

**DATE:** January 27, 2015

**FILE:** 0540-20 / water committee

**TO:** Chair and Members  
Comox Valley Water Committee

**FROM:** Debra Oakman, CMA  
Chief Administrative Officer

**RE:** Sandwick Waterworks Improvement District conversion project

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### Purpose

The purpose of this report is to update the Comox Valley water committee on the Sandwick Waterworks Improvement District conversion project and to seek approval to request infrastructure planning grant funds to advance the conversion project.

### Policy analysis

A regional district board may operate any service that the board considers necessary or desirable for all or part of the regional district, under section 796 of the *Local Government Act*. The Sandwick Waterworks is an improvement district under BC letters patent and has the responsibility to supply potable water in a specified area in Electoral Area 'B'. At the request of Sandwick, the Comox Valley Regional District (CVRD) board approved a resolution in November 2013 to initiate a conversion process to determine the suitability of Sandwick becoming a regional district service.

### Executive summary

In 2014 the CVRD, Sandwick and the City of Courtenay explored issues and opportunities in relation to converting the Sandwick improvement district to a CVRD service. An options matrix was developed to consider various options. The Comox Valley water advisory committee considered this matrix at its October 2014 meeting and additional information was requested. The table below identifies the requested information and the responses.

Requested information	Response
Information regarding the inclusion of other regional district service areas into the Comox Valley regional water supply system	<p>The CVRD service areas connected to the Comox Valley regional water supply system are noted here. Any further information that is required, such as details that may have precipitated connection would have to be further researched.</p> <ul style="list-style-type: none"> <li>• Comox Valley Water LSA – October 28, 1996 (Bylaw No. 1886)</li> <li>• Marsden Camco Water LSA – February 22, 1993 (Bylaw No. 1453)</li> <li>• Arden Road Water LSA – August 27, 1994 (Bylaw No. 1678)</li> <li>• Greave Crescent Water LSA – November 28, 1994 (Bylaw No. 1494)</li> <li>• England Road Water LSA – June 29, 1998 (Bylaw No. 1999)</li> </ul>

<p>An engineering assessment of the Sandwich infrastructure and impact on the existing CVRD and City of Courtenay infrastructure</p>	<p>Appendix A is a letter from Sandwich requesting the CVRD to apply for infrastructure grant funding to accomplish this task. A board motion is required to apply for such a grant. Should the CVRD be successful in the grant request, funds would be available to conduct the required assessment in conjunction with Sandwich, the City of Courtenay and the CVRD.</p>
<p>The CVRD policy on adding systems to the Comox Valley regional water supply system</p>	<p>Appendix B is the CVRD policy in response to this request. The transfer of water systems policy requires that should costs be required to upgrade or improve system infrastructure, the costs would be borne by the incoming service area and assent for those costs be obtained through an alternative approval process, petition or referendum. NOTE: during the Royston Improvement District conversion, the board adopted a resolution to waive this policy given the level of public consultation and communications held during that conversion process.</p>
<p>Development potential in the Sandwich area</p>	<p>Appendix C is a briefing note prepared in response to this request. Some development potential exists in the Sandwich area under current zoning however that is not dependent on a change in water supply, given that the area is already connected to a community-wide system.</p>

Also attached to this report are a memorandum from Defero-West Local Government Consulting dated October 2, 2014 (appendix D) that describes the project and an options matrix (appendix E).

The following is an excerpt from the October 2, 2014 memo and identifies the request to the water committee:

**Request to the Comox Valley Water System Committee**

Sandwich Trustees would prefer to narrow the options to two for public consultation – the ideal scenario being Options 1 and 2, eliminating Option 3. The SWWD is therefore respectfully requesting the Committee’s consideration of the following question:

*Is it possible for the Comox Valley Water Committee to consider for approval, in principle, a connection to the Comox Valley water supply system prior to public consultation with the Sandwich residents?*

Similarly, it is requested that if there are any issues or concerns that would preclude CVWS connection approval, that Sandwich Trustees be made aware of those so that Option 2 can be eliminated prior to the public consultation process.

At this stage, before the water committee can consider the request from Sandwick, the engineering infrastructure assessment is required to provide important information about the system condition. Results of the assessment will help determine the stakeholder impact.

Two grant programs may be appropriate for this project. The infrastructure planning grant program offers grants to support local government (regional districts and municipalities) in a range of projects related to assessing the technical, environmental and/or economic feasibility of municipal infrastructure projects. Local governments can submit applications on behalf of improvement districts, but should include the letter of request from that organization. The maximum grant for approved projects is \$10,000 according to the following formula:

<u>Approved Project Costs</u>	<u>Provincial Grant</u>
First \$5,000 or less	100% of approved costs
Next \$10,000 or less	50% of approved costs

The applicant's share may be a combination of CVRD, City of Courtenay and/or Sandwick funding sources. Applications are received on a continuous basis (no deadline), eligible costs may be incurred from the date of application and the program is administered by the local government branch of the Ministry of Community, Sport & Cultural Development.

The strategic priorities fund grant program is part of the application-based gas tax funding. Local governments outside of the Metro Vancouver region can apply for funding in two streams: capital projects and capacity building, which includes long-term infrastructure planning. Each local government may submit up to two capital projects and one capacity building project. Projects must be larger in scale, have regional impact or be innovative and support the national priorities of productivity, economic growth, a clean environment and strong communities. SPF grants can be up to 100% of eligible costs. Capacity building grants, in the past, have typically ranged between \$5,000 and \$50,000. The deadline for applications is April 15<sup>th</sup> and the program is administered by UBCM.

**Recommendation from the chief administrative officer:**

THAT a grant application be submitted to the Infrastructure Planning Grant Program on behalf of the Sandwick Waterworks Improvement District and the strategic priorities fund for capacity building to UBCM under the federal gas tax program for a comprehensive study that would:

- a) Assess the condition of the Sandwick existing infrastructure
- b) Determine system modification costs more precisely and
- c) Identify the impact on the CVRD and City of Courtenay's infrastructure should the conversion occur via connection to the Comox Valley water system.

Respectfully:

***D. Oakman***

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Debra Oakman, CMA  
Chief Administrative Officer

Prepared by:

***J. Warren***

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James Warren  
Corporate Legislative Officer

Attachments: Appendix A – Sandwick letter requesting CVRD apply for grant funding  
Appendix B – CVRD transfer of water systems policy  
Appendix C – Briefing note on Sandwick waterworks district development potential  
Appendix D – Memorandum from Defero-West Government Consulting  
Appendix E – Options matrix from Defero-West Government Consulting

## Appendix A

0470.20 / Sandwich  
Received December 23, 2014  
Dist. to J. Warren, M. Rutten, B. Dunlop

December 14, 2014

Comox Valley Regional District  
600 Comox Road  
Courtenay, BC  
V9N 3P6

Attn: James Warren, Manager of Legislative Services

Dear Mr. Warren,

Re: Sandwich Waterworks | Infrastructure Assessment Study

Thank you for the work that has occurred on the Sandwich Waterworks District conversion study to date. We appreciate the careful consideration that all parties are giving to the possibility of the SWWD converting to a regional district service. The identification of a safe and sustainable solution that meets the needs of both Sandwich residents, as well as those who will be converted to municipal (City of Courtenay) water, continues to be a major priority for our Board of Trustees.

