

COPY

**City of Valdez
Agreement for Professional Services**

THIS AGREEMENT between the CITY OF VALDEZ, ALASKA, ("City") and Valdez Engineering, Inc., dba VEI Consultants ("Consultant") is effective on the 13th day of February 2018.

All work under this agreement shall be referred to by the following:

Project: Septic System Review Services
Contract No.: 1358
Cost Code: 001-5500-43200

Consultant's project manager under this agreement is Vern Roelfs.

Consultant's project manager may not be changed without the written consent of the City.

City's project manager is Kate Huber.

ARTICLE 1. Scope of Work

1.1 The scope of work to be performed hereunder is more completely described in Appendix A which is incorporated herein by reference.

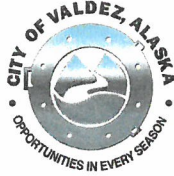
ARTICLE 2. Compensation

2.1 Compensation shall be paid in accordance with the Basis of Compensation Schedule attached hereto as Appendix B and incorporated herein by reference.

ARTICLE 3. Period of Performance

3.1 The Consultant agrees to commence work under this agreement only as authorized by and in accordance with written notice to proceed and to complete the work in accordance with the Scope of Work (Appendix A).

3.2 The period of performance under this agreement shall end and Consultant shall have completed all work under this agreement within 360 days of the written Notice to Proceed. Work shall proceed in accordance with the schedule set forth in Appendix A.



ARTICLE 4. Subconsultants

4.1 The Consultant shall be responsible for the performance of all services required under this agreement.

ARTICLE 5. Insurance

5.1 In accordance with the provision contained in the General Conditions (Appendix C), the following minimum limits of insurance coverage are required:

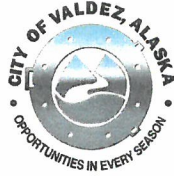
<u>Type of Insurance</u>	<u>Limits of Liability</u>	
	<u>Each Occurrence</u>	<u>Aggregate</u>
Workers' Compensation	Statutory	Statutory
Employers' General	\$100,000	\$300,000
Commercial General Liability	\$100,000	\$300,000
Comprehensive Automobile Liability	\$100,000	\$300,000
Professional Liability	\$500,000	\$500,000

ARTICLE 6. Appendices

6.1 The following appendices are attached to this agreement and incorporated herein:

<u>Appendix</u>	<u>Title</u>
A	Scope of Work
B	Basis of Compensation
C	General Conditions

Agreement for Professional Services
Project: Septic System Review Services
Contract No. 1358
Cost Code: 001-5500-43200



IN WITNESS WHEREOF, the parties to this presence have executed this CONTRACT in two (2) counterparts, each of which shall be deemed an original, in the year and day first mentioned above.

Valdez Engineering, Inc.

BY: *Vern L. Roelfs*
Vern Roelfs, Principal

DATE: 2/20/18

FEDERAL ID #: 92-0081491

1345 Rudakof Circle
Suite 201
Mailing Address

Anchorage AK 99508
City, State, Zip Code

Angela C. Roelfs
Signature of Company Secretary or Attest

DATE: Feb 20, 2018

CITY OF VALDEZ, ALASKA
APPROVED:

Elke Doom
Elke Doom, City Manager

DATE: 2/13/18

ATTEST:
Sheri L. Pierce
Sheri L. Pierce, MMC, City Clerk

DATE: 2/14/18

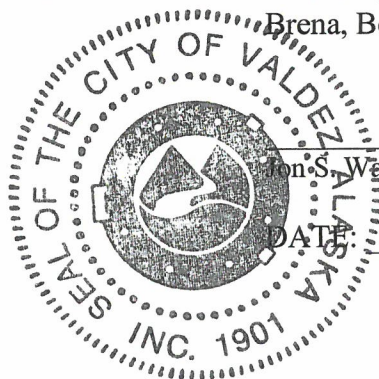
RECOMMENDED:
Paul Nylund
Paul Nylund, Interim Community
Development Director

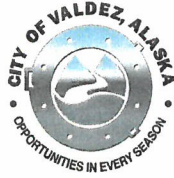
DATE: 2/13/18

APPROVED AS TO FORM:
Brena, Bell & Clarkson, P.C.

Jon S. Wakeland
Jon S. Wakeland

DATE: 2/14/18





Appendix A Scope of Work

BASIC SERVICES

Provide all engineering and support services necessary to provide the City of Valdez with:

A review of conventional septic system applications and designs.

The scope of work is more specifically described in the attached proposal dated January 23, 2018.

Appendix B Basis of Compensation

On completion of work and submission of invoices, the City shall pay to consultant the compensation as follows:

Payment shall be made based on the proposed fee and shall not exceed \$30,000.00 per the proposal attached to Appendix A of this Agreement, without prior authorization by the City as required in Section V of the General Conditions A (Appendix C).

Appendix C General Conditions

I. Definitions:

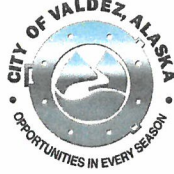
Basic Services: The identified work elements set forth in this Agreement for which the Consultant will receive prime compensation.

