



# Sunshine Coast Regional District

# Request for Proposal

Number: 2137019  
for

## Gray Creek Water Treatment Feasibility Study - Hydrology Only

Issue Date:  
January 14, 2022

Closing Date of  
**February 18, 2022 at 3:00 PM local time**

**MANDATORY SITE MEETING:** A mandatory site meeting will be held on January 24, 2022 at 1:00 pm local time. We will meet on the Gray Creek Bridge (located on Sechelt Inlet Road) and we will caravan to the site (which is located at 7428 UF Sechelt Inlet Road). Please note the road is an FSR which is used for logging, Proponents will need to ensure that they have an appropriate vehicle to transport them to site.

Any proponents interested in attending this mandatory site meeting **must** RSVP by noon on January 21, 2022. RSVP's need to be emailed to [vanessa.schilling@scrd.ca](mailto:vanessa.schilling@scrd.ca). If no RSVP's are received the site meeting will be cancelled.

**CONTACT:** All enquiries related to this Request for Proposals, including any requests for information and clarification, are to be submitted by January 25, 2022 and directed, in writing, to [vanessa.schilling@scrd.ca](mailto:vanessa.schilling@scrd.ca), who will respond if time permits with a Q&A on BC Bid by February 7, 2022. Information obtained from any other source is not official and should not be relied upon. Enquiries and any responses providing new information will be recorded and posted to BC Bid or otherwise distributed to prospective Proponents.

**DELIVERY OF PROPOSALS:** Proposals must be in English and must be submitted using one of the submission methods below, and must either **(1)** include a copy of this cover page that is signed by an authorized representative of the Proponent or **(2)** be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP.

**BC Bid Electronic Submission:** Proponents may submit an electronic proposal using BC Bid. Proposals must be submitted in accordance with the BC Bid requirements and e-bidding key requirements (found at [www.bcbid.ca](http://www.bcbid.ca)). Only pre-authorized electronic bidders registered on the BC Bid system can submit an electronic proposal using the BC Bid system. Use of an e-bidding key is effective as a signature.

OR

**Hard Copy Submission:** Proponents must submit **ONE (1)** hard-copies and **ONE (1)** electronic copy on a USB Drive of the proposal. Proposals submitted by hard copy must be submitted by hand or courier to:

Sunshine Coast Regional District  
1975 Field Road  
Sechelt, BC V7Z 0A8

Regardless of submission method, proposals must be received before Closing Time to be considered.

**A proposal is deemed to incorporate the Confirmation of Proponent's Intent to Be Bound below, without alteration.**

### CONFIRMATION OF PROPONENT'S INTENT TO BE BOUND:

The enclosed proposal is submitted in response to the referenced Request for Proposals, including any Addenda. By submitting a proposal the Proponent agrees to all of the terms and conditions of the RFP including the following:

- The Proponent has carefully read and examined the entire Request for Proposals;
- The Proponent has conducted such other investigations as were prudent and reasonable in preparing the proposal; and
- The Proponent agrees to be bound by the statements and representations made in its proposal.

PROponent NAME (please print): \_\_\_\_\_

NAME OF AUTHORIZED REPRESENTATIVE (please print): \_\_\_\_\_

SIGNATURE OF AUTHORIZED REPRESENTATIVE: \_\_\_\_\_

DATE: \_\_\_\_\_

**TABLE OF CONTENTS**

	<b>Page</b>
1. GENERAL TERMS & CONDITIONS.....	3
2. INTRODUCTION.....	7
2.1 Purpose .....	7
3. SITUATION/OVERVIEW.....	7
3.1 Background.....	7
3.2 Project Objectives.....	8
3.3 Scope.....	8
4. CONTRACT .....	10
4.1 General Contract Terms and Conditions.....	10
4.2 Service Requirements .....	10
4.3 Related Documents .....	10
5. REQUIREMENTS .....	11
5.1 Capabilities .....	11
5.2 Sustainable Social Procurement .....	12
5.3 Approach .....	<b>Error! Bookmark not defined.</b>
5.4 Price.....	12
6. PROPOSAL FORMAT .....	12
7. EVALUATION.....	13
7.1 Mandatory Criteria.....	13
7.2 Weighted Criteria.....	14
7.3 Price Evaluation.....	14

## 1. GENERAL TERMS & CONDITIONS

### 1.1 DEFINITIONS

Throughout this Request for Proposal, the following definitions apply:

“**Addenda**” means all additional information regarding this RFP, including amendments to the RFP;

“**BC Bid**” means the BC Bid website located at [www.bcbid.ca](http://www.bcbid.ca);

“**Closing Location**” includes the location or email address for submissions indicated on the cover page of this RFP, or BC Bid, as applicable;

