

**ADDENDUM TO CONTRACT FOR SERVICES
BY INDEPENDENT CONTRACTOR**

THIS THIRD ADDENDUM is to that Contract executed on October 20, 2020, and amended on January 06, 2021, and March 17, 2021, between the Siskiyou County Flood Control and Water Conservation District (District) and Larry Walker Associates, Inc. (Contractor).

WHEREAS, the term of the contract needs to be extended to reflect continued work by the contractors; and,

WHEREAS, the need for additional subcontractor labor is anticipated.

NOW THEREFORE, THE PARTIES MUTUALLY AGREE AS FOLLOWS:

The term of the contract shall be extended through April 30, 2022.

Section 4.04 of the contract titled "Expenses" shall be replaced in its entirety to read "Contractor shall be responsible for all costs and expenses incident to the performance of services for County, including but not limited to, all costs of materials, equipment, all fees, fines, licenses, bonds or taxes required of or imposed against Contractor and all other of Contractor's costs of doing business, excepting those expenses that are set forth in Exhibit A. Contractor shall provide County with itemized original receipts for those expenses to be reimbursed.

Exhibits "A" will be replaced in their entirety with the attached "Exhibit A".

All other terms and conditions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, District and Contractor have executed this addendum on the dates set forth below, each signatory represents that he/she has the authority to execute this agreement and to bind the Party on whose behalf his/her execution is made.

Date: 7/20/2021

COUNTY OF SISKIYOU

DocuSigned by:

Ray A. Haupt

Ray A. Haupt, Chair
Siskiyou County Flood Control
and Water Conservation District
County of Siskiyou
State of California

ATTEST:
LAURA BYNUM
Clerk, Board of Supervisors

By: Laura Bynum
Deputy

CONTRACTOR: Larry Walker Associates

Date: 7/19/2021

DocuSigned by:
Brian M. Laursen
844AC3437923497...

Date: 7/20/2021

DocuSigned by:
Karen Ashley
844AC3437923497...

License No.: _____
(Licensed in accordance with an act providing for the registration of contractors)

Note to Contractor: For corporations, the contract must be signed by two officers. The first signature must be that of the chairman of the board, president or vice-president; the second signature must be that of the secretary, assistant secretary, chief financial officer or assistant treasurer. (Civ. Code, Sec. 1189 & 1190 and Corps. Code, Sec. 313.)

TAXPAYER I.D. 94-2610668

ACCOUNTING:

Fund	Organization	Account	Activity Code (if applicable)
2528	205010	723000	Prop 68 Grant

Encumbrance number: E2100358

If not to exceed, include amount not to exceed: \$1,015,000 for FY 2020/2021, FY 2021/2022.

If needed for multi-year contracts, please include separate sheet with financial information for each fiscal year.

The Scope of Work to be performed by the contractor directly reflects the work plan as described in the Prop 68 Grant contract, included as Exhibit C of the contract.

WORK PLAN

Project Title: Scott, Shasta and Butte Valley Groundwater Basins GSP Development

Project Description: The primary goal is to complete the work necessary to develop GSPs for the Shasta River Valley, Scott Valley, and Butte Valley Groundwater Basins, and ensure sustainability into the future.

Component 1: Grant Administration

Prepare and submit required documents outlined in the grant award letter. Work with DWR staff to develop and execute the Grant Agreement. Prepare progress reports detailing work completed during reporting period as outlined in Exhibit F of this Agreement. Progress Reports will include sufficient information for DWR program manager to understand and review backup documentation submitted with invoices. Quarterly invoices should accompany the Progress Reports and should be submitted to the DWR Project Manager for review to receive reimbursement on eligible funds per the Grant Agreement. Collect and organize backup documentation by task and prepare a summary document.

Submit a deliverable due date schedule within 30 days of execution of Amendment 1 of this Agreement or any future amendments, where the amendment would result in a change in the deliverables and/or schedule, for DWRs Project Manager's review and approval. Edits made to the schedule must be approved by the DWR Project Manager in advance.

