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## **BYLAW NO. 2312**

# **LIQUID WASTE MANAGEMENT CORE AREA AND WESTERN COMMUNITIES SERVICE ESTABLISHMENT BYLAW NO. 1, 1995**

**Consolidated for Public Convenience**  
(This bylaw is for reference purposes only)

ORIGINALLY ADOPTED AUGUST 14, 2002  
(Consolidated with Amending Bylaws 3028, 3319, 4304)

For reference to original bylaws or further details, please contact the Capital Regional District,  
Legislative Services Department, 625 Fisgard St., PO Box 1000, Victoria BC V8W 2S6  
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**CAPITAL REGIONAL DISTRICT**

**BYLAW NO. 2312**

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**A BYLAW TO CONVERT THE AUTHORITY FOR LIQUID WASTE MANAGEMENT  
TO A SERVICE FOR THE CORE AREA AND WESTERN COMMUNITIES**

\*\*\*\*\*

**WHEREAS:**

- A. By Supplementary Letters Patent, Division VII dated December 28, 1967, as amended by further Supplementary Letters Patent, the Capital Regional District was granted the function of the acquisition, design, construction, operation, maintenance, renewal and administration of trunk sewers and sewage disposal facilities within all member municipalities of the Regional District except the District of Sooke and the Southern Gulf Islands;
- B. The Board of the Capital Regional District wishes to exercise the function granted to it by the Letters Patent in accordance with Part 24 of the *Local Government Act* subject to all the terms and conditions contained in the Letters Patent and including all the powers granted by the Letters Patent within all member municipalities except the District of Sooke and the Southern Gulf Islands;
- C. The Board of the Capital Regional District wishes to proceed under section 341 of the *Local Government Act* and convert the service to a service exercised under the authority of a bylaw for a portion of the Regional District by bylaw under sections 341(3) and 332 of the *Local Government Act*; *(Bylaw 4304)*
- D. The Board of the Capital Regional District has obtained the consent on behalf of the electors under section 346 of the *Local Government Act*; *(Bylaw 4304)*

**NOW THEREFORE**, the Regional Board of the Capital Regional District in open meeting assembled enacts as follows:

**Service**

- 1. The collection, conveyance, treatment and disposal of sewage is established as a service.

**Boundaries**

- 2. The boundaries of the service area shall be coterminous with the boundaries of the municipalities of Saanich, Victoria, Oak Bay, Esquimalt, View Royal, Colwood and Langford.

**Participating Areas**

- 3. The municipalities of Saanich, Victoria, Oak Bay, Esquimalt, View Royal, Colwood and Langford include the participating areas for this service.

**Cost Recovery**

- 4. (1) The annual operating costs and annual debt costs for the service shall be recovered by one or more of the following:
  - (a) property value taxes imposed in accordance with Division 2 of Part 11 of the *Local Government Act*; *(Bylaw 4304)*

- (b) fees and charges that may be imposed under section 397 of the *Local Government Act*; (Bylaw 4304)
  - (c) revenues raised by other means authorized by the *Local Government Act*; and
  - (d) revenue received by way of agreement, enterprise, gift, grant or otherwise.
- (2) The amount of the requisition for any participating area shall not exceed the amount calculated under section 5 less any amount received from the participating area under section 4(1)(d) by way of agreement negotiated with that participant.

**Cost Sharing and Apportionment**

5. (1) In this Bylaw:

- (a) "allocated treatment capacity" or "treatment capacity" means the portion of the maximum treatment capacity in ML/D of a wastewater treatment plant that is allocated to a participating area under this Bylaw as set out in Schedule "B" and Schedule "C" and as adjusted from time-to-time in accordance with this bylaw;
- (b) "annual debt and capital cost" means the principal and interest payable in each calendar year for the amortization of debenture and other debt;
- (c) "annual operating cost" includes all costs of operating, maintaining, replacing, refreshing, and administering all participating area facilities, works, and programs, excluding annual debt and capital costs;
- (d) "average annual flow" or "AAF" means the calculation obtained from measuring the total flow from October 1 of one year and September 30 of the following year;
- (e) "average dry weather flow" means the calculation obtained from measuring the total flow from June 1 to August 31 in one year and dividing that amount by the number of days in that same period.
- (f) "cost per unit of capacity" means the number derived by dividing the total annual debt and capital costs for a wastewater treatment plant in its first year of repayment by the wastewater treatment plant's design capacity, in ML/D, as follows:

$$\frac{\text{total annual debt and capital costs}}{\text{treatment capacity (ML/D)}}$$

- (g) "cost per unit of operating expense" means the number derived by dividing the total annual operating cost in one year by the actual measured sewage flows, in ML/D, in the same year, as follows:

$$\frac{\text{total annual operating cost}}{\text{total actual measured sewage flows (ML/D)}}$$

