

**R2 Resource Consultants, Inc.
Contractor Catalog
GSA Contract GS-10F-0106S**

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EXECUTIVE SUMMARY

R2 Resource Consultants, Inc. (R2) is an environmental and engineering consulting firm specializing in environmental planning, fisheries biology; aquatic, wetland, and riparian ecology; hydrology; hydraulic, watershed analysis, and water resource engineering. ***Our small company is unique in that we combine excellence in aquatic science and engineering to offer a full range of technical services to our clients.*** Since 1992, R2's staff of scientists and engineers have conducted a variety of studies and prepared plans related to management and restoration of aquatic ecosystems. Brief descriptions of the technical services we offer are listed below.



Based in Redmond, Washington, R2 has specialized in projects throughout the Pacific Northwest, and has been recruited to work throughout the United States and Canada. R2 provides technical support in the licensing of hydroelectric projects, water rights, development of Habitat Conservation Plans (HCPs), Natural Resource Damage Assessments (NRDAs), Environmental Impact Statements (EISs), Environmental Assessments (EAs), and Environmental Site Assessments and project implementation. Our clients include utilities, mining companies, timber companies, water agencies, irrigators, municipalities, federal and state government agencies, and tribes.

Our staff are familiar with relevant state and federal environmental regulations, and routinely consult or negotiate with regulatory officials. R2 is especially well suited to conduct complex environmental studies that lead to sound ecological and engineering solutions. As environmental consultants, our job is to help clients find effective, cost-efficient solutions to natural resource problems. The process of finding these solutions begins by clearly defining both the resource issues and the regulatory constraints related to them. Finding effective solutions also requires the integration of environmental concerns and ecological processes with sound engineering principles and analyses and the ability to carry a project through, from concept through construction. A final and important element is to incorporate the management goals and direction provided by the clients we serve. These principles serve to focus the technical direction of R2 as we work to meet the needs of our clients.

The following pages provide an overview of R2's areas of expertise relative to SINs 899-1 – Environmental Planning Services and Documentation, and 899-7 – Geographic Information Services.

TECHNICAL SPECIALTIES SUMMARY

NEPA

R2 has a depth of experience assisting clients with NEPA analysis and Section 7 consultation. We have conducted studies, field investigations, literature reviews, and analyses in support of NEPA processes, and have developed effective techniques for document coordination, public involvement, and tracking comment responses. Our staff have prepared entire Environmental Assessment (EA) and Environmental Impact Statement (EIS) documents as well as individual resource sections for a range of projects including hydropower operations, water supply systems, and transmission lines.

Section 7 Compliance

R2 has prepared or participated in multiple biological assessments that consider numerous ESA listed or candidate species. We have prepared numerous Biological Assessments in support of EISs and EAs. We have also “ghost authored” draft biological opinions for issuing agencies and have assisted with the development of 5-year status reviews for listed species.

Fisheries and Aquatic Ecology Studies

R2 specializes in the design and implementation of fisheries and aquatic ecological studies in freshwater and estuarine ecosystems. We have conducted habitat studies, taxonomic analysis, and ecological studies of threatened, endangered, and sensitive fish species and stocks including bull trout, cutthroat trout, Chinook, chum and coho salmon, and steelhead.

Riparian and Wetland Studies

R2's approach to water resource studies includes strong interaction among riparian/wetland ecologists, fisheries biologists, and hydraulic engineers when conducting studies pertaining to water rights, watershed analyses, habitat assessments, restoration, and local and federal regulatory requirements.

Watershed Management

R2's team of biologists and engineers have the interdisciplinary skills needed to conduct watershed level analyses to assess the cumulative effects of urban development as well as forest and road management activities on natural resources. Our watershed analyses provide information on fish, wildlife, riparian and upslope conditions.

Instream Flow and Competing Water Uses

R2 provides comprehensive assessments of water requirements for aquatic resources, flow regulation, and competing water uses. R2 has extensive experience with instream flow determinations, sedimentation impacts, ramping rate determinations, modeling of ramping rate scenarios and stranding potentials, and in the assessment of potential spawning area enhancements.

Water Quality Monitoring and Modeling

R2 designs and conducts water quality monitoring programs and modeling of existing and predicted water quality conditions to assess the potential impacts of timber management, construction, non-point source pollution, hydroelectric facility operation, erosion and sedimentation, and storm water inputs.