“**Closing Time**” means the closing time and date for this RFP as set out on the cover page of this RFP;

“**Contract**” means the written agreement resulting from the RFP executed by the Regional District and the successful Proponent;

“**Contractor**” means the successful Proponent to the RFP who enters into a Contract with the Regional District;

“**Must**”, or “**mandatory**” means a requirement that must be met in order for a proposal to receive consideration;

“**Proponent**” means a person or entity (excluding its parent, subsidiaries or other affiliates) with the legal capacity to contract, that submits a proposal in response to the RFP;

“**Proposal**” means a written response to the RFP that is submitted by a Proponent;

“**Request for Proposals**” or “**RFP**” means the solicitation described in this document, including any attached or referenced appendices, schedules or exhibits and as may be modified in writing from time to time by the Regional District by Addenda; and

“**Should**”, “**may**” or “**weighted**” means a requirement having a significant degree of importance to the objectives of the Request for Proposals.

“**SCRD**”, “**Regional District**”, “**Organization**”, “**we**”, “**us**”, and “**our**” mean Sunshine Coast Regional District.

### 1.2 FORM OF PROPOSAL

This Proposal must be completed in its entirety. Failure to properly complete this Proposal form may cause your Proposal to be rejected. The signing officer must initial all corrections. The Sunshine Coast Regional District (Regional District) reserves the right to permit a correction, clarification or amendment to the Proposal or to correct minor errors and irregularities.

### 1.3 SUBMISSION OF PROPOSAL

a) Proposals must be submitted before Closing Time to the Closing Location using one of the submission methods set out on the cover page of this RFP. Proposals must not be sent by fax. The Proponent is solely responsible for ensuring that, regardless of submission method selected, the Regional District receives a complete Proposal, including all attachments or enclosures, before the Closing Time.

b) For electronic submissions (BC Bid or email), the following applies:

(i) The Proponent is solely responsible for ensuring that the complete electronic Proposal, including all attachments, is received before Closing Time;

(ii) The Regional District limits the maximum size of any single email message to 20MB or less.

(iii) Proponents should endeavour to submit emailed proposal submissions in a single message and avoid sending multiple email submissions for the same opportunity. If an electronic submission exceeds the applicable maximum single message size, the Proponent may make multiple submissions (BC Bid upload or multiple emails for the same opportunity). Proponents should identify the order and number of emails making up the email proposal submission (e.g. “email 1 of 3, email 2 of 3...”);

(iv) For email proposal submissions sent through multiple emails, the Regional District reserves the right to seek clarification or reject the proposal if the Regional District is unable to determine what documents constitute the complete proposal;

(v) Attachments must not be compressed or encrypted, must not contain viruses or malware, must not be corrupted, and must be able to be opened using commonly available software (e.g. Adobe Acrobat). Proponents submitting by electronic submission are solely responsible for ensuring that any emails or attachments are not corrupted. The Regional District has no obligation to attempt to remedy any message or attachment that is received corrupted or cannot be viewed. The Regional District may reject proposals that are compressed encrypted, cannot be opened or that contain viruses or malware or corrupted attachments.

c) For BC Bid e-submissions only pre-authorized e-bidders registered on BC Bid can submit electronic bids on BC Bid. BC Bid is a subscription service (\$150 per year) and the registration process may take two business days to complete. If using this submission method, Proponents should refer to the BC Bid website or contact BC Bid Helpdesk at 250-387-7301 for more information. An electronic proposal submitted on BC Bid must be submitted using the e-bidding key of an authorized representative of the Proponent. Using the e-bidding key of a subcontractor is not acceptable.

d) For email proposal submissions, including any notices of amendment or withdrawal referred to in Section 1.6, the subject line of the email and any attachment should be clearly marked with the name of the Proponent, the RFP number and the project or program title.

e) The Regional District strongly encourages Proponents using electronic submissions to submit proposals with sufficient time to complete the upload and transmission of the complete proposal and any attachments before Closing Time.

f) The Proponent bears all risk associated with delivering its Proposal by electronic submission, including but not limited to delays in transmission between the Proponent’s computer and the Regional District Electronic Mail System or BC Bid.

g) While the Regional District may allow for email proposal submissions, the Proponent acknowledges that email transmissions are inherently unreliable. The Proponent is solely responsible for ensuring that its complete email proposal submission and all attachments have been received before Closing Time. If the Regional District Electronic Mail System rejects an email proposal submission for any reason, and the Proponent does not successfully resubmit its proposal by the same or other permitted submission method before Closing Time, the Proponent will not be permitted to resubmit its proposal after Closing Time. The Proponent is strongly advised to contact the Regional District Contact immediately to arrange for an alternative submission method if:

- (i) the Proponent's email proposal submission is rejected by the Regional District Electronic Mail System; or
- (ii) the Proponent does not receive an automated response email from the Regional District confirming receipt of each and every message transmitted, within a half hour of transmission by the Proponent.