It is our understanding that further details about the condition of the infrastructure are required to fully evaluate the options and complete the study. At this time, we therefore wish to formally request that the Comox Valley Regional District apply, on our behalf, for an Infrastructure Planning Grant through the Ministry of Community, Sport and Cultural Development.

In particular, we support a comprehensive study that would:

- a) assess the condition of our existing infrastructure;
- b) determine system modification costs more precisely; and,
- c) identify the impact on the CVRD and City of Courtenay's infrastructure should the conversion occur via connection to the Comox Valley water system.

Please advise if any further information is required in order to proceed with the funding application. Similarly, if there are any other grant opportunities that the CVRD feels would be of benefit to Sandwich, we would be pleased to support those as well.

Sincerely,

  
Mike Butler, Chair  
Sandwich Waterworks District

CC: Ms. Leslie Hatch, Senior Manager of Engineering, City of Courtenay  
Ms. Emily Woodrow, Environmental Health Officer, Vancouver Island Health Authority

<b>Subject:</b> Transfer of water systems to regional district	
<b>Category:</b> Property services (water services)	<b>Procedure Reference:</b> 5600-00

**POLICY**

THAT any transfer of the infrastructure, water licenses, assets and financial reserves of a water improvement district, a private non-profit community water system or a private for profit water system to the Comox Valley Regional District, be predicated upon:

1. proof that the system meets the regional district's standards for the construction of water supply systems as amended from time to time and;
2. payment by the owners and/or users of the water system being transferred to the regional district of the incremental cost of any upgrades to an adjacent regional water service area if that area is to be the source of supply for the newly created water service area;
3. where it cannot be demonstrated that the infrastructure under consideration for transfer meets the regional district's standards for the construction of water supply systems;
  - a. the owners and/or users of the water improvement district, private water system or private for profit water system shall consent at the time of establishment of the new regional district water service area which incorporates within its boundaries the water improvement district, private water system or private for profit water system to:
    - i. pay the full cost of repairing, upgrading, constructing or re-constructing the existing infrastructure used to supply water to regional district's standards for the construction of water supply systems as amended from time to time and;
    - ii. pay the incremental cost of any upgrades to an adjacent regional water service area if that area is to be the source of supply for the newly created water service area.

**PROCEDURE**

The assent of the owners and/or users of the water improvement district, private water system or private for profit water system shall be obtained by either an alternate approval process, a petition process or a referendum and the authority for selecting the method of seeking assent shall rest solely with the regional board.

The cost of the assent process shall be recovered from the owners and/or users of the water improvement district, private water system or private for profit water system

**APPROVAL HISTORY**

Policy approved:	June 28, 2004
Amended:	

**Sandwich Waterworks District - CVRD Area Development Potential  
December 5, 2014**

**BACKGROUND**

- Incoming technical requirements for both water quality and water supply management and operation will increase demand on an overtaxed trustee group.
- Board adopted a resolution in 2013 to set aside monies in 2014 to conduct a feasibility study on the conversion of the SWD to a CVRD service.

**KEY POINTS**

- CVRD portion of SWD falls within the Settlement Expansion Area under the RGS and OCP (see attached map)
- Minimum lots size in the area is 4 ha on the rural residential lots and 8 ha on ALR lands
- Only 9 properties in SWD are large enough for subdivision of new lots (see attached Table 1). Some of these lots are split zoned with Residential Rural /Rural ALR zoning.
- A total of 14 new lots are possible.
- All new lots permit 2 dwelling units and agricultural uses from a total potential of 28 new dwelling units

**NOTE: The development potential on the identified parcels is not contingent on the provision of a central water service.**