Prepare Draft Grant Completion Report and submit to DWR for Project Manager's comment and review no later than 90 days before the work completion listed on Page 1, Paragraph 2. Prepare Final Grant Completion Report addressing the Project Manager's comments 30 days before the work completion listed in Paragraph 2. The report shall be prepared and presented in accordance with the provisions of Exhibit F. All deliverables outlined in Exhibit A are due prior to the Final Grant Completion report as outlined in the approved deliverable due date schedule.

Deliverables:

- Environmental Information Form
- Quarterly invoices and backup documentation
- Quarterly Progress Reports
- Final Grant Completion Report

Component 2: GSP Development for the Scott River Valley Groundwater Basin

Category (a): Stakeholder Outreach and Engagement

Provide public outreach and engagement through regular GSA meetings, special meetings, outreach letters and emails, and opportunities to provide comments through Scott Valley Groundwater Advisory Committee (Advisory Committee) meetings. Provide training for staff to attend seminars to become educated on GSP development and implementation. Organize and host meetings and events, distribute public notices and documents, create and maintain a SGMA website and social media page(s), provide SGMA updates at city meetings, irrigation/water GSA meetings, etc., and develop educational handouts for distribution. Outreach to and appoint Advisory Committee board, organize and host meetings, manage and administer activities of the Advisory Committee.

Deliverables:

- Link to District website/webpage
- Resolution outlining formation of Advisory Committee and list of appointed members
- Summary of all outreach and engagement activities included as an attachment in the quarterly Progress Report

Category (b): Planning Activities**Task 1: Data Collection, Development, and Management**

Compile and organize available data for GSP development, determine data gaps and collect additional necessary data to complete the GSP. Refine the existing Siskiyou County Well Program and perform a well audit. Transition the Siskiyou County CASGEM Program from Siskiyou County Environmental Health Division to the Department of Natural Resources for work associated with the Scott River Valley Groundwater Basin (Basin). Identify and determine how to address data gaps.

Deliverables:

- Document outlining CASGEM program
- Document outlining data gaps and needs

Task 2: Conceptual Model, Numerical Model Development, and Water Budget

Develop and document a conceptual model of the groundwater basin, develop an enhanced version and documentation of the Scott Valley Integrated Hydrologic Model, and develop the Scott Valley water budget. Prepare water budget for wet year, dry year, and average year scenarios, including seasonal water budgets for each.

Deliverables:

- Technical Memorandum on the updated model and results

Task 3: Sustainability Criteria Development

Develop the protocols for achieving and/or maintaining groundwater sustainability throughout the Basin by identifying potential undesirable results and determining how to meet sustainability criteria; identifying criteria that are being met and determining how to best sustain them over the long-term through implementation of the GSP; and establishing minimum thresholds and measurable objectives to achieve sustainability in the Basin.

Deliverables:

- Summary of findings

Task 4: Monitoring Programs, Protocols and Networks

Develop a groundwater monitoring program to assess conditions throughout the Basin and provide a centralized data and information management system. Develop a Basin-Wide Groundwater Sustainability Data Collection and Monitoring Plan (Plan), including discussion of:

- Groundwater monitoring network development;
- CASGEM program update to include reporting protocols (separate from Task 1 work);
- Monitoring database development;
- Monitoring annual report requirements and identification of monitoring entity; and
- Stream gauging program that includes current stream gauges and assesses the need for additional stream gauges for long term data collection

Deliverables:

- Monitoring Plan

Task 5: Groundwater Management Actions

Develop groundwater management programs and implement projects like the Scott Valley Recharge Pilot Study, in-lieu recharge, and Beaver Dam Analogues, to assist in-groundwater recharge development and study beneficial impacts to the Scott River when additional flows are needed during certain times of the year. Develop future groundwater modeling scenarios (from which proposed water budgets will be prepared) which may include DWR climate change scenarios and groundwater replenishment projects. Expand the existing

Groundwater Level Monitoring Program and stream discharge and temperature monitoring building on work from Task 1.

Deliverables:

- Summary of findings

Task 6: Round 3 Model Updates

Incorporate predicted changes in snowpack into the model. Calculate and account for mountain-front recharge (MFR) and streamflow entering the model domain via tributaries in wet and dry years.

