



# SUNSHINE COAST REGIONAL DISTRICT

Question and Answers #1

Request for Proposal No. 2537011

Water System Modeling and Support Services

**Date: August 14, 2025**

**Item No.1 Section 3.2, Item b:**

**Question:** Just to confirm, should we assume each of the 30 annual development analyses will be a distinct task that results in its own technical memo?

**Answer:** Yes, each development project will be analysed on a case-by-case basis, with a separate technical memorandum prepared for each analysis.

**Item No.2 Section 3.3.2.1:**

**Question:** When assessing "development flow demands," will the Contractor be responsible for calculating these demands, or will this information typically be provided?

**Answer:** Demands are to be determined by consultant as per Regional District Bylaw 320. In some instances, the developer may provide demands.

**Item No.3 Section 3.3.2.1 (2<sup>nd</sup> bullet, item b):**

**Question:** For evaluating future horizons like 2046 and 2125, do the current WaterCAD models already include these scenarios with the necessary demand and infrastructure data?

**Answer:** Yes, the Regional District's WaterCAD model already has includes the 2046 demand scenarios and associated infrastructure data. The 2125 scenario is in progress and is expected to be completed by September.

**Item No.4 Section 3.3.2.1 (2<sup>nd</sup> bullet, item c):**

**Question:** Regarding the impact of BC Bill 44, are you looking for this analysis to be part of each development review, or should we treat it as a broader, separate strategic task?

**Answer:** BC Bill 44 analysis may be requested on a per-development task. This would be clearly identified in the scope request for each project. Typically, not required in development reviews.

**Item No.5 Section 3.3.2.1(3<sup>rd</sup> bullet, item b):**

**Question:** When incorporating hydrant flow test data for development reviews, is the goal to perform a specific model calibration for each review, or is it more for general validation? Please confirm if the model needs to be calibrated using hydrant flow test data during each development review.

**Answer:** The hydrant flow test during each development review is used for a general validation, unless where results indicate calibration is required.

**Item No.6 Sections 3.3.2.2:**

**Question:** Several items under Strategic & Capital Planning Services are on an "as-and-when" basis (e.g., infrastructure renewal analysis, prioritizing upgrades, system interconnections, DCC support, operational modeling). To allow for a fair and consistent price evaluation, could the Regional District provide a hypothetical number of scenarios or tasks to be assumed for pricing purposes for this category of work?

**Answer:** Hypothetical Scenario has been provided with Amendment No.2

**Item No.7 Section 3.3.2.2 (1<sup>st</sup> bullet, item b)**

**Question:** the RFP states “prioritize capacity upgrades based on growth and operational needs. Does the analysis need to be completed for the year 2125?

**Answer:** No, capacity upgrade analysis does not need to be completed for the year 2125. For the purposes of prioritizing upgrades based on growth and operational needs, Proponents should focus on the 2046 event year. Longer-term horizons, such as 2125, may be considered in select strategic planning tasks, but are not expected to guide capacity upgrade prioritization unless specifically requested.

**Item No.8 Section 3.3.2.2 (1<sup>st</sup> bullet, Item c)**

**Question:** The RFP states “Assist in the development of project priorities for the 5-and 10-year programs. Does the 5-and 10-year phasing/planning horizons mean 2031 and 2036, and not beyond. If yes, are these scenarios included with the demands and infrastructure added to the model?

**Answer:** The 2031 and 2036 scenarios are not currently included in the model, with the Regional District focusing on the 2046 demand scenario. Please see amendment no.2

**Item No.9 Section 3.3.2.2 (1<sup>st</sup> bullet, item e):**

**Question:** For the peer review of third-party documents, should we assume the review is focused on the water modeling aspects, or does it require a broader engineering review?

**Answer:** Peer review services are to focus primarily on water modelling methodologies, assumptions, and results. Broader engineering review (e.g., related to design standards, constructability, or infrastructure phasing) may be requested on a case-by-case basis to support the Regional District staff in assessing third-party submissions.

**Item No.10. Section 3.3.2.2 (3<sup>rd</sup> bullet, Item c):**

**Question:** When using SCADA data for model calibration, are you envisioning a single comprehensive calibration for all seven water systems, or should this be handled on a task-by-task basis as needed?

**Answer:** Model calibration using SCADA data will be handled on a task-by-task basis, as needed. The intent is not to undertake a single comprehensive calibration of all seven water systems, but rather to apply SCADA outputs to support localized calibration efforts that align with specific project scopes or operational needs. These efforts are often informed by developer-completed hydrant flow tests, which are used to confirm available fire flow and support scenario validation within the model.

**Item No.11. Section 3.3.2.2 (4<sup>th</sup> bullet, Item c):**

**Question:** For "Policy and Guideline support," are you looking for the creation of a formal, detailed modeling manual, or is this intended to be more of an advisory and support role?

**Answer:** The "Policy and Guideline Support" role is intended to be advisory in nature. The focus is on providing support in updating internal procedures, modeling guidelines, or engineering standards. A modeling manual may be requested at a later date subject to funding.

**Item No.12 Section 3.3.2.2 (5<sup>th</sup> bullet, Item a):**

**Question:** Regarding "comprehensive technical reports," should we include an allowance for these in our base scope? If so, could you suggest an approximate number of reports per year we should anticipate for pricing?

**Answer:** Yes, Proponents should include an allowance for comprehensive technical reports in their base scope. For pricing purposes, please assume up to two (2) comprehensive reports per year. Each report will be scoped individually based on the complexity and nature of the assignment.

**Item No.13 Section 3.3.2.3:**

**Question:** For the 40 hours/year of Technical Support, we want to confirm if this block of time is intended to cover both the quarterly QC reviews (estimated at ~30 hours) and any training materials that need to be prepared.

**Answer:** No, it is separate from the quarterly QC reviews. Its primary purpose is to provide the Regional District staff with immediate support when they encounter technical issues or have questions while updating the model. In addition, it covers any advanced training needs, which are anticipated to require up to two full days per year.

**Item No.14 Section 5.4:**

**Question:** To ensure we structure our fee proposal correctly, could you confirm that "each project" in this section refers to the three main service categories: Development Support, Strategic & Capital Planning, and Technical Support?

**Answer:** Please see Amendment No.2

**Item No.15**

**Question:** Could you clarify which specific projects outlined in the RFP require separate cost estimates? If the Regional District wants costs for specific projects, can additional details be provided? For example, a 2-day training on-site for 4 people, a pump station shutdown for 2 days assessing the impact on ADD pressures and available fire flows, etc.

**Answer:** Please see Amendment No.2.

**Item No. 16**

**Question:** What version of WaterCAD is SCR D using?

**Answer:** Version 23.00.00.19 and version 24.01.02.06

**Item No. 17**

**Question:** What version of ArcGIS is SCRD using?

**Answer:** ArcGIS Pro 3.5

**Item No. 18**

**Question:** How up to date is the WaterCAD model and GIS data / when were they last updated?

**Answer:** The model was last updated on July 2nd. It is updated whenever we receive any record drawings for watermain extensions, replacements, or other changes, as well as when there are any operational changes.

**Item No. 19**

**Question:** Is the model integrated with GIS?

**Answer:** No

**Item No. 20**

**Question:** What kind of model scenarios have typically been used? Are simulations steady state or extended period simulations (or both)?

**Answer:** The Regional District has typically used both steady state & extended period simulations.

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