Change: An addition to, or reduction of, or other revision in the scope, complexity, character, or duration of the services or other provisions of this Agreement.

City's Project Manager: City's representative in charge of the project(s) and the consultant's primary point of contact for notice(s) to proceed, invoices, correspondence and interface with the City.

Consultant's Project Manager: The Consultant's representative in charge of the project(s) who is directly responsible and engaged in performing the required services.

Extra Services: Any services or actions required of the Consultant above and beyond provisions of this Agreement.



Funding Agency(s): The agency(s) of the federal, state or municipal government which furnishes funds for the Consultant's compensation under this Agreement.

Optional Services: Identifiable and/or indeterminate work elements set forth in this Agreement, which are separate and distinct from those covered by the prime compensation, which the City has the option to authorize.

Prime Compensation: The dollar amount paid to the Consultant for basic services set forth in this Agreement. Prime compensation does not include payment for any optional or extra services.

Scope of Work: Basic and optional services required of the Consultant by provisions of this Agreement.

Subconsultant: Any person, firm, corporation, joint venture, partnership or other entity engaged through or by Consultant.

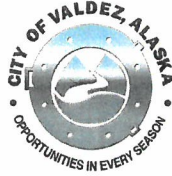
II. Information and Services from Others:

Provisions of information, data, budget, standards, and other materials by the City does not warrant their accuracy or quality nor provide approval of omissions or oversights or of any non-compliance with applicable regulation.

The City may, at its election, or in response to a request from the Consultant, furnish information or services from other Consultants. If, in the Consultant's opinion, such information or services are inadequate, the Consultant must notify the City of the specific service or material deemed inadequate and the extent of the inadequacy prior to use in the performance of this Agreement. Unless so notified by the Consultant, the City may assume the information or services provided are adequate.

III. Indemnification

To the fullest extent permitted by law, the Consultant shall indemnify, defend, and hold harmless the City from and against any claim of, or damages, losses, expenses and liability (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court, mediation and/or arbitration costs) for negligent acts, errors, and omissions of the Consultant, Subconsultant, persons or organizations directly or indirectly employ or engaged by Consultant or Subconsultant under this Agreement. The Consultant is not required to indemnify, defend, or hold harmless the City for a claim of, or liability for the independent negligent acts, errors, and omissions of the City. If there is a claim of, or liability for a joint negligent act, error, or omission of the Consultant and the City, the indemnification,



defense, and hold harmless obligation of this provision shall be apportioned on a comparative fault basis. In this provision, "Consultant" and "City" include the employees, agents, and contractors who are directly responsible, respectively, to each. In this provision, "independent negligent acts, errors, and omissions" means negligence other than in the City's selection, administration, monitoring, or controlling of the Consultant, or in approving or accepting the Consultant's work.

IV. Insurance:

The Consultant shall purchase and maintain professional liability insurance coverage with limits not less than those specified herein for the duration of the Agreement. The professional liability insurance shall be maintained in force for one year following the date of final payment for the work performed herein. The amount of the contract may be renegotiated if the insurance premiums for the following year are raised over those in force when the contract was let. Should the professional liability insurance become unavailable during the one year period following the date of final payment, the insurance coverage may be renegotiated between the owner and the Consultant. Insurance coverage shall provide for negligent acts, errors or omissions which the Consultant, employees of the Consultant or Subconsultant may make which produce loss or liability to the Owner and for the protection against loss which results from reliance on the Consultant's products, reports or a combination thereof. Failure to comply with the provision for maintaining the insurance in effect for one year following the date of final payment may be cause for the Owner to refrain from dealing with the Consultant in the future.

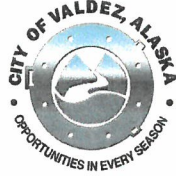
V. Payments:

The City shall pay to the Consultant the amount of any changes in the cost of insurance which are attributable to the Scope of Work created by change orders.

Payments shall be made in accordance with Appendix B. Consultant shall submit progress invoices to City in duplicate showing the itemized services performed during the invoice period and the charges therefore.

All progress invoices shall be prepared as a percentage of the work is completed except contracts performed on "time and expenses" basis which invoiced amounts shall not exceed the actual charges to the invoice date.

Under no circumstances will City pay for charges in excess of any lump sum or not-to-exceed contract amount incurred prior to written authorization by City for an increase in the contract amount. Written request for an increase in the contract amount shall be given to City with sufficient notice to allow City to issue formal approval prior to the incurring of excess charges without delay to the work.



On "time and expenses" contract amounts, compensation for work included in the Scope of Work shall be for direct labor costs and the actual cost of reimbursable expenses.

Direct labor costs shall be as shown on the current Standard Labor Rates for the Consultant, a copy of which is attached as Appendix D, times a factor of n/a, for services rendered by principals and employees of the firm. Reimbursable expenses mean the actual expenses incurred directly or indirectly in connection with the Project for: transportation and subsistence incidental thereto; obtaining bids or proposals from contractor(s); furnishing and maintaining field office facilities; toll telephone calls and telegrams; reproduction of reports, drawings, specifications, and similar project-related items and, if authorized in advance by City, overtime work requiring higher than regular rates. Reimbursable expenses shall also include the amount billed to Consultant by Subconsultant employed by consultant for such Subconsultants' services and reimbursable expenses times a factor of 1.05.