Deliverables:

- Summary of findings

Task 7: Monitoring Baseline Conditions

Document baseline data to enhance understanding of surface water-groundwater interactions and the design and implementation of future recharge projects. Establish baseline conditions to enable meaningful comparisons for evaluating the impact of future recharge projects. Install stream gages in identified key tributaries to collect data required to more accurately represent the contributions of tributaries to the Scott River and the groundwater basin. Select and instrument wells, surface water gages and record flow, temperature, conductivity to better understand surface water-groundwater interactions, support the design and implementation of groundwater recharge projects, and quantify project benefits. Determine the instantaneous hydraulic gradient where groundwater meet the stream to constrain spatial variability of stream-aquifer exchange across the streambed.

Deliverables:

- Baseline Conditions Monitoring and Instrumentation Installation Technical Memorandum

Task 8: Isotopic Recharge Study

Collect water samples from wells, springs, and surface water bodies and analyze the samples for geochemical and isotopic tracers to better understand recharge elevation, water-rock interactions, and groundwater travel times. Send water samples to be analyzed at research facilities at University of California, Davis and the Lawrence Livermore National Laboratory for sulfur-35 (87.4 day half-life), sodium-22 (2.6 year half-life), tritium (12.3 year half-life), krypton-85 (10.8 year half-life), carbon-14 (5,730 year half-life), dissolved noble gases, general water chemistry (major anions and cations), and stable isotopes of water ($\delta^2\text{H}$ and $\delta^{18}\text{O}$) and carbon ($\delta^{13}\text{C}$). Utilize findings from this study to enhance the hydrogeological conceptual model and delineate primary recharge areas. Prepare a report that describes the work completed and findings from this study.

Deliverables:

- Isotopic Recharge Report

Category (c): GSP Preparation

Develop a comprehensive GSP for the Basin based on the results from Category (b) tasks that meets the SGMA requirements and DWR regulations.

Deliverables:

- Proof of submittal of Final Scott River Valley GSP to DWR

Component 3: GSP Development for the Shasta Valley Groundwater Basin

Category (a): Stakeholder Outreach and Engagement

Provide public outreach and engagement through regular GSA meetings, special meetings, outreach letters and emails, and opportunities to provide comments through Scott Valley Groundwater Advisory Committee (Advisory Committee) meetings. Provide training for staff to attend seminars to become educated on GSP development and implementation. Organize and host meetings and events, distribute public notices and documents, create and maintain a SGMA website and social media page(s), provide SGMA updates at city meetings, irrigation/water GSA meetings, etc., and develop educational handouts for distribution. Outreach to and appoint Advisory Committee board, organize and host meetings, manage and administer activities of the Advisory Committee.

Deliverables:

- Link to District website/webpage
- Resolution outlining formation of Advisory Committee and list of appointed members
- Summary of all outreach and engagement activities included as an attachment in the quarterly Progress Report

Category (b): Planning Activities

Task 1: Data Collection, Development, and Management

Compile and organize available data for GSP development, determine data gaps and collect additional necessary data to complete the GSP. Refine the existing Siskiyou County Well program and perform well audit. Transition the Siskiyou County CASGEM Program from Siskiyou County Environmental Health Division to the Department of Natural Resources for work associated with the Shasta Valley Groundwater Basin (Basin). Identify and determine how to address data gaps.

Deliverables:

- Document outlining CASGEM program
- Document outlining data gaps and needs

Task 2: Conceptual Model, Numerical Model Development, and Water Budget

Develop and document a conceptual model of the groundwater basin, develop the Shasta Valley Hydrologic Numerical Model including recharge areas, and develop the Shasta Valley water budget for wet year, dry year, and average year scenarios, including seasonal water budgets for each.

Deliverables:

- Technical Memorandum on the updated model and results

Task 3: Sustainability Criteria Development

Develop the protocols for achieving and/or maintaining groundwater sustainability throughout the Basin by identifying potential undesirable results and determining how to meet sustainability criteria; identifying criteria that are being met and determining how to best sustain these over the long-term through implementation of the GSP; and establishing minimum thresholds and measurable objectives to achieve sustainability in the Basin.

Deliverables:

- Summary of findings

Task 4: Monitoring Programs, Protocols and Networks

Develop a groundwater monitoring program to assess conditions throughout the Basin and provide a centralized data and information management system. Develop Basin-Wide Groundwater Sustainability Data Collection and Monitoring Plan (Plan), including discussion of:

- Groundwater monitoring network development;
- CASGEM program update to include reporting protocols;
- Monitoring database development;
- Monitoring annual report requirements and identification of monitoring entity; and
- Stream gauging program that includes current stream gages and assesses the need for additional stream gauges.