Habitat Enhancement and Restoration

R2 scientists have worked on a variety of restoration projects and are experienced in integrating the physical and biotic components for successful habitat restoration. R2 takes an ecosystem approach to restoration, ensuring that the design incorporates site-specific hydrologic, hydraulic, and soil conditions as well as habitat requirements of animals and plants.

Geographic Information Systems

R2 uses Geographic Information Systems to integrate geographically referenced, data along with related descriptive information into a complete analysis system. Our GIS has been used to assist clients with data interpretation and synthesis, natural resource planning, archeological studies, site selection and emergency preparedness planning. This powerful linkage facilitates modeling of real-world phenomena by location, revealing hidden patterns, relationships, and trends. Mapping services and products include: spatial analysis and modeling; relational database design; data conversion and integration; arc macro language programming; multi-dimensional data visualization; cartographic and thematic mapping; photogrammetric consulting; GPS data collection; photo interpretation; and image scanning and transformation.

Fish Passage and Protection

R2 engineers have extensive experience with layout, design, and construction oversight of fish passage structures and water withdrawal protection facilities for both resident and juvenile migrating fish. R2 is well known and respected by resource agencies, helping to facilitate agency approval of plans and permits.

Water Resources Engineering

R2 has strong engineering expertise in hydraulic, sediment transport, and operations modeling, pump stations, and pipelines. This expertise includes extensive analyses of channel form, stability, sediment composition and transport, large woody debris impacts, and other aspects of fluvial geomorphology.

Corporate Information

Project Management Plan

R2 staff have been in the consulting business for over 25 years, and have managed numerous indefinite delivery contracts (IDC's) similar to the contract structure intended for this Environmental Services Federal Supply Schedule Contract. R2 staff have managed IDC's directly for federal agencies, successfully delivering on multiple and concurrent task orders. We understand the needs of clients with this type of contracting, and are experienced and sensitive to the needs of federal agencies their Contracting Officers and Contracting Officer's Technical Representatives. R2 uses a number of management measures to ensure project/task needs are met on time and within budget. Each of these measures are described below.

Reporting and Organizational Structure

Project assignments and coordination will be through Dr. Dudley Reiser, the R2 Contract Manager. As Contract Manager and President of R2, Dr. Reiser has the authority to commit staff to work on tasks and will assign an R2 Task Manager and Project Team to complete each Task Order. Each Task Manager will be responsible for developing the scope, budget and schedule, which will be transmitted to the Contracting Agency through our Project Manager. Once specific tasks are assigned and scopes and budgets approved, R2's Task Manager will directly work with the Contracting Agency's COTR in completing the work. The R2 Task Manager will keep the R2 Contract Manager informed of work progress via frequent communication, internal meetings, and monthly invoice reporting.

Budget/Performance Tracking

Through R2's accounting program, both our Contract Manager and Task Managers will be provided budget status information (amount/hours spent, percent remaining, billing and labor rates, etc.) for each of the tasks assigned under the contract. This information is provided monthly, although more frequent budget reports can be prepared as desired. The information contained in the budget status reports is integrated directly into a monthly progress report/invoice.

Progress Reports/Invoices

R2 will provide project/task progress reports with each invoice that describe for each report period: 1) work completed; 2) status of project schedule; and 3) status of the Project Budget; 4) problems or concerns that developed; 5) work projected for next reporting period; and 6) recommendations relative to task findings or upcoming activities; and Task Budgets. Invoices will include all supporting documentation required by the Contracting Agency.

Internal Project Coordination Meetings

R2 will hold weekly, monthly or bi-monthly internal project/task coordination meetings to review the overall project status and share important findings with team members. The structure, frequency and list of attendees at these meetings will necessarily vary depending on the extent and type of ongoing studies. Likewise, the nature of the meetings may vary between technical and administrative/project management related issues. The Contracting Agency's COTR or other technical specialists would be invited to sit in on these meetings via conference call as needed, and will be welcome to participate in all project/task coordination meetings.