**CONTACT**

- Kevin Brooks, Planning Services

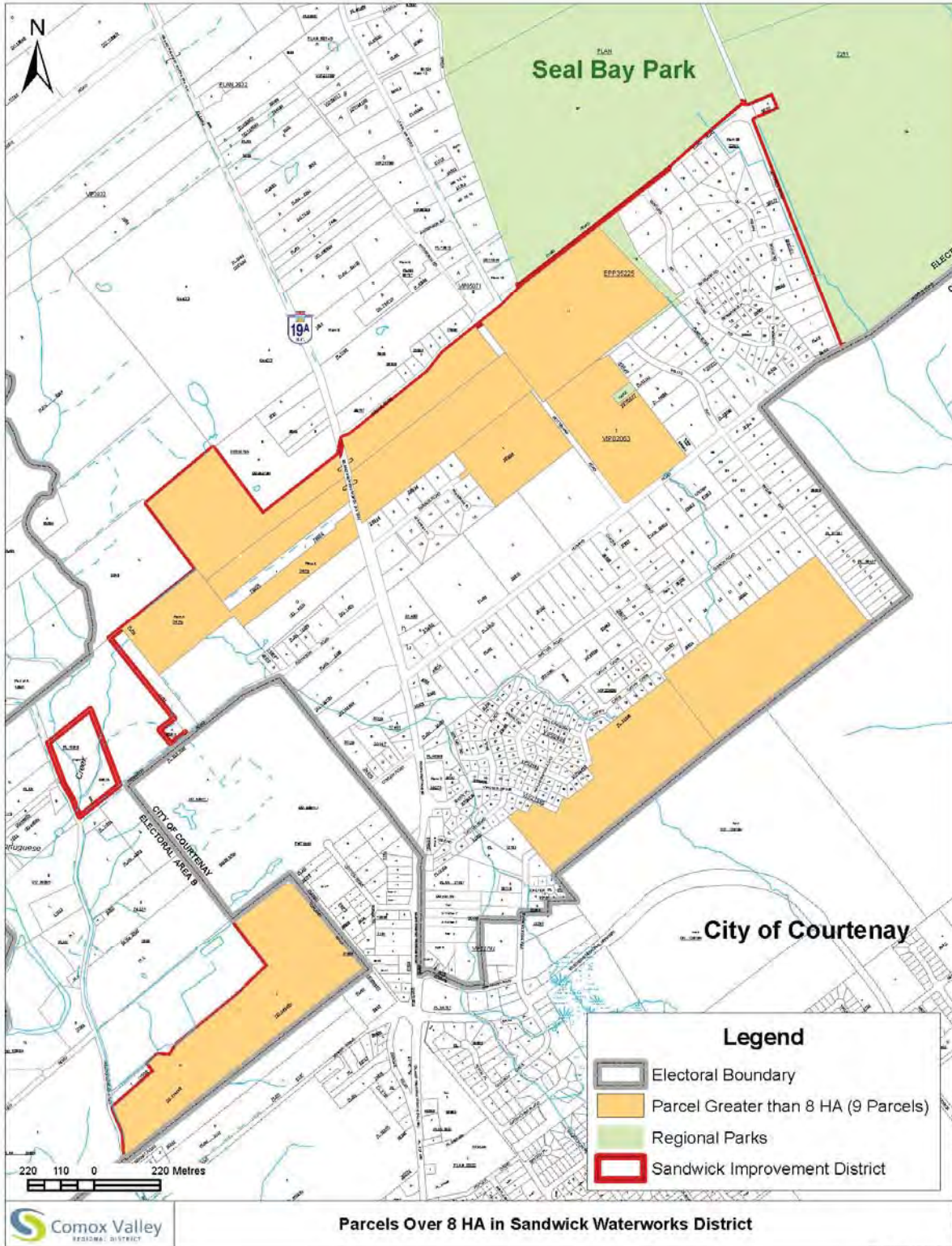


Table 1: Lot development potential assessment summary

PID	Size (ha)	Split zoned area (ha)	Zone
009-516-662	24.88		RU-ALR
New Lot potential	3		min lots size 8 ha
006-077-668	9.81		RU-ALR
New Lot potential	1		min lots size 8 ha
002-475-812	8.29		R-RU & RU-ALR
		0.1 ha	R-RU - 4ha
New Lot potential	1		RU-ALR - 8 ha
002-441-748	17.89		R-RU & RU-ALR
		3.8 ha	R-RU - 4ha
New Lot potential	2		RU-ALR - 8 ha
009-520-341	15.39		R-RU & RU-ALR
		2.61 ha	R-RU - 4ha
New Lot potential	1		RU-ALR - 8 ha
005-026-067	18.92		R-RU
New Lot potential	3		Min lots size 4ha
029-283-256	17.90		R-RU
New Lot potential	3		Min lots size 4ha
026-872-919	11.0		R-RU & PA-1
New Lot potential	1		Min lots size 4ha
005-026-270	15.24		R-RU
New Lot potential	2		Min lots size 4ha
Total new lot potential	14		
Total potential residential units	28		



To: Comox Valley Water Management Advisory Committee  
From: Sarah Morden, Defero-West Consulting  
Date: October 2, 2014  
Re: Sandwich Waterworks Conversion Study

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## **Background**

During its 2013 Annual General Meeting, the Sandwich Board of Trustees supported a resolution requesting the CVRD to initiate a study of the options and costs associated with converting to a regional district service, or a “water local service area”. The main drivers of this request are:

1. The need to finalize an agreement with the City of Courtenay regarding how and when to sever the systems following the 2002 municipal boundary expansion (282 properties to switch to City water, 424 to remain within Sandwich); and,
2. the pending implementation of new provincial drinking water regulations pertaining to surface water, which will make one of the SWWD’s three sources (the Courtenay River) unusable past 2017.

In November, 2013 the CVRD Board committed funding in the 2014 financial plan to conduct the Sandwich Waterworks District (SWWD) conversion study, including determining the governance, financial, operational and public impacts that may result from the conversion.

The Study commenced in June, 2014. It is being led collaboratively by three consultants: Sarah Morden of Defero-West Consulting; Kate Berniaz of Urban Systems; and, Sherry Hurst of Leftside Partners Inc.

## **Study Scope/Progress**

The project scope includes the following:

- A start-up meeting and site tour (June 12, 2014)
- Literature Review: historical information, studies, planning documents, legislation, Ministry guides (July)
- Preparation of a “Current Situation Report” (submitted July)
- Exploration/analysis of service options and configurations (August)
- Preparation of an “Options Matrix” (draft 1 August; now draft 5 - see attached)
- Presentation to Sandwich Trustees (September)
- Community Consultation (TBD – see “Next Steps”)
- Final report (TBD – see “Next Steps”)

## **Options**

The consultants reviewed the governance and water supply components and identified different configurations. Some options were dismissed before a more thorough evaluation, these are discussed on page 4 of the attached “Options Matrix” document.

The three options that were analyzed include the following – please refer to the attached “Options Matrix” document for a detailed discussion and comparison:

Option 1 – Remain an independent Improvement District

Option 2 – convert to local water service area with connection to the Comox Valley Water Supply System. (requires approval by the Comox Valley water committee)

Option 3 – convert to local water service area with the CVRD assuming responsibility for the existing Sandwick water supply and distribution system (no connection to the Comox Valley Water Supply System)

## **Presentation to Sandwick - Outcomes**

The Options Matrix was reviewed and discussed with Sandwick Trustees on September 24<sup>th</sup>. The main points of discussion pertaining to the options are as follows:

- Trustees felt the community would likely support Option 2, but are concerned about presenting it as an option if the Comox Valley water committee may ultimately decline the request to connect to the system.
- They do not feel that the community would support Option 3 as an alternative for converting to a local water service area – and further, that if the community can't be reasonably confident in an approval under Option 2, they would likely support remaining an independent improvement district over Option 3.
- Some concerns were expressed about SWWD's ability to find new well sources to support Option 1, and to obtain the necessary approvals from property owners to test/drill on privately owned land.
- There is increasing concern about the existing infrastructure - only one of four intakes at the river source is currently working.

## **Request to the Comox Valley Water System Committee**

Sandwick Trustees would prefer to narrow the options to two for public consultation – the ideal scenario being Options 1 and 2, eliminating Option 3. The SWWD is therefore respectfully requesting the Committee's consideration of the following question:

*Is it possible for the Comox Valley Water Committee to consider for approval, in principle, a connection to the Comox Valley water supply system prior to public consultation with the Sandwick residents?*

Similarly, it is requested that if there are any issues or concerns that would preclude CVWS connection approval, that Sandwich Trustees be made aware of those so that Option 2 can be eliminated prior to the public consultation process.

## **Next Steps**

### *If the Request is Supported*

Once input is received from either the Advisory Committee, the Water Committee or both, the consultants will work with the SWWD to finalize plans and prepare materials for public consultation. This process will likely include one or two interactive community conversation workshops, and the consultants will be in touch with the staff liaison at the Ministry of Community, Sport & Cultural Development to ensure the proposed methodology meets their Improvement District conversion guideline standards.

