

APPENDIX B: PROPOSAL REQUIREMENTS

1. Submission Guidelines Overview

This Appendix and attachments describe the specific documentation that a Proponent is required to submit to satisfy the Proposal Requirements, and to demonstrate that they are capable of performing the responsibilities and obligations of Project Co under the Project Agreement. The Proponent's Proposal documents are to comprehensively address the requirements set out in this Appendix and the Final Draft Project Agreement. Without limiting any other term of this RFP, including Section 7.2 of this RFP, Proponents may provide additional information or supplemental material to clarify any Proposal item.

Proposals are to be presented in three submissions: a Technical Submission; an Advance Interest Rate Submission; and a Financial Submission, each of which consists of the following packages, and each of which is outlined in this Appendix:

Content Requirements	Section No.	Proposal Requirements Reference
1. Technical Submission:		
Package 1 – Transmittal Package (Technical)	1	Table 1
Package 2 – Project Co Management	2	Table 2
Package 3 - Schedules	3	Table 3
Package 4 - Design and Construction	4	Table 4
Package 5 - Services	5	Table 5
1. Advance Interest Rate Submission (AIRS):		
Package 1 – Initial AIRS	-	Refer to Appendix I
Package 2 – Interim AIRS	-	Refer to Appendix I
Package 3 – Final AIRS	-	Refer to Appendix I
2. Financial Submission:		
Package 6 – Transmittal Package (Financial)	6	Table 6
Package 7 – Financial Submission	7	Table 7

2. Proposal Requirements for Technical Submission

Without limiting the terms of this RFP, this section summarize the information and documentation that Proponents are to submit in their Technical Submission.

The Technical Submission should demonstrate that the Proponent is capable of performing the obligations and responsibilities of Project Co and delivering the Project under the Project Agreement, and that the Proponent has a good understanding of the Project and of the Project Work.

The Technical Submission is to be prepared on the basis of the version of the Final Draft Project Agreement most recently issued prior to the Submission Time for Technical Submissions, and for purposes of Section 2.5 of the RFP, this version will be considered the version of the Final Draft Project Agreement issued as at the Submission Time for Technical Submissions.

Where drawings are to be provided, it is the CRD's preference that Proponents may, where reasonable, provide combined drawings which will provide the information for more than one requirement with the appropriate references in each section. Proponents should provide a drawing index clearly identifying which Proposal requirement is met on which drawing. Proponents should provide required drawings in 36" x 48" format (three sets), 18" x 24" (two sets) and 11" x 17" format (two sets). Where provided electronically, drawings should be to scale and in PDF format.

Proponents are to arrange the content of their Technical Submission in accordance with the sequencing of, and using the section numbers and corresponding titles shown in the following tables.

Proponents should limit their Technical Submission to the following:

- a) 75 pages for the content requirements in Package 2 [Project Co Management];
- b) 100 pages, excluding drawings, for the content requirements in Package 3 [Schedules], Package 4 [Design and Construction], and Package 5 [Operations and Maintenance Services].

The Technical Submission is to provide information and documentation in five packages in accordance with the following tables.

3. Proposal Requirements for AIRS

Refer to Appendix I for the submission requirements for the Initial AIRS, Interim AIRS and Final AIRS packages.

4. Proposal Requirements for Financial Submission

Without limiting the terms of this RFP, this section summarize the information and documentation that Proponents are to submit in their Financial Submission.

Each Proponent should include in its Financial Submission information and documentation that reasonably demonstrates the Proposal satisfies the financial requirements set out in the RFP and the Final Draft Project Agreement. The Financial Submission will provide evidence that the Proponent has in place all necessary financial arrangements for the Project. The Financial Submission will be used to evaluate Proposals and select the highest-ranked Proposal.

Proponents are to arrange the content of their Financial Submission in accordance with the sequencing of, and using the section numbers and corresponding titles shown the following tables. The Financial Submission is to provide information and documentation in two packages in accordance with this Appendix.

Table 1: Package 1 Content Requirements (Transmittal Package)

Section No.	Title	Contents (Package 1, Transmittal Package)
1.	TRANSMITTAL PACKAGE	
		<p>The Transmittal Package for the Technical Submission is to contain the following information and documents:</p> <ul style="list-style-type: none"> a) Name and contact details for the Proponent’s Representative (who will be the <u>only</u> point of contact for the Proponent from the CRD regarding this RFP), including name, employer, mailing address, telephone number and email addresses; b) Confirm compliance of the Proposal with the Final Draft Project Agreement, including the Schedules; c) One (1) fully executed copy of Appendix D – Relationship Disclosure Form; d) One (1) copy of Appendix N – Proponent Team Member List; e) Overview table of contents for all parts of the Technical Submission.

Table 2: Package 2 Content Requirements (Project Co Management)

Section No.	Title	Contents
2.	Project Co Management	
2.1	Confirmation of RFQ Response	
		<p>The Proponent is to confirm that, other than Changes permitted by the CRD, there have been no changes to information provided in its RFQ Response regarding:</p> <ul style="list-style-type: none"> ▪ The Equity Provider(s), the Design-Builder, the Design-Builder’s Design team and the Operator listed as part of the Respondent Team; or ▪ The Key Individuals listed for the Respondent Team. <p>If Changes are proposed to the above, the Proponent will clearly identify each proposed Change, include a written request for the CRD’s permission and provide additional information and documentation as required by this RFP, including section 6.12 of the RFP.</p>
2.2	Details of Project Co	
2.2.1	Legal Name	<p>Describe the legal structure of the Proponent (or that the Proponent will adopt as Project Co) including the proposed full legal name of the Proponent, or as applicable, each legal entity which comprises the Proponent.</p> <p>Provide the incorporation number, or extra-provincial registration number for British Columbia, for the Proponent or as applicable, each legal entity that comprises the Proponent, and further details,</p>

Section No.	Title	Contents
		demonstrating that the Proponent, or as applicable, each legal entity which comprises the Proponent, is duly authorized to carry on business in British Columbia.
2.2.2	Shareholdings	Provide details, including corporate details, identifying each Equity Provider and degree of equity participation, and shareholder agreements. If the Proponent does not have an equity structure, provide details of the ownership structure and copies of all agreements related to ownership.
2.2.3	Organizational Structure and Details	Organizational description of Project Co, including organization chart, indicating and listing the members of the board of directors, the senior officers and key management officials, key members of the Proponent's Project team, their roles and responsibilities and reporting relationships.
2.3	Details of Design-Builder	
2.3.1	Legal Name	Full legal name(s).
2.3.2	Contact Details	Authorized representative, registered office, address, telephone number and email address.
2.3.3	Legal Details	Full incorporation details and documentation demonstrating that the company is duly authorized to carry on business in British Columbia. If the Design-Builder is an unincorporated legal entity, provide full details and proof of the existence of the individuals, corporations, other entities or the underlying legal entities that make up joint ventures and partnerships who have the direct responsibility of the Design-Builder.
2.3.4	Organizational Structure and Details	Organizational description, including organization chart, indicating key members/firms of the Design-Builder, their roles and responsibilities, and reporting relationships.
2.4	Details of Design Firm	
2.4.1	Name	Full legal name(s).
2.4.2	Contact Details	Authorized representative, registered office, address, telephone number and email addresses.
2.4.3	Legal Details	Full incorporation details and documentation demonstrating that the company is duly authorized to carry on business in British Columbia. If a member of the Design Firm is an unincorporated legal entity, provide full details and proof of the existence of the individuals, corporations, other entities or the underlying legal entities that make up joint ventures and partnerships who have the direct responsibility of the Design Firm.