Frequent Communication with the Contracting Agency's Project Manager

In addition to providing monthly written progress reports, R2 (Project Manager; Task Managers) will maintain frequent, as-needed contact with the Contracting Agency's COTR via telephone, facsimile, and e-mail. This is important for discussing project management issues, technical issues, meeting notices, and study findings. Frequent communication allows our Project and Task Managers to anticipate and work with the COTR on special reporting needs, and to be responsive to specific administrative or technical information requests from the Contracting Agency.

Quality Assurance–Quality Control Measures and Report Review Procedures

R2 adheres to strict QA/QC procedures during all elements of a project assignment, from the filing of project materials to report production. Major components include; electronic entry of all project correspondence prior to filing; QC checks and sign-off of field data; QC checks of electronic data entry; QC checks of model calibrations; QC checks of engineering designs by senior engineer; and a three-stage review process for report preparation as described below.

R2 employs a formal internal report and engineering design review process that ensures all written reports, technical memoranda, design documents, and drawings leaving the office are of the highest quality. The process includes three stages of review including: 1) senior author/engineer prepares Preliminary Draft Report/Design Drawings and provides to R2 Project Manager/2nd technical reviewer for review and sign-off; comments are addressed by the author/engineer; 2) senior author/engineer prepares Draft Report/Design Drawings that is again reviewed by R2 Project Manager/Senior Engineer; R2 Project Manager reviews final Draft Report/Designs prior to submittal to client; 3) Upon receipt of comments from client, senior author/engineer makes necessary modifications for submittal of Final Report/Design Drawings.

R2 also routinely applies QA/QC checks at all stages of a project, including field data collection (proper protocols followed, field instruments calibrated and in proper working condition, etc.), field data transcription, electronic data entry and data validation, model calibrations and output, selection of proper statistical tests, review of statistical output, and data analysis.

For larger projects, R2 has prepared detailed Quality Assurance Project Plans that describe Project Organization and Responsibilities, QA Objectives, Sampling Procedures and Protocols, Chain-of-Custody Procedures, Calibration and Preventive Maintenance Procedures and Frequency, Data Reduction, Validation and Reporting; Internal Quality Control Checks and Assessment of Data Accuracy, Precision, and Completeness; QA Audits and Corrective Actions; and Quality Assurance Reports. Specific QA needs would be defined during the scoping efforts for each task.

Project Experience, SINs 899-1, 899-7

The project summaries on the following pages were selected to provide a general overview of the types of services R2 can offer the GSA under the two SIN categories awarded under our GSA Contract #GS-10F-0106S:

- SIN 899-1 Environmental Planning Services and Documentation
- SIN 899-7 Geographic Information Services



Puget Sound Energy Baker Project Relicensing Hydrology and Aquatic Resource Studies

Baker and Skagit Rivers, Washington

R2 provided aquatic resource services for Puget Sound Energy's Baker River Project relicensing team. Since 1999, R2 has been working with PSE's Baker team to implement a relicensing strategy and conduct required studies. The Baker River Hydroelectric Project consists of two dams and reservoirs with two powerhouses generating a total of 134 MW. The current license expires in 2006 and PSE submitted a Settlement Agreement signed by all stakeholders on November 30, 2004.



In concert with Alternative Licensing Procedures established by the FERC in 1997, R2 has been working collaboratively with resource agencies, tribes, non-governmental agencies, and PSE to identify, scope, and implement required studies. R2 staff participate in monthly meetings to inform all parties of study progress and solicit feedback to ensure broad stakeholder involvement.

R2 was responsible for study plan design, budgeting, and implementing 17 different aquatic studies. Issues addressed during relicensing included State and USFS versus FERC definitions of baseline conditions. Studies

undertaken by R2 include analyzing project effects on geomorphic processes and developing a large woody debris budget to predict wood recruitment and transport. Habitat and biological surveys in the project subbasins were used to model potential fish production under future with- and without project scenarios. R2 also conducted an instream flow study designed to provide guidance for developing a management regime for project reservoirs and downstream habitats. The instream flow study used steady state and unsteady hydraulic models to assess changes in habitat conditions associated with seasonal and hourly flow patterns.

Project Elements:

- Hydro Project Relicensing
- ESA Consultation: Pre and Post licensing
- Bull Trout and Chinook Salmon
- Reservoir Operations
- Skagit River Flow Management Plan
- Future Without Project Conditions

In addition to relicensing studies, R2 has worked with PSE, the FERC, and the Services to evaluate operational alternatives to protect bull trout and Chinook salmon during pre-licensing conditions. R2 analyzed project hydrology, flood control requirements, hydropower generation, structural and operational capabilities and species requirements, and prepared separate Biological Assessments to address interim (pre-licensing) and post-licensing activities.