Following the workshops, the consultants will prepare a final report identifying the results of study and the public consultation, a preferred option and a proposed course of action. It is anticipated that consultation will occur in November, and that the Final Report will be delivered in December prior to the holiday season.

### *If the Request Cannot be Supported*

The consultants will work with Sandwich Trustees to determine how best to proceed – it is anticipated (based on the discussion with Trustees on September 24th) that that Sandwich would require additional support to evaluate the remaining options and prepare for public consultation. The consultants would work with Trustees and the Ministry staff liaison to determine the most appropriate method of consultation, which may vary from what is described above depending on the viability of the remaining options. It is reasonable to expect that an extra 3-4 weeks may be required in this scenario, extending the timelines for the submission of the Final Report into January, 2015.

# Sandwick Waterworks District Conversion Study

## Options Matrix

### 1.0 Purpose

This report builds on the information presented in the “Current Situation Assessment” as provided to the Comox Valley Regional District (CVRD) by the consultants in July 2014. The purpose of this document is to identify and analyze the options for a long-term solution for the provision of safe, reliable and accessible drinking/potable water to the portion of the Sandwick Waterworks District not within City of Courtenay boundaries.

#### **QUICK FACTS** *(please refer to Current Situation Assessment for more details):*

- The Sandwick Waterworks District (SWWD) was incorporated in 1960 as an improvement district. At that time, it was located wholly in what is presently Electoral Area ‘B’ (Lazo North) in the CVRD.
- In November of 2002, the boundaries of the City of Courtenay were extended to include a portion of the Sandwick Waterworks District (SWWD).
- In accordance with Supplementary Letters Patent pertaining to the boundary expansion, the City and SWWD must enter into an agreement regarding water supply and distribution for the properties taken within the municipal boundaries. All SWWD assets and liabilities within the extended City limits are to be transferred to the City of Courtenay with the exception of those required to maintain the integrity of the water supply system for Sandwick, and land held in fee simple ownership by SWWD. An agreement has been drafted, but remains “on hold”.
- SWWD currently supplies approximately 424 water service connections in Electoral Area ‘B’ (the remainder of SWWD not within City boundaries), as well as 282 connections within the City of Courtenay.
- The SWWD obtains water from three sources – one surface source (Courtenay River) and two groundwater wells (Dingwall Road and Mitchell Road). The river intake and the Dingwall Road well are located within the City. The Mitchell Road well is in Electoral Area ‘B’.
- The SWWD has been notified by the Vancouver Island Health Authority that the *Drinking Water Protection Act* and regulations will require additional treatment of the surface source (Courtenay River) by 2017 if it is to remain in use.
- During its 2013 Annual General Meeting, the SWWD Board of Directors supported a resolution requesting the CVRD to initiate a study of the options and costs associated with converting to a regional district service, or a “water local service area”.
- SWWD Board members interviewed for this study expressed a general feeling that plans have been “on hold” since the City’s boundary expansion. They see that this situation is coming to a head and they either need an end date for the Improvement District or they are going to have to locate and establish a new water source(s).

## 2.0 Information Gaps

This section addresses the “information gaps” identified in the *Current Situation* report.

Question	Comments
What are the estimated costs of finding and drilling a new groundwater source(s)?	<p>According to Koers Engineering, \$300,000 to \$600,000 per well or higher. Development of a well depends on a number of factors including:</p> <ul style="list-style-type: none"> <li>• drilling and proving out a test well,</li> <li>• drilling and developing a production well,</li> <li>• obtaining approval from the Ministry of Health and MoE to develop a new groundwater well for potable water use,</li> <li>• designing a pump, pumphouse and control system</li> <li>• determining if a standby emergency power generator is required</li> <li>• extent of infrastructure required to connect the well into the existing water system,</li> <li>• whether water treatment is required at the well.</li> </ul> <p>Sandwick believes they can drill for less, approximately \$100,000 to \$150,000 based on cost estimates they have obtained within the past few years.</p>
Is the City even willing to consider continued use of the Dingwall Road well and construction of a supply main?	Yes – SWWD would be able to access the Dingwall Rd well and river intake if they remain an Improvement District.
How many new sources would be required to replace the supply currently yielded from both the Courtenay River and the Dingwall Rd well?	For the purposes of this study, assume 3-5 depending on capacity. If capacity were similar to the existing wells (between 5-6 liters per second), then a total of 3 wells would be required to meet the current average day demand outlined in the Koers report (11.3 lps) and 5-6 wells would be required to meet maximum day demand (27.4 lps) – Sandwick noted maximum day demand was calculated using 1998 data, which was selected because spring and summer average rainfall was notably lower, resulting in high water usage. They estimate that given more recent/average consumption data, 1-2 wells would be required, particularly if water meters were introduced to reduce consumption.
What is the impact, if any, of the <i>Water Sustainability Act</i> on SWWD if it were to remain an Improvement District and drill new wells?	The legislation has been introduced, but the regulations have yet to be written. Regulations will be completed in approximately two years. It is expected there will be new licensing and regulatory requirements for ground water.
Is any of the AC piping of pressure class 100?	This is unknown. Koers Engineering recommends a budget of \$400 to \$500 per meter of pipe to be replaced to cover development of detailed design drawings, obtaining Ministry of Health approval for watermain construction, tendering, and construction services. This assumes the existing AC mains can be abandoned in place and would not include replacement of water service connections from the main to the property lines or water meters. The consultants have allowed a <b>contingency</b> of \$150,000 - this would cover replacement of 20% of the existing pipes within Sandwick, which total approximately 15km.

Question	Comments
Would conversion to a regional district service change the fire flow requirements?	Ministry has advised: fire flow requirements are based on the diameter of the pipe and flow per second, so the structure of the jurisdiction providing the service does not appear to be a factor.
# of water service connections in Area 'B'	Yvonne (SWWD Administrator) to confirm.
What is the City's estimated timeline for finalizing the agreement and severing from the SWWD system?	The City is awaiting a decision by the SWWD regarding potential conversion to a regional district service before finalizing the agreement.

The following information was also confirmed subsequent to the Current Situation report:

- The conversion of the Sandwich Water Works into a regional district service with connection to the Comox Valley Water System would require the approval of the Comox Valley Water Committee. If the Committee does not approve the service, the CVRD Board of Directors could consider assuming responsibility for the existing system using Sandwich's water sources, as opposed to connection with the Comox Valley Water System.
- As outlined, if the river intake is to be used beyond 2017, water treatment infrastructure is required. Sandwich Trustees anticipated the cost of such infrastructure to be in excess of \$1million. According to Koers Engineering, the cost of the water treatment infrastructure is very difficult to estimate and depends upon the treatment process, which requires water quality testing over at least one year, followed by a review of treatment options and pilot testing. The initial treatment options assessment work would cost an estimated \$50,000-\$80,000, not including the actual water treatment infrastructure that is ultimately selected.