An alternate submission method may be made available, at the Regional District's discretion, immediately to arrange for an alternative submission method, and it is the Proponent's sole responsibility for ensuring that a complete proposal (and all attachments) submitted using an approved alternate submission method is received by the Regional District before the Closing Time. The Regional District makes no guarantee that an alternative submission method will be available or that the method available will ensure that a Proponent's proposal is received before Closing Time.

#### **1.4 SIGNATURE REQUIRED**

Proposals must be properly signed by an officer, employee or agent having authority to bind the Proponent by that signature.

#### **1.5 CLARIFICATIONS, ADDENDA & MINOR IRREGULARITIES**

If any Proponent finds any inconsistencies, errors or omissions in the proposal documents or requires information, clarification of any provision contained therein, they shall submit their query in writing or email, addressed as follows:

Purchasing Division  
Sunshine Coast Regional District  
1975 Field Road, Sechelt, BC V7Z 0A8

[vanessa.schilling@scrd.ca](mailto:vanessa.schilling@scrd.ca)

Any interpretation of, addition to, deletions from or any corrections to the proposal documents will be issued as written addendum by the Regional District.

All Addenda will be posted on BC Bid. It is the sole responsibility of the Proponent to check for Addenda on BC Bid. Proponents are strongly encouraged to

subscribe to BC Bid's email notification service to receive notices of Addenda.

#### **1.6 WITHDRAWAL OR REVISIONS**

Proposals or revisions may be withdrawn by written notice provided such a notice of withdrawal is received prior to the closing date and time. Proposals withdrawn will be returned to the Proponent unopened. Revisions to the proposals already received shall be submitted only by electronic mail, or signed letter. The revision must state only the amount by which a figure is to be increased or decreased, or specific directions as to the exclusions or inclusion of particular words.

#### **1.7 CONDUCT OF THE CONTRACT**

Unless otherwise specified within this document, any queries regarding this Request for Proposal are to be directed to [vanessa.schilling@scrd.ca](mailto:vanessa.schilling@scrd.ca). No other verbal or written instruction or information shall be relied upon by the Bidder, nor will they be binding upon the Regional District.

#### **1.8 CONFLICT OF INTEREST/NO LOBBYING**

(a) A Proponent may be disqualified if the Proponent's current or past corporate or other interests, or those of a proposed subcontractor, may, in the Regional District's opinion, give rise to an actual or potential conflict of interest in connection with the services described in the RFP. This includes, but is not limited to, involvement by a Proponent in the preparation of the RFP or a relationship with any employee, contractor or representative of the Regional District involved in preparation of the RFP, participating on the evaluation committee or in the administration of the Contract. If a Proponent is in doubt as to whether there might be a conflict of interest, the Proponent should consult with the Regional District Contact prior to submitting a proposal. By submitting a proposal, the Proponent represents that it is not aware of any circumstances that would give rise to a conflict of interest that is actual or potential, in respect of the RFP.

(b) A Proponent must not attempt to influence the outcome of the RFP process by engaging in lobbying activities. Any attempt by the Proponent to communicate, for this purpose directly or indirectly with any employee, contractor or representative of the Regional District, including members of the evaluation committee and any elected officials of the Regional District, or with the media, may result in disqualification of the Proponent.

#### **1.9 CONTRACT**

By submitting a proposal, the Proponent agrees that should its proposal be successful the Proponent will enter into a Contract with the Regional District on substantially the same terms and Conditions set out in <https://www.scrd.ca/go/terms> and such other terms and conditions to be finalized to the satisfaction of the

Regional District, if applicable.

#### **1.10 SUSTAINABLE PROCUREMENT**

The Regional District adheres to its sustainable consideration factors. Proposals will be considered not only on the total cost of services, but Proposals that addresses the environment and social factors.

#### **1.11 INVOICING AND PAYMENT**

Unless otherwise agreed, the Regional District payment terms are Net 30 days following receipt of services or approved invoices, whichever is later. Original invoices are to be forwarded to the accounts payable department of the Regional District. The purchase order number assigned by the Regional District must be stated on the invoice otherwise payment may be delayed.

#### **1.12 PRICING, CURRENCY AND TAXES**

Offered prices are to be attached as a price schedule in Canadian dollars with taxes stated separately when applicable.

#### **1.13 IRREVOCABLE OFFER**

This Proposal must be irrevocable for 90 days from the Proposal closing date and time.

#### **1.14 TIME IS OF THE ESSENCE**

Time shall be of the essence in this contract.

#### **1.15 ASSIGNMENT**

The Proponent will not, without written consent of the Regional District, assign or transfer this contract or any part thereof.