- (h) "design capacity benefit" means a benefit to one or more participants that results from any new construction of, or capital additions or improvements to sewage conveyance facilities or their ancillary facilities, after December 21, 2002. To the extent that the benefit was the provision of, or the creation of conditions to allow, additional conveyance capacity, then the design capacity shall be calculated only on the extent to which each participant gained an increase in maximum allocated capacity. Where

the benefit was not an increase in capacity, then the design capacity benefit shall be calculated on the existing maximum allocated capacity of each participant in the facility that was altered, added to or affected by the change;

- (i) "East Coast Interceptor Trunk" means the sewer facilities and functions located in the municipalities of Saanich, Oak Bay and Victoria, comprising all Regionally operated facilities from the Finnerty Outfall diversion works to the Ross Bay trunk sewer at Dallas Road and Cemetery Road, as particularly set out in the East Coast Interceptor Operating Agreement, dated December 1993, and shown on Drawing No. 8-S184-2, including but not limited to:
  - (i) that portion of the original Northeast Trunk Sewer from Currie Pump Station to McMicking Outfall;
  - (ii) the McMicking Outfall;
  - (iii) the Finnerty Cove diversion works and Outfall;
  - (iv) the Humber Pump Station;
  - (v) the Rutland Pump Station; and
  - (vi) the Penrhyn and Currie Lift Station and Currie and Hood Pump stations;
- (j) "Manager" means CRD's General Manager, Integrated Water Services department, or such other individual designated by the CRD;
- (k) "maximum allocated conveyance capacity" means that part of the maximum operating capacity of regional sewer allocated to a participating area to accommodate peak sewage flows from that participating area. When used in reference to spills, it is calculated as the peak wet weather flow in litres per second as shown in Schedule "B", as adjusted from time-to-time on transfer of capacity under this bylaw, and when used in reference to design capacity benefit calculations or the transitory clauses in section 5(2)(a) and (b) for regional sewer built before December 31, 2020, it is as shown on Drawings No. 8-S184-1 and 8-S184-2 on file in the Integrated Water Services department and forming a part of this bylaw by reference;
- (l) "ML/D" means megalitres per day;
- (m) "participating area facilities" means all regional sewer facilities that serve the participating areas, as set out in Schedule "A", but does not include those works owned or operated by a participant or a client of the service for a local sewer or wastewater system;
- (n) "peak wet weather flow" means the maximum flow measured over a 24-hour period on any given day within the calendar year;
- (o) "program" means investigations to assess the marine environment and shoreline discharges and contaminant sources and the coordination of these programs among all levels of government to enhance marine environmental quality;
- (p) "regional sewer" means a trunk sewer, pump station, outfall, treatment plant, interceptor, sewer, sewage disposal, or other wastewater system owned or operated as part of the regional sewer system for the conveyance, measurement, treatment, control, handling and disposal of wastewater (liquids and solids).
- (q) "Spill Regulation" includes the *Fisheries Act (Canada)* and regulations, the *Environmental Management Act (British Columbia)* and regulations, and any other enactment of a Federal or Provincial government governing the discharge of or report of a discharge of wastewater into the environment.
- (r) "wastewater treatment plant" means, as applicable, a single treatment plant or one or

more plants as then operating.

- (2) (a) The annual debt and capital costs of participating area facilities constructed prior to December 31, 2002 shall be apportioned on the basis of the proportion of the maximum allocated conveyance capacity of that part of the respective facilities within a participating area and downstream from the participating area allotted to the participating area.
- (b) The annual debt and capital costs of participating area facilities constructed after December 31, 2002 shall continue to be apportioned on the basis of the design capacity benefit that each participating area derives from each particular facility constructed during that time period.
- (c) After December 31, 2020, the annual debt and capital costs of acquiring land and constructing participating area facilities shall be apportioned on the basis of design capacity based on projected flows to full wastewater treatment plant capacity using the following proportions of 70% ADWF and 30% AAF, as set out in Schedule "C" and as deemed adjusted from time-to-time by transfer of treatment capacity under this bylaw.
- (d) Where the total flow of sewage from a participating area in a calendar year exceeds that participating area's allocated treatment capacity, and the total flow of sewage from all participating areas during that year is less than or equal to 95% of the design capacity of the wastewater treatment plant, the costs apportioned to that participating area under section 5(2)(c) shall be increased by an amount that is equal to:
- $$3 \times (\text{cost per unit of capacity} + \text{cost per unit of operating expense}) \times \text{number of ML/D over allocated treatment capacity}$$
- (e) Where the total flow of sewage from a participating area in a calendar year exceeds that participating area's allocated treatment capacity, and the total flow of sewage from all participating areas during that year is greater than 95% of the design capacity of the wastewater treatment plant, the costs apportioned to that participating area under section 5(2)(c) shall be increased by an amount that is equal to:
- $$5 \times (\text{cost per unit of capacity} + \text{cost per unit of operating expense}) \times \text{number of ML/D over allocated treatment capacity}$$
- (f) Where either subsection 5(2)(d) or 5(2)(e) applies, the costs apportioned to the remaining participating areas under subsection 5(2)(c) shall be reduced by an amount equivalent to that derived under the applicable formula.