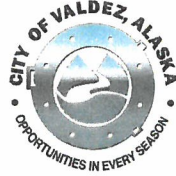
The sum of payments shall not exceed the allowable compensation stated in this Agreement. In the event items on an invoice are disputed, payment on those items will be withheld until the dispute is resolved.

The Consultant shall submit a final invoice and required documentation for services authorized by each Notice to Proceed within Ninety (90) days after final acceptance by the City. The City will not be held liable for payment of invoices submitted after this time unless prior written approval has been given.

VI. Changes:

Changes in the Scope of Work or of services may only be made by written amendment signed by both City and Consultant.

If at any time the City through its authorized representatives, either orally or in writing, requests or issues instructions for extra services or otherwise directs actions which conflict with any provisions of this Agreement, the Consultant shall, within ten (10) days of receipt and prior to pursuing such instructions, notify the City in writing, and to the extent possible, describe the scope and estimated cost of any extra services. Unless so notified by the Consultant, the City may assume such instructions have not changed any provisions of this Agreement nor require additional compensation. No additional payments shall be made to the Consultant without such notice.



VII. Audits and Records:

The Consultant shall maintain records of all performances, communications, documents, and correspondence pertinent to this Agreement, and the City of its authorized representatives shall have the right to examine such records and accounting procedures and practices.

The materials described in the Article shall be made available at the business office of the Consultant, at all reasonable times, for inspection, audit or reproduction by City or any funding agency, for a minimum of three years from the date (a) of final payment under this Agreement (b) final payment upon claims or disputes, and for such longer period, if any, as may be required by applicable statute or other provisions of this Agreement.

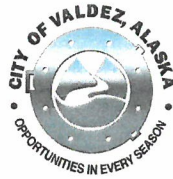
VIII. Inspections:

The City, or any funding agency, has the right to inspect, in the manner and at reasonable times it considers appropriate during the period of this Agreement, all facilities, materials and activities of the Consultant in the performance of this Agreement.

IX. Termination or Suspension:

This Agreement may be terminated by either party upon ten (10) day's written notice if the other party fails substantially to perform in accordance with its terms through no fault of the party initiating the termination (default termination). If the City terminates this Agreement, the City will pay the Consultant a sum equal to the percentage of work completed that can be substantiated by the Consultant and the City. If the City becomes aware of any fault or defect in the work of the Consultant or nonconformance with this Agreement, the City will give prompt written notice thereof to the consultant. Should the Consultant's services remain in nonconformance to this Agreement, the percentage of total compensation attributable to the nonconforming work may be withheld.

The City at any time may terminate (convenience termination) or suspend this Agreement for its own needs or convenience. In the event of a convenience termination or suspension for more than three months, the Consultant will be compensated for authorized services and authorized expenditures performed to the date of receipt of written notice of termination plus reasonable termination expenses. NO fee or other compensation for the uncompleted portion of the services will be paid, except for already incurred indirect costs which the Consultant can establish and which would have been compensated for over the life of this Agreement, but because of the convenience of the termination would have to be absorbed by the Consultant without further compensation.



If state or federal funds support this Agreement, settlement in the event of default or convenience termination must be approved by the City and any appropriate state or federal agency.

X. Officials Not to Benefit:

No member of or delegate to Congress, United States Commissioner or other officials of federal, state or local government shall be admitted to any share or part of this Agreement or any benefit to arise therefrom. The Consultant warrants that it has not employed or retained any organization or person, other than a bona fide employee working for the Consultant, to solicit or secure this Agreement and that it has not paid or agreed to pay any consideration contingent upon or resulting from this Agreement.

XI. Independent Consultant:

Except in those instances specifically provided for herein, the Consultant and any of its agents and employees shall act in an independent capacity and not as agents of the City in the performance of the Agreement.

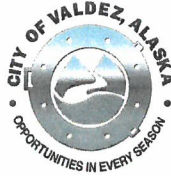
XII. Ownership of Work Products:

Work products produced under this Agreement, except items which have preexisting copyrights, are the property of the City. Payments to the Consultant for services hereunder includes full compensation for all work products, field notes, interim work, reports, and other materials produced by the Consultant and its Subconsultants pertaining to this Agreement. Any re-use the City might make of these work products shall be at the City's own risk and the Consultant shall not incur any liability for the City's re-use of the work products on any project for which they were not intended.

XIII. Subconsultants, Successors and Assigns:

The City must concur in the selection of all Subconsultants for professional services to be engaged in performance of this Agreement.

As soon as practicable after the award of the contract, the Consultant shall furnish to the City in writing the names of the proposed Subconsultants for each of the principal portions of the work. The City shall promptly notify the Consultant if it has reasonable objection to any of the propose Subconsultants. Failure of the City to give prompt notification shall constitute notice of no reasonable objection. The Consultant shall not contract with any Subconsultant to whom the City has made reasonable objection.