### 3.0 Options

This section provides an overview and comparison of the options available to the Sandwich Waterworks District.

#### 3.1 Options Defined

There are a number of options for the future of the Sandwich Waterworks District. The consultants reviewed the governance and water supply components and identified different configurations. Some options were dismissed before a more thorough evaluation, including:

- The City of Courtenay has confirmed that the municipality has no intent to pursue any further boundary expansions to take in the remainder of the Sandwich Waterworks District.
- The municipality is not interested in providing water to the SWWD through bulk water purchase, but will allow CVRD water to flow through their pipes into a regional district service area.
- Continued use of the river intake beyond 2017 due to cost prohibitive water treatment infrastructure requirements.
- Koers Engineering had identified that a supply main could be constructed to convey water from both the river intake and Dingwall Rd well to Sandwich – these sources are located in relatively close proximity, approximately 2-3km from the Sandwich boundary. This pipeline would cost an estimated \$607,000. With the dismissal of the river intake as cost prohibitive, this pipeline becomes unfeasible. Therefore, the two options that would involve continued use of Sandwich's sources (Option 1 and Option 3 below) include the estimated cost of establishing 3-5 new wells within the Sandwich area to replace both the river intake and the Dingwall Road well.

The options that have been included in the analysis are:

#### **Option 1 - Remain an independent Improvement District**

*This option involves:*

- *City severing from the system;*
- *Remainder of SWWD would continue to function as an Improvement District;*
- *Water supply from the Mitchell Road well, and either 3-5 new wells using Koers' calculations based on 1998 consumption OR 1-2 new wells using Sandwich's more recent/average consumption data (See Section 2.0 for explanation) to replace the river intake and Dingwall Road well (see dismissed options above);*
- *Governance decisions and operation/maintenance/upgrading of the system would remain the responsibility of the Sandwich Board of Trustees, as elected by ratepayers;*
- *Funding would continue through annual user fees (toll rates), as set by the Board of Trustees. Provincial grants are not available to the SWWD.*

### **Option 2 - Convert to a regional district “Local Water Service Area” with connection to the Comox Valley Water System.**

*This option involves:*

- *City severing from the system;*
- *Remainder of SWWD would convert to a regional district service as a “Local Water Service Area”;*
- *Water supply via the Comox Valley Water System<sup>1</sup>;*
- *System modification near Wentworth Road to provide the required connection to the CVWS, with distribution through existing piping;*
- *Sandwick Waterworks District would no longer exist, and existing sources would be decommissioned;*
- *Comox Valley Water Committee (Area ‘B’ Director is a member) would determine all policy related to **water supply** for the local water service area, providing advice and recommendations to the CVRD Board of Directors where the Commission cannot undertake the required actions (ex. adopting bylaws or entering contracts);*
- *The CVRD’s Electoral Area Services (EAS) Committee would determine all policy related to **water distribution** for the local service area.*
- *Opportunity for an interim committee made up of SWWD Trustees to aid in the transition by providing input/advice to EAS Committee regarding distribution.*
- *CVRD would be responsible for ongoing operations, maintenance and capital upgrades of the system, funded through annual user fees/charges and government grants, as applicable.*

### **Option 3 - Convert to a regional district “Local Water Service Area”; CVRD assumes responsibility for the existing SWWD water system – no connection to the Comox Valley Water System.**

*This option involves:*

- *City severing from the system;*
- *Remainder of SWWD would convert to a regional district service as a “Local Water Service Area”;*
- *CVRD would assume responsibility for Sandwick’s existing sources and distribution system, as well as the establishment of 3-5 new wells to replace the river intake and Dingwall Road well (see dismissed options above);*
- *Sandwick Waterworks District would no longer exist;*
- *an advisory committee made up of SWWD Trustees (similar to the Royston Advisory Select Committee) would provide advice regarding both supply and distribution to the Electoral Area Services Committee or CVRD Board of Directors;*
- *CVRD would be responsible for ongoing operations, maintenance and capital upgrades of the system, funded through annual user fees/charges and government grants, as applicable.*

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<sup>1</sup>Requires approval by the Comox Valley Water Committee

**Table 1: OPERATIONS**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Source(s)</b>	Mitchell Road well, plus 3-5 new wells based on Koers' calculations or 1-2 new wells based on Sandwick's calculations.	CVRD bulk water from East Courtenay Reservoir, via Puntledge River, origin is Comox Lake (Koers Engineering recommendation)	Mitchell Road well, plus 3-5 new wells.
<b>System Modifications</b>	<p>1.1 Establish new wells <b>Koers data:</b> 3-5 new wells; allow range between \$300,000 x 3 and \$600,000 x 5 <b>Sandwick data:</b> 1-2 new wells; allow between \$100,000 x 1 and \$150,000 x 2</p> <p>1.2 Construct mains to connect with SWWD system – sample sites are within metres of existing pipelines. (allow \$40,000 for up to 100m if using Sandwick's data – Koers' estimates included this item))</p> <p>1.3 Isolate the City and SWWD distribution systems<sup>2</sup>(\$25,000)</p> <p>1.4 Decommission river intake &amp; Dingwall Rd well; install cap to abandon the main between the pump station and intersection of Hwy 19a and Suffield. (\$45,000)</p> <p>1.5 Connect properties fronting Wentworth Rd and Cotton Rd that are within the SWWD, but</p>	<p>2.1 Isolate the City &amp; SWWD systems, but substitute #3 (see footnote) with installation of a bulk flow meter on Wentworth Road main to connect with Comox Valley Water System. (\$90,000)</p> <p>2.2 Connect properties fronting Wentworth Rd and Cotton Rd that are within the SWWD, but are serviced by mains that are to become part of the City's system. (\$40,000)</p> <p>2.3 Decommission Mitchell Rd reservoir and modify boost pump station to maintain pressure of 40psi during peak hour demand. (\$110,000)</p> <p>2.4 Close valve on Willis Way and install connection to Huband Rd main to service area from CVWS and eliminate a dead end main on Willis Way. (\$20,000)</p> <p>2.5 Remove check valve on the 150mm dia AC main on Gibson Rd at Willis Way and install a pipe spool to service area from CVWS.(\$5,000)</p>	<p>3.1 Establish 3-5 new wells using SWWDs sample sites if possible. (allow range between \$300,000 x 3 and \$600,000 x 5)</p> <p>3.2 Construct mains to connect with SWWD system – sample sites are within metres of existing pipelines. (Koers' estimates for new wells includes this item)</p> <p>3.3 Isolate the City and SWWD distribution systems (\$25,000)</p> <p>3.4 Decommission river intake &amp; Dingwall Rd well; install cap to abandon the main between the pump station and intersection of Hwy 19a and Suffield. (\$45,000)</p> <p>3.5 Connect properties fronting Wentworth Rd and Cotton Rd that are within the SWWD, but are serviced by mains that are to become part of the City's system. (\$40,000)</p>