Deliverables:

- Monitoring Plan

Task 5: Groundwater Management Actions: Development, Assessment, and Implementation

Develop groundwater management programs and implement projects like the Scott Valley Recharge Pilot Study, in-lieu recharge, and Beaver Dam Analogues, to assist in-groundwater recharge development and study beneficial impacts to the Scott River, when additional flows are needed during certain times of the year. Develop future groundwater modeling scenarios (from which proposed water budgets will be prepared) which may include DWR climate change scenarios and groundwater replenishment projects. Expand the existing Groundwater Level Monitoring Program and stream discharge and temperature monitoring building on work from Task 1.

Deliverables:

- Summary of findings

Task 6: Round 3 Model Updates

Coordinate with the State Water Resources Control Board (SWRCB) and collaborate on the hydrology modeling efforts in the Shasta River watershed. Develop a GSFLOW model based on integration of a Precipitation Run-off Modeling System (PRMS) and MODFLOW. Work with the SWRCB to assess how water resources within the Shasta Basin could impact management of the Klamath River. Estimate instream flows, depict how human activities affect the water balance, simulate groundwater pumping, and simulate surface-subsurface interactions.

Deliverables:

- Model Updates Technical Memorandum
- Minutes from SWRCB coordination meetings

Task 7: Rain Gage Installation

Site locations and install up to ten (10) rain gages to better characterize precipitation and estimate runoff. Prepare a technical memorandum that describes work completed in this task.

Deliverables:

- Rain Gage Installation Technical Memorandum

Task 8: Geophysical Investigations

Conduct a combination of electrical resistivity and electromagnetic conductivity surveying methods at key groundwater-surface interface locations with critical groundwater-dependent ecosystems and in areas where depth to groundwater is poorly constrained (specifically, locations far from seasonal and/or continuous well monitoring data and where abrupt changes in horizontal aquifer lithology occur). Define key areas for

investigation during development of the preliminary hydrogeological conceptual model. Conduct conductivity surveys by towing a ground conductivity meter to rapidly collect high-resolution, shallow (to about 20-25 feet) electrical conductivity surveys across zones of critical groundwater/surface-water interaction and sparse groundwater elevation data in Shasta Valley. Conduct electrical resistivity surveys with lines of connected, grounded electrodes, to estimate deeper subsurface aquifer properties and structure (< 400 feet). Process and invert data collected. Prepare a technical memorandum that describes work completed and findings from this task.

Deliverables:

- Geophysical Surveys Technical Memorandum

Category (c): GSP Preparation

Develop a comprehensive GSP for the Basin based on the results from Category (b) tasks that meets the SGMA requirements and DWR regulations.

Deliverables:

- Proof of submittal of Final Shasta Valley GSP to DWR

Component 4. GSP Development for the Butte Valley Groundwater Basin

Category (a): Stakeholder Outreach and Engagement

Provide public outreach and engagement through regular GSA meetings, special meetings, outreach letters and emails, and opportunities to provide comments through Scott Valley Groundwater Advisory Committee (Advisory Committee) meetings. Provide training for staff to attend seminars to become educated on GSP development and implementation. Organize and host meetings and events, distribute public notices and documents, create and maintain a SGMA website and social media page(s), provide SGMA updates at city meetings, irrigation/water GSA meetings, etc., and develop educational handouts for distribution. Outreach to and appoint Advisory Committee board, organize and host meetings, manage and administer activities of the Advisory Committee.

Deliverables:

- Link to District website/webpage
- Resolution outlining formation of Advisory Committee and list of appointed members
- Summary of all outreach and engagement activities included as an attachment in the quarterly Progress Report

Category (b): Planning Activities

Task 1: Data Collection, Development and Management, and SGMA Education

Compile and organize available data for GSP development, determine data gaps and collect additional necessary data to complete the plan. Refine the existing Siskiyou County Well Program and perform a well audit. Transition the Siskiyou County CASGEM Program from Siskiyou County Environmental Health Division to the Department of Natural Resources for work associated with the Butte Valley Groundwater Basin (Basin). Identify and determine how to address data gaps.