If this Agreement includes named firms or individuals, then such firms or individuals shall be employed for the designated services, unless the Agreement is changed by amendment.

The Consultant shall not assign, sublet or transfer any interest in this Agreement without the prior written consent of the City.

The Consultant binds itself, its partners, its Subconsultants, assigns and legal representatives to this Agreement and to the successors, assigns and legal representatives of the City with respect to all covenants of this Agreement.

The Consultant shall include provisions appropriate to effectuate the purposes of this Appendix C in all subcontracts executed to perform services under this Agreement in which the subcontract amount exceeds \$40,000.

XIV. Claims and Disputes:

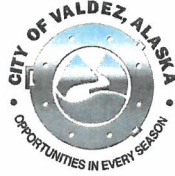
If the Consultant becomes aware, or reasonably should have become aware of any act or occurrence which may form the basis of a claim, the consultant shall immediately inform the City's Project Manager. If the matter cannot be resolved within seven (7) days, the Consultant shall within the next fourteen (14) days submit written notice of the facts which may form the basis of the claim.

In addition, all claims by the Consultant for additional compensation or an extension of the time for performance of any dispute regarding a question of fact or interpretation of this Agreement shall be presented in writing by the Consultant to the City's Project Manager with the next sixty (60) days unless the Project Manager agrees in writing to an extension of time for good cause shown. Good cause shown includes time for the Consultant to prepare the claim, and the City's Project Manager will grant an extension of not more than sixty

(60) days for preparation of the claim. The Consultant agrees that unless these written notices are provided, the Consultant shall not be entitled to additional time or compensation for such act, event or condition. The Consultant shall in any case continue diligent performance under this Agreement. The Consultant shall in any case continue to expeditiously accomplish disputed services pending future resolution of the Consultant's claim unless notified by the City to stop work on the disputed matter.

In presenting any claim, the Consultant shall specifically include, to the extent then possible, the following:

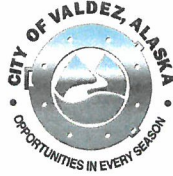
- The provisions of this Agreement which apply to the claim and under which it is made.



- The specific relief requested including any additional compensation claimed and the basis upon which it was calculated and/or the additional time requested and the basis upon which it was calculated.
- The claim will be acknowledged in writing by the City's Project Manager. If the claim is not disposed of within sixty (60) days of acknowledgement, provided additional time is not granted in writing by the City's Contract Officer, the claim will be decided by the City's Contract Officer. The Contract Officer reserves the right to make a written request to the Consultant at any time for additional information which the Consultant may possess to support the claims(s). The Consultant agrees to provide the City such additional information within thirty (30) days of receipt for such a request. The City's Contract Officer will allow a reasonable time extension for good cause if presented in writing prior to the expiration of the thirty (30) days. Failure to furnish such additional information constitutes a waiver of claim.
- The Consultant will be furnished a written, signed copy of the Contract Officer's decision within ninety (90) days of receipt of all necessary information from the Contractor upon which to base the decision. The Contract Officer's decision is final and conclusive unless fraudulent as to the claim unless, with thirty (30) days of receipt of the decision, the Consultant delivers a notice of appeal to the City Manager. The notice of appeal shall include specific exceptions to the City's decision including specific provision of this Agreement which the Consultant intends to rely upon on appeal. General assertions that the City's decision is contrary to law or to fact are not sufficient.
- The decision of the City Manager will be rendered within 120 days of notice of appeal and the decision constitutes the exhaustion of contractual and administrative remedies.

XV. Extent of Agreement:

This Agreement, including appendices, represents the entire and integrated Agreement between the City and the Consultant and supersedes all prior negotiations, representations or agreements, either written or oral.



Nothing contained herein may be deemed to create any contractual relationship between the City and any Subconsultants or material suppliers; nor may anything contained herein be deemed to give any third party a claim or right of action against the City or the Consultant which does not otherwise exist without regard to this Agreement.

This Agreement may be changed only by written amendment executed by both the City and the Consultant.

All communications that affect this Agreement must be made or confirmed in writing.

The Consultant receiving final payment will execute a release, if required, relinquishing in full all claims against the City arising out of or by reason of the services and work products furnished under this Agreement.

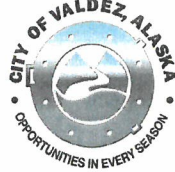
The Consultant shall pay all federal, state and local taxes incurred by the Consultant and shall require their payment by any Subconsultant or any other persons in the performance of this Agreement.

XVI. Governing Laws:

This Agreement is governed by the laws of the State of Alaska and such federal and local laws and ordinances as are applicable to work performed. Any litigation arising out of the terms of this Agreement shall be brought in the Third Judicial District, Superior or District Court at Valdez.

XVII. Minimum Wages:

Minimum wages as determined by the Department of Labor shall be paid to all persons performing work on this Contract.