Section No.	Title	Contents
2.4.4	Organizational Structure and Details	Organizational description, including organization chart, indicating key members/firms of the Design Firm's team, their roles and responsibilities, and reporting relationships.
2.5	Details of Operation and Maintenance Service Provider	
2.5.1	Legal Name	Full legal name(s).
2.5.2	Contact Details	Authorized Representative, registered office, address, telephone number, and email addresses.
2.5.3	Legal Details	Full incorporation details and documentation demonstrating that the company is duly authorized to carry on business in British Columbia. If a member of the Operations and Maintenance Service Provider is an unincorporated legal entity, provide full details and proof of the existence of the individuals, corporations, other entities or the underlying legal entities that make up joint ventures and partnerships who have the direct responsibility of the Operations and Maintenance Service Provider.
2.5.4	Organizational Structure and Details	Organizational description indicating key members/firms of the Operations and Maintenance Service Provider, their roles and responsibilities and reporting relationships.
2.6	Governance Structure	
2.6.1	Organizational Structure and Relationships between the Proponent, Proponent Team members and Key Firms	<ul style="list-style-type: none"> a) The Proponent is to provide a project organization chart which, at a minimum, identifies all Proponent Team members, including those provided in the RFQ Response and those listed in this table in Appendix B. b) Describe the relationships and reporting arrangements among the Proponent Team members at critical stages of the Project: <ul style="list-style-type: none"> i. identify responsibilities of each Key Individual; ii. reporting relationships between the Proponent and its Equity Provider(s); and iii. reporting relationships between the Proponent and the Proponent Team. c) nature of any contractual relationship(s) to be entered into between the Proponent Team members. d) the nature of any sub-contracting arrangements and details of the risk allocation between the parties.
2.6.2	Key Individuals	Confirm the Key Individuals are as submitted with the RFQ Response.

Table 3: Package 3 Content Requirements (Schedules)

Section No.	Title	Contents
3.	Implementation Schedules and Methodology	<p>The Proponent is to provide the Project Schedule that the Proponent proposes will be attached to Schedule 6 [Design and Construction Specifications] of the Project Agreement.</p> <ul style="list-style-type: none"> The Project Schedule will provide content and detail that reasonably demonstrate that the Proponent understands the scope of the Project Work and sets out how the Proponent intends to plan and implement the design, stakeholder consultation, construction and Operating Period obligations for the Project in a logical sequence. A Critical Path Method (CPM) schedule will be provided with the proposal submission. <p>Supporting documentation should be provided for all proposed schedules.</p>
3.1	Project Schedule	<p>Provide a complete and comprehensive Project Schedule prepared in accordance with Schedule 4 [Project Schedule], Schedule 5 [Design and Construction Protocols] and Schedule 6 [Facility Design and Construction Specifications] of the Final Draft Project Agreement which includes, at a minimum, the following information as well as a Project Schedule brief explaining how the Project Work will be implemented to achieve the milestone dates and describing the key milestones and decisions on how each align and work together:</p> <p>Design Period:</p> <ol style="list-style-type: none"> Quality Control Plan Submission for Design and Construction Phases Design development, including User Consultations and Design Review activities; and Major Submittal Dates and Review timeframes <p>Equipment:</p> <ol style="list-style-type: none"> Identification of all major equipment procurements; Preparation of equipment technical specifications and data sheets Selection of main equipment packages; Procurement of main equipment packages; Storage and delivery of equipment to site; Installation of major equipment; and

Section No.	Title	Contents
		<p>vii. Commissioning</p> <p>Construction Period</p> <p>i. Safety Plan and Orientation;</p> <p>ii. Site establishment, temporary utilities, and mobilization;</p> <p>iii. Demolition schedule and phasing/plans;</p> <p>iv. Rock blasting and protection plan;</p> <p>v. Excavation plan</p> <p>vi. Structural fill placement plan;</p> <p>vii. Foundation improvement plan;</p> <p>viii. Substructure concrete placement plan;</p> <p>ix. Superstructure construction;</p> <p>x. Process mechanical construction;</p> <p>xi. Electrical construction;</p> <p>xii. Instrumentation and control construction</p> <p>xiii. HVAC construction</p> <p>xiv. Yard piping and tie-ins;</p> <p>xv. BC Hydro tie-in</p> <p>xvi. Onsite utility extensions;</p> <p>xvii. Paving and site landscaping;</p> <p>xviii. Identify all major construction stages;</p> <p>xix. Securing approvals, permits and licenses; and</p> <p>xx. Utility relocation and/or protection</p> <p>Anticipated substantial completion date</p> <p>Anticipated date for completion of deficiencies;</p> <p>Functional Testing</p> <p>Anticipated date to receive residuals from the McLoughlin Point WWTP (Jun 1, 2020)</p>

Section No.	Title	Contents
		<p>Anticipated date to start process commissioning</p> <p>Commissioning</p> <p>Anticipated date to complete process commissioning</p> <p>Anticipated Acceptance Date</p>

Table 4: Package 4 Content Requirements (Design and Construction)

4.0	Design and Construction	
	<p>The Proponent is to provide a written narrative for its approach to Design and Construction that clearly describes the design process, the key design and construction issues, and the Proponent’s strategy to manage those issues. The summary of the Proponent’s approach and strategy to manage Design and Construction will govern the development of Project Co’s plan as required in accordance with Schedule 5 [Design and Construction Protocols] of the Project Agreement.</p>	
	<p>The Technical Submission is to include text and drawings providing information as noted below. Floor plans are to be provided in hard copy and as PDF at the scales noted. Architectural floor plans are to also be provided in AutoCAD MEP version 2012 or 2013 with building information modeling (BIM) capability at the scales noted.</p>	
4.1.	General Approach	
4.1.1	Compliance with Final Draft Project Agreement	Confirm compliance of the Proposal with the Final Draft Project Agreement, and in particular with Schedule 6 [Facility Design and Construction Specifications].
4.1.2	Design Approach and Treatment Technology	<p>Describe and provide details of the Proponent’s management plan for the Design including:</p> <ul style="list-style-type: none"> a) The design methodology and general approach overall; b) Confirm use of a Proven Process Technology including technical details of the proposed technology; c) Tabulation of all process design criteria used for sizing of unit processes; d) Life cycle evaluation in the selection of equipment, buildings and materials; e) Proposed constructability reviews and incorporation into the design;