Client: *Puget Sound Energy, Inc.
10885 NE 4th Street
Bellevue, Washington 98004*

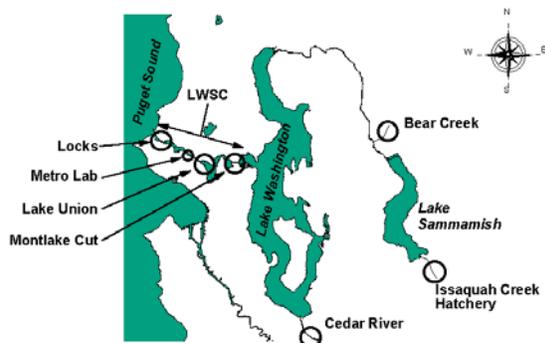
Contact: *Cary Feldmann, Manager Env. Strategies*
Telephone: *(425) 462-3088* Fax: *(425) 462-3223*
Completed: *Ongoing*
Contract Amount: *\$1,321,000*



Chinook, Coho, and Sockeye Salmon Smolt PIT Tagging Study

Lake Washington, Washington

This three-year pilot study for the U.S. Army Corps of Engineers evaluated the feasibility of using Passive Integrated Transponder (PIT) tag technology to monitor smolt migration and survival as they passed through the Lake Washington Ship Canal (LWSC) system, including the Hiram M. Chittenden Locks. Juvenile Chinook, coho, and sockeye salmon were captured, tagged and released at two locations in the LWSC, and in the lower reaches of the Cedar River and Bear Creek. A few



steelhead juveniles were also captured, tagged, and released. Hatchery-reared Chinook were also tagged, held, and released at the Issaquah Creek Hatchery and the University of Washington Hatchery. The Corps, WDFW, NMFS, King County, City of Seattle, and

Project Elements:

- ESA Salmon Recovery
- Smolt Migration Timing and Behavior
- Salmonid Survival
- Fish Passage at Locks
- Water Conservation



Muckleshoot Indian Tribe were participants in the study.

The data provided valuable, detailed biological information on migration, passage, and estuarine behavior of salmon smolts originating from different parts of the Lake Washington basin and transitioning to adult life in saltwater. The study results indicated specific migration and passage behaviors including seasonal and diurnal patterns in migration and passage timing, passage routes through the Locks, time to transition to saltwater, and evidence of repeat cycling through the Locks. The results suggested that Chinook do not exhibit shoreline affinity in the LWSC and mix thoroughly by the time they reach the Locks. Water temperature in the LWSC and lunar phase appeared to strongly influence outmigration characteristics. Passage rates were compared with flume discharge to help determine optimal water allocation to the flumes. The data were also used to evaluate salmonid survival for different segments of the migration route.

The above information was used to assist in evaluating alternative Lock operations, including shaping spill timing and volume requirements, and for evaluating causal mechanisms of decline of salmon stocks in the basin.

Client: *U.S. Army Corps of Engineers
4735 East Marginal Way South
Seattle, Washington 98134*

Contact Person: *Fred Goetz (206) 764-3515*
Completed: *April 2003*
Contract Amount: *\$122,000 (over three years)*



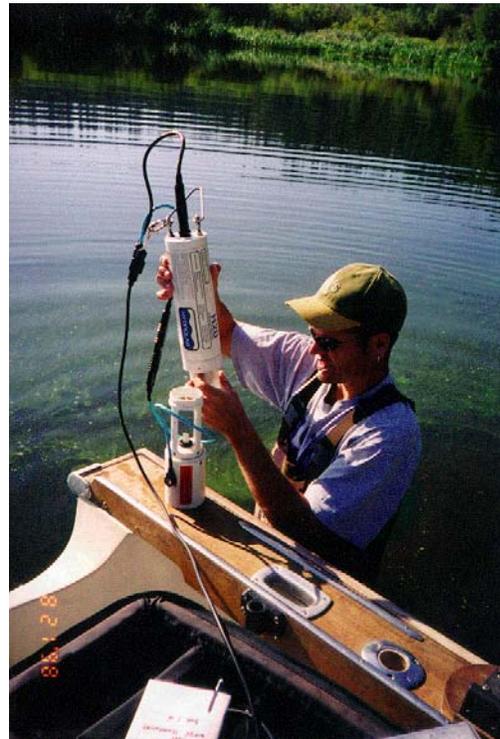
Upper Klamath Basin Water Rights Adjudication