#### **1.16 OWNERSHIP OF DOCUMENTS & FREEDOM OF INFORMATION**

All documents submitted in response to this Request for Proposal shall become the property of the Regional District and as such will be subject to the disclosure provisions of the *Freedom of Information and Protection of Privacy Act* and any requirement for disclosure of all or a part of a Proposal under that Act.

The requirement for confidentiality shall not apply to any Proposal that is incorporated into a Contract for the Work. Further, the Regional District may disclose the top scoring proponent's aggregate pricing to the Regional District Board at a public meeting, when making a recommendation for the award of the Contract.

For more information on the application of the Act, go to [http://www.cio.gov.bc.ca/cio/priv\\_leg/index.page](http://www.cio.gov.bc.ca/cio/priv_leg/index.page).

#### **1.17 AWARD OF CONTRACT**

The Purchasing Policy at the Regional District offers contracts to businesses through an open, fair and consistent competitive bidding process. This ensures that the Regional District will receive the best overall value for the goods and services it requires. The Regional District reserves the right to cancel, award all or part of the scope of work described in this document to a single Proponent or may split the award with multiple Proponents.

All awards are subject to Board approval that meets the needs as determined by the Board. The Regional District, in receipt of a submission from a Proponent, may in its sole discretion consider the Proponent to have accepted the terms and conditions herein, except those expressly excluded or changed by the Proponent in writing.

The RFP shall not be construed as an agreement to purchase goods or services. The lowest priced or any proposal will not necessarily be accepted. The RFP does not commit the Regional District in any way to award a contract and that no legal relationship or obligation regarding the procurement of any good or service will be created between Regional District and the proponent unless and until Regional District and the proponent execute a written agreement for the Deliverables

#### **1.18 COST OF PROPOSAL**

The Proponent acknowledges and agrees that the Regional District will not be responsible for any costs, expenses, losses, damage or liability incurred by the Proponent as a result of or arising out submitting a Proposal for the proposed contract or the Regional District's acceptance or non-acceptance of their proposal. Further, except as expressly and specifically permitted herein, no Proponent shall have any claim for any compensation of any kind whatsoever, as a result of participating in this RFP, and by submitting a proposal each Proponent shall be deemed to have agreed that it has no claim.

#### **1.19 PROPONENT'S RESPONSIBILITY**

It is the Proponent's responsibility to ensure that the terms of reference contained herein are fully understood and to obtain any further information required for this proposal call on its own initiative. The Regional District reserves the right to share, with all proponents, all questions and answers related to this bid call.

#### **1.20 EVALUATIONS**

Proposals will be evaluated in private, including proposals that were opened and read in public, if applicable. Proposals will be assessed in accordance with the evaluation criteria.

If only one Proposal is received, the Regional District reserves the right to open the Proposal in private or if the total bid price exceeds the estimated budget for the Contract, the Regional District may cancel and re-tender, accept, not accept and cancel or re-scope the Work seeking a better response, with or without any substantive changes being made to the solicitation documents. If more than one Proposal is received from the same Proponent, the last Proposal received, as determined by the Regional District, will be the only Proposal considered.

#### **1.21 ACCEPTANCE OF TERMS**

The submission of the Proposal constitutes the agreement of the Proponent that all of the terms and conditions of the RFP are accepted by the Proponent and incorporated in its Proposal, except those

conditions and provisions which are expressly excluded and clearly stated as excluded by the Proponent's proposal.

#### **1.22 MANDATORY REQUIREMENTS**

Proposals not clearly demonstrating that they meet the mandatory requirements will receive no further consideration during the evaluation process.

#### **1.23 INSURANCE & WCB**

The Proponent shall obtain and continuously hold for the term of the contract, insurance coverage with the Regional District Listed as "Additional Insured" the minimum limits of not less than those stated below:

- (a) Commercial General Liability – not less than \$2,000,000 per occurrence
- (b) Error & Omissions Insurance – not less than \$2,000,000 per occurrence
- (c) A provision requiring the Insurer to give the Owners a minimum of 30 days' notice of cancellation or lapsing or any material change in the insurance policy;

The Proponent must comply with all applicable laws and bylaws within the jurisdiction of the work. The Proponent must further comply with all conditions and safety regulations of the Workers' Compensation Act of British Columbia and must be in good standing during the term of any contract entered into from this process.

#### **1.24 COLLUSION**

Except otherwise specified or as arising by reason of the provisions of these documents, no person, or corporation, other than the Proponent has or will have any interest or share in this proposal or in the proposal contract which may be completed in respect thereof. There is no collusion or arrangement between the Proponent and any other actual or prospective Proponent in connection with proposals submitted for this project and the Proponent has no knowledge of the context of other proposals and has no comparison of figures or agreement or arrangement, express or implied, with any other party in connection with the making of the proposal.