4.0		Design and Construction
		<ul style="list-style-type: none"> f) Proposed HAZOP safety reviews and incorporation into the design; g) Architectural proposals including description and number, size and type of buildings; h) Description of electricity requirements including maximum connected load; and i) Landscape design and strategies; and j) Quality control procedures.
4.1.3	Meeting Project Design Guidelines	Provide written and graphical summaries, limit of two pages, of the design to demonstrate how the Proponent has addressed the Project CRD Design Guidelines. Proponents can reference other sections of their Proposals.
4.1.4	Meeting Project Design Principles	<p>Provide written and graphical summaries, limit of two pages, of the design to demonstrate how the Proponent has addressed the following Project design principles:</p> <ul style="list-style-type: none"> a) Integration of Facility with Other Core Area Wastewater Treatment Project Components and b) Sustainability approaches related to the treatment process and not directly linked to meeting LEED® requirements.
4.1.5	Construction Approach	<ul style="list-style-type: none"> a) Describe and provide details of the Proponent’s management plan for the Construction including: <ul style="list-style-type: none"> i. The overall construction methodology and general approach; and ii. Construction constraints, risks and mitigation strategies. b) Describe Proponent’s construction processes approach to quality assurance including: <ul style="list-style-type: none"> i. the means by which all service and quality non-conformance issues, including work performed by major sub-contractors, will be identified, monitored, resolved and incorporated into a continuous business improvement process iii. roles and responsibilities related to Quality Assurance; and iv. the overall approach to quality management including a description of the Quality Management Plan contents. c) Describe and provide details of the Proponent’s process for managing commissioning including a table of contents or description of the major elements of the Commissioning Plan. d) Describe and provide details of the Proponent’s process for conducting Acceptance testing including a table of contents or description of the major elements of the Acceptance Test Plan. e) Describe the process for involvement of Engineer of Record throughout the construction process.

4.0 Design and Construction		
4.1.6	Integration	<p>Describe and provide the Proponent’s management plan for the integration of the design and construction phases of the Project, showing and identifying:</p> <ul style="list-style-type: none"> a) Construction methodology and general approach to be adopted for the Project, indicating the Proponent’s understanding of the Project processes and roles of both the CRD and Project Co; b) Traffic management plan; c) Dust and noise control plan; d) Odour control plan; e) Vibration and settlement monitoring plan; f) Construction staging areas, vehicle access and control strategies for public vehicles and construction vehicles, including diagrams and plans as necessary; g) The strategy and access to services required during the construction; h) Communications plan; i) How facilities will be developed and the process by which commissioning will be undertaken; j) Plan for connection to Trunk Sewer System; and k) Plan for integration of SCADA and control with Other Core Area Wastewater Treatment Project Components.
4.1.7	Construction and User Safety	<p>This section will describe the Proponent’s approach to safety for Construction activities throughout the Term. At a minimum, the following items are to be provided:</p> <ul style="list-style-type: none"> a) A safety policy statement providing the Proponent’s Health and Safety objectives; b) An outline of the overall safety plan in conformance with the requirements of the Final Draft Project Agreement; and c) The process for accident and incident response and investigation, including provisions for emergency vehicle passage in conformance with the requirements of the Final Draft Project Agreement.
4.2 Technical Specification and Drawings		
4.2.1	Site Development	<p>Provide the following development plans:</p> <ul style="list-style-type: none"> a) Site location plan (1:1000), including site development, adjacent roads and property uses;

4.0		Design and Construction
		<ul style="list-style-type: none"> b) Site plan (1:250) showing location of all buildings, process tankage, roadways, pathways, fire-fighting access, post-disaster provisions, green space, vehicle parking, and services elements; and c) Site plan (1:250) indicating site servicing, zoning setbacks, easements and District of Saanich requirements. Indicate proposed routing of yard piping, buried concrete-encased duct banks, including manholes, cable pulpits, etc.
4.2.2	Plant Design	<p>Provide:</p> <ul style="list-style-type: none"> a) A1 size renderings of the exterior and interior of the Facility, including: <ul style="list-style-type: none"> i. the Facility as seen from the main Facility entrance; ii. the main entrance area of the Facility; and iii. a site rendering including a 3D fly around animation. <p>Such renderings should be convertible to a printable 8 ½ inch by 11-inch format.</p> b) A 3-D animated model illustrating context, massing and architectural features. Provide video animation that demonstrates the exterior and interior in a complete manner; c) Building elevations and sections and site sections, sufficient to illustrate Facility design aesthetics, materials and major features, including proposed exterior colour schemes; and d) Provide floor plans and sections for all buildings including the operations building which indicates compliance with the minimum space requirements outlined in Schedule 6 [Facility Design and Construction Specifications].
4.2.3	Structure	<p>Describe and provide details of the structural systems for the Facility including schematic level 1:200 scale plan drawings including the following as a minimum:</p> <ul style="list-style-type: none"> a) Structural design criteria and codes used for design strategy to meet post disaster seismic design requirements; and b) Foundation system including bearing assumptions for footings and raft slabs, structural fills, pile capacity (if used), foundation walls, waterproofing, drainage, expected initial and long term differential settlement.
4.2.4	Civil Works	<p>Provide drawings (1:500) and documentation that illustrate the proposed on-site civil works, including:</p> <ul style="list-style-type: none"> a) Storm water drainage; b) Sanitary sewer;

4.0	Design and Construction	
		<ul style="list-style-type: none"> c) Natural gas systems; d) Domestic/fire water; e) Process/recycled water; f) Road designs; and g) Turning templates for B train-trailer truck deliveries and site access to all buildings and facilities. <p>For each of the above, describe and provide information on origin of supply, connection points, and distribution and, as appropriate, storage, drainage and disposal.</p>
4.2.5	Electrical	<ul style="list-style-type: none"> a) Provide a site plan (1:250) showing location and configuration of services including power, telephone, Data, fire alarm, security, WAN, routing of buried concrete-encased duct banks, and any other electrical communication between buildings. b) Provide single line and design drawings (1:200) and design documentation for electrical services and distribution, showing and describing: <ul style="list-style-type: none"> i. origin of supply(s); ii. arrangements for service redundancy; iii. main service switchgear and transformer locations, main electrical distribution room and main communication; iv. sub-electrical room locations and communication room locations; and v. position, size and capacity for emergency power, associated switchgear and transfer switches, if any. vi. Identification of motor soft starts, variable frequency drives, and harmonic filters; and vii. Identification of feeder route from BC Hydro dip service location and underground electrical duct bank into the Facility. c) Provide calculations showing the connected electrical loads, utilization, arc flash and short circuit analysis, diversity calculations for standby power. d) Provide design drawings (1:200) and design documentation for lighting and power, showing and describing: <ul style="list-style-type: none"> i. position and types of site lighting; ii. lighting and controls; iii. proposed power monitoring;

