



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718  
Denver, CO 80203

1/10/18

Lori Koeppsel  
Peak Spatial Enterprises  
20220 Twisted Pine Dr.,  
Colorado Springs, CO 80908

RE: CWP GRANTS - OFFICIAL NOTICE TO PROCEED - POGG1 PDAA 201800000658-  
Peak Spatial Enterprises/Chambers Econ and Analytics- Water Information/Real  
Estate Disclosure Site

Dear Lori Koeppsel,

This letter is to inform you that the purchase order to assist in the above Colorado's Water Plan grant project has been approved. The documents attached to the email correspondence serve as your original contract documents.

With the executed agreement, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through 1/10/2023. Please provide the project name and POGG1 number when corresponding with or invoicing for your project along with back-up documentation of cost incurred for the portion of the grant according to the original scope of work tasks. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

Please refer to the CWP Grant Guidelines on our website for the six month progress report and final deliverable requirements in order to avoid a delay in payment. A 30-day advance notice in an official letter of request to the CWCB project manager is required in the event you are seeking an amendment to the term of this agreement.

If you have any questions or concerns regarding the project, please contact Kevin Reidy, Project Manager at 303-866-3441 x3252 or at [Kevin.reidy@state.co.us](mailto:Kevin.reidy@state.co.us). When submitting invoices and progress reports, please cc both the PM and [waterplan.grants@state.co.us](mailto:waterplan.grants@state.co.us).

Thank you.





STATE OF COLORADO  
Department of Natural Resources

|   |                            |   |            |                  |                   |                          |
|---|----------------------------|---|------------|------------------|-------------------|--------------------------|
| <b>ORDER</b>  |                            | <b>** IMPORTANT **</b>  |            |                  |                   |                          |
| Number: POGG1 PDAA 201800000658   |                            | The order number and line number must appear on all invoices, packing slips, cartons and correspondence |            |                  |                   |                          |
| Date: 01/10/18  |                            |   |            |                  |                   |                          |
| Description:<br>Water Plan Grant water loss tool for new home buyers  |                            | <b>BILL TO</b>  |            |                  |                   |                          |
| Effective Date: 01/10/18      Expiration Date: 01/10/23   |                            | COLORADO WATER BOARD CONSERVATION<br>1313 SHERMAN STREET, ROOM 718<br>DENVER, CO 80203                  |            |                  |                   |                          |
| <b>BUYER</b>  |                            | <b>SHIP TO</b>  |            |                  |                   |                          |
| Buyer:  |                            | COLORADO WATER BOARD CONSERVATION   |            |                  |                   |                          |
| Email:  |                            | 1313 SHERMAN STREET, ROOM 718<br>DENVER, CO 80203   |            |                  |                   |                          |
| <b>VENDOR</b>   |                            | <b>SHIPPING INSTRUCTIONS</b>  |            |                  |                   |                          |
| PEAK SPATIAL ENTERPRISES INC  |                            | Delivery/Install Date:  |            |                  |                   |                          |
| 20220 TWISTED PINE DRIVE  |                            | F.O.B:  |            |                  |                   |                          |
| COLORADO SPRINGS, CO 80908  |                            | <b>VENDOR INSTRUCTIONS:</b>   |            |                  |                   |                          |
| Contact: DOUG COLLINS   |                            |   |            |                  |                   |                          |
| Phone: 7193380245   |                            |   |            |                  |                   |                          |
| <b>Line Item</b>  | <b>Commodity/Item Code</b> | <b>UOM</b>  | <b>QTY</b> | <b>Unit Cost</b> | <b>Total Cost</b> | <b>MSDS Req.</b>         |
| 1   | G1000                      |   | 0          | 0.00             | \$60,042.00       | <input type="checkbox"/> |
| Description: Water Plan Grant water loss tool for new home buyers   |                            |   |            |                  |                   |                          |
| Service From: 01/10/18      Service To: 01/10/23  |                            |   |            |                  |                   |                          |
| <b>TERMS AND CONDITIONS</b>   |                            |   |            |                  |                   |                          |
| <a href="https://www.colorado.gov/osc/purchase-order-terms-conditions">https://www.colorado.gov/osc/purchase-order-terms-conditions</a> |                            |   |            |                  |                   |                          |
| <b>DOCUMENT TOTAL = \$60,042.00</b>   |                            |   |            |                  |                   |                          |



