction	Description	Vendor	Beginning Balance	Total Activity	Total Debits	Total Credits	Ending Balance
Fund: 410 - UTILITY FUNDS									
MPO, RTA, S CENTRAL HUMAN RSRCE AGENCY/DRATAC DUES									
410-52100-238					0.00	40,286.39	40,286.39	0.00	40,286.39
08/12/2014	ZDET20140812		Tn Upper Duck River Agency-Trb				Debits	Credits	Running Balance
					4,198.59		4,198.59		4,198.59
					Activity for August, 2014:			0.00	4,198.59
09/15/2014	ZDET20140915		Tn Upper Duck River Agency-Trb		4,545.62		4,545.62	0.00	8,744.21
10/14/2014	ZDET20141014		Tn Upper Duck River Agency-Trb		4,145.38		4,145.38	0.00	4,545.62
11/19/2014	ZDET20141119		Tn Upper Duck River Agency-Trb		4,145.38		4,145.38	0.00	12,889.59
12/19/2014	ZDET20141219		Tn Upper Duck River Agency-Trb		3,808.19		3,808.19	0.00	4,145.38
01/16/2015	ZDET20150116		Tn Upper Duck River Agency-Trb		3,808.19		3,808.19	0.00	16,697.78
02/11/2015	ZDET20150211		Tn Upper Duck River Agency-Trb		3,679.10		3,679.10	0.00	3,808.19
03/10/2015	APPKT00017	FEBRUARY 2015	FEBRUARY 2015		3,679.10		3,679.10	0.00	20,376.88
	Payment Number:	20613			2,922.53		2,922.53	0.00	3,679.10
04/15/2015	APPKT00168	MARCH 2015	MARCH 2015		2,922.53		2,922.53	0.00	23,299.41
	Payment Number:	20737			3,324.95		3,324.95	0.00	2,922.53
05/13/2015	APPKT00284	APRIL 2015	BILLING/WATER SALES APRIL 2015		3,324.95		3,324.95	0.00	26,624.36
	Payment Number:	20829			2,962.87		2,962.87	0.00	3,324.95
06/10/2015	APPKT00440	MAY 2015	BILLING MAY 2015		2,962.87		2,962.87	0.00	29,587.23
	Payment Number:	20932			Activity for February, 2015:				29,587.23
					4716 - TN UPPER DUCK RIVER AGENCY-TRB				
					4716 - TN UPPER DUCK RIVER AGENCY-TRB				
					Activity for March, 2015:		2,962.87	0.00	2,962.87
					4716 - TN UPPER DUCK RIVER AGENCY-TRB		3,371.15		32,958.38
					4716 - TN UPPER DUCK RIVER AGENCY-TRB				
					Activity for April, 2015:		3,371.15	0.00	3,371.15
					4716 - TN UPPER DUCK RIVER AGENCY-TRB		3,331.93		36,290.31
					4716 - TN UPPER DUCK RIVER AGENCY-TRB				
					Activity for May, 2015:		3,331.93	0.00	3,331.93
					4716 - TN UPPER DUCK RIVER AGENCY-TRB		3,996.08		40,286.39
					4716 - TN UPPER DUCK RIVER AGENCY-TRB				
					Activity for June, 2015:		3,996.08	0.00	3,996.08
					4716 - TN UPPER DUCK RIVER AGENCY-TRB		40,286.39	0.00	40,286.39
					4716 - TN UPPER DUCK RIVER AGENCY-TRB		40,286.39	0.00	40,286.39
					<b>Total Fund: 410 - UTILITY FUNDS:</b>		<b>40,286.39</b>	<b>0.00</b>	<b>40,286.39</b>
					<b>Grand Totals:</b>		<b>40,286.39</b>	<b>0.00</b>	<b>40,286.39</b>

# Account Summary

Name	Beginning Balance	Total Activity	Total Debits	Total Credits	Ending Balance
MPO, RTA, S CENTRAL HUMAN RSRCE AGENCY/DRATAC DUES	0.00	40,286.39	40,286.39	0.00	40,286.39
<b>Total Fund: 410 - UTILITY FUNDS:</b>	<b>0.00</b>	<b>40,286.39</b>	<b>40,286.39</b>	<b>0.00</b>	<b>40,286.39</b>
<b>Grand Totals:</b>	<b>0.00</b>	<b>40,286.39</b>	<b>40,286.39</b>	<b>0.00</b>	<b>40,286.39</b>

Account  
Fund: 410 - UTILITY FUNDS  
[410-52100-238](#)

# Fund Summary

Fund	Beginning Balance	Total Activity	Total Debits	Total Credits	Ending Balance
410 - UTILITY FUNDS	0.00	40,286.39	40,286.39	0.00	40,286.39
<b>Grand Total:</b>	<b>0.00</b>	<b>40,286.39</b>	<b>40,286.39</b>	<b>0.00</b>	<b>40,286.39</b>