4.0		Design and Construction
		<ul style="list-style-type: none"> iv. main single-line diagram showing sizes of all transformers, generators and distribution breakers, the proposed methodology of distribution, and the general arrangement methodology of supply to the Facility; v. fire alarm system, including details of fire alarm panels, detection and signaling devices. Provide a schematic riser diagram and described proposed integration with other systems; and vi. post-disaster provisions including seismic bracing.
4.2.7	SCADA System	<p>Provide a description of SCADA systems showing:</p> <ul style="list-style-type: none"> a) location of all data gathering equipment, including file servers, computers; b) provide a SCADA architecture and network drawing showing communications with Conveyance pumping stations and McLoughlin Point WWTP; c) provide location of all master control panels, local control panels and remote I/O cabinets. Indicate percentage of spare I/O provided in each cabinet; and d) identify SCADA hardware supplier; and e) relationship between data communication and all other items of equipment. <p>Provide details of all standards proposed for supply, installation, programming, testing and commissioning.</p>
4.2.8	Safety and Security	<p>Describe the following features of the proposed design:</p> <ul style="list-style-type: none"> a) access control; b) CCTV; and c) security systems. <p>Describe the approach that will be taken to developing a security master plan and an overview of what technologies will be considered to assist in implementing the master plan.</p>
4.2.9	Process / Mechanical Systems	<p>Provide the following diagrams, calculations and information:</p> <ul style="list-style-type: none"> a) Process Flow Diagram(s) for 2021 and 2040 average dry weather and Design Maximum Flow Rate residual solids load conditions (at minimum and maximum solids content) through the entire process train for the Facility (between and including the Influent sewer and Residuals Effluent System); b) Mass Balance Diagram (and calculations) for 2021 and 2040 average dry weather and Design Maximum Flow Rate residual solids load conditions through the entire process train for the Facility (between and including the Influent sewer and Residuals Effluent System);

4.0	Design and Construction	
		<ul style="list-style-type: none"> c) Energy Balance Diagram (and calculations) for 2021 and 2040 average dry weather and Design Maximum Flow Rate conditions through the entire process train for the Facility showing where energy is expended and produced by the Facility, including expected energy usage as a function of Residuals Solids processed in the Facility Include GHG emissions and carbon credits on the Energy Balance Diagram; d) Preliminary process and instrumentation diagrams for the entire process train for the Facility (between and including the Influent sewer and Residuals Effluent System); e) General arrangement drawings; f) Explanation of how the Facility will be designed to accept and process Influent, including how it will accommodate composition variability, throughout the full Term of the Project Agreement, while producing a Class A Biosolids; g) Explanation of how the Facility will be designed to handle a failure of the solids stabilization process and continue to meet the end product requirements. h) Brief descriptions of all proposed processes and systems throughout the entire Facility (between and including the Influent sewer and Residuals Effluent System), including the redundancy and reliability capacities. i) Details of proposed odour control system including brief description of the operation, and redundancy and reliability capacities. Include an odour model indicating performance of the odour control system. j) Details of the ancillary processes and systems, including a brief description of the operation, capacity requirements, and the redundancy and reliability capacities, including but not necessarily limited to the following: <ul style="list-style-type: none"> i. chemical storage, containment and feed systems; ii. domestic water consumption, balance and potential recycling; and iii. fire protection systems. k) Required drawings and details as follows: <ul style="list-style-type: none"> i. Process mechanical general arrangement drawings indicating access clearances for maintenance and hoisting diagrams to show how equipment is removed; ii. mechanical room schematic layout including future equipment, allowances, corridors and access; iii. roof layout showing equipment and required clusters; iv. list of major process equipment and manufacturers; and

4.0	Design and Construction	
		<ul style="list-style-type: none"> v. controls network riser diagrams including future and present panel capacities. l) Please provide an explanation of how the residual solids treatment facility is designed to accommodate a turndown of 50% in the event that residual solids are diverted in the future as part of the CRD's Integrated Resource Management process
4.2.10	LEED® Gold v4	Provide anticipated narrative and summary of the Proponent's LEED® Gold v4 confirmation, include a preliminary LEED® point checklist.

Table 5: Package 5 Content Requirements (Operations and Maintenance Services)

Section No.	Title	Contents
5.0	Operator	
<p><u>Overview:</u> The Proponent is to provide a written narrative for its approach to delivering the Services, including the utilization of major subcontractors that clearly describes the processes for planning, managing, implementing and performing the requirements and obligations set out in Schedule 7 [Services Protocols and Specifications] of the Final Draft Project Agreement.</p>		
5.1	Approach	<ul style="list-style-type: none"> a) Provide a general description of the overall concept of operations and approach to the delivery of the Services. b) Provide a description of the proposed Operating Period Quality Monitoring Program including description of how Project Co will manage performance of the Operator and/or sub-contractors. c) Provide a description of the Computerized Maintenance Management System (CMMS) that is proposed and describe how this system will be maintained and utilized. d) Provide a description of how scheduled and unscheduled work impacting services in the Plant will be managed so as to not impact the operation of the residuals solids conveyance system or McLoughlin Point WWTP.
5.2	Facility Services	<p>Describe and provide details of the Facility Services that will be provided, including:</p> <ul style="list-style-type: none"> a) Project Co's approach to maintenance management for the Facility and how Project Co will ensure that the performance requirements of all Maintained Elements will be met at all times. b) A description of the CMMS to be employed and how Scheduled Maintenance work will be planned, scheduled and monitored. Provide an example of a preventive maintenance schedule

Section No.	Title	Contents
		<p>and an individual job plan.</p> <p>c) Project Co's approach to the management of maintenance including the use of predictive maintenance, reliability centered maintenance principles, emergencies and alarms and how Response Times and Rectification Periods will be met.</p>
5.3	Facility Process	Provide a brief description of the operating procedures for all major process equipment that is included in the Proponent's proposed design for the Facility. Provide an example standard operating procedure for the Residuals Solids Stabilization process.
5.4	Utility Management Services	<p>Describe and provide details of the proposed approach to delivery of Utilities Management Services, including:</p> <p>a) Management and administration of all utility services as part of a fully integrated and coordinated facilities management solution;</p> <p>b) The plan to meet the Electrical Consumption and Demand Guarantees;</p> <p>c) The plan to meet the Natural Gas Consumption;</p> <p>d) Energy model used and ongoing measurement, analysis, and energy reporting; and</p> <p>e) The plan to meet Annual Water Targets.</p>
5.5	Environmental and Sustainability Services	<p>a) Describe and provide details of the Environmental and Sustainability Services that will be provided. Estimate the greenhouse gas emissions expected from the Facility on an annual basis and describe the plan to monitor and minimize greenhouse gas emissions; and</p> <p>b) Provide estimates of carbon credits and offsets that will be available to the CRD.</p>
5.6	Life Cycle Plan	<p>a) Describe and provide details of the approach and methodology to life cycle building and equipment management.</p> <p>b) Describe and provide a summary of the approach to the development of the Life Cycle Plan required in Schedule 7 [Services Protocols and Specifications].</p> <p>c) Provide a comprehensive Life Cycle Schedule in Excel spreadsheet format, clearly identifying the assumed asset life, strategy and replacement and refurbishment schedule for all types of plant and equipment for which Project Co is responsible. Proponents are responsible to determine the specific components and elements within each division required to support their proposed approach, methodology and cost structure for life cycle replacement and refurbishment.</p>

Section No.	Title	Contents
5.7	Biosolids Production	<p>With reference to the Proponent's Process Technology as it relates to Biosolids production, describe the Proponent's strategy for processing Influent into Class A Biosolids:</p> <ul style="list-style-type: none"> a) meet regulatory requirements at all times; and b) expected Maximum Biosolids Production (expressed at wet tonnes @ xx% Solids Content) per dry tonne of Influent. Proponents are asked to provide the percentage of Solids Content; for further clarification, the xx% will be based on the Proponent's solution.