Appendix D Standard Labor Rates

RATES EFFECTIVE JANUARY 1, 2018

TITLE		* RATE CHARGED
Architect, Engineer, Geologist	VIII	160
Architect, Engineer, Geologist:	VII	150
Architect, Engineer, Geologist:	VI	140
Architect, Engineer, Geologist:	V	130
Architect, Engineer, Geologist:	IV	125
Architect, Engineer, Geologist:	III	120
Architect, Engineer, Geologist:	II	100
Architect, Engineer, Geologist:	I	90
Arch/Eng Asst, Eng Tech:	XIII	95
Arch/Eng Asst, Eng Tech:	XII	90
Arch/Eng Asst, Eng Tech:	XI	85
Arch/Eng Asst, Eng Tech:	X	80
Arch/Eng Asst, Eng Tech:	IX	75
Arch/Eng Asst, Eng Tech:	VIII	70
Secretary, Eng Tech:	VII	65
Secretary, Eng Tech:	VI	60
Secretary, Eng Tech:	V	55
Secretary, Eng Tech:	IV	50
Secretary, Eng Tech:	III	45
Typist, Eng Tech:	II	40
Typist, Eng Tech:	I	35
Survey Crew (Complete: includes company-owned vehicles, standard equipment & supplies)		
One Man		120
Two Man		220
Two Man with GPS Rover		260
Three Man		290

* NOTE: RATE CHARGED INCLUDES ALL OVERHEAD EXPENSE, EQUIPMENT AND INCIDENTAL COPIES. RATES ARE NOT INCREASED FOR OVERTIME. SPECIALTY EQUIPMENT, GPS BASE STATION, EXPENSES AND SUBCONSULTANT CHARGES WILL BE BILLED AT ACTUAL COST PLUS 10%.

VEI Consultants

Civil Engineering and Surveying Consultants
Serving All of Alaska

1345 Rudakof Circle, Suite 201
Anchorage, Alaska 99508
FAX: (907) 338-5386
Phone: (907) 337-3330

RATES EFFECTIVE JANUARY 1, 2018

TITLE		* RATE CHARGED
Architect, Engineer, Geologist	VIII	160
Architect, Engineer, Geologist:	VII	150
Architect, Engineer, Geologist:	VI	140
Architect, Engineer, Geologist:	V	130
Architect, Engineer, Geologist:	IV	125
Architect, Engineer, Geologist:	III	120
Architect, Engineer, Geologist:	II	100
Architect, Engineer, Geologist:	I	90
Arch/Eng Asst, Eng Tech:	XIII	95
Arch/Eng Asst, Eng Tech:	XII	90
Arch/Eng Asst, Eng Tech:	XI	85
Arch/Eng Asst, Eng Tech:	X	80
Arch/Eng Asst, Eng Tech:	IX	75
Arch/Eng Asst, Eng Tech:	VIII	70
Secretary, Eng Tech:	VII	65
Secretary, Eng Tech:	VI	60
Secretary, Eng Tech:	V	55
Secretary, Eng Tech:	IV	50
Secretary, Eng Tech:	III	45
Typist, Eng Tech:	II	40
Typist, Eng Tech:	I	35
Survey Crew (Complete: includes company-owned vehicles, standard equipment & supplies)		
One Man		120
Two Man		220
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PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)

COMPUTER TECHNOLOGY

AutoCAD Civil 3D, HEC-HMS, StormCAD, WaterCAD, Flowmaster, MS Word, Excel, PowerPoint, MS Project

SPECIAL TRAINING

Hydrology Modeling Using HEC-HMS (through ASCE, Feb 2005)

Water Distribution and Modeling (Bentley Systems, formerly Haestad Methods, Oct 2006)

Sanitary Survey Training (Alaska Training/Technical Assistance Center, May 2008)

Intro to Civil 3D, Advanced Corridors, Surveying Field to Finish (Surveyors Exchange, Feb 2009)

Arctic Engineering (UAA, July 2007)

North Slope Training (NTSC, July 2007)

Systematic Development of Informed Consent (IPMP, February 2015)

REFERENCES

Todd Carroll, PE, AWWU (907) 564-2753

Mark Coburn, PE, Department of Army Corps of Engineers (907) 753-2847

Steve Nuss, PE, AWWU (907) 564-2763

Joe Polowy, AWWU (907) 338-3870

Oooguruk Offshore Drill Site for Caelus Energy

Scott assisted in water system design for an 80 man camp on the North Slope. The project utilized Reverse Osmosis (RO) technology to treat brine to meet freshwater demand. Scott performed hydraulic calculations and completed piping design for the system. Future improvements were ammonia removal and caustic soda pH adjustment.

Hollywood & Elm Sewer Rehab for AWWU

Scott was task manager for design of improvements to a troublesome section of sewer main in the Government Hill neighborhood. The existing concrete sewer main serving two apartment buildings had sags, constrictions, and minimal cover. Project tasks included replacing approximately 350 ft of welded-steel pipe with PVC pipe. The project scope also included the construction of new water and sewer services to the apartment buildings. Unique challenges: an undocumented steam heating vault and undocumented service locations. Scott also provided coordination with NeighborWorks Anchorage, as well as periodic inspections during construction.