Last Updated: July 5, 2017

## Colorado Water Conservation Board

### Water Plan Grant - Exhibit A

#### Statement Of Work

|                               |   |
|-------------------------------|---|
| <b>Date:</b>                  | <b>August 1, 2017</b>   |
| <b>Name of Applicant:</b>     | <b>Peak Spatial Enterprises Inc. and Chambers Econ and Analytics, LLC</b> |
| <b>Name of Water Project:</b> | <b>Water Information / Real Estate Disclosure Tool - H2info</b>           |
| <b>Funding Source:</b>        | <b>CWP</b>  |

**Water Project Overview:** Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application.

Our proposed water information disclosure tool is a free, online, public data aggregation and disclosure tool linking water supplier information with property buyers and real estate MLS to increase property buyer awareness of address specific conservation plans, water planning, and municipal water suppliers. The public's use of the tool directly supports the statewide conservation ethic recognizing the need to work within our arid environment, increases specific understanding of conservation practices, and reduces wasteful behavior.

The tool consolidates and communicates water information in a user friendly, accessible format allowing users to search by property address. With more than 50K annual real estate transactions from Denver to Pueblo Counties, these typically municipal buyers are closely tuned into water metrics and conservation tools that apply to property transaction in which they have a stake.

The real estate community is incentivized to use the tool to inform and serve all types of clients. Water suppliers benefit from consumer understanding of supplier details. Home buyer participation in water understanding and engagement provides the foundation needed to meet the CWP stretch goal.

The project serves the mission of the CWP and as a public good; therefore, matching WSRF funds are sought from Statewide and Basin accounts.

**Objectives:** List the objectives of the project.

Online information communication tool to provide water supplier, conservation planning, performance metrics and Colorado Water Plan information to Front Range real estate market participants and professions (buyers, sellers, brokers, agents, mortgage bankers, inspectors and more).

Key Objectives include the following:

Water Supplier Transparency; Easy Access to Water Conservation Plans; Increased Real Estate Community and Buyer Awareness of Water Supply Information; Expansion of Front Range Citizens Understanding and Interaction with Water Supply Information; Provision of Easily Accessible and User Friendly Water Information focused on Real Property; Provision of Comparative Water Information based on Addresses; Create a Publicly Available Resource for Dissemination of State Required Water Data; Create "Ripple Effect" of public access to consolidate source of accurate and user friendly data on Front Range municipal water supply.



Last Updated: July 5, 2017

| Tasks   |
|---|
| Provide a detailed description of each project task using the following format:   |
| <b>Task 1 – Define Water Supplier Attributes/Build GeoDatabase</b>  |
| Description of Task: <p>The primary objective of this task is to establish the initial list of water supplier attributes to be used in the consumer system. An initial list has been developed and it includes a number of key metrics that we believe will be useful and informative to real estate buyers. The task will determine what State metrics might be accessed as well as metrics that the tech/ops team believes would be most useful to a real estate buyer. The team has already begun this process of identifying and collecting candidate attributes. Possible attributes include:</p> <ul style="list-style-type: none"><li>• Utility Analytical Tools and Performance Metrics<ul style="list-style-type: none"><li>○ Financial position summary including outstanding debt</li><li>○ S&amp;P Bond Rating</li><li>○ Annual O&amp;M budget per service connection</li><li>○ Avg. annual investment in capital projects / resource acquisition</li><li>○ % mix renewable water resources vs. non-renewable Denver Basin</li><li>○ Avg. annual main breaks per 100 miles of pipe</li><li>○ AWWA M36 Water Loss audit calculation</li><li>○ Avg. annual budget for water conservation</li><li>○ ISO fire protection rating that drives insurance premiums</li></ul></li><li>• Core Infrastructure and Water Resource Mapping</li><li>• Proximity to Wells/Aquifers/Ditch/Irrigation Companies</li><li>• Overlay of other utility provider service areas for natural gas and electric</li><li>• Overlay mapping of Water Conservation Districts, Groundwater Management District's, Fire Protection District's and State &amp; Federal Lands.</li><li>• Copy of Water Service Provider's Consumer Confidence Report (CCR)</li><li>• Copy of Water Service Providers Water Conservation Plan</li></ul> |
| Method/Procedure: <p>Technical development of the geodatabase will be accomplished by the Peak team with discussions and meetings with water suppliers primarily conducted by Chambers Econ and Analytics. The methods will include a combination of searching water supplier sites for publicly supplied information as well as direct interactions with water supplier management to determine the accessibility of this information. The team will also discuss the types of information available and required at the State level for inclusion in the geodatabase. The basic conservation plans required at the State level are of particular interest and may be included by connecting to individual water supplier sites or by accessing them through available State repositories.</p>   |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task <p>The team will provide a list of attributes and their database structure that will be used to support the water disclosure system. This task will be an iterative task where we propose meeting with the CWCB to coordinate the specific attributes included in the system and any issues that the team might encounter as they develop the database. The team recommends that this task include monthly reviews of the basic database activities up to the point of making the specific determination of included information for the deployed system development and operations.</p>   |