Table 6: Package 6 Content Requirements Transmittal Package (Financial)

Section No.	Title	Contents
6.0	Package 6: TRANSMITTAL PACKAGE	
	<u>Overview</u>	<p>The Transmittal Package for the Financial Submission is to contain the following information and documents:</p> <ul style="list-style-type: none"> a) A letter confirming that the Proposal Net Present Cost calculated using the Affordability Model is within the Affordability Ceiling; b) Confirmation that there have been no changes to the Proponent Team other than those with respect to which the Proponent has complied with Section 6.12 of the RFP; c) One (1) fully executed copy of Appendix C – Proposal Declaration Form; and d) Provide an overview table of contents for all parts of the Financial Submission.

Table 7: Package 7 Content Requirements Financial Submission

Section No.	Title	Contents
7.0	Package 7: FINANCIAL SUBMISSION	
	<u>Overview</u>	

Section No.	Title	Contents
		<p>Without limiting the requirements set out in Table 7 the Proponent is to include in Package 2 of the Financial Submission:</p> <ol style="list-style-type: none"> a) A fully developed, robust Financial Model and Financing Plan; b) A completed Affordability Model (i.e. the spreadsheet provided by the CRD); c) Written evidence that the Proponent has sufficient support and commitment from the Lenders to support all financial aspects of the Project; d) Confirmation, through submission of the Proposal Declaration Form, that the Proponent will: <ol style="list-style-type: none"> i. execute the Project Agreement, substantially in the form of the Final Draft Project Agreement, in accordance with Section 8.2 of this RFP; and ii. perform all of the obligations of Project Co as set out in the Final Draft Project Agreement; e) A profile of proposed Milestone Payments and Service Payments during the Term and a statement of whether or not the Affordability Ceiling has been met; f) Package 7 of the Financial Submission is to provide sufficient information and documentation, in accordance with the requirements set out below, to allow the CRD to evaluate whether: <ol style="list-style-type: none"> i. the Proposal satisfies the financial requirements set out in this RFP and the Final Draft Project Agreement, including, but not limited to: <ul style="list-style-type: none"> • Confirming that the Proponent has arranged sufficient committed financing for the Project in accordance with the requirements set out in this Appendix B and having regard to the requirements of the Final Draft Project Agreement; • Assessing financial robustness and deliverability; and • Determining that the Financing Plan can be executed expediently if the Proponent is selected as Preferred Proponent; ii. each of the Equity Provider(s) of the Proponent continue to have the ability to raise sufficient capital to fund the equity requirements; and iii. the Proponent, the Equity Provider(s), the Design-Builder, the Service Provider and Guarantors have the financial capacity to meet the obligations of the Project. g) Package 7 of the Financial Submission is to address the requirements set out in Table Proponents are to use the section numbers and corresponding titles shown in this table in their Proposals.

Section No.	Title	Contents
7.1	Agreements between Proponent Team Members	
7.1.1	Proponent Team Members	Provide, at a minimum: (a) Draft heads of agreement executed by all applicable parties for all major contractors and subcontractors, including those related to Design, Construction (including mechanical and engineering, and all other major subcontractors), and Services requirements; and (b) Details of all performance security (e.g., performance bonds, parent company guarantees, joint and several guarantees, financial guaranty insurance policy, bank letter of credit or other performance or financial support) being provided by the Proponent Team members.
7.2	Basis of Financial Submission	
7.2.1	Key Dates	The Assumed Financial Close Date to be incorporated in the Financial Model is January 24, 2018.
7.2.2	Currency	Prices requested in this RFP are to be submitted in Canadian dollars, to the dollar.
7.2.3	Price Validity	The Proponent is to provide confirmation that with the exception for permitted adjustments to interest rates and credit margins, all prices and input costs in the Proposal are to remain firm and valid for a period of the Proposal Validity Period.
7.2.4	Interest Rates	Provide a table showing separately the assumed Base Rate, spreads and fees associated with the proposed Senior Debt. The Base Rate assumed for any Senior Debt that was designated as an Adjustment Credit Facility in accordance with the process described in Appendix I [Rate Setting Process and Advance Interest Rate Submissions] of the RFP must equal the Base Rate agreed as part of the Final AIRS process if the Proponent's relevant Senior Debt profile is unchanged between Final AIRS and Financial Submission. If the Proponent's relevant Senior Debt profile has changed between Final AIRS and Financial Submission then the Proponent is to recalculate its Base Rate based on the information provided by the CRD as part of the Final AIRS process using the same methodology as was agreed as part of the Final AIRS process. If this paragraph applies, then the Proponent is to submit with its Financial Submission an update to the information submitted by the Proponent as part of the Final AIRS process.

Section No.	Title	Contents
7.2.5	Interest Income Rate on Reinvestment Product(s)	<p>Provide a table showing separately the assumed Base Rate, spreads and fees associated with any proposed reinvestment product.</p> <p>The Base Rate assumed for any reinvestment product that was designated as an Adjustment Credit Facility in accordance with the process described in Appendix I [Rate Setting Process and Advance Interest Rate Submissions] of the RFP must equal the Base Rate agreed as part of the Final AIRS process if the Proponent's relevant reinvestment profile is unchanged between Final AIRS and Financial Submission.</p> <p>If the Proponent's relevant reinvestment profile has changed between Final AIRS and Financial Submission then the Proponent is to recalculate its Base Rate based on the information provided by the CRD as part of the Final AIRS process using the same methodology as was agreed as part of the Final AIRS process. If this paragraph applies, then the Proponent is to submit with its Financial Submission an update to the information submitted by the Proponent as part of the Final AIRS process.</p>
7.2.6	Inflation	Assume an inflation rate of 2.0 per cent per annum for Index Linked payments and commodity prices (other than natural gas commodity cost which will use a higher rate as described in Appendix A) to calculate the Proposal Net Present Cost, commencing April 1, 2019.
7.2.7	Discount rate	Assume a Discount Rate of 6.64 per cent per annum to calculate the Proposal Net Present Cost.
7.2.8	Tax	Provide full details of taxation assumptions to demonstrate that in preparing its Proposal, the Proponent has given full consideration to all tax implications, including GST, which affect the total project cost to the CRD. Include the Proponent's assumption with respect to any timing differences between the payment and/or receipt of GST amounts and the net recovery or remittance of GST amounts
7.2.9	Payment Mechanism	The payment mechanism as described in Schedule 13 [Payments] should be used without modification to the a) The Milestone Payments; and b) Service Payments. The Service Payment profile should be shown assuming no deductions.
7.3	Financial Capacity	