Pump Station 20 for AWWU

Scott served as project manager for this rehabilitation of Pump Station 20 near Sand Lake. Tasks during the study phase included: working with SCADA data to determine current flows and projecting the design flows; pump selection; modeling of the current system; and hatch selection. Design components included installation of new hatches on both the dry well and wet well, new wastewater pumps and piping, temporary bypasses, and grading of replacement asphalt. Scott oversaw the design of electrical upgrades, a new above-ground generator and pad, and corrosion prevention/coatings. He also worked with the surrounding residents to obtain temporary construction permits.

Christensen Drive Water Upgrade for AWWU

This project involved replacing 1290 feet of failing water main in an area of old downtown Anchorage. Challenges included tight alleyways, limited asbuilt information, and high groundwater. Scott served as project engineer—first preparing a Design Study Report to weigh upgrade alternatives (remove/replace or trenchless) and then developing a cost effective plan of action. He provided bid-ready plans, specifications, and estimates, then performed construction administration and inspection. The use of Horizontal Directional Drilling for pipe installation was particularly effective on this project.

Pump Station 10 / Marston RID / Turnagain Hts WID/LID (MOA/AWWU)

Scott completed design and coordination work on several aspects of this multi-faceted project. He designed portions of the sanitary sewer, water, subdrain, and storm drain pipes needed to serve both the pump station and the surrounding properties. He completed drainage calculations and design of the pump station bioswale. Scott also designed the retaining walls and portions of road.

SCOTT T. ROELFS, PE, Civil Engineer



Scott Roelfs works as a project civil engineer and manager. He has 14 years of valuable experience in water, sewer, land development, and road projects. His professional engineering career began in Bakersfield, California in 2003. He served as a design engineer, preparing drainage and hydrology studies, drinking water studies, sewer studies, and overseeing/performing subdivision and hydraulic designs for a local firm. Scott joined VEI in 2007. He has since expanded both his design and construction experience to include tasks such as drainage studies, water line, interior process pipe, subdivision, and parking lot design, surveying, office engineer and construction inspection work. He has been directly involved in study, design, plan preparation, specifications, and construction administration. He is experienced at coordinating civil design with other disciplines and maintaining budgets and schedules.

EDUCATION

2003, BS Civil Engineering,
Colorado School of Mines

PROFESSIONAL REGISTRATION

Civil Engineer, Alaska
CE 11824

Environmental Engineer, Alaska
EV 14388

CERTIFICATIONS

ADEC Sanitary Survey Inspector, #182

Project Experience: Water & Sewer

Sanitary Survey of AWWU's Anchorage, Northern Communities, and Girdwood Drinking Water Facilities (AWWU Term Contract)

As a registered third party Sanitary Surveyor, Scott represented DEC-Drinking Water in a system wide inspection of AWWU's treatment plants, well houses, storage facilities, and intake structures to assure regulation compliance. Work also included review of operational procedures, treatment schemes and system layouts, with all findings compiled into final reports submitted to DEC. Scott gained invaluable insight into the largest public water system in Alaska.

Sanitary Survey of JBER—Elmendorf's Drinking Water Facilities

Pump Station 30-31 Rehab for AWWU

Scott served as project engineer for the study and design phase of this challenging sewer project in the Potters Marsh/Rabbit Creek areas of Anchorage. AWWU's master plan identified abandoning or mothballing PS30 as a cost-saving measure. Scott developed the Technical Memo and 30% plans to evaluate the alternatives. Scott also prepared a Business Case Evaluation to assist AWWU's Board with project prioritization. Scott continued to develop the project to final bid documents. Proposed work includes slip-lining 17,000 ft of ductile iron force main, pump replacement in PS31, and mothballing PS30. Unique challenges: pressure surge mitigation and downsizing oversized sewer infrastructure.

Talkeetna Public Water System Improvements for Mat-Su Borough

Scott assisted in design of an Arsenic removal treatment system, housed in a module, for the City of Talkeetna, AK. His tasks included water demand calculations, testing the existing system, working with ADEC to obtain construction permits, designing interior piping and skid, and construction inspection. Due to the configuration of the system, Scott was required to model fire flows, develop a bypass system, and work with ADEC for approvals. He was key to the system startup, working with the operator to fine-tune pressure settings on the wells, hydro-pneumatic tank, and PRV.

East Bluff Water Rehab: Phase 2 for AWWU

Scott was task manager for the design of improvements to the aging water distribution system in this Government Hill neighborhood adjacent to the Alaska Railroad rail yard. The project scope included construction of 750 ft of new PVC pipe and abandoning 1450 ft of existing water main using concrete grout. The project required coordination with ARRC, the Anchorage Curling Club, the Anchorage Round and Square Dance Club, and the Municipality of Anchorage Parks Dept. Scott also provided periodic inspections during construction.

RECENT COURSEWORK

Wireless Remote Monitoring
North Slope Lake Water Treatment:
Nanofiltration
MBR Retrofit of Existing WWT
Horizontal Directional Drilling
Manhole Rehabilitation
LT2 Water Treatment Options

PUBLICATIONS

"Joint Dry/Wet Weather Sewage Treatment for Clatskanie, OR", Co-authored; EPA Demonstration Grant.