Upper Klamath River Watershed, Oregon

R2 is providing multidisciplinary technical assistance to develop comprehensive water rights claims for streams and rivers of the Upper Klamath Basin, for Upper Klamath Lake, and for the Klamath and Sycan marshes, all located in the Upper Klamath Basin, Oregon to sustain treaty reserved rights of the Klamath Tribes.

A hydrological analysis of the Upper Klamath Watershed was coupled with Instream Flow Incremental Methodology (IFIM) studies of representative sites of streams and rivers within the basin to form the basis for the water rights claims. Important rivers within the basin included the Sprague, Sycan, Williamson, and Wood rivers.

The effects of water quality and lake level on the biology and habitat of selected fish species in Upper Klamath Lake were evaluated. Upper Klamath and Agency lakes have consistently experienced pH and dissolved oxygen levels during the summer in some locations that are acutely toxic to fish. Species of interest within Upper Klamath Lake include Lost River



Project Elements:

- Instream Flow Incremental Methodology (IFIM)
- Hydrologic Modeling
- Water Quality
- Geomorphology / Channel Maintenance
- Water Rights
- Expert Witness Testimony

sucker, shortnose sucker, Klamath largescale sucker, redband trout, and Chinook salmon.

R2 evaluated the impacts of lake level in Upper Klamath Lake, as well as the water quality within the lake, on the species of interest. Recommended lake levels were developed for three periods of the year (March to May, May to July, and July to October) related to life stage use patterns of trout and sucker species.

Client: *Bureau of Indian Affairs
Portland Area Office
911 N.E. 11th Avenue
Portland, Oregon 97232*

Contact Person: *Mike Dammarell (503) 231-2269*
Completed: *Ongoing*
Contract Amount: *\$2,340,000 (awarded since 2001)*



Baker River Hydroelectric Relicensing GIS Services

Baker and Skagit Rivers, Washington



Using the ArcGIS extensions Spatial Analyst and 3D Analyst, R2 assimilated a basin-wide terrain model by combining a newly acquired ASCII-based DTM with traditional USGS 10-meter DEMs. An array of 3D products have been output from the model to support slope classifications for new recreation site constraints; surface modeling for determining sediment deposition and erosion potential; and 5-foot contour slice generation within the reservoir drawdown zone for evaluating potential fish production.

R2 is currently providing GIS services to Puget Sound Energy in a multi-year relicensing effort of the Baker River Hydroelectric Project. Utilizing ESRI ArcGIS software tools, R2 GIS staff have produced numerous analytical and mapping products for five primary working groups focusing on the following resource areas: aquatic resources, terrestrial/wildlife, recreation/aesthetics, cultural/historical, and economics/operations.

R2 created flood inundation maps of the Skagit River to show inundation depths and flood wave characteristics of hypothetical dam failure scenarios for PSE's Emergency Action Plan. Mapped datasets such as elapsed time from dam failure to flood damage and to peak flood discharge were based on full equations stream flow routing software (FEQ) output.



In determining historic habitat conditions within riparian areas now occupied by the Baker River Project, R2 delineated the historic Baker River floodplain from 1880 and 1892 General Land Office (GLO) field survey notes, and a small-scale USGS topographic map from 1915. The GLO notes provided a metes and bounds alignment for the Baker River, partial alignment for the floodplain, and general notes about vegetation encountered during the survey.

Project Elements:

- Terrain Modeling
- Hydroelectric Relicensing
- Flood Inundation Mapping
- Historic Floodplain Delineation
- GIS (ArcInfo, ArcView, Spatial Analyst)

Client: *Puget Sound Energy
10885 NE 4th Street
Bellevue, Washington 98004*

Contact Person: *Tony Fuchs (425) 462-3553*
Completed: *Ongoing*
Contract Amount: *\$400,000*
R2 Responsible for: *\$400,000*



Pit River Hydroelectric Relicensing GIS Services

Pit River, California



To determine habitat-flow relationships for fish and eagle foraging within the Pit River, R2 created ArcInfo and ArcView compatible vector datasets using digitized field maps, a descriptive microhabitat database, and over 350 mapping products depicting five fish species/lifestage guilds at instream flows of 100 cfs to 1800 cfs. Newly acquired color digital orthophotography covering seven representative sample sites in Reaches 3, 4, and 5 served as the base GIS data layer for R2's on-site habitat mapping effort.