Section No.	Title	Contents
7.3.1	Equity Provider(s), Design-Builder, Service Provider and Guarantors	<p>Proponents should provide the following information, unless previously provided in the RFQ (with a reference to the applicable section of that submission) and updated as necessary, in respect of each of its Equity Provider(s), its Design-Builder, its Service Provider, and its Guarantors:</p> <ul style="list-style-type: none"> (a) full legal name(s) and classification as one or more of the Proponent, an Equity Provider, Design-Builder, Service Provider, or a Guarantor; (b) confirmation of no material changes to the Proponent’s organization since the Qualification Response other than as consented to by the CRD in accordance with Section 6.12 of this RFP; (c) annual audited financial statements (including any notes accompanying such financial statements) or other similar financial information for each of the last three fiscal years of the relevant entity ending immediately prior to the Submission Time for Financial Submissions (if available and not provided at the RFQ stage or otherwise pursuant to the Competitive Selection Process) and where such information is not available, an explanation of why it is not available. For clarity, the information requested in c) – g) of this section does not have to be provided for a Proponent Team member if their performance is being guaranteed by a Guarantor. Providing this information for the Proponent Team member’s Guarantor will suffice (refer also to Section 7.3.3, Commitments by Guarantors for further submission requirements); (d) interim financial statements since the last annual financial statements provided pursuant to Section 7.3.1 c) of Appendix B [Proposal Requirements] (if available and not provided at the RFQ stage or otherwise pursuant to the Competitive Selection Process) and where such information is not available, an explanation of why it is not available; (e) for entities which do not prepare audited financial statements, a certificate of a senior officer of each such unaudited financial statements, or other similar financial information, for each of the last three fiscal years and confirming that such financial statements present fairly, in all material respects, the financial position of such entity, in conformity with GAAP; (f) details of any credit rating(s), including details of any updates since the RFQ stage (and if none then a confirmation as such); (g) details of any material off-balance sheet financing arrangements currently in place;

Section No.	Title	Contents
		<p>(h) details of any bankruptcy, insolvency, company creditor arrangement or other insolvency litigation in the three years immediately prior to the Closing Time (and if none then a confirmation as such); and</p> <p>(i) written acknowledgement of no material adverse change executed by the Chief Financial Officer or other authorized officer of each respective entity. If there has been a material adverse change, full details should be provided. The CRD may, in its sole discretion, request further evidence of financial capacity.</p>
7.3.2	Equity Commitment to the Proponent	<p>The level of commitment that the CRD expects in respect of each Proposal is that all equity (and any bonding and guarantees related to equity) are to be fully committed subject only to documentation and material adverse change.</p> <p>With respect to each form of equity financing the following information is required:</p> <p>(a) estimated level of equity participation in the Project for each Equity Provider, including details regarding the terms under which Equity finance is available (including, where applicable, detailed terms sheets and head of terms) and a demonstration of how that Equity will be funded (including, to the extent applicable, guarantees, a description of credit lines, cash or other liquid investments available to support the estimated level of Equity participations required);</p> <p>(b) certified copies of board resolutions (or equivalent corporate documentation to the satisfaction of the CRD) from each Equity Provider approving the investment of the Equity finance, confirming the maximum amount (if any maximum is set) of the equity finance and authorizing the submission of the Proposal in response to the RFP; and</p> <p>(c) if the Proponent or any Equity Provider is not yet incorporated, certified copies of board resolutions (or equivalent corporate documentation to the satisfaction of the CRD) from each financial sponsor to the Proponent or such Equity Provider that address the matters identified in b).</p>
7.3.3	Commitments by Guarantors	<p>With respect to commitments by Guarantors, the following information is required.</p> <p>If person(s) are providing any financial or performance guarantees or other support, in respect of the obligations of a Proponent Team member, certified copies of board resolutions (or, in the event this is not possible, equivalent corporate documentation to the satisfaction of the CRD) are to be provided by each person providing such guarantee or other support confirming:</p> <p>(a) the size, nature and extent of such guarantee;</p>

Section No.	Title	Contents
		<p>(b) that it is willing and able to provide such a guarantee; and</p> <p>(c) that it will have financial standing to meet the obligations under such guarantee and all terms associated with the guarantee or other support.</p>
7.4	Financing	
7.4.1	Financing Plan	<p>Provide a Financing Plan which demonstrates that the Proponent has arranged sufficient financing for the Project and which complies with the following:</p> <ul style="list-style-type: none"> a) Includes full details of the financial structure and instruments proposed, including a description of the Proponent’s anticipated hedging strategy and requirements. b) Indicates which form(s) of lending facility, if any, is a Credit Spread Hold Facility and which is a Senior Debt Credit Spread Refresh Facility. c) The sources of financing match the use of funds throughout the Term, and the Financing Plan includes: <ul style="list-style-type: none"> i. a description of all sources of financing; and ii. a description of how the Milestone Payments have been integrated into the Financing Plan. d) Provide the following details for each Senior Lender: <ul style="list-style-type: none"> i. fully executed and applicable original commitment letter(s) in the form set out in Appendix G [Commitment Letter Template] of this RFP from each Senior Lender, which for Credit Spread Hold Facilities should also include confirmation of the Credit Spread that will be applicable to such facility until Financial Close; ii. evidence, in the form of detailed term sheets which have received formal credit approval, from providers of financing, of their commitment to provide the level of financing required; and iii. evidence of its Credit Rating. If a Credit Rating is not available, provide the information required in Section 7.3.1 c) – g) of Appendix B [Proposal Requirements] of this RFP for the Senior Lender. e) If a capital market and/or bond funding solution is proposed which depends on a Credit Rating, provide: <ul style="list-style-type: none"> i. an indicative Credit Rating together with a timetable to achieve final ratings; and

Section No.	Title	Contents
		<ul style="list-style-type: none"> ii. a description of any risks to achieving the Credit Rating. f) If a solution involving a financial guarantor (for example, a monoline insurer or similar entity) is proposed, provide: <ul style="list-style-type: none"> i. letters from all financial guarantors with confirming letters from such financial guarantors' legal counsel confirming that the financial guarantors and their legal counsel have no additional comments on the Final Draft Project Agreement; and ii. evidence, in the form of detailed term sheets or in the commitment letters referred to in Section 7.4.1 d) of this Appendix B [Proposal Requirements] of the financial guarantor(s) to provide the guarantee required; and for each financial guarantor's Credit Rating. If a Credit Rating is not available, provide the information required in Section 7.3.1 c) – g) of Appendix B of the RFP for the financial guarantor. g) If a solution involves a bond funding solution that will have a market clearing spread that is likely to differ from the credit spread determined at the Credit Spread Refresh Lock-in Date, provide: <ul style="list-style-type: none"> i. a description of how the issue spread adjustment will be determined and how the re-couponing adjustment will work; and ii. a description of whether the Proponent would like a copy of the post-re-couponing Financial Model attached to the Project Agreement, along with an explanation on the rationale for its potential inclusion. h) If a solution involves a green financing provide information how this financing will be achieved that what assistance will be required from the CRD.
7.4.2	Terms of Financing	<p>The Financing Plan should include the terms of each source of financing (including any equity bridge loans), set out as follows:</p> <p>With respect to the parties that will provide financing (including Equity Providers) if the Proponent is selected as the Preferred Proponent and enters into the Project Agreement, the following should be provided:</p> <ul style="list-style-type: none"> (a) Identity and Credit Rating of each party; (b) Amounts to be provided by each party; (c) The timing of injection, including the proposed funding schedule during Construction; (d) The terms and conditions of subscription, including returns or yields;