(Bylaw 4304)

- (3) (a) In the event that:
- (i) a spill occurs from any of the participating area facilities;
- (ii) the spill resulted from the capacity of regional sewer being exceeded, and by measurement it could be determined that flows from one or more participating areas exceeded the participating area's maximum allocated capacity or allocated treatment capacity; and
- (iii) a fine is imposed against the CRD following a conviction under a Spill Regulation or the CRD is liable for damages as a result of the spill;

(Bylaw 4304)

then the amount of the fine, damages or other liability and associated legal costs directly attributable to the spill shall be allocated to that participating area determined to have caused the spill;

- (b) If more than one participating area jointly caused the spill, then the amount of the fine, damages or liability and legal costs shall be apportioned among those participating areas

determined to have caused the spill in proportion to their AAF, or where flow records indicate the percentage of overflow contribution, based on the amount of overflow contributed by each participating area.

(Bylaw 4304)

- (4) Notwithstanding Section 5 (2), the net annual debt cost of the East Coast Interceptor, for portions constructed prior to December 31, 2002, shall be apportioned among the participating areas on the basis of the net taxable value of land and improvements for Regional Hospital District purposes within that part of each participating area that is within the benefiting or sewer catchment area of the East Cost Interceptor trunk after calculating the conversion on an annual basis of 100% of the current year's property assessment values for Regional Hospital District tax purposes by a factor equivalent to the variable tax rates, established for various classes of assessment by each of the participating member municipalities, for the taxation year immediately preceding the date of the apportionment of the capital cost and annual debt charges.
- (5) The annual operating cost for participating area facilities shall be apportioned among the participating areas, in proportion to the AAF of each participating area, as it relates to the Total AAF of all participating areas, as follows:

$$\text{Total operating costs} \times \frac{\text{AAF of Participating Area}}{\text{Total AAF}}$$

(Bylaw 4304)

#### Maximum Requisition

6. The maximum amount that may be requisitioned under section 339(1) of the *Local Government Act* for the service shall be the greater of:

(Bylaw 4304)

  - (a) twenty million (\$20,000,000) dollars; or
  - (b) an amount equal to the amount that could be raised by a property value tax of one dollar and six cents (\$1.06) per one thousand (\$1,000.00) dollars which when applied to the net taxable value of land and improvements within the service area will yield the maximum amount that may be requisitioned under sections 378(1)(a) and (b) for the service. (Bylaw 4304)

#### Powers

7. In providing the service established by this bylaw, the Regional District may, without limiting the generality of Section 1:
  - (a) Acquire, design, construct, operate, maintain, renew, decommission, demolish, clean-up, restore, and administer regional sewer facilities, buildings, and works; (Bylaw 4304)
  - (b) enter into an agreement with a member municipality on such terms as are mutually agreed upon providing that the municipality may undertake on behalf of the Regional District the design, construction, operation and maintenance of any of the facilities of the Regional District within that municipality;
  - (c) make interim provision for sewage disposal;
  - (d) at any time enter upon any lands, streets, waters or water courses, without the consent of the owner, for the purpose of making surveys and other examinations to determine whether or not the lands, streets, waters or water courses are required in the carrying out of the service;
  - (e) carry any sewer or other works through, across or under any street in such manner as not unnecessarily to obstruct or impede travel and may enter upon and dig up any street for the purpose of laying sewers or other works and of maintaining, repairing and renewing the works in accordance with the following:

- (i) in entering upon and digging up any street, the Regional District shall be subject to such reasonable terms and conditions as may be made by the authority having jurisdiction over such street;
  - (ii) before entering upon any street for the purpose of laying, maintaining, repairing or renewing a sewer or other works, the Regional District gives at least 30 days' notice of its contemplated action to the authority having jurisdiction over the street, but the authority may waive the giving of such notice or shorten the notice period; and
  - (iii) whenever the Regional District digs up any street for any of the purposes set out above, it shall, so far as practicable, restore the street to as good a condition as the street was in before such digging began, and the Regional District shall at all times indemnify and save harmless the municipality within which such digging occurred against and from all damage which may be recovered against such municipality by reason of anything done or omitted by the Regional District, and shall reimburse the municipality for all expenses which the municipality may incur by reason of any defect or want of repair of any street caused by the construction, maintenance, repair or renewal of any of the sewers, drains or other works. No compensation other than as provided in this subsection shall be made by the Regional District in respect of anything done by the Regional District under this subsection;
- (f) make regulations for the purpose of:
    - (i) minimizing the entry of surface, rainwater, and groundwater; taking into account the condition of the sewers; *(Bylaw 4304)*
    - (ii) controlling the quantity and quality of sewage discharging into its facilities;
  - (g) carry out investigations to assess the marine environment and shoreline discharges and contaminant sources; and
  - (h) coordinate programs among all levels of government to enhance marine environmental quality.
  - (i) accept, collect, convey, and treat leachate generated at Hartland Landfill; *(Bylaw 4304)*
  - (j) accept, collect, convey, and treat wastewater treatment plant residuals from one or more local governments, public authorities, or persons by agreement or by way of fee and charge; *(Bylaw 4304)*
  - (k) enter into an agreement with one or more First Nations, including Songhees Nation and Esquimalt Nation, on such terms as are mutually agreed, for the provision of sewage conveyance, treatment, and disposal services, where such agreements follow the cost and treatment capacity apportionment procedures as set out in this bylaw. *(Bylaw 4304)*