<sup>2</sup> To isolate the City & SWWD systems:

1. Install a closed valve on the 150mm dia. Main crossing Highway 19A near Cotton Road. \$15,000
2. Install a closed valve on the 100mm dia. Main on Wentworth Road south of Exeter Plc. Near City boundary \$5,000
3. Install a cap on the 200mm dia. Main on Wentworth Road south of Exeter Place at the City boundary. \$5,000

**Table 1: OPERATIONS**

	<p>Option 1 – Remain an Improvement District</p> <p>are serviced by mains that are to become part of the City's system. (\$40,000)</p>	<p>Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System</p> <p>2.6 Decommission Mitchell Rd well, Dingwall Rd well, Courtenay River intake pump station and install cap to abandon the main between the pump station and intersection of Hwy 19a and Suffield. (\$62,000)</p>	<p>Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system</p>
<p><b>Related Capital Considerations</b></p>	<p>LONGER TERM</p> <ul style="list-style-type: none"> <li>35 of SWWD's 67 distribution mains are scheduled for inspection and/or replacement within the next ten years – approximately 60% (15km) are within what would remain the SWWD. It would be reasonable to anticipate that half (7-8km) may require replacement in the next ten years. Koers recommends a budget of \$400-\$500 per meter for replacement – allow for \$2,800,000 to \$4,000,000. According to SWWD, the area that would remain within the ID includes newer piping – allowing \$2,800,000-\$4,000,000 may be high.</li> </ul>	<p>SHORT TERM:</p> <ul style="list-style-type: none"> <li>Water meters would need to be installed at all SWWD properties in keeping with the CVRD's mandatory metering program @ average cost of \$1,000 per property.</li> <li>It is not known whether any AC100 piping exists in the system; any resulting pressure increases from connection to CVWS could trigger a need to replace; allow for contingency of \$150,000.</li> </ul> <p>LONGER TERM</p> <ul style="list-style-type: none"> <li>35 of SWWD's 67 distribution mains are scheduled for inspection and/or replacement within the next ten years – approximately 60% (15km) are within the area that would convert to a Local Service Area. It would be reasonable to anticipate that half (7-8km) may require replacement in the next ten years – allow for \$2,800,000-\$4,000,000 (based on Koers recommendation). According to SWWD, the area that would remain within the ID includes newer piping – allowing \$2,800,000-\$4,000,000 may be high.</li> </ul>	<p>SHORT TERM</p> <ul style="list-style-type: none"> <li>Water meters would need to be installed at all SWWD properties in keeping with the CVRD's mandatory metering program@ average cost of \$1,000 per property.</li> </ul> <p>LONGER TERM</p> <ul style="list-style-type: none"> <li>35 of SWWD's 67 distribution mains are scheduled for inspection and/or replacement within the next ten years – approximately 60% (15km) are within the area that would convert to a Local Service Area. It would be reasonable to anticipate that half (7-8km) may require replacement in the next ten years. allow for \$2,800,000 to \$4,000,000 (based on Koers recommendation). According to SWWD, the area that would remain within the ID includes newer piping – allowing \$2,800,000-\$4,000,000 may be high.</li> </ul>

**Table 1: OPERATIONS**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Responsibility for Operations</b>	<p>Responsibility for operations and administration would remain with SWWD (currently performed by three on-call maintenance staff (including two Trustees), a part-time Administrator and part-time Administrative Assistant).</p> <p>New licensing requirements are expected to be introduced under the Water Sustainability Act regulations in approx. 2 years – this may increase the amount of work and technical expertise involved in operating wells.</p>	<p>Responsibility for operations and administration would be transferred to CVRD staff. Anticipated increases &amp; costs are discussed under Table 4: Human Resources.</p>	<p>Responsibility for operations and administration would be transferred to CVRD staff. Anticipated increases &amp; costs are discussed under Table 4: Human Resources.</p> <p>New licensing requirements are expected to be introduced under the Water Sustainability Act regulations in approximately 2 years – this may increase the amount of work and technical expertise involved in operating wells.</p>
<b>Treatment</b>	<p>Treatment takes place at well pump houses, which would continue under this option.</p>	<p>Treatment would be centralized at existing CVWS reservoirs, pump stations, chlorination facility. According to Koers, Mitchell Road pump station would need to remain in operation to maintain pressure (40psi) in the area currently serviced by it, with the exception of lower elevation properties on Willis Way, east of Huband Road.</p>	<p>Treatment takes place at well pump houses, which would continue under this option.</p>

**Table 2: FINANCIAL**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Estimated Cost of System Modifications</b>	<p>New Wells estimates:  <b>Koers data:</b> 3-5 new wells; ranging between \$1,050,000 to \$3,150,000  <b>Sandwick data:</b> 1-2 new wells; ranging between \$100,000 and \$300,000                      Remainder of Estimated Modifications (See Table 1): \$150,000</p>	<p>Estimate of all modifications: \$327,000 (See Table 1)</p>	<p>New Wells estimate:                      3-5 new wells; ranging between \$1,050,000 to \$3,150,000                      Remainder of Estimated Modifications (see Table 1): \$110,000</p>
<b>Financial Responsibility for System Modifications</b>	<p>Potential for City to cost share to isolate/sewer systems (\$25,000 item cost); remaining items likely CVRD's responsibility unless otherwise negotiated.</p>	<p>Potential for City to cost share to isolate/sewer systems (\$25,000 item cost); remaining items likely CVRD's responsibility unless otherwise negotiated – costs billed to Sandwick residents as part of the revenue required to provide the service.                      CVRD would be eligible for a small restructure assistance grant from the Ministry, approximately \$10,000 upon conversion</p>	<p>Potential for City to cost share to isolate/sewer systems (\$25,000 item cost); remaining items likely CVRD's responsibility unless otherwise negotiated - costs billed to Sandwick residents as part of the revenue required to provide the service.                      CVRD would be eligible for a small restructure assistance grant from the Ministry, approximately \$10,000 upon conversion</p>
<b>Fees &amp; Charges</b>	<p>Flat rate fee structure. May pay annually (10% discount applies) or quarterly.                      2014 single family residential rate: \$490 per annum, 15% reduction for seniors. At a minimum, fees would need to increase approximately 30% to make up for the 282 former ratepayers that will be switched over to City water. System modifications would likely require further increases.</p>	<p>Metered fee structure. Billed quarterly.                      Determination of rates for Sandwick would require full assessment of revenue required for the service. If similar to other local CVWS service areas, current monthly minimum for single family residential in CVWS (\$22.17) includes 15m<sup>3</sup>. Tiered rates for consumption over 15m<sup>3</sup>. Lowest possible annual rate is \$266.04.                      Water meters: average of approx. \$1000 per property (may be able to access grants, but not guaranteed)</p>	<p>Metered fee structure. Billed quarterly.                      Determination of rates would require full assessment of revenue required for the service. System modifications would likely require rates to be <b>higher</b> than Royston's, where the current monthly minimum for single family residential is \$24.80, and additional tiered rates apply depending on usage beginning with 0-25m<sup>3</sup> at .83/m<sup>3</sup>                      Water meters: average of approx. \$1000 per property (may be able to access grants, but not guaranteed)</p>