Section No.	Title	Contents
		<ul style="list-style-type: none"> (e) Dividend rights (Equity Providers only); (f) Voting rights (Equity Providers only); and (g) The conditions, if any, upon which funds would be committed.
7.4.3	Planned Refinancing	<p>If a Proponent's Proposal includes Planned Refinancing, the Proponent should:</p> <ul style="list-style-type: none"> (a) describe its Planned Refinancing, including details of any assumptions about the structure and the timing of the Planned Refinancing, interest rates, margins, timing of repayments, reserve accounts and cover ratios; and (b) demonstrate that the benefits of the Planned Refinancing have been taken into account in its Proposal.
7.4.4	Financial Robustness	<ul style="list-style-type: none"> a) Provide a description of the robustness of the Proponent's proposed financial structure, including details of how key risks will be managed (e.g., interest rate, schedule overruns, inflation, operation, maintenance, life cycle and construction). Include details of the strategies to be adopted by the party ultimately responsible for bearing such risks; b) To the extent that the Proponent's Proposal contemplates or includes third party security, including performance bonds, parent company guarantees (including any contemplated by Section 7.1.1 of this Table 7 and letters of credit, describe in detail and with respect to each such security; c) the beneficiaries of such third party security; d) the parties whose obligations are secured by such third party security; e) the type, amount and anticipated provider of such third party security; f) all circumstances in which such third party security may expire, be subject to termination and can be called upon; g) if called upon, the purposes for which such third party security may be used; and h) Provide a description and the results of any sensitivities required by the Senior Lenders.
7.5	Financial Model	
7.5.1	Financial Model and Structure	<p>Proponents should submit a Financial Model as an electronic copy. The Proponent's Financial Model should be consistent with the following assumptions and structure:</p>

Section No.	Title	Contents
		<ul style="list-style-type: none"> (a) Produced in a Microsoft Excel version 2010 or later; (b) Provide financial projections (cost and revenue projections) on a monthly basis during construction and a semi-annual basis thereafter in accordance with a fiscal year basis commencing April 1; (c) Be expressed in Canadian dollars; (d) All NPV1 or IRR calculations must be completed with Excel’s XNPV or XIRR functions; (e) All financial instruments are to be priced as agreed to during the Final AIRS process; (f) A list of necessary Excel “add-ins” required to run the Financial Model is to be provided; (g) If any macros are used in the model, a detailed description as to how they function in the model should be provided; (h) If a calculation is circular in nature, it should be solved via macro. No calculations should rely on Excel’s native iterative calculation solving capability; (i) Present inputs in blue font and formulas in black font; (j) Flow calculations down and to the right; (k) Limit the number of “if” statements; (l) Include no hidden or password protected cells or worksheets; (m) Include a print option macro and ensure all sheets are set up to be clearly printable and legible on 8.5 x 11” paper with row and column descriptions on each printed page; and (n) The Financial Model is to be saved in the scenario equivalent to the base case scenario.
7.5.2	Financial Model Inputs and Outputs	<p>The Proponent’s Financial Model should include and provide:</p> <ul style="list-style-type: none"> (a) Inputs: <ul style="list-style-type: none"> i. capital (including a breakdown of development costs), operating, maintenance and life cycle costs; ii. time-based assumptions (those that change over time); iii. static assumptions (those that do not change over time); iv. taxation; v. financing (including refinancing);

Section No.	Title	Contents
		<ul style="list-style-type: none"> vi. payment mechanism and payments associated with the payment mechanism, including Milestone Payments and Service Payments; vii. any assumed revenue (in addition to the Service Payments); viii. Independent Certifier cost estimate of \$150,000 spread evenly over the period starting from the Effective Date and ending at the Substantial Completion Date (\$300,000 total and 50% to Project Co's account); and ix. a Base Insurance Cost amount of \$19,990 per year incurred at the Target Service Commencement Date, then indexed annually using 2.0 per cent per year over the operating term. <p>(b) Outputs:</p> <ul style="list-style-type: none"> i. summary outputs; ii. a separate worksheet that includes all financial model output that is required to populate any portion of the Project Agreement including the applicable Project Agreement section reference, for clarity this will omit any output that is already captured in any of the Forms required in this Appendix B [Proposal Requirements]; iii. sources and uses of funding for the Design-Build Period (excluding operations and maintenance costs), with totals shown in both nominal and net present cost (using the Discount Rate) forms; iv. sources and uses of funding for the Operating Period, with totals shown in both nominal and net present cost (using the Discount Rate) forms; v. a schedule of payments by the CRD that sets out the expected date of payment (i.e., Milestone Payments and Service Payments) and the amount to be paid by the CRD, in nominal terms; vi. the proposed funding structure, with funding schedules that specify the expected debt repayment dates and the amount of debt service, in nominal terms only, to be repaid; vii. the calculation of Project returns for the different elements of financing; viii. financial statements (income statement, cash flow statement and balance sheet) presented in accordance with Canadian GAAP, including any relevant IFRS provisions; ix. a cash flow statement that reflects the priority of access to cash flow based on the investor covenants and requirements of the Proponent's Financing Plan;

Section No.	Title	Contents
		<ul style="list-style-type: none"> x. financial ratios as required by Senior Lenders as appropriate to the capital structure set out in the Proponent's Financing Plan; xi. returns on equity and Junior Debt, in both real terms and nominal terms; xii. a blended equity return that incorporates all sub-senior debt finance ("Threshold Equity IRR" as defined in the Final Draft Project Agreement); and xiii. Project internal rate of return (IRR), before financing and tax, in nominal terms ("Base Case Project IRR" as defined in the Final Draft Project Agreement).
7.5.3	Financial Model Assumptions Book	<p>Proponents should include an assumptions book for their Financial Model, which should provide sufficient detail for a duplicate Financial Model to be constructed from it and should cover the following areas:</p> <ul style="list-style-type: none"> (a) A summary of the financing assumptions (including refinancing), including a breakdown of all fees and costs of the financing; (b) Capital, operating, maintenance and life cycle costing schedules; (c) Macro-economic assumptions; (d) Taxation assumptions; (e) Depreciation rates and other accounting policies; and (f) All other assumptions required to construct the Financial Model. <p>The assumptions book should reconcile with the Financial Model. If the assumptions detailed in the assumptions book are not consistent with the assumptions in the Financial Model, the CRD may require the Proponent to resubmit either the Financial Model and/or the assumptions book.</p>
7.5.4	Instructions Manual for Financial Models	<p>The Proponent is to include an instruction manual which should explain the functionality of their Financial Model and how it is structured. It should provide:</p> <ul style="list-style-type: none"> (a) Sufficient detail to allow the CRD to change key model inputs including: inflation rates, financing rates, capital costs, and operating costs; and (b) Details of the optimization procedure in order to calculate the adjustment to the Service Payments to be made as a result of changes to model inputs.
7.5.5	Model Audit	<p>Submit an independent financial model audit, for the benefit and reliance of the CRD. This may be based on the same independent review of the Financial Model carried out to satisfy the Senior Lenders. After the Preferred Proponent is determined, the Preferred Proponent will</p>

Section No.	Title	Contents
		<p>provide the CRD with a copy of the auditor’s terms of engagement (in a form satisfactory to the CRD) and the CRD will become an addressee or co-addressee on all future model audit reports including any interim model audit reports and related correspondence.</p> <p>The model auditor will carry minimum liability coverage of \$2,000,000. For clarity, the CRD does not expect to have priority over the funders should both the funders and the CRD make a claim against this coverage.</p> <p>If the Proponent’s Financing Plan involves a re-couponsing process, as described in Section 7.4.1 g) Financing Plan of Appendix B of the RFP, the model auditor is to opine that the pre-re-couponsing and post-re-couponsing model are identical with the exception of the determination of the issue spread adjustment.</p>
7.6	Affordability Model	
7.6.1	Affordability Model	Complete and include the Affordability Model
7.7	Pricing	
7.7.1	Pricing Forms	<p>The Proponent should complete and include each of Forms A1 through A15. Except where otherwise expressly indicated herein, include all taxes (but excluding GST). References to “Financial Model” should provide the cell reference that shows the corresponding input assumption.</p> <p>The Proponent should include the Pricing Forms in the Financial Model and link the applicable outputs of the Financial Model to the Pricing Forms.</p>
7.8	Life Cycle	
7.8.1	Life Cycle Costs	Describe how the Life Cycle Schedule submitted as part of Section 5.6 of Appendix B [Proposal Requirements] of the RFP matches the life cycle cost profile included in the Financial Model.