R2 also performed a reconnaissance level evaluation of the Pit River geomorphology and the effects of historic and ongoing operations of the Pit 3, 4, and 5 Project. To support the focus of the study on hydrology, channel morphology,

Project Elements:

- Instream Flow
- Geomorphology
- Hydroelectric Relicensing
- Rare and Special Status Taxa
- ESRI ArcGIS Software Tools

and sediment transport, R2 used existing PG&E GIS data in conjunction with R2 field data to create report maps identifying the landforms, riparian substrate, and dominant channel substrate of the project.

In support of PG&E GIS staff and consultants, R2 produced an array of maps showing dominant substrate categories, macrohabitat classifications, distribution of springs, potential trout spawning habitat, aquatic vegetation communities, woody debris, terraces, talus slopes, aquatic gastropods, bivalves, amphibians, northwestern pond turtles, and terrestrial mollusks. All mapping products were published in *River Corridor Habitat Mapping and Biota Surveys, with Emphasis on Special-Status Species for Pacific Gas and Electric Company's Pit 3, 4, and 5 Hydroelectric Project* by Spring Rivers Ecological Sciences.



Figure 4-6. Map identifying location of Hamilton Branch Survey Site 2 (Map B)

R2 Resource Consultants, Inc. 4-9 November 2002
©2002 Hamilton Branch Project, P.E.

Other GIS tasks include data assimilation and the creation of presentation-quality graphics for R2's Hamilton Branch geomorphology study and North Fork Feather River tributary spawning channel evaluation and design.

Client: *Pacific Gas and Electric Company*
3400 Crow Canyon Road
San Ramon, California 94583

Contact Person: *David Longanecker (925) 866-5824*
Completed: *Ongoing*



Loomis Forest Watershed Analysis

Sinlahekin and South Fork Toats Coulee Watershed Analysis

The Washington State DNR retained R2 to perform a Level 2 Watershed Assessment in accordance with the Standard Methodology for Conducting Watershed Analysis, Chapter 222-22 WAC (Washington Forest Practices Board, 1997), Version 4.0 in two Watershed Administrative Units (WAUs) in the Loomis State Forest; Sinlahekin and South Fork Toats Coulee Watershed Analysis Numbers 46 & 47 (WAU #s 49-01-025; 49-01-030).

A team of resource analysts was assembled to address hillslope hazards (mass wasting, soil erosion, hydrologic, and riparian conditions), response segments (stream channels) and vulnerabilities of public resources (fisheries habitat, water supplies, public works, and water quality). Following the resource assessment phase, a field manager's team was assembled to address causal mechanisms of resource effects and to prepare management-based prescriptive measures that avoid or minimize management actions potentially triggering failures of sensitive areas on the hillslopes.



R2 documented the watershed assessment and identified hillslope hazards with the potential to adversely affect public resources in both WAUs. Forest land management practices resulting in delivery of significant quantities of fine sediment, coarse sediment, water, wood, and heat energy to public resources of concern were addressed. The prescription team's objective was to generate management prescription options that addressed the issues and watershed processes identified in causal mechanism reports (CMRs) and meet the management response calls dictated by the rule matrix under Chapter 222-22 WAC.

The two WAUs consisted of approximately 91,000 acres of land joined together near the top of the respective watersheds. Remote sensing assessments were performed over the broad expanse of landscape and field validated using extensive stream reach inventories of habitat and channel conditions.