#### **1.25 CONFLICT OF INTEREST**

Proponents shall disclose in its Proposal any actual or potential conflict of interest and existing business relationship it may have with the Regional District, its elected or appointed officials or employees.

#### **1.26 LIABILITY FOR ERRORS**

While the Regional District has used considerable efforts to ensure an acute representation of information in these bid documents, the information contained is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the Regional District nor is it necessarily comprehensive or exhaustive.

#### **1.27 TRADE AGREEMENTS**

This RFP is covered by trade agreements between the Regional District and other jurisdictions, including the following:

- a) Canadian Free Trade Agreement; and

- b) New West Partnership Trade Agreement.

#### **1.28 LAW**

This contract and any resultant award shall be governed by and construed in accordance with the laws of the Province of British Columbia, which shall be deemed the proper law thereof.

#### **1.29 REPRISAL CLAUSE**

Tenders will not be accepted by the Regional District from any person, corporation, or other legal entity (the "Party") if the Party, or any officer or director of a corporate Party, is, or has been within a period of two years prior to the tender closing date, engaged either directly or indirectly through another corporation or legal entity in a legal proceeding initiated in any court against the Regional District in relation to any contract with, or works or services provided to, the Regional District; and any such Party is not eligible to submit a tender.

#### **1.30 FORCE MAJEURE (ACT OF GOD)**

Neither party shall be liable for any failure of or delay in the performance of this Agreement for the period that such failure or delay is due to causes beyond its reasonable control including but not limited to acts of God, war, strikes or labour disputes, embargoes, government orders or any other force majeure event. The Regional District may terminate the Contract by notice if the event lasts for longer than 30 days.

#### **1.31 CONFIDENTIAL INFORMATION OF PROPONENT**

A proponent should identify any information in its proposal or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by Regional District. The confidentiality of such information will be maintained by Regional District, except the total proposed value, which must be publicly released for all proposals, or otherwise required by the Freedom of Information and Protection of Privacy Act ("FOIPPA"), law or by order of a court or tribunal. Proponents are advised that their proposals will, as necessary, be disclosed, on a confidential basis, to advisers retained by Regional District to advise or assist with the RFP process, including the evaluation of proposals. If a proponent has any questions about the collection and use of personal information pursuant to this RFP, questions are to be submitted to the RFP Contact.

#### **1.32 DISPUTE RESOLUTION**

All unresolved disputes arising out of or in connection with this Proposal or in respect of any contractual relationship associated therewith or derived therewith shall be referred to and finally resolved by arbitration as prescribed by Mediate BC services pursuant to its rules, unless otherwise mutually agreed between the parties.

#### **1.33 DEBRIEFING**

At the conclusion of the RFP process, all Proponents will be notified. Proponents may request a debriefing meeting with the Regional District.

## 2. INTRODUCTION

### 2.1 Purpose

The Sunshine Coast Regional District (SCRD) is requesting proposals from qualified hydrological consulting firms to conduct and complete a hydrological feasibility study related to the Gray Creek watershed. The intent of the feasibility study is to assess the long-term water sustainability of Gray Creek as a water supply source and to develop a watershed model.

## 3. SITUATION/OVERVIEW

### 3.1 Background

The SCRD's Regional Water System services a population of approximately 24,000 people, extending from Secret Cove in the northwest to Langdale in the southeast. Groundwater wells are the primary supply source for three small water systems in the southeast and consist of: the Langdale System, Soames System, and Granthams System. These water systems each serve a distinct population area, ranging from 150 – 500 people.

The remaining Regional Water System is supplied almost entirely by water from Chapman Lake and Edwards Lake, which rely on sufficient precipitation during the spring, summer, and fall months to maintain adequate water levels in Chapman Creek. There are currently four projects underway to pursue additional water supply for the Chapman Water System.

One of these projects is the Gray Creek Feasibility Study. The SCRD has an existing water license to divert surface water from Gray Creek at a rate of 750,000 gallons (2,839 m<sup>3</sup>) per day for an annual maximum of 273,750,000 gallons (1,036,256 m<sup>3</sup>) per year (Water License #C110344). However, due to limitations in water treatment at the source, the SCRD currently only uses the Gray Creek source during periods of severe drought conditions. Between 2015 and 2019, the SCRD used the Gray Creek supply source for an average of 33 days per summer (Gray Creek was not used in 2020 as there was sufficient precipitation to maintain adequate supply from Chapman Creek). In 2021 in which the SCRD experience extended drought conditions, the Gray Creek supply source was used for 50 days at an average of 2050 m<sup>3</sup>/day.