### **Negotiation, Mediation and Arbitration**

8. (1) The participating areas shall make all reasonable efforts to resolve by negotiation a dispute regarding the allocation or reallocation of treatment capacity under section 9, or regarding the apportionment of capital and operating costs for the participating area facilities under subsections 5(2) or 5(5).
- (2) In the event that negotiations under subsection (1) fail to resolve a matter in dispute, a Director representing a participating area affected or likely to be affected by the matter in dispute shall declare at a meeting of the Board at which it is intended to deal with any such question that he or she unwilling to accept the Board's determination with respect to the

matter, and the Board shall not decide the question, but shall appoint a mediator under subsection (5) and refer the question to a mediator within 30 days.

- (3) In the event that a question has not been resolved by the mediator within 90 days of the appointment of a mediator under subsection (5), the mediator shall terminate the negotiations by giving notice in writing to all affected participating areas.
- (4) Following termination of the mediation under subsection (3), the matter in dispute shall be referred to an arbitrator appointed under subsection (6) by the Board as soon as reasonably practicable following the expiry of the time period referred to in subsection (3).
- (5) A mediator appointed under subsection (2) shall be appointed by two-thirds vote of all the Directors of the Board present at the meeting of the Board at which the selection is made. Failing such vote, the Board shall request the assistance of a dispute resolution officer under Division 3 of Part 9 of the *Community Charter* in appointing a mediator.
- (6) An arbitrator appointed under subsection (4) shall be appointed by two-thirds vote of all the Directors of the Board present at the meeting of the Board at which the selection is made. Failing such vote, the Board shall request the assistance of a dispute resolution officer under Division 3 of Part 9 of the *Community Charter* in appointing the arbitrator, from the list of persons qualified to act as arbitrators under Division 3 of Part 9 of the *Community Charter*.
- (7) The arbitration shall be conducted as either a final proposal arbitration, or as a full arbitration, in accordance with Division 3 of Part 9 of the *Community Charter*. The choice of arbitration process shall be made by unanimous vote of all the Directors of the Board present at the meeting of the Board at which the choice of process is made. Failing such vote, a dispute resolution officer under Division 3 of Part 9 of the *Community Charter* may direct which process is to be used.
- (8) The arbitrator's decision shall be final and binding on the Board and on all participating areas affected, unless within 60 days of the date of decision the parties come to an alternative settlement in accordance with section 290 of the *Community Charter*.

(Bylaw 4304)

### **Transfer of Treatment Capacity**

9. (1) Where a participating area:
  - (a) uses 90% or more of its allocated treatment capacity under this Bylaw, based on either:
    - (i) measured flows; or
    - (ii) where such flows are not available, as determined by the Manager based on the best available information and sound engineering practice;
  - and;
  - (b) desires additional capacity, or in the opinion of the Manager, requires additional capacity;

then such participating area shall commence negotiations with the Regional District, who will engage with the other participating areas for the reallocation of capacity.
- (2) Allocated treatment capacity is reallocated under this section 9 on a permanent basis as the Regional District and the participating areas agree.



- (3) Allocated treatment capacity shall not be reallocated under this section 9 if the requested increase in capacity is inconsistent with the projected population growth of the sub-region of the Regional District containing the requesting participating area, as set out in the Regional District's Regional Growth Strategy.
- (4) In the event that the participating areas cannot agree on a reapportionment of the annual debt and capital costs or on arrangements for reallocation of design capacity within six months of the date of notice to the Manager or the Manager's determination under subsection (1), then a Director on the Board of the Regional District representing a participating area may, at a meeting of the Board, require that the matter be settled by mediation or arbitration in accordance with Section 8 of this Bylaw, subject to subsections (5) and (6).
- (5) The decision of the arbitrator appointed under subsection (4) may require one or more participating areas to transfer treatment capacity to another participating area, provided the transferring participating area is not expected to use more than 95% of its respective allocated treatment capacity within 10 years from the requested date of the transfer.
- (6) A participating area that permanently transfers allocated treatment capacity (the "Transferor") must be compensated by the recipient for the cumulative debt servicing and capital costs paid by the Transferor to the date of the transfer, including interest costs and interest foregone, in relation to the transferred capacity, as calculated by the Regional District.
- (7) Where additional design capacity in a wastewater treatment facility becomes available, whether through the construction of a new wastewater treatment facility or otherwise, the added design capacity shall be allocated by the Regional Board among the participating areas as follows:
  - (a) a participating area that requires additional design capacity shall submit a request in writing to the Regional District;
  - (b) all requests for additional design capacity that are received before January 1 in a calendar year shall be considered by the Regional Board at the same time for the following budget year, and additional design capacity shall be allocated based on:
    - (i) availability of additional design capacity;
    - (ii) the demonstrated need for each requesting participating area;
    - (iii) consistency of the request with the Regional District's Regional Growth Strategy;
    - (iv) the adequacy of existing or planned conveyance infrastructure; and
    - (v) the Regional District's plans for future expansion of participating areas facilities, and whether the participating area's requests should be deferred until new capital projects are completed.