**Table 2: FINANCIAL**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
		<i>Capital Cost Charge to connect to CVWS (Bylaw 2350): \$3,086/unit for multi-family dwelling; \$3,702 for single family</i>	
<b>Grant Funding</b>	<i>As an Improvement District, SWWD is <b>not eligible</b> for provincial/federal infrastructure grant programs.</i>	<i>CVRD is eligible for provincial/federal infrastructure grant programs.</i>	<i>CVRD is eligible for provincial/federal infrastructure programs.</i>

**Table 3: GOVERNANCE**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Governance</b>	Sandwich Improvement District Board of Trustees	<p>Comox Valley Water Committee (Area 'B' Director is a member) would determine all policy related to <b>water supply</b> for the local water service area.</p> <p>The CVRD's Electoral Area Services (EAS) Committee (Area 'B' Director is a member) would determine all policy related to <b>water distribution</b> for the local service area.</p> <p>Opportunity for an interim committee made up of SWWD Trustees to aid in the transition by providing input/advice to EAS Committee regarding distribution.</p>	<p>Advisory committee of the CVRD Board of Directors (anticipated) similar to Royston's and likely comprised of SWWD Trustees and Area 'B' Director. Mandate to provide advice to Electoral Area Services Committee or CVRD Board of Directors on <b>water supply and distribution</b> to the Sandwick water system.</p>

**Table 4: HUMAN RESOURCES**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Staffing</b>	<p><b>CURRENT:</b> The Improvement District employs one part-time Administrator, one part-time Administrative Assistant and three on-call maintenance staff (including two Trustees). Two summer students are hire to assist with maintenance. Total wages and benefits paid in 2013: \$87,766</p> <p><b>IMPACT:</b></p> <ul style="list-style-type: none"> <li>- Depending on the number of new wells required, increased maintenance staffing may be required.</li> <li>- Depending on the requirements for Water Sustainability Act, assistance may be required.</li> </ul>	<p><b>CURRENT:</b> Management- GM of Engineering; Senior Manager of Water &amp; Wastewater; Manager of Water Services plus staff of Water Services department.</p> <p><b>IMPACT:</b></p> <ul style="list-style-type: none"> <li>- Facilities are already in operation; minor increase to engineering/maintenance staffing may be required [CVRD providing estimates].</li> <li>- Consulting services &amp; I/T staff time to convert utility data and ensure compliance with capital asset accounting. Allow \$20,000 (one time).</li> <li>- Additional administration for billing/collections and customer support services. Allow \$20,000 annually.</li> <li>- Internal Support Services (per CVRD policy) – allow \$15,000 annually.</li> </ul>	<p><b>CURRENT:</b> Management- GM of Engineering; Senior Manager of Water &amp; Wastewater; Manager of Water Services plus staff of Water Services department.</p> <p><b>IMPACT:</b></p> <ul style="list-style-type: none"> <li>- CVRD Water Services department would assume new responsibilities - operating the 3-5 new wells. Increase to engineering/maintenance staffing would likely be required [CVRD providing estimates].</li> <li>- Consulting services &amp; I/T staff time to convert utility data and ensure compliance with capital asset accounting. Allow \$20,000.</li> <li>- Additional administration for billing/collections, customer support services and Committee support (meeting coordination, agendas, minutes, actions arising, reporting, etc). Allow \$35,000 annually.</li> <li>- Internal Support Services (per CVRD policy) – allow \$15,000 annually.</li> </ul>
<b>Staffing Costs</b>	<p>Responsibility for hiring, training and compensating staff would remain the responsibility of SWWD. Costs would be shared amongst Sandwick residents (minus the 282 properties switching to City water), and included in annual user fees.</p>	<p>All staff involved with the Comox Valley Water System are employees of the CVRD. Costs would be calculated as part of the revenue required to provide water to each local water service area, and included in annual user fees.</p>	<p>Under this option, responsibility for hiring, training and compensating staff to operate the Sandwick Water System would be transferred to the CVRD. Costs would be calculated as part of the revenue required to provide water to each local water service area, and included in annual user fees.</p>

<p><b>Customer Experience</b></p>	<p>Very little impact on interactions with the public initially – SWWD would carry on, billings/communications would remain largely unchanged. The personal and somewhat flexible structure of the SWWD would continue (i.e. rate reductions for seniors, locally elected Trustees managing the system, etc).</p>	<p>Transfer of operations to the CVRD. All related billings and public communications would come through the regional district. Communications and customer service may be more formalized and structured than SWWD residents are used to.</p>	<p>Transfer of operations to the CVRD. All related billings and public communications would come through the regional district. Communications and customer service may be more formalized and structured than SWWD residents are used to.</p>
<p><b>Community Connection</b></p>	<p>Access to decision makers and opportunities for community input is direct and local – neighbours speaking to neighbours.</p>	<p>Could be perceived as “most removed” from the local community in terms of decision making – decisions would be made by the Comox Valley Water Committee and/or regional district Board.</p>	<p>Local input to the decision-making process would be possible through an Advisory Committee – Sandwick Trustees or other local representatives could be involved in the committee.</p>
<p><b>Community Involvement</b></p>	<p>Opportunities for direct involvement under this option are high; however, as the existing Board of Trustees retires, replacement Trustees with the required expertise from the local area will be required to manage the system – this may be a challenge based on low turnouts at SWWD meetings and recent AGMs.</p>	<p>The community would have the lowest amount of opportunities for direct involvement under this option: management of the CVWS system is overseen by the Comox Valley Water Committee (Area B Director is a member) and the CVRD Water Services Department, which includes certified professional engineers and technical staff.</p>	<p>This option involves a medium level of opportunities for direct involvement: management of the system would be overseen by the regional Board of Directors (with input from a Sandwick Advisory Committee) and the CVRD Water Services Department, which includes certified professional engineers and technical staff.</p>