#### 3.1.1 Gray Creek

Gray Creek is a typical coastal BC mountain stream with high elevation headwaters rapidly descending to the creek mouth at Porpoise Bay, approximately 7 km north of the business center of Sechelt, BC. Creek flow is seasonally variable as the creek is fed by snowmelt and rainfall.

In past decades, there have been various studies of the Gray Creek watershed and supply source. In 1995, an automated water quality/quantity monitoring station was installed at Gray Creek as part of a Ministry of Environment, Lands, and Parks pilot program. In the study, focussed on instrumentation and field logistics, flow data was produced for Gray Creek in 1997 and was included in the program's final report (Appendix A).

In 1998, an Integrated Watershed Management Plan was prepared for the Chapman and Gray Creek watersheds. The goals of the Plan were to ensure that water quality and timing of flows are the highest priority, and that historic and planned resource activities within the watersheds be considered with a focus on minimizing impact to the watershed. The Plan contains descriptions of the Gray Creek hydrology and water quality (Appendix B).

In 2007, Dayton & Knight Ltd. (D&K) completed an assessment of the Gray Creek supply source. The assessment includes a summary of the various infrastructure components that make up the supply system and makes recommendations for improvements to the system if the source is to be used as a primary potable water source (Appendix C).

### **3.2 Project Objectives**

The purpose of this project is to confirm the long-term viability and sustainability of Gray Creek as a sustainable supply source capable of providing adequate flows allowable under the existing SCRD water license. The SCRD is not seeking to increase the allowable flow and will not be pursuing a new water license.

This will be achieved through modelling of the Gray Creek watershed, gathering and analysing 24 months of creek flow data to develop a hydrometric graph of Gray Creek, and any other methods deemed suitable by the successful proponent.

This information will be presented to the SCRD Infrastructure Services Committee with recommendations for next steps.

### **3.3 Scope**

#### **3.3.1 Gray Creek Flow Monitoring**

The successful Proponent will be responsible for establishing a continuous creek flow monitoring station. This will include siting and designing the instream flow monitor in a location that is suitable for assessing seasonal variation in the availability of adequate flow at the existing SCRD Gray Creek intake. The successful Proponent will procure the equipment and completed the installation at the selected location.

The SCRD requires a minimum of one monitoring station but Proponents are encouraged to recommend multiple stations in their response to this RFP if it would be considered beneficial to this project.

Once installed, the monitoring station shall gather data for a continuous 24 months to capture two wet/dry season cycles. The flow monitoring station should be designed such that it could remain as a permanent monitoring station with minimal alterations after this project has been completed. The successful Proponent will be responsible for maintenance of the monitoring station once in use.

Technical requirements for the flow monitor include the ability to communicate creek level and flow data to the controller at the Gray Creek treatment facility via RS485/Modbus or 4-20mA analog signals. Data will be gathered by the SCRD's SCADA system and will be shared at a frequency recommended by the successful Proponent. The successful Proponent will be responsible for interpreting the data and verifying its validity. The successful Proponent may be required to directly download data in the event of unanticipated interruptions with the SCADA.

The successful Proponent will be responsible determining the permitting requirements for installing the monitoring station and for securing all the required permits prior to installation.

#### **3.3.2 Hydrological Assessment**

The SCRD requires confirmation that Gray Creek is a sustainable long-term water supply source. A 50-year horizon must be considered for long term planning, accounting for predicted changes in climate variability over that time frame. For the purposes of this assessment, the Proponents shall



assume that the existing landuse in the watershed shall remain and the community watershed designation will be maintained or strengthened.

In order to confirm the long-term viability, the successful Proponent will be responsible for completing a hydrological assessment of the Gray Creek watershed, including the development of a watershed model. Proponents are to propose in their submissions the appropriate method for confirming the hydrological viability of the Gray Creek watershed.

### **3.3.3 Reporting**

The successful Proponent will be responsible for preparing a final report summarizing the results of the hydrological assessment. This will include, but not necessarily be limited to;

- Stream flow data collection, downloading, interpretation and analysis of the Creek flow data;
- Geomorphic stream bed determination and characteristics,
- Graphical depiction of the watershed,
- Analysis and discussion of the watershed contribution to Creek flows;
- Analysis and discussion of how climate change projections may impact watershed contributions seasonally over a 50-year horizon;
- Conclusion on the viability of the Gray Creek surface supply source given the boundary conditions of:
  - o Existing intake location
  - o Maximum allowable daily flow of 2,839 m<sup>3</sup>
  - o Maximum allowable annual flow of 1,036,256 m<sup>3</sup>
- Recommendations for next steps.

The successful Proponent will be required to present the final report to the SCRD Infrastructure Services Committee at a date to be determined. Proponents shall assume up to a two-hour presentation in duration and account for travel to the SCRD office in Sechelt, BC.