Pricing Forms

The dates, prices, guarantees, amounts and elections set out below comprise Proponents’ firm proposal pricing and will be used to calculate the Proposal Net Present Cost. Some of this information will be transferred into the Project Agreement in Schedule 1 (Definitions) and Schedule 13 (Payments) as applicable. Prices are to be provided in Canadian dollars.

Form A1 – Target Service Commencement Date

Target Service Commencement Date		To be no later than December 31, 2020
Target Functional Completion Date		To be no later than May 31, 2020

Form A2 – Monthly Capital Payment (not Index Linked)

	Price (\$ nominal)
Capital Payment	

Form A3 - Annual O&M Payment (to be Index Linked)

Component	Price as of Financial Submission Date	Units
Base Amount		\$ applicable to Influent up to and including the Baseline Influent Amount
Additional McLoughlin price		\$ per DT of Influent from the McLoughlin Plant in excess of the Baseline Influent Amount processed at the Facility in the Contract Year
Additional dewatered other price		\$ per DT of Dewatered Other Municipal Residual Solids processed at the Facility in the Contract Year
Additional liquid other price		\$ per DT of Liquid Other Municipal Residual Solids processed at the Facility in the Contract Year

Form A4 – Monthly Life Cycle Payment (to be Index Linked)

Month Following Month in Which Target Service Commencement Date Occurs		Price as of Financial Submission Date
No.	Calendar Month (month, year)	
1		
2		
....		
239		

Proponents should bid monthly Life Cycle Payment pricing with timing as needed to support rehabilitation of the Facility; a price is not required or expected for all months. There is no requirement of the CRD for a smoothed or uniform payment stream. Note that there are 239 months in which a Life Cycle payment is eligible to be proposed; no payment in the first month or partial month, as the case may be, may be proposed.

Form A5 – Natural Gas Demand Guarantee

Component	Guarantee	Units
Base amount		GJ per day applicable to Influent up to and including the Baseline Influent Amount
Additional Influent		GJ per day per DT of Influent in excess of the Baseline Influent Amount processed at the Facility in the Contract Year

Form A6 – Electricity Demand Guarantee

Component	Guarantee	Units
Base amount		kW applicable to Influent up to and including the Baseline Influent Amount
Additional Influent		kW on an average monthly maximum basis per DT of Influent in excess of the Baseline Influent Amount processed at the Facility in the Contract Year

Form A7 – Electricity Consumption Guarantee

Component	Guarantee	Units
Base amount		kWh applicable to Influent up to and including the Baseline Influent Amount
Additional Influent		kWh per DT of Influent in excess of the Baseline Influent Amount processed at the Facility in the Contract Year

Form A8 – Natural Gas Consumption Guarantee

Component	Guarantee	Units
Base amount		GJ applicable to Influent up to and including the Baseline Influent Amount
Additional Influent		GJ per DT of Influent in excess of the Baseline Influent Amount processed at the Facility in the Contract Year

Form A9 – Water Consumption Guarantee

Component	Guarantee	Units
Base amount		m ³ of water applicable to Influent up to and including the Baseline Influent Amount
Additional Influent		m ³ of water per full 500 DT of Influent in excess of the Baseline Influent Amount processed at the Facility in the Contract Year

Form A10 – Biosolids Production Guarantee

Component	Guarantee	Units
Biosolids production		Tonnes of Biosolids Product per DT of Influent processed at the Facility in the Contract Year

Form A11 – Not Used

Form A12 – Surplus Biogas Connection to Hartland Landfill System

Does the Proponent's design require CRD to receive surplus biogas?	<input type="checkbox"/> Yes or <input type="checkbox"/> No
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Form A13 – Not Used

Form A14 – Carbon Footprint

Construction Components		
	Quantity	Units
Excavation		m ³
Concrete (including rebar steel)		m ³
Steel (sheet, piping, equipment, structural, etc.)		tonne
Stainless steel (sheet, piping, equipment)		tonne
Plastic (PVC, HDPE, pipe, film, etc.)		tonne
Pipe and equipment insulation		tonne
Transportation of above material to site	To be determined based on quantities above (excluding excavation)	n/a
Operation & Maintenance		
	Quantity	Units
Polymer		kg/yr assuming a Facility loading of 13,486 DT/year

Biogas		GJ/yr assuming a Facility loading of 13,486 DT/year
Electricity	To be determined based on Electricity Consumption Guarantee	n/a
Natural Gas	To be determined based on Natural Gas Consumption Guarantee	n/a
Transportation (Biosolids trucking)	To be determined based on Biosolids Production Guarantee and trucking of Biosolids to disposal assuming 200km round trip, 30 tonnes per load, 2.53 km/L diesel)	n/a

Form A15 – Total Capital Cost

The Total Capital Cost (as defined by the table below) is the basis for the determination of the Acceptance Payment and the Milestone Payments. Provide the cost breakdown for the design, development, construction, commissioning, and Acceptance of the Facility that is the basis for the Capital Payment.

The breakdown should include all costs incurred during the Design-Build Period that are recovered by Project Co through the Milestone Payments and Capital Payments. For clarity, the breakdown should exclude any costs associated with:

- standing-by as defined in Section 1.2 a) of Appendix 13A of the Project Agreement;
- processing Influent as defined in Section 1.2 b) of Appendix 13A of the Project Agreement; and
- funding of any reserve accounts associated with the long term financing of the Facility after Acceptance.

The breakdown should be consistent with the Financial Model. Proponents may break down the line items in the table below further (i.e. provide more sub-detail) if desired.

	Amount (\$ nominal)	Financial Model Cell Reference
Construction costs including permits, insurance, materials, labour, etc.		
Furniture and equipment		
Fees paid to non-legal professionals including project managers, technical personnel, consultants and contractors specifically engaged to undertake the surveying, design, engineering, manufacturing or construction of the Project		
Subtotal A – Design-Build Costs		
Interest paid during the design-build period		
Interest earned during construction (i.e. negative cost)		
Financing fees incurred during the design-build period		
Proposal development costs – non-legal costs		
Proposal development costs – legal costs		

Project Co costs during the design-build period – non-legal		
Project Co costs during the design-build period – legal		
Subtotal B – Soft Costs		
Total Capital Cost (Subtotal A + Subtotal B)		