"Barrow, Alaska Sewage Disposal – A Facultative Lagoon For Arctic Conditions", Coauthored.

REFERENCES

Bill Reith, PE, ADEC, Wastewater Engineer II, (907) 269-7519

Steve Nuss, PE, AWWU Director Engineering Division, (907) 564-2763

Russ Oswald, PE, Project Manager MOA-PM&E, (907) 343-8196

Mark Corsentino, PE, AWWU Operation & Maintenance Director, (907) 550-5901

Brian Baus, PE, AWWU Design Supervisor, (907) 564-2765

Todd Carroll, PE, AWWU Project Manager, (907) 564-2753

John Rescober, PE, AWWU Project Manager, (907) 564-2709

- Kodiak Sewer System Study, for City of Kodiak
- Lowell Point Water/Sewer Feasibility Study, for Lowell Point Community Council and VSW
- Ocean Dock Road 3R for ADOT&PF – Design of 5 water and sewer relocations, water line extension.
- Oooguruk Island, Source water wells, replacement and rehabilitation, Caelus Energy Alaska
- Oliktok Point, Spy Island, Water supply wells. Investigation and Design of 4 large commercial seawater wells. ENI Petroleum
- Eaglewood Sub'd Drainage System and Road Maintenance Plan, for Eaglewood Association
- Deering Water/Sewer Study, Preliminary Design, City of Deering and VSW
- Sewer Extensions, Dairy Hill Sub'd, Seward
- Northway Sewage Treatment Alternative, for Alaska Gateway School District
- Water Extensions for Birch Hills Terrace, Springbrook Vista, and Pippel Subdivisions, Eagle River, for Private Clients
- Point Hope Water Treatment Plant Upgrade, North Slope Borough
- Harbor Drive Wastewater Pump Station for City of Valdez
- Harbor Drive/Fidalgo Water Line and Channel Crossing, for City of Valdez
- Eaglewood Drainage Study, Eagle River, for Eaglewood Homeowners' Association
- Valdez Sewer Rehabilitation, for City of Valdez
- Point Hope Water Facilities Plan, for North Slope Borough
- Kotzebue Water Treatment Upgrade, for City of Kotzebue
- Radon Subdivision Utilities Extensions, Wasilla, for Radon, Inc.
- Topographic Mapping for City of Wasilla Sewer System
- Sewer Easements and Acquisitions for City of Wasilla
- Two Moon Bay Logging Camp, Water and Sewer, Tatitlek, AK
- Toksook Bay Water System Rehabilitation Study, with S&W
- Platinum Mining Camp Water and Sewer System Upgrade, Goodnews Bay, AK for Rahco Co.
- Skwentna School Water and Sewer System, for Mat-Su Borough.

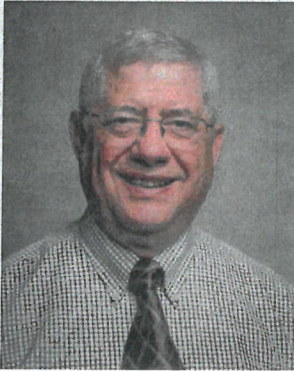
Buildings (Civil Design)

- Baker Hughes Office & Shop, Anchorage, AK
- Van Waters & Rogers (Univar) Warehouse, Anchorage, AK
- Lake Lucille Lodge, Wasilla, AK

Roads and General Civil

- Chuck Albrecht Ball Fields, Anchorage
- Lake Otis Parkway (Abbott to O'Malley), Anchorage
- Marston/Foraker RID, Anchorage
- Colonial Village Townhome RID, Anchorage

VERNON L. ROELFS, PE, LS - Project / Contract Manager



Vern Roelfs has more than 35 years of engineering experience in the private sector, working for small communities and local governments. He spent 5 years as a civil and sanitary engineer in the Pacific Northwest, before moving to Alaska in 1980. He started his own firm in 1982, which merged with VEI in 1985. Vern is president of VEI and a senior civil engineer.

EDUCATION

1975, M.S. Civil Engineering
(Sanitary Emphasis), Oregon State

1974, B.S., Civil Engineering,
St. Martin's University

PROFESSIONAL REGISTRATION

Civil Engineer, Alaska CE 5107
Environmental Engineer, Alaska,
EV 13710
Land Surveyor, Alaska LS 7617

PROFESSIONAL AFFILIATIONS

Alaska Water/Wastewater Manage-
ment Association
American Society of Civil Engineers
Water Environment Federation
American Water Works Association

Pertinent Experience

Vern spent the first 5 years of his career in the Pacific Northwest, planning water and sewer systems for local communities as well as designing water/wastewater treatment facilities and system rehabilitation. He was recruited to Alaska in 1980 to serve as the Owner's Representative for North Slope Borough water/sewer system development. Vern oversaw planning, design review, construction, inspection, budget tracking and final acceptance. A major project under his responsibility was the Barrow Water and Wastewater System.

Since the 1980s Vern has completed numerous Alaskan water and sewer designs and is familiar with all facets of engineering in arctic and subarctic environments. He has designed treatment systems, pump stations, booster stations, water storage facilities, vacuum and pressure sewer systems, circulating water systems, water source development, seawater and membrane water treatment systems, and lagoon, activated sludge and MBR sewage treatment systems.