### **3.3.4 On-Going Technical Services**

Depending on the results of the hydrological assessment of Gray Creek, the SCRD may advance this project to engineering feasibility and design phase. In that event the successful Proponent may be required to provide technical support to the SCRD and consulting engineer throughout the engineering phase.

As the exact scope of this work is unknown at this time, Proponents shall include a list of hourly rates for the staff that would be providing this service. The Regional District estimates that the ongoing technical services could be in the amount up to \$25,000.

### **3.3.5 Anticipated Project Timeline**

Project Initiation – March 2022  
Creek Flow Monitoring – Q2 2022 to Q2 2024  
Hydrological Analysis – Q3 2024  
Final Report – Q4 2024

### **3.3.6 Project Management**

The Proponent will be responsible for all project management activities, including:

- Maintaining an up to date project schedule;
- Maintaining a risk register;
- Maintaining a submittal log for all project deliverables;
- Following SCRD project management processes for change management;

- Providing overall QA/QC on all project deliverables.

### **3.4 Environmental Requirements**

The successful Proponent will be responsible for installing a creek flow monitoring station in Gray Creek. They will be required to follow all relevant regulations and professional best-practices to ensure that there is no degradation to the creek environment.

All precautions must be taken to ensure no deleterious material is allowed to enter the creek during installation of the monitoring station.

## **4. CONTRACT**

### **4.1 General Contract Terms and Conditions**

Proponents should review carefully the terms and conditions set out in the General Service Contract, including the Schedules. The General Contract terms can be found at: <https://www.scrd.ca/go/terms>

### **4.2 Service Requirements**

The successful Proponent's responsibilities will include the following:

- a) Host kick-off meeting with SCRD team (either on-site or virtually).
- b) Host quarterly progress meetings, plus additional meetings as required during project start-up and through the final analysis and reporting stages.
- c) Attend flow-monitor site quarterly inspect flow monitor. Additional inspections may be required on an as-needed basis if anomalous flow conditions are detected.
- d) Submit final report in PDF format. Expect two revisions.
- e) Use of SCRD standard request for clarification, field order, change control forms and procedures. Templates will be provided at project initiation.
- f) Use of SCRD file sharing service for large files.
- g) All digital files must follow SCRD file naming convention (YYYY-MMM-DD File Name).
- h) Submitting monthly reporting of litres of fuel and type of fuel consumed for work related to this project (e.g. # litres of gasoline, # litres of diesel, # litres of biodiesel blends). Kilometres travelled by vehicle type and fuel used is also acceptable, however, exact litres is preferred.

### **4.3 Related Documents**

Appendix A – Gray Creek Experimental Hydrometric Station Final Report (1997)  
Appendix B – Chapman and Gray Creek Integrated Watershed Management Plan (1998)  
Appendix C – Gray Creek Supply Source Assessment (2007)  
Appendix D – Design Drawings of Intake, Settling Basin, Chlorinating Station (undated), and Reservoir (1995)

## 5. REQUIREMENTS

In order for a proposal to be considered, a Proponent must clearly demonstrate that they meet the mandatory requirements set out in Section 7.1 (Mandatory Criteria) of the RFP.

This section includes “Response Guidelines” which are intended to assist Proponents in the development of their proposals in respect of the weighted criteria set out in Section 7.2 of the RFP. The Response Guidelines are not intended to be comprehensive. Proponents should use their own judgement in determining what information to provide to demonstrate that the Proponent meets or exceeds the Regional District’s expectations.

Please address each of the following items in your proposal in the order presented. **Proponents may find it helpful to use the individual Response Guidelines as headings for proposal responses.**

### 5.1 Capabilities

Proponent team **must** include a qualified professional (P.Eng, EP) specializing in hydrology and surface water supply systems. The firm needs to clearly demonstrate an ability to conduct watershed studies and to install and monitor creek flow monitoring stations complete with reporting.

Proponent needs to demonstrate strong written communications skills, be a collaborative team player, and should provide evidence of successful completion of similar projects.

#### 5.1.1 Relevant Experience

Proponent and subcontractors of the Proponent included in its proposal **should** have a minimum of **5** years within the past **7** years providing services of a similar scope and complexity.

Similar scope and complexity is defined as:

- a) Completing watershed assessments, including mapping and modelling, with a minimum one project experience related to a creek in a similar geological setting;
- b) Designing, installing, and troubleshooting creek flow monitoring stations;
- c) Preparing reports to summarize findings; and
- d) Preferably all of the above for Local Government as client.

#### 5.1.2 References

Proponents **must** provide a minimum of **3** references and letters of reference (i.e. names and contact information) of individuals who can verify the quality of work provided specific to the relevant experience of the Proponent and of any subcontractors named in the proposal. References from the Proponent’s own organization or from named subcontractors are not acceptable.