Deliverables:

- Document outlining CASGEM program
- Document outlining data gaps and needs

Task 2: Document Groundwater and Surface Water Conditions and Develop Water Budget

Document current and historic groundwater and streamflow conditions and prepare a water budget incorporating climate, streamflow, land use, soil properties, and hydrogeologic data collected in other Tasks.

Deliverables:

- Summary of findings

Task 3: Sustainability Criteria Development

Develop the protocols for achieving and/or maintaining groundwater sustainability throughout the Basin by identifying potential undesirable results and determine how to meet sustainability criteria; identifying criteria that are being met and determine how to best sustain these over the long-term through implementation of the GSP, and establishing minimum thresholds and measurable objectives to achieve sustainability in the Basin.

Deliverables:

- Summary of findings

Task 4: Monitoring Programs, Protocols and Networks

Develop a groundwater monitoring program to assess conditions throughout the Basin and provide a centralized data and information management system. Develop Basin-Wide Groundwater Sustainability Data Collection and Monitoring Plan (Plan), including discussion of:

- Groundwater monitoring network development;
- CASGEM program update to include reporting protocols;
- Monitoring database development;
- Monitoring annual report requirements and identification of monitoring entity; and
- Stream gauging program that includes current stream gages and assesses the need for additional stream gauges

Deliverables:

- Plan to be included in GSP

Task 5: Groundwater Management Actions: Development, Assessment, and Implementation

Develop groundwater management programs by implementing projects like the Scott Valley Recharge Pilot Study, in-lieu recharge, and Beaver Dam Analogues, to assist in-groundwater recharge development and study beneficial impacts to the Scott River when additional flows are needed during certain times of the year. Develop future groundwater modeling scenarios (from which proposed water budgets will be prepared) which may include DWR climate change scenarios and groundwater replenishment projects. Expand the existing Groundwater Level Monitoring Program and stream discharge and temperature monitoring building on work from Task 1.

Deliverables:

- Summary of findings

Task 6: Model Updates

A three-dimensional groundwater flow model of the Butte Valley watershed will be developed in MODFLOW to refine deep groundwater flow out of the system. The Klamath River to the north will be considered the dominant control of hydraulic head in the region. Boundary flow to the east of the watershed, towards the Lower Klamath National Wildlife Refuge, will be modeled based on regional groundwater flow models developed by the USGS. Recharge rates in the undeveloped southern portion of the watershed will be estimated based on regional USGS rainfall-runoff models. Increased understanding of surface fluxes is being developed through installation of rain gauges throughout Butte Valley. Groundwater levels measured through the CASGEM program as well as through SGMA data collection will be used to calibrate the groundwater model. Prepare a technical memorandum that describes work completed and findings from this task.

Deliverables:

- Model Update Technical Memorandum

Task 7: Stream Gage Installation

Install and instrument two (2) telemetry-equipped stream gages at Butte Creek and Prather Creek. Prepare a technical memorandum that describes activities from this task.

Deliverables:

- Stream Gage Installation Technical Memorandum

Task 8: Meiss Lake Investigations

Install stream gages to monitor surface water flows, especially in streams discharging from the mountains, monitor groundwater levels in wells, perform geophysical surveying studies, perform an isotopic recharge study.

Subtask 8.1: Equipment Installation

Instrument approximately five (5) existing wells with pressure transducers and telemetry equipment to collect the desired information and develop a comprehensive monitoring network. Install at least one (1) stream gage to monitor streams discharging from the mountains.

Deliverables:

- Stream Gage Installation Technical Memorandum
- Monitoring Well Equipment Installation Technical Memorandum

Subtask 8.2: Geophysical Survey

Perform geophysical surveys in the Butte Valley Wildlife Area (California Department of Fish and Wildlife), Meiss Lake, the Butte Creek corridor both in the valley and at the southern end of the watershed (headwaters area), particular sites relevant to sensitive groundwater-dependent ecosystems (largely in the Meiss Lake area), sensitive volcanic rock recharge areas around the edge of the valley near many of the numerous key north-south trending fault zones (such as the Mount Hebron, Cedar Mountain, Meiss Lake, and Mahogany Mountain fault zones), and in sparse areas between groundwater monitoring network stations to tie interpolated groundwater elevations between station values.