*(Bylaw 4304)*

### **Sole Authority**

10. (a) The Regional District is the sole authority with jurisdiction to construct the works referred to in paragraph 7(a), provided that a member municipality may proceed on its own initiative with any such work within its own boundaries that the Regional Board is unable or unwilling to construct at that time, the design of such work having been approved by the Regional Board;

- (b) Despite paragraph (a), the Regional District and a municipality which includes a participating area may agree that the construction and operation of works referred to in paragraph 7(a) are within the powers of the municipality.

**Continuing Authority**

- 11. Nothing in this bylaw shall be interpreted as affecting or impairing in any way the rights and powers of the Regional District under the Supplementary Letters Patent, Division VII, dated December 28, 1967, as amended by further Supplementary Letters Patent, in relation to that part of the Regional District not contained within the service area created by this bylaw, or the District of Sooke or the Southern Gulf Islands.

**Citation**

- 12. This Bylaw may be cited for all purposes as the "Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995."

READ A FIRST TIME THIS	12th day of	July	1995
READ A SECOND TIME THIS	12th day of	July	1995
READ A THIRD TIME THIS	11th day of	July	2001
APPROVED BY THE INSPECTOR OF MUNICIPALITIES THIS	18th day of	July	2002
ADOPTED THIS	14th day of	August	2002

Christopher M. Causton  
CHAIR

S. M. Norton  
SECRETARY

FILED WITH THE INSPECTOR OF MUNICIPALITIES THIS 19th day of August 2002

# CRD Core Area Wastewater Service Area Identification of Participating Facilities

## Schedule A to Bylaw 2312 as Amended by Bylaw 4304

May 2020



1:25,000 NAD 1983 UTM Zone 10N

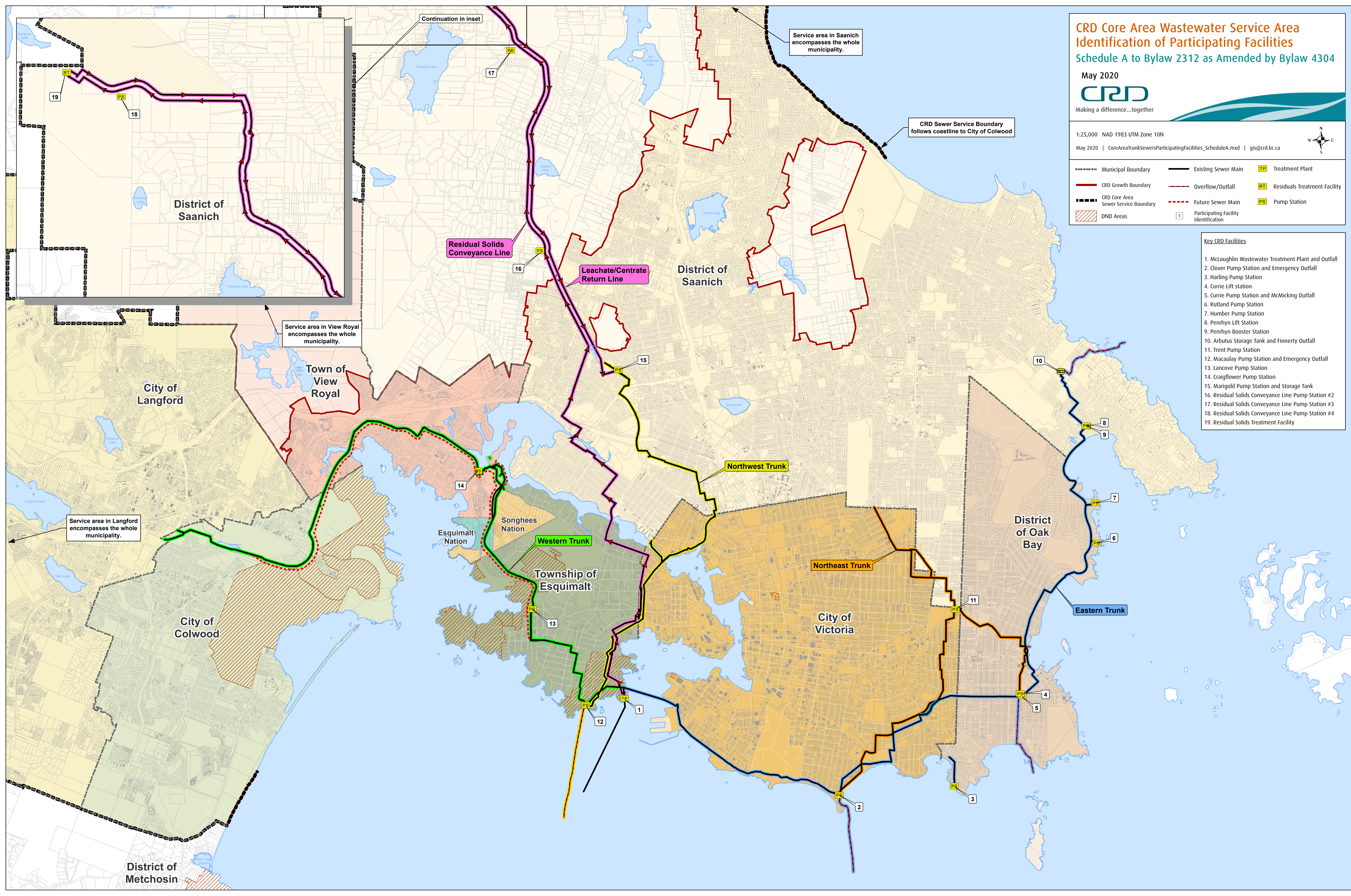
May 2020 | CoreAreaTrunkSewersParticipatingFacilities\_ScheduleA.mxd | gis@crd.bc.ca