Last Updated: July 5, 2017

| Tasks   |
|---|
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task                      |
| Monthly meetings to discuss the database process and results. These meetings will be coordinated with the CWCB upon grant initiation. |

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| Tasks  |
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| Provide a detailed description of each task using the following format:  |
| <b>Task 2 – Build and Test the Water Disclosure System</b>   |
| Description of Task:   |
| <p>This task makes up the bulk of the work associated with system implementation. Once the initial task of defining initial attributes is completed the tech team will build and test the user interfaces and connections needed to provide the baseline water disclosure system for public operations. The “build” component includes:</p> <ul style="list-style-type: none"> <li>• Populating the geodatabase with selected attributes,</li> <li>• Development of the geospatial retrieval, by address, of the water supplier information,</li> <li>• Development of User Interfaces (mobile/web) to access the information, and</li> <li>• Development of the report(s) that a user might retrieve from the system.</li> </ul> <p>Each of these components will be tested by the development team and will be demonstrated to the supporting water grant providers for their input.</p> |
| Method/Procedure:  |
| <p>The team will build the basic system and will work with the CWCB and river basin leads to demonstrate the basic functionality as the system evolves. This task is projected to last approximately 3 months depending on the input and modifications required or requested by the Grantor.</p>   |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task   |
| <p>The deliverables include the initial tested versions of the production database with water supplier attributes, the geospatial address retrieval geoprocessing services, the User Interfaces linked to the retrieval and database, and the report(s) that can be accessed through the system.</p>   |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task   |
| <p>The online system that includes public access to the retrieval of water supplier information via address selection.</p>   |



Last Updated: July 5, 2017

| Tasks   |
|---|
| Provide a detailed description of each task using the following format:   |
| <b>Task 3 – <u>Coordinate with Real Estate MLS and other Beneficiaries</u></b>  |
| Description of Task:<br><br>This task will be conducted concurrently with system development and will continue through the operational implementation of the system. The team will meet with select Colorado MLS sponsors in the County regions of interest to educate them on the availability of the data and use of the system. The team will work with the real estate community to determine the best ways to provide realtors and their customers the information that they might want to include water supply information as part of the buyer's choice. |
| Method/Procedure:<br><br>The team will identify candidate Real Estate MLS organizations and will set up and conduct meetings and demonstrations of the system to get their input and provide them the information that they would need to access the system within their organizations.   |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task<br><br>List of Real Estate MLS organizations<br>Meeting notes on specific interactions with these MLS groups including any recommendations received as a result of these meetings.   |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task<br><br>List of Real Estate MLS organizations<br>Meeting notes on specific interactions with these MLS groups including any recommendations received as a result of these meetings.   |



Last Updated: July 5, 2017

| Tasks  |
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| Provide a detailed description of each task using the following format:  |
| <b>Task 4 – <u>Deploy and Operate the Water Disclosure System</u></b>  |
| Description of Task:<br><br>Following successful testing the system will be migrated to an operational server and the site will be publicly posted for access by the public. The system will operate from the Peak Spatial hosted servers at a secure facility in Colorado Springs. Updates to the database and the system will occur throughout the operational period as new information is identified and added to the system. These updates would include modifications made by water districts as they update their conservation plans and other data that is part of the system. |
| Method/Procedure:<br><br>The system will operate on a 24/7 basis for use by the public and real estate professionals and organizations as they review possible property acquisitions. The system will be online so there will be operational costs of running the system from the hosting facility along with any updates and maintenance mods that might be required after deployment.  |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task<br><br>The operational system running online for the duration of the operational 18 month period.   |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task<br><br>The operational system running online for the duration of the operational 18 month period.   |





