

## DUPAGE WATER COMMISSION

## RESOLUTION NO. R-6-04

A RESOLUTION APPROVING AND RATIFYING CERTAIN  
TASK ORDER(S) UNDER A MASTER ENGINEERING  
AGREEMENT WITH ALVORD, BURDICK & HOWSON, L.L.C.  
AT THE FEBRUARY 12, 2004, DUPAGE WATER COMMISSION MEETING

WHEREAS, the DuPage Water Commission (the "Commission") entered into an agreement with Alvord, Burdick & Howson, L.L.C. (the "Engineers") dated April 13, 2000, to provide, from time to time, professional engineering services in connection with the design and construction of extensions and improvements to the Waterworks System and other projects of the Commission (the "Master Agreement"); and

WHEREAS, the Master Agreement sets forth the terms and conditions pursuant to which the Commission will obtain from time to time, and the Engineers will provide from time to time, professional engineering services for such discrete projects as are delineated and described in Task Order(s) to be approved by the Commission and the Engineers; and

WHEREAS, the Engineers have approved the Task Order(s) attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 (the "Task Order(s)");

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The Task Order(s) attached hereto as Exhibit 1 shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined that the circumstances said to

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necessitate the Task Order(s) were not reasonably foreseeable at the time the Master Agreement was signed, the Task Order(s) are germane to the Master Agreement as signed, and/or the Task Order(s) are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of Article 33E of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2004.

\_\_\_\_\_  
Chairman

ATTEST:

\_\_\_\_\_  
Clerk

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EXHIBIT 1

## **TASK ORDER NO. 18**

In accordance with Section 1 of the Agreement for Engineering Services between the DuPage Water Commission (the "Commission") and Alvord, Burdick & Howson, L.L.C. (the "Engineers"), dated April 13, 2000 (the "Agreement"), the Commission and the Engineers agree as follows:

### **1. Specific Project Data:**

#### **A. Title of the Project:**

Water System Demand Evaluation

#### **B. Description and Scope of the Project:**

The projected water supply needs of DuPage County shall be evaluated based on historical use data, projected land use, population growth projections, economic impacts, and other factors as deemed appropriate. The availability of Lake Michigan water allocations for future water supply needs shall be incorporated into these evaluations.

The evaluation shall be performed in two phases. In the first phase, the Engineers shall analyze the water supply needs of the existing DWC customers and develop a conceptual design for any water system improvements needed to ensure that the future water needs of the existing DWC customers are met. In the second phase, the Engineers shall evaluate the projected water supply needed to expand service into other areas of DuPage County. The detailed scope of services for each phase are described in Section 2 below.

### **2. Services of Engineer:**

#### **A. Basic Services:**

#### **Phase I**

1. Obtain and review data from existing DWC customers including historical water use data, water demand projections, master planning studies, land use studies, capital improvement plans, and any other applicable information.
2. Obtain and review DWC records on historical water use, hydraulic models, system maps, facilities' capacities, and any other applicable information.

3. Using the available data, project future water system demands of existing customers from the present until the year 2034 in five-year increments and compare to current lake water allocations. Prepare an interim report outlining the projected water system demands of each existing customer for review by the DWC and each respective customer.
4. After the interim report has been reviewed with the DWC and each respective customer, evaluate the ability of the existing DWC facilities and the current five year plan improvements to meet the projected future water system demands. Hydraulic computer modeling shall be performed with H<sub>2</sub>ONET software. The hydraulic model shall be verified by using operational records from the DWC.
5. Analyze and determine the conceptual water system improvement needs to address the water supply demand to support community growth.
6. Prioritize improvements to address immediate, intermediate, and long-term needs.
7. After the completion of the water treatment studies by the City of Chicago and selection of the final treatment option, prepare a detailed study with recommendations to the DWC for the elimination and/or reduction of the negative impacts from the current treatment processes.
8. For the interim report, the report on the conceptual water system improvement needs, and the treatment reversal/minimization recommendations, provide color maps, suitable for presentation and showing pertinent information in layers as requested by the DWC staff.
9. Prepare a preliminary draft of the interim report and the report on the conceptual water system improvement needs for review by the DWC staff.
10. Incorporate DWC comments into the final version of the interim report and the report on the conceptual water system improvement needs.
11. Prepare and make formal presentations to interested parties as requested by the DWC.

## Phase II

After written authorization to proceed and utilizing the information developed during the first phase of the work:

1. Obtain and review water use data from other water systems in DuPage County. For areas that currently do not have a water system, obtain land use and population information to project future water demand.
2. Obtain and review existing Lake Michigan water allocation data in DuPage County areas not served by the DWC.
3. Using the available data, project future water system demands of potential DuPage County customers from the present until the year 2034 in five-year increments and compare to current lake water allocations where applicable.
4. Evaluate the ability of the existing DWC facilities and the current five year plan improvements to meet the projected future water system demands. Hydraulic computer modeling shall be performed with H<sub>2</sub>ONET software
5. Analyze and determine the conceptual water system improvement needs to address the water supply demand for the identified potential customers.
6. Prioritize improvements to address immediate, intermediate, and long-term needs.
7. For the report on the projected future water system demands and the report on the conceptual water system improvement needs, provide color maps, suitable for presentation and showing pertinent information in layers as requested by the DWC staff.
8. Prepare a preliminary draft of the report on the projected future water system demands and the report on the conceptual water system improvement needs for review by the DWC staff.
9. Incorporate DWC comments into the final version of the report on the projected future water system demands and the report on the conceptual water system improvement needs.
10. Prepare and make formal presentations to interested parties as requested by the DWC.

B. Additional Services

As requested by the Commission in writing.

**3. Approximate Study and Report Period:**

Phase I - Four months from date that data from existing DWC customers is received

Phase II – Two months from date that data is received from other water systems in DuPage County

**4. Approximate Construction Period:**

None

**5. Indirect Costs Factor:**

1.8

**6. Not to Exceed Costs:**

Phase I - \$467,300 (not to exceed)

Phase II - \$184,200 (not to exceed)

**7. Other Modifications of Agreement:**

The amounts charged for “Engineers’ Cost” may exceed those generally charged to Engineers' most favored commercial clients in the Continental United States.

Drawings, plans, specifications, photos, reports, information, observations, calculations, notes and any other reports, documents, data or information, in any form, prepared, collected, or received by the Engineers in connection with this Task Order (the “Documents”) shall be and remain the property of the Commission and shall not, without the prior express written consent of the Commission, be used for any purpose other than performance of the Services. At the Commission’s request, or upon termination of this Task Order, the Documents shall be delivered promptly to the Commission.

**8. Attachments:**

None

Approval and Acceptance: Acceptance and approval of this Task Order, including the attachments listed above, shall incorporate this document as part of the Agreement.

The Effective Date of this Task Order is February 13, 2004.

DUPAGE WATER COMMISSION

BY: \_\_\_\_\_  
Robert L. Martin, P.E.  
Acting General Manager

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: Robert L. Martin, P.E.  
Title: Acting General Manager  
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ALVORD, BURDICK & HOWSON, L.L.C.

BY: \_\_\_\_\_  
J. Warren Green, P.E.  
Partner

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: J. Warren Green  
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