Municipal Boundary	Existing Sewer Main	Treatment Plant
CRD Growth Boundary	Overflow/Outfall	Residuals Treatment Facility
CRD Core Area Sewer Service Boundary	Future Sewer Main	Pump Station
DND Areas	Participating Facility Identification	

### Key CRD Facilities

1. McLoughlin Wastewater Treatment Plant and Outfall
2. Clover Pump Station and Emergency Outfall
3. Harling Pump Station
4. Currie Lift Station
5. Currie Pump Station and McMicking Outfall
6. Rutland Pump Station
7. Humber Pump Station
8. Penrhyn Lift Station
9. Penrhyn Booster Station
10. Arbutus Storage Tank and Finnerty Outfall
11. Trent Pump Station
12. Macaulay Pump Station and Storage Tank
13. Lancove Pump Station
14. Craigflower Pump Station
15. Marigold Pump Station and Storage Tank
16. Residual Solids Conveyance Line Pump Station #2
17. Residual Solids Conveyance Line Pump Station #3
18. Residual Solids Conveyance Line Pump Station #4
19. Residual Solids Treatment Facility



Service area in Saanich encompasses the whole municipality.

CRD Sewer Service Boundary follows coastline to City of Colwood

Service area in View Royal encompasses the whole municipality.

Service area in Langford encompasses the whole municipality.

Residual Solids Conveyance Line

Leachate/Centrate Return Line

Northwest Trunk

Western Trunk

Northeast Trunk

Eastern Trunk

District of Metchosin

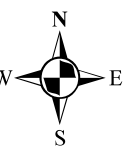
# CRD Core Area Wastewater Service Area Allocated Flow Capacities to Participants Schedule B to Bylaw 2312 as Amended by Bylaw 4304