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| Tasks  |
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| Provide a detailed description of each task using the following format:  |
| <b>Task 5 – <u>System Operational Status and Performance Metrics</u></b>   |
| Description of Task:<br><br>During the deployment and operations phase of the task the team will collect metrics on the use of the system to determine the effectiveness and utility of the data provided to the public. This data collection effort will be coordinated during the development phase of the task so that metrics can be collected to determine basic information about the site.<br><br>The team will prepare quarterly updates on use of the site for the CWCB and will use this information to update and modify the site during the operational period to better serve the information needs of the public and the benefactors of the system |
| Method/Procedure:<br><br>The method used for this particular task will be collection of information via web access metrics associated with the site as they are developed during the system development task. The team will include in the design of the system mechanisms to track access and use. The output of this tracking will be the quarterly reports to the CWCB of use of the system   |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task<br><br>Access tracking tools for the system<br>Quarterly reports to the CWCB during the operational period.   |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task<br><br>Quarterly reports on access and use of the system.   |



Last Updated: July 5, 2017

| Tasks  |
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| Provide a detailed description of each task using the following format:  |
| <b>Task 6 – <u>Update and Maintain System</u></b>  |
| Description of Task:   |
| The team will update and maintain the system during the period of operations as determined to be necessary. This may include modification to the server operating systems, database updates, and any required updates to the geospatial software components.   |
| Method/Procedure:  |
| The team will make any updates to the system after they coordinate possible activities with the CWCB. Recommendations as to the updates to be made will be accomplished by the tech team and, in coordination with the CWCB, will be made at times that are the least impactful to the public users. |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task   |
| Updates to the system that allow the system to maintain viability and security through the deployment period.  |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task   |
| A quarterly report on any updates will be included with the basic operational metrics collected as part of Task 5 – System Operational Status  |
| Budget and Schedule  |
| This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.  |

| Reporting Requirements  |
|---|
| <b>Progress Reports:</b> The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted. |

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## Reporting Requirements

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will withhold disbursement the last 10% of the budget until the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.



STATE OF COLORADO  
Department of Natural Resources

|   |                            |   |            |                  |                   |                          |
|---|----------------------------|---|------------|------------------|-------------------|--------------------------|
| <b>ORDER</b>  |                            | <b>** IMPORTANT **</b>  |            |                  |                   |                          |
| Number: POGG1 PDAA 201800000658   |                            | The order number and line number must appear on all invoices, packing slips, cartons and correspondence |            |                  |                   |                          |
| Date: 01/10/18  |                            |   |            |                  |                   |                          |
| Description:<br>Water Plan Grant water loss tool for new home buyers  |                            | <b>BILL TO</b>  |            |                  |                   |                          |
| Effective Date: 01/10/18      Expiration Date: 01/10/23   |                            | COLORADO WATER BOARD CONSERVATION<br>1313 SHERMAN STREET, ROOM 718<br>DENVER, CO 80203                  |            |                  |                   |                          |
| <b>BUYER</b>  |                            | <b>SHIP TO</b>  |            |                  |                   |                          |
| Buyer:  |                            | COLORADO WATER BOARD CONSERVATION   |            |                  |                   |                          |
| Email:  |                            | 1313 SHERMAN STREET, ROOM 718<br>DENVER, CO 80203   |            |                  |                   |                          |
| <b>VENDOR</b>   |                            | <b>SHIPPING INSTRUCTIONS</b>  |            |                  |                   |                          |
| PEAK SPATIAL ENTERPRISES INC  |                            | Delivery/Install Date:  |            |                  |                   |                          |
| 20220 TWISTED PINE DRIVE  |                            | F.O.B:  |            |                  |                   |                          |
| COLORADO SPRINGS, CO 80908  |                            | <b>VENDOR INSTRUCTIONS:</b>   |            |                  |                   |                          |
| Contact: DOUG COLLINS   |                            |   |            |                  |                   |                          |
| Phone: 7193380245   |                            |   |            |                  |                   |                          |
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| 1   | G1000                      |   | 0          | 0.00             | \$60,042.00       | <input type="checkbox"/> |
| Description: Water Plan Grant water loss tool for new home buyers   |                            |   |            |                  |                   |                          |
| Service From: 01/10/18      Service To: 01/10/23  |                            |   |            |                  |                   |                          |
| <b>TERMS AND CONDITIONS</b>   |                            |   |            |                  |                   |                          |
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| <b>DOCUMENT TOTAL = \$60,042.00</b>   |                            |   |            |                  |                   |                          |