**Table 5: LEGAL**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>Regulatory/ Legal Framework</b>	<p><b>Drinking Water Protection Act</b> (BC Ministry of Health)</p> <p><b>Inspection / Monitoring</b> (Vancouver Island Health Authority)</p> <p><b>Governance</b> - Local Government Act / SWWD Constitution &amp; Bylaws</p> <p><b>Operations / Fees &amp; Charges</b> – SWWD Bylaws</p> <p><b>Water Licencing</b> (BC Ministry of Environment)</p> <p><b>Water Sustainability Act</b> adopted 2014 – new regulations expected in 2015/2016</p>	<p><b>Drinking Water Protection Act</b> (BC Ministry of Health)</p> <p><b>Inspection / Monitoring</b> (Vancouver Island Health Authority)</p> <p><b>Governance</b> – Local Government Act</p> <p><b>Operations / Fees &amp; Charges</b> - CVRD Bylaws</p> <p><b>Water Licencing</b> (BC Ministry of Environment &amp; BC Hydro)</p> <p><b>Water Sustainability Act</b> adopted 2014 – new regulations expected in 2015/2016</p>	<p><b>Drinking Water Protection Act</b> (BC Ministry of Health)</p> <p><b>Inspection / Monitoring</b> (Vancouver Island Health Authority)</p> <p><b>Governance</b> – Local Government Act</p> <p><b>Operations / Fees &amp; Charges</b> - CVRD Bylaws</p> <p><b>Water Licencing</b> (BC Ministry of Environment)</p> <p><b>Water Sustainability Act</b> adopted 2014 – new regulations expected in 2015/2016</p>
<b>Risk Areas</b>	<p>Establishing new well sources takes time, and requires approval of private landowners, which SWWD already finds challenging. Finding and establishing the new well sources required for this option could be very difficult.</p> <p>SWWD relies heavily on its Trustees and a small staff team – the capacity of the organization to maintain long-term operations is of general concern, particularly given increasing costs and complexity of operating drinking water systems.</p> <p>The modifications required for this option would likely consume most, if not all of SWWD’s cash reserves. SWWD does have the power to borrow, but is not eligible for infrastructure grants.</p>	<p>Comox Valley Water Committee may not ultimately approve connection to the Comox Valley Water System.</p> <p>The Comox Valley Water System is currently on water restrictions – would the addition of the Sandwick area present any supply concerns?</p>	<p>Establishing new well sources takes time, and requires approval of private landowners, which SWWD already finds challenging. Finding and establishing the new well sources required for this option could be very difficult.</p> <p>Risk of contamination can increase with the number of sources – this option involves 4-6 different well sources (Mitchell Rd plus 3-5 new sources).</p>

**Table 5: LEGAL**

	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
	<p><i>Risk of contamination can increase with the number of sources – this option involves multiple well sites.</i></p>		
<b>Liability</b>	<p><i>Having to borrow to finance the required modifications (if required) would increase SWWD's debt ratio (currently they have no debt) and impact their overall financial position.</i></p>	<p><i>The consultants have initiated discussions with the Ministry to determine if conversion to a regional district service would change the fire flow requirements.</i>  <i>Update Sept 12/14: fire flow requirements are based on the diameter of the pipe and flow per second, so the structure of the jurisdiction providing the service does not appear to be a factor.</i></p>	<p><i>The consultants have initiated discussions with the Ministry to determine if conversion to a regional district service would change the fire flow requirements.</i>  <i>Update Sept 12/14: fire flow requirements are based on the diameter of the pipe and flow per second, so the structure of the jurisdiction providing the service does not appear to be a factor.</i>  <i>This option may require borrowing to finance the required modifications.</i></p>

<b>Table 6: SUMMARY OF FINANCIAL IMPACTS</b>			
	Option 1 – Remain an Improvement District	Option 2 – Convert to Local Water Service Area; connection to Comox Valley Water System	Option 3 – Convert to Local Water Service Area; CVRD assumes responsibility for existing system
<b>System Modifications</b>	<p>New Wells Estimates:  <b>Koers data:</b> 3-5 new wells; ranging between \$1,050,000 to \$3,150,000  <b>Sandwick data:</b> 1-2 new wells; ranging between \$100,000 and \$300,000</p> <p>Remainder of Estimated Modifications (See Table 1): \$150,000</p>	<p>Estimate of all modifications: \$327,000 (see Table 1)</p> <p>AC100 piping replacement contingency (if these pipes exist in the system and won't withstand pressure increase) - \$150,000.</p>	<p>New Wells Estimate:                      3-5 new wells; ranging between \$1,050,000 to \$3,150,000</p> <p>Remainder of Estimated Modifications (see Table 1): \$110,000</p>
<b>Fees &amp; Charges</b>	<p>\$490/ year as of 2014, this would need to increase by approximately 30% to cover the loss of 282 ratepayers.</p> <p>Additional increases and/or borrowing may be necessary to finance new wells/system modifications.</p>	<p>If similar to other local CVWS service areas, lowest possible annual metered rate for a single family residential property is \$266.04 – final determination would require full assessment of revenue required.</p> <p>Capital Cost Charge to join CVWS system. (\$3,086/unit for multi-family dwelling; \$3,702 for single family)</p> <p>Water meters – average approx. \$1000/property</p>	<p>If similar to other Royston, lowest possible annual metered rate for a single family residential property is \$297.60 – final determination would require full assessment of revenue required.</p> <p>Water meters – average approx. \$1000/property</p>
<b>Staffing</b>	<p>Total wages &amp; benefits in 2014: \$87,766</p> <p>Required increases: unknown, if any</p>	<p>Water Dept Increase</p> <p>Admin – initial conversion \$20,000                      Billing/collections – allow \$20,000/yr                      Support Services (per policy) – allow \$15,000/yr</p>	<p>Water Dept Increase</p> <p>Admin – initial conversion \$20,000                      Billing/collections/Committee – allow \$35,000/yr                      Support Services (per policy) – allow \$15,000/yr</p>
<b>Related/Future Capital Considerations</b>	<p>Allow for \$2,800,000 to \$4,000,000 for pipe replacement in next 10 years. (may be high)</p>	<p>Allow for \$2,800,000 to \$4,000,000 for pipe replacement in next 10 years. (may be high)</p>	<p>Allow for \$2,800,000 to \$4,000,000 for pipe replacement in next 10 years. (may be high)</p>
<b>Grant Funding</b>	<p>As an Improvement District, SWWD is <b>not eligible</b> for provincial/federal infrastructure grant programs.</p>	<p>CVRD is eligible for provincial/federal infrastructure grant programs; provincial restructure assistance grant of approx. \$10,000 upon conversion.</p>	<p>CVRD is eligible for provincial/federal infrastructure programs; provincial restructure assistance grant of approx. \$10,000 upon conversion.</p>

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