May 2020



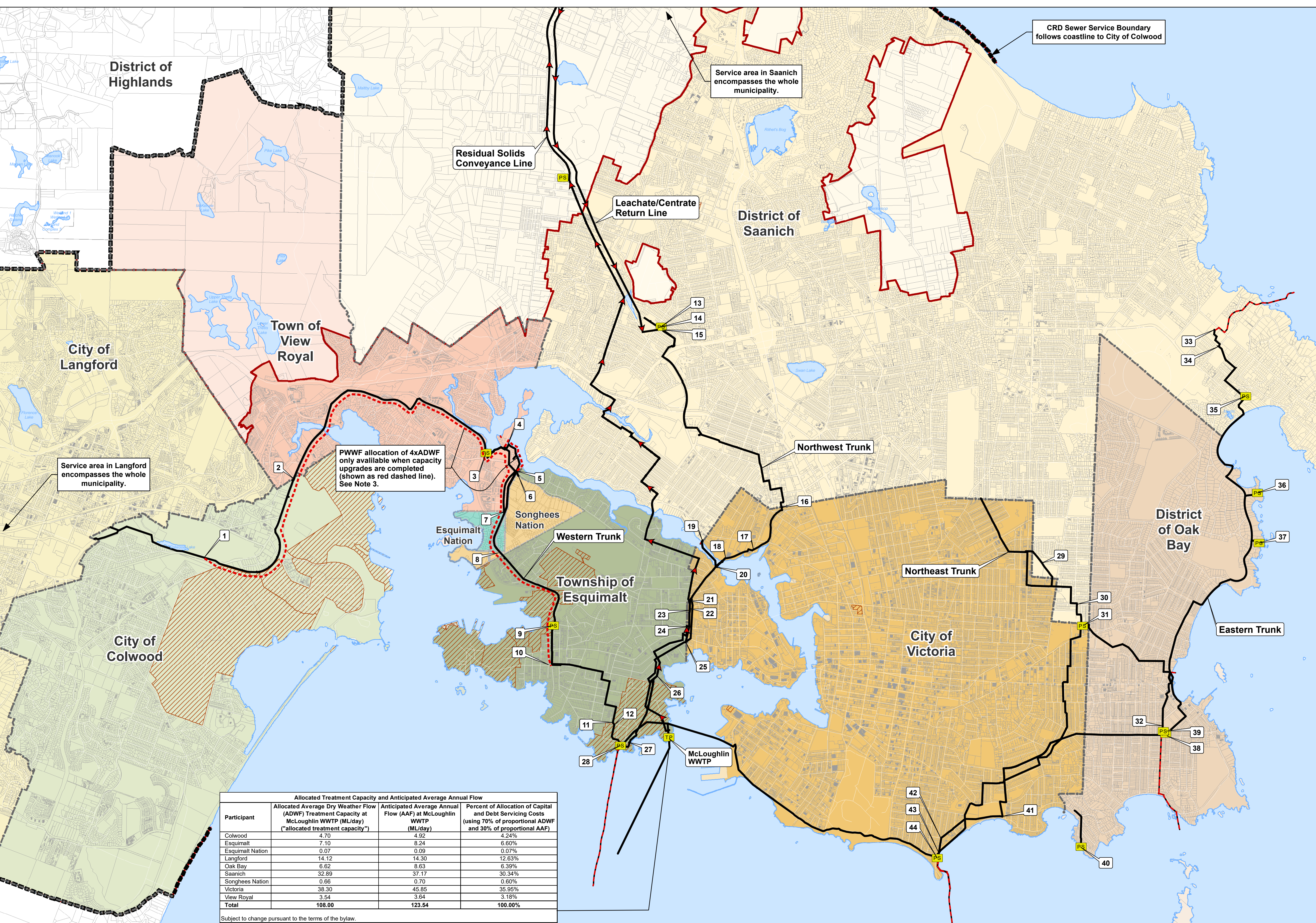
1:25,000 NAD 1983 UTM Zone 10N

October 2019 | CoreAreaTrunkSewersAllocatedFlowCapacities\_ScheduleB.mxd | gis@crd.bc.ca



- Municipal Boundary
- Existing Sewer Main
- CRD Growth Boundary
- CRD Core Area Sewer Service Boundary
- DND Areas
- Overflow/Outfall
- Future Sewer Main
- Wastewater Inflow Allotment at Indicated Location (Inflow ID)
- TP Treatment Plant
- RT Residuals Treatment Facility
- PS Pump Station

- Notes:**
- ADWF = Average Dry Weather Flow (June 1 to August 31).  
PWWF = Peak Wet Weather Flow (max flow over a 24-hour period).  
L/s = Litres per second. MLD = Mega Litres per day.
  - The ADWF Allocations are based the Core Area Wastewater Treatment Program where the total ADWF plant capacity of 108 MLD was allocated out to each participant based on their requested capacity.
  - PWWF is based on 4xADWF which the maximum flow allowed at McLoughlin WWTP as approved by the Ministry of Environment. These allocations will be available when the upgrades identified on the map are completed. Capacity upgrade at the Craigflower Pump Station can be achieved by forcemain twinning. Pump upgrades are not required to meet the PWWF allocation.
  - Total peak flows may not add cumulatively at downstream locations due to system attenuation (population-based on Harmon peaking factor).
  - Inflow allocations may not add cumulatively to participant totals due to inter-municipal cross boundary connections. Inter-municipal flows are not measured; they are estimated as shown in blue text in the tables.
  - Location and extent of future CRD sewers and facilities as depicted are preliminary and may change in accordance with the final system design.
  - Allocations are available up until the capacity at McLoughlin WWTP has been reached. New infrastructure and reallocation of flows will then be required. Allocations can be transferred amongst participants pursuant to the terms of the bylaw.
  - Note some infrastructure is currently being constructed as part of the Core Area Wastewater Treatment Project but is shown as existing on this map.



Allocated Treatment Capacity and Anticipated Average Annual Flow			
Participant	Allocated Average Dry Weather Flow (ADWF) Treatment Capacity at McLoughlin WWTP (ML/day) ("allocated treatment capacity")	Anticipated Average Annual Flow (AAF) at McLoughlin WWTP (ML/day)	Percent of Allocation of Capital and Debt Servicing Costs (using 70% of proportional ADWF and 30% of proportional AAF)
Colwood	4.70	4.92	4.24%
Esquimalt	7.10	8.24	6.60%
Esquimalt Nation	0.07	0.09	0.07%
Langford	14.12	14.30	12.63%
Oak Bay	6.62	8.63	6.39%
Saanich	32.89	37.17	30.34%
Songhees Nation	0.66	0.70	0.60%
Victoria	38.30	45.85	36.95%
View Royal	3.54	3.64	3.18%
<b>Total</b>	<b>108.00</b>	<b>123.54</b>	<b>100.00%</b>

Subject to change pursuant to the terms of the bylaw.