Deliverables

- Geophysical Survey Technical Memorandum

Subtask 8.3: Isotopic Study

Perform an isotopic recharge study to improve understanding of surface water and groundwater interactions of key importance to development of the GSP. Utilize information gained from this study to enhance the hydrogeological conceptual model, delineate primary recharge areas and recharge sources and help in designing future groundwater recharge projects.

Deliverables

- Isotopic recharge study technical memorandum

Category (c): GSP Preparation

Develop a comprehensive GSP for the Basin based on the results from Category (b) tasks that meets the SGMA requirements and DWR regulations.

Deliverables:

- Proof of submittal of Final Butte Valley GSP to DWR

Component 9. County Wide Elements for GSP Development

Category (a): Stakeholder Outreach and Engagement

Maintain a dialogue with stakeholders to ensure local knowledge and viewpoints are heard and reflected in the GSP. Hold up to five (5) public outreach meetings. Hold up to twelve (12) meetings with the Advisory Committee. Hold at least six (6) meetings with the GSA Board. Hold at least twelve (12) targeted stakeholder meetings. Maintain and update online platforms and develop additional educational materials.

Category (b): GSP Development

Task 1: GSP Document Preparation

Prepare a GSP that meets the SGMA regulations. Adjust and modify the GSP as directed by the District in response to stakeholder input. Submit deliverables listed below electronically through an online reporting system. Compile the complete GSP and prepare for adoption by the GSA's Board. Provide a 90 day notice to local cities and counties for GSP review. Post a public notice for the hearing to adopt the GSP. Assist with conducting the public hearing to adopt the GSP. Provide summaries of activities within the Quarterly Progress Report(s). Submit the adopted GSP to the SGMA Portal and submit the email response from the SGMA Portal to DWR's Project Manager.

Activities to develop the GSP and sections that may be included within the GSP, but are not limited to, those described below.

1. Initial Notification of GSP Preparation

Prepare the initial notification of GSP preparation and submit to DWR and local agencies, distribute to the Grantee's interested-parties email list, and post on the website.

2. Data Collection and Analysis

Compile, evaluate, and analyze data necessary for development of the GSP. Identify data gaps and develop a plan for obtaining that data.

3. Integrated Hydrologic Modeling

Evaluate the available options and develop an integrated hydrologic model for the Basin. Compile, evaluate, and compare simulated and local water budget information. Select and refine integrated hydrologic model for water budget development and other GSP model scenario analysis. Develop model scenarios, complete model runs, evaluate model results. Develop model scenarios to support evaluation of potential projects and management actions or other analysis.

4. GSP Administrative Information

Compile and organize information necessary for completing GSP Administrative Information section.

5. Basin Setting

Develop a GSP Basin Setting section for the Basin including, but not limited to, management areas as applicable, hydrogeologic conceptual model, current and historical groundwater conditions, and water budget.

6. Sustainable Management Criteria

Develop GSP Sustainable Management Criteria for the Basin, including analysis and determination of Sustainability Goals, Undesirable Results, Minimum Thresholds, Measurable Objectives, as appropriate.

7. Projects and Management Actions

Develop Projects and Management Actions to achieve Sustainability Goals for the Basin, describe the implementation feasibility, and the method by which each will be evaluated for effectiveness.

Deliverables:

- Adopted GSP
- Proof of Adopted GSP submittal to DWR

Task 2: Economic Analysis of Scenarios and Management Actions

Conduct an economic analysis to help prioritize allocation of resources, identify economic impacts on agriculture and other local industries, and determine impacts of potential changes in water use. Consider infrastructure calculator, O&M costs to make practical, informed, and economically feasible decisions. Prepare a Technical Memorandum that describes the work completed, findings from the Economic Analysis, and how findings will be incorporated into the GSP.

Deliverables:

- Economic Analysis Technical Memorandum

Task 3: Fee Study

Evaluate funding alternatives that will review and discuss revenue generation strategies that may be implemented by the GSA to cover the cost of GSP implementation. Prepare a technical memorandum and present to the advisory committees and GSA Board to facilitate discussion and development of a preferred funding strategy.

Deliverables:

- Fee Study Technical Memorandum

Task 4: Data Management System Development

Obtain and store existing relevant information in a usable format. Continue developing components of a Data Management System (DMS) that will function as a data storage, analysis, visualization, and reporting tool for hydrogeologic and hydrologic information. Create retrieval and/or download tools for government web portals, transducers, and other relevant platforms. Develop key tools to support future tasks required of the GSA (i.e. reporting capabilities). Prepare a technical memorandum that describes work completed and findings from this task.

Deliverables:

- DMS Technical Memorandum

Page 11 of 13 - Exhibit A: Scope of Work and Labor Rates
 Rates for Shasta, Scott and Butte Valley Basins

LARRY WALKER ASSOCIATES

Rate Schedule Effective July 1, 2021– June 30, 2022

PERSONNEL	Rate \$/Hour	REIMBURSABLE COSTS	
<i>Administrative</i>	\$96	Travel:	
<i>Contract Administrator</i>	\$133	Local mileage	Current IRS rate
<i>Graphic Designer</i>	\$123	Transportation	Actual expense
<i>Senior Graphic Designer</i>	\$160	Auto rental	Actual commercial rate
<i>Project Staff I-C</i>	\$128	Fares	Actual expense
<i>Project Staff I-B</i>	\$155	Room	Actual expense
<i>Project Staff I-A</i>	\$180	Subsistence ⁽¹⁾	\$48 per day
<i>Project Staff II-B</i>	\$192	The rate for each meal as follows: ⁽¹⁾	
<i>Project Staff II-A</i>	\$215	Breakfast	\$13
<i>Senior Staff</i>	\$249	Lunch	\$14
<i>Associate</i>	\$279	Dinner	\$23
<i>Vice President</i>	\$304	Incidentals	\$ 5
<i>Executive VP</i>	\$317	Report Reproduction and Copying:	
<i>Senior Executive</i>	\$333	Actual expense	
<i>President</i>	\$333	Black and white copy, in-house	\$0.08
		Color copy, in-house	\$0.89
		Binding, in-house	\$1.95
		Special Postage and Express Mail:	
		Actual expense	
		Other Direct Costs:	
		Actual expense	

Daily Equipment Rental Rates:

Single parameter meters & equipment	\$30
Digital Flow Meter	\$60
Multi-parameter field meters & sondes	\$100
Dye/tracer mapping or residence time	\$200
Multi-parameter continuous remote sensing	\$40

Subcontractors:

Actual expense plus 10% fee

Note: ⁽¹⁾ Charged when overnight lodging is required.

*original itemized receipts required for reimbursement

Rates for Shasta, Scott and Butte Valley Basins

Table 1

Davids Engineering, Inc. Labor Rates Effective January 1, 2020	
Labor Classification	Hourly Rate
Sr. Principal Engineer	230.00
Principal Engineer	218.00
Supervising Engineer/Scientist	199.00
Senior Engineer/Scientist	182.00
Associate Engineer/Scientist II	172.00
Associate Engineer/Scientist I	162.00
Staff Engineer/Scientist II	152.00
Staff Engineer/Scientist I	139.00
Graduate Engineer/Scientist	120.00
Engineering Intern II	67.00
Engineering Intern I	45.00
Administrative Intern	46.00
Student Intern	25.00
Technical/Project Assistant	100.00
Secretary/Clerical II	93.00
Secretary/Clerical I	80.00

Note: labor rates are subject to revision at the beginning of each calendar year.

Table 2

Davids Engineering, Inc. Vehicle and Equipment Rates Effective January 1, 2020	
Item	Rate
Automobiles	current federal rate
Field vehicle (4 x 4)	\$1.00/mile
SonTek RiverSurveyor M9 ADCP	\$285.00/day
SonTek FlowTracker Handheld ADVN	\$60.00/day
Fuji Electric Portaflow-C Transit Time Meter	\$105.00/day
Pressure Transducer	\$50.00/month
SCADA Equipment and Materials	at cost
Color plotter	\$7.00/sq. ft.

Note: equipment rates are subject to revision at the beginning of each calendar year.

* Original Itemized receipts required for reimbursement

Subcontractors:

All costs for subconsultants and subcontractors will be billed at cost.