The Regional District reserves the right to seek additional references independent of those supplied by the Proponent, including internal references in relation to the Proponent’s and any subcontractor’s performance under any past or current contracts with the Regional District or other verifications as are deemed necessary by it to verify the information contained in the proposal and to confirm the suitability of the Proponent.

### 5.2 Methodology

Proponents shall outline their approach to how they will complete the work outlined in the scope of this project. Sufficient detail should be provided to give the Regional District a clear understanding of the approach and methods for completing the work as required.

Proponents are invited to suggest alternative methods for completing the work required for this project if other such solutions would be considered appropriate for achieving the objectives of this project.

### **5.2.1 Environmental Requirements**

Proponent should describe how they will meet all relevant regulations and professional best-practices to ensure that there is no degradation to the creek environment and any precautions that they will be taking to ensure no deleterious material enters the creek.

### **5.3 Sustainable Social Procurement**

A factor in the Regional District evaluation process is sustainable social procurement and the evaluation of proposals will take this into consideration.

As part of any submission the Proponent is encouraged to identify how they may contribute to the following key social, employment and economical goals, but not limited to the following:

- a) Contribute to a stronger local economy by:
  - promoting a Living Wage
  - Using fair employment practices;
  - Increase training and apprenticeship opportunities;
- b) Environmental Cost of Ownership;
- c) Energy efficient products;
- d) Minimal or environmentally friendly use of packing materials; and
- e) Reducing hazardous materials (toxics and ozone depleting substances).

### **5.4 Price**

Proponents need to submit a fee proposal that sets out the separate costs of each project described as well as an all-inclusive cost for all the projects; the proposal should include a breakdown of the fix prices including time, travel, hourly billable rates and material costs. Prices quoted will be deemed to be:

- in Canadian dollars;
- inclusive of duty, FOB destination, and delivery charges where applicable; and
- exclusive of any applicable taxes.

Pricing is to be broken down by the following categories:

- Flow Monitoring
- Hydrological Assessment
- Reporting

Proponents need to provide a separate list of their hourly rates for staff that could be providing additional services as per section 3.3.4

## **6. PROPOSAL FORMAT**

Proponents should ensure that they fully respond to all requirements in the RFP in order to receive full consideration during evaluation. Proposals shall be limited to 20 pages in length, single sided excluding appendices and references.

The following format, sequence, and instructions should be followed in order to provide consistency in Proponent response and ensure each proposal receives full consideration. All pages should be consecutively numbered.

- a) Signed cover page (see section 7.1 Mandatory Criteria).
- b) Table of contents including page numbers.
- c) A short (one or two page) summary of the key features of the proposal.

- d) The body of the proposal, including pricing, i.e. the “Proponent Response”.
- e) Appendices, appropriately tabbed and referenced.
- f) Identification of Proponent (legal name)
- g) Identification of Proponent contact (if different from the authorized representative) and contact information.

**7. EVALUATION**

Evaluation of proposals will be by a committee formed by the Regional District and may include other employees and contractors.

The Regional District's intent is to enter into a Contract with the Proponent who has met all mandatory criteria and minimum scores (if any) and who has the highest overall ranking.

Proposals will be assessed in accordance with the entire requirement of the RFP, including mandatory and weighted criteria.

The Regional District reserves the right to be the sole judge of a qualified proponent.

The Evaluation Committee may, at its discretion, request clarifications or additional information from a Proponent with respect to any Proposal, and the Evaluation Committee may make such requests to only selected Proponents. The Evaluation Committee may consider such clarification or additional information in evaluating a Proposal.

**7.1 Mandatory Criteria**

Proposals not clearly demonstrating that they meet the following mandatory criteria will be excluded from further consideration during the evaluation process.

<b>Mandatory Criteria</b>
The proposal must be received at the Closing Location before the Closing Time.
The proposal must be in English.
The proposal must be submitted using one of the submission methods set out on the cover page of the RFP
The proposal must either (1) include a copy of the cover page that is signed by an authorized representative of the Proponent, this is also required for email submissions or (2) be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP. The proposal shall be accompanied by at least one written reference letter.
Attendance at the Site Meeting
References provided
Project team includes a qualified professional (P.Eng, EP)

### 7.2 Weighted Criteria

Proposals meeting all of the mandatory criteria will be further assessed against the following weighted criteria.

<b>Weighted Criteria</b>	<b>Weight (%)</b>
Experience and Capability	30
Methodology & Environmental Requirements	35
Sustainable Social Procurement	5
Price	30
<b>TOTAL</b>	<b>100</b>

### 7.3 Price Evaluation

The lowest priced Proposal will receive full points for pricing. All other prices will be scored using the following formula: lowest priced proposal/price of this proposal\* total points available for price.