Project Elements:

- WFPB Watershed Assessment Protocols
- Mass Wasting/Surface and Road Erosion
- Hydrology and Sediment Transport
- Riparian Stand Conditions
- Fish Habitat Conditions
- Water Quality/Public Works
- Synthesis/Causal Mechanisms/Management Prescriptions
- Resource Assessment Report
- Monitoring and Restoration Plan
- GIS Mapping

Client: *Department of Natural Resources
Lands and Resource Division
1111 Washington Street SE
Olympia, Washington 98504*

Contact Person: *Pene Speaks (360) 902-1916*
Completed: *2003*
Contract Amount: *\$330,000*

R2 Resource Consultants, Inc.
GSA Contract #GS-10F-0106S
Labor Rates for SINs 899-1, 899-7, 899-1(RC), 899-7(RC)

| Labor Grade | Category | Labor Rate (Rate/Hr)* |
|--------------------|--|------------------------------|
| 31 | Principal, Senior Scientist, Senior Engineer | \$196.57 |
| 30 | Principal, Senior Scientist, Senior Engineer | \$162.96 |
| 29 | Principal, Senior Scientist, Senior Engineer | \$140.55 |
| 28 | Senior Scientist, Senior Engineer | \$131.39 |
| 27 | Senior Scientist, Senior Engineer | \$123.24 |
| 26 | Senior Scientist, Senior Engineer | \$112.04 |
| 25 | Senior Scientist, Senior Engineer, GIS Manager | \$98.79 |
| 24 | Staff Scientist, Staff Engineer | \$89.63 |
| 23 | Staff Scientist, Staff Engineer, Administration, Office Mgr. | \$84.54 |
| 22 | Staff Scientist, Staff Engineer, Contract Administration | \$72.31 |
| 21 | Staff Scientist, Staff Engineer | \$64.17 |
| 20 | Junior Scientist, Junior Engineer | \$57.04 |
| 9 | Document Production Manager | \$67.22 |
| 8 | Word Processing, Clerical | \$57.04 |
| 7 | Clerical, Receptionist | \$49.91 |
| 6 | Field Technician II | \$49.91 |
| 5 | Field Technician I | \$40.74 |

R2 Resource Consultants, Inc.
GSA Contract #GS-10F-0106S
Equipment Schedule, SINS 899-1 and 899-7

| EQUIPMENT* | EQUIPMENT RATE |
|---------------------------------------|------------------------------|
| Office Equipment Usage | |
| GIS/CAD | \$10 per hour |
| Facsimile | \$1 per page |
| Network Scanner (HP) | \$2 per page |
| GBC (Collating/Binding,Supplies) | \$1.50 per set |
| Field Equipment Usage | |
| 35-mm camera | \$5 per day |
| Video camera | \$50 per day; \$150 per week |
| Dell Computer Projector | \$250 per day |
| Dissolved Oxygen/Temp Meter | \$25 per day |
| Current Meter | \$50 per day |
| Conductivity/pH/Temp Meter | \$20 per day |
| Fish Processing Pkg | \$5 per day |
| Surveying Equipment | \$25 per day |
| Snorkeling/Sampling/Drysuit Equipment | \$35 per day |
| Laptop Computer | \$100 per week |
| Depth Finder | \$100 per week |
| Large Raft; Small Raft | \$100 per day; \$50 per day |
| Large Electrofishing/Raft | \$200 per day |
| Backpack Electroshocker | \$75 per day |
| Shoreline Electroshocking Package | \$100 per day |
| Small Raft w/VVP Electroshocker | \$125 per day |
| 19' Boston Whaler | \$250 per day |
| Hydrolab - Quanta 4 | \$75 per day |
| Substrate Sampling Pkg | \$25 per day |
| Stream Temp. Recorder | \$25 per month |
| GPS Unit | \$10 per day |
| Invertebrate Sampling Pkg | \$10 per day |
| Habitat Mapping Equipment | \$5 per day |
| Field Data Recorders | \$25 per day |
| PHABSIM (Habitat Survey) Pkg | \$75 per day |
| Dissecting Microscope | \$5 per day |
| Photo Stereoscope | \$15 per day |

Labor Categories, R2 Resource Consultants, Inc.