Projects for Anchorage Water & Wastewater Utility

- Pump Station 30/31 Improvements and BCE, Anchorage
- Hollywood/Elm Sewer Improvements, Anchorage
- Pump Station 20 Upgrade, Anchorage
- Pump Station 10 Upgrade, Anchorage
- Eagle River TID ER3 Sewer Extension & Pump Station, Eagle River, AK
- Girdwood I/I Flow Monitoring
- Pump Station 10 Area I/I Study
- Pump Station 29 Upgrade, Anchorage
- Turnagin Heights WID/LID, Anchorage
- Water R&R, Sunny Slopes/North Celestial, Eagle River, AK
- Springbrook Vista Subdivision Water Extension, Eagle River, AK
- Specking Road Water Upgrade, Anchorage
- East Bluff Water Improvement, Anchorage
- Christensen Drive Water Upgrade, Anchorage
- Tedrow Subdivision LID, Eagle River, AK
- Juanita Loop/Santa Maria Drive, Water/Sewer, Eagle River, for AWWU (Sub)
- Fire Lake Trunk Sewer Route Study, Eagle River, AWWU (Sub)

Other Water and Sewer Project Experience

- SA 10 Standby Wells Development, Deadhorse, AK
- Kodiak WWTP Upgrade, for City of Kodiak
- Design Review Consultant, Term Contract, VSW
- Caelus, OTP, Camp Water/Sewer
- Talkeetna Water Treatment Arsenic and Manganese Removal, for Mat-Su Borough
- Caelus, Oooguruk Drill Site Water/Sewer

We have attached resumes for Vern Roelfs P.E. and Scott Roelfs P.E.. Scott is also an ADEC approved sanitary surveyor for public water systems. The term of this proposal will extend from January 1, 2018 until December 31, 2018. If you have any questions or need additional information, please dont hesitate to call me.

Sincerely,

VEI CONSULTANTS



Vernon L. Roelfs, PE
Principal

Attachments:

Resumes for Vernon Roelfs and Scott Roelfs; 2018 Rate Schedule

VEI Consultants

*Civil Engineering and Surveying Consultants
Serving All of Alaska*

1345 Rudakof Circle, Suite 201
Anchorage, Alaska 99508
FAX: (907) 338-5386
Phone: (907) 337-3330

January 23, 2018

Ms. Kate Huber
City Of Valdez
P.O. Box 307
Valdez, AK 99686

Re: Professional Engineering Services – **Proposal for Septic System Review Services**

Dear Ms. Huber,

Thank you for thinking of us to provide professional engineering services for review of conventional septic system applications and designs.

We propose to provide a two-step approval:

1. A preliminary review will be conducted based on the application and design prior to construction. This would be an email approval addressed to the responsible city official. This will approve the design and state any special construction requirements or additional information that will be required for final approval.
2. Final approval will be based on record drawings, any additional information provided by the applicant and field verification from the city building inspector. For final approval VEI will generate a signed letter indicating system conformance based on information provided to us.

Our review will be conducted in accordance with:

- Valdez Municipal Code
- State of Alaska Wastewater Disposal Regulation (18 AAC 72)
- ADEC Onsite Wastewater System Inspectors Manual (January 2016)
- State of Alaska Drinking Water Regs (18 AAC 80)
- Uniform Plumbing Code (2009) for issues not addressed in ADEC code

Required Information for Design (Preliminary) Approval:

1. Application form stating pertinent design elements.
2. Soils log showing: test hole location, soils classifications, percolation test results (if applicable), separation distances to groundwater and impervious layers.
3. Design drawings showing plan and section views that address all pertinent separation requirements.
4. Record drawings for existing water and wastewater systems (if available) on the subject lot, adjacent lots, and ROW.

Required Information for Construction (Final) Approval

1. Record drawing of completed wastewater facility.
2. Any special requirements from preliminary approval.
3. City building inspector notes showing conformity with plans.

Conventional On-Site System

We have interpreted Conventional on-site systems to include absorption systems constructed in undisturbed native soil and locations not previously used for a septic absorption system. Also, this undisturbed soil would not be subject to excavation and backfill to build a base for the absorption system. We have a request into DEC to verify this interpretation. If DEC determines that systems built in the old absorption system location or systems where the subgrade is subject to excavation and backfill are conventional septic systems, we will require that these systems be designed by an engineer who would also oversee construction. We would also reserve the right to remand system design review and permitting to DEC in difficult cases. DEC has indicated that they are willing to handle the difficult cases.

Turnaround Time

These are small projects and we anticipate that we will be able to work them into our normal workload. We should be able to provide a 3 day turnaround. However, if we are out of town or other conflicts arise it could take up to one week.

Fee Proposal

We propose to provide septic system review and other related services on a time and materials basis not to exceed \$30,000 in the 2018 calendar year. We anticipate that each conventional system review with the preliminary and final approval will require three hours of engineering time. This will include necessary telephone conversations with City of Valdez personnel and inspectors. Our fee schedule is attached.