City of Langford			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation** (L/s)
1	Meaford	163.5	654.0
2	Parsons	163.5	654.0
3	Craigflower PS	163.5	654.0
28	Macaulay Point PS	163.5	654.0
<b>Total</b>		<b>163.5</b>	<b>654.0</b>

(14.12 MLD)

Town of View Royal			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
3	Craigflower PS	1.6	164.0
4	Shoreline Trunk**	4.1	6.4
28	Macaulay Point PS	41.0	164.0
<b>Total</b>		<b>3.54</b>	<b>164.0</b>

(3.54 MLD)

City of Colwood			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation** (L/s)
2	Parsons	54.4	217.5
3	Craigflower PS	54.4	217.5
28	Macaulay Point PS	54.4	217.5
<b>Total</b>		<b>54.4</b>	<b>217.5</b>

(4.70 MLD)

Songhees Nation			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
6	Songhees Nation	6.8	27.1
4	Shoreline Trunk**	6.8	27.1
3	Craigflower PS	0.8	27.1
8	Maplebank	0.1	0.5
28	Macaulay Point PS	7.3	29.3
<b>Total</b>		<b>7.3</b>	<b>29.3</b>

(0.66 MLD)

Township of Esquimalt			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
9a	Lang Cove PS (DND)	5.8	23.1
9b	Lang Cove PS (Esquimalt)	9.0	35.9
10	Dockyard (DND)	6.8	27.2
10	Dockyard (Esquimalt)	4.9	19.6
11	Kinver	5.1	20.4
12	Pooley Place	0.7	2.8
21	Devonshire (Esquimalt)	21.0	83.9
28	Macaulay Point PS (Devonshire (Songhees Nation))	0.4	1.5
24	Wilson (Esquimalt)	4.2	16.6
33	Arbutus (Victoria)	0.1	0.4
26	Head (DND)	2.9	11.4
Head	(Esquimalt)	16.5	66.1
27	Anson (DND)	2.8	11.2
28	Macaulay Point PS	82.1	328.5
<b>Total</b>		<b>82.1</b>	<b>328.5</b>

(7.10 MLD)

District of Saanich			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
13	Marigold PS	152.7	610.9
16	City Boundary	73.2	292.7
19	Harriet	37.8	151.1
28	Macaulay Point PS	268.7	1066.8
29	Townley	2.0	8.2
30	Haultain	6.6	26.3
33	Arbutus	81.9	327.7
34	Haro - Uvic	9.2	36.7
35	Pentryn LS (Saanich)	10.7	42.9
35	Pentryn LS (Oak Bay)	0.1	0.2
44	Clover Point PS	113.9	455.7
<b>Total</b>		<b>380.6</b>	<b>1522.5</b>

(32.89 MLD)

City of Victoria			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
17	Cecelia (Victoria)	33.5	133.9
17	Cecelia (Saanich)	2.8	11.0
18	Chapman and Gorge (Victoria)	3.9	15.6
18	Chapman and Gorge (Saanich)	0.2	1.0
20	Selkirk (Victoria)	2.6	10.5
20	Selkirk (Esquimalt)	0.6	2.3
22	Langford - Vic West (Victoria)	1.9	7.5
37	Langford - Vic West (Esquimalt)	0.3	1.3
23	Hereward	22.1	88.2
25	Sea Terrace (Victoria)	3.6	14.5
25	Sea Terrace (Esquimalt)	0.2	0.8
28	Macaulay Point PS	67.7	270.6
31	Trent Net (Victoria)	81.5	325.9
31	Trent Net (Saanich)	2.9	11.5
41	Hollywood (Victoria)	4.0	15.9
41	Hollywood (Oak Bay)	2.3	9.3
42	Olive	268.0	1064.1
43	Clover Net	22.2	88.9
44	Clover Point PS	375.6	1502.4
<b>Total</b>		<b>443.3</b>	<b>1773.0</b>

(38.30 MLD)

District of Oak Bay			
Inflow ID	Inflow Name	ADWF Allocation (L/s)	PWWF Allocation (L/s)
32	Windsor	5.0	19.9
36	Humber	7.1	28.4
37	Rutland	4.4	17.5
40	Currie Net (Oak Bay)	38.5	154.2
38	Currie Net (Victoria)	1.9	7.4
41	Currie Net (Saanich)	0.6	2.4
39	Currie Lift Station (Oak Bay)	19.2	76.7
44	Currie Lift Station (Victoria)	0.03	0.13
44	Harling Point PS	2.3	9.3
44	Clover Point PS	76.6	306.5
<b>Total</b>		<b>76.6</b>	<b>306.5</b>

(6.62 MLD)

Note: the maximum daily allocations for the Centrale and Leachate Lines are capped at the values noted.

\*\*See Note 3

**SCHEDULE “C”**

*(Bylaw 4304)*

**ALLOCATION OF WASTEWATER FLOW AND COST APPORTIONMENT**

**ALLOCATION OF DESIGN CAPACITY**

The treatment capacity of the wastewater treatment plant is 108 ML/day measured on the basis of Average Dry Weather Flows (ADWF). Design capacity is allocated to participants as shown in Table One, subject to adjustment for transfer of capacity in accordance with this bylaw.

**TABLE ONE: ALLOCATION OF DESIGN CAPACITY AS MEASURED BY ADWF**

	Allocated Treatment Capacity in ADWF (ML/day)	% of Total
Colwood	4