| Labor Category | Labor Description(s) | Labor Category Requirements |
|-----------------------|--|--|
| 31 | Principal, Senior Scientist, Senior Engineer | Demonstrated history of successful corporate business management in addition to required technical skills. Recognized regional expert in appropriate field with demonstrated history of successful Project Management leading large, multidisciplinary project teams, developing and working within budgetary constraints, producing high quality work products for delivery to clients. Ph.D. or Master's degree and 30 years of experience in appropriate discipline required. |
| 30 | Principal, Senior Scientist, Senior Engineer | Demonstrated ability to lead large, multidisciplinary project teams, develop and work within budgetary constraints, produce high quality work products for delivery to clients. Recognized regional expert in appropriate field with demonstrated history of successful Project Management experience required. Ph.D. or Master's degree and 25 years of experience in appropriate discipline required. |
| 29 | Principal, Senior Scientist, Senior Engineer | Demonstrated ability to lead large, multidisciplinary project teams, develop and work within budgetary constraints, produce high quality work products for delivery to clients. Recognized regional expert in appropriate field with demonstrated history of successful Project Management experience required. Advanced degree preferable. 20 years of experience in appropriate discipline required. |
| 28 | Senior Scientist, Senior Engineer | Demonstrated ability to lead project teams, develop and work within budgetary constraints, produce high quality work products for delivery to clients. Demonstrated history of successful Project Management experience required. Advanced degree preferable. 15 years of experience in appropriate discipline required. |
| 27 | Senior Scientist, Senior Engineer | Demonstrated ability to lead project teams, develop and work within budgetary constraints, produce high quality work products for delivery to clients. Demonstrated history of successful Project Management experience required. Advanced degree preferable. 12 years of experience in appropriate discipline required. |
| 26 | Senior Scientist, Senior Engineer | Must demonstrate the ability to lead project teams, develop and work within budgetary constraints. Must demonstrate the ability to produce high quality work products for delivery to clients. Task and/or Project Management experience is required. Advanced degree preferable. 10 years of experience in appropriate discipline required. |
| 25 | Senior Scientist, Senior Engineer, GIS Manager | Must demonstrate the ability to lead task assignments, develop and work within budgetary constraints, interact with clients to produce high quality work products for delivery to clients. Task and/or Project Management experience is required. Advanced degree preferable. 8 years of experience in appropriate discipline required. |
| 24 | Staff Scientist, Staff Engineer | Must demonstrate the ability to work independently and lead work groups. Must demonstrate the ability to produce high quality work products for delivery to client. Master's degree or Bachelor's degree and 6 years of experience in appropriate discipline required. |
| 23 | Staff Scientist, Staff Engineer, Administration, Office Manager | Must demonstrate the ability to work independently and lead work groups. Demonstrate ability to produce work products sufficient for senior review. Master's degree, Bachelor's degree plus 5 years of experience, or 15 years of experience in appropriate discipline required. |
| 22 | Staff Scientist, Staff Engineer, Contract Administration | Must demonstrate the ability to work independently and as part of a team. Demonstrate ability to produce work products sufficient for senior review. Master's degree, Bachelor's degree and 4 years of experience, or 10 years experience in appropriate discipline required. |

| Labor Category | Labor Description(s) | Labor Category Requirements |
|-----------------------|--------------------------------------|---|
| 21 | Staff Scientist Staff Engineer | Must demonstrate the ability to work independently and as part of a team. Demonstrate the ability to produce work products sufficient for senior review. Bachelor's degree and 3 years of experience, or 9 years experience in appropriate discipline required. |
| 20 | Junior Scientist, Junior Engineer | Must demonstrate the ability to take direction from supervisors and project managers. Demonstrate the ability to complete self-directed work. Minimum education requirement is a Bachelor's degree or 6 years experience in appropriate discipline. |
| 9 | Document Production Manager | Coordinate, edit, format, and produce technical and scientific documents for publication. Requires advanced knowledge of Microsoft and office software products, and a minimum of 10 years related experience. |
| 8 | Word Processing, Clerical | Coordinate, format, and produce technical and scientific documents for publication. Requires intermediate knowledge of Microsoft and office software products, and a minimum of 5 years related experience. |
| 7 | Clerical, Receptionist | Perform routine administrative and clerical tasks under direction of Office Manager, route phone calls, and maintain office files. Basic computer, and good communication and organizational skills required. |
| 6 | Field Technician II | Must demonstrate the ability to take direction from supervisors and work effectively as part of a team. Must have at least one year of experience in appropriate field techniques. |
| 5 | Field Technician I | Must demonstrate the ability to take direction from supervisors and work effectively as part of a team. Must demonstrate knowledge of or have experience in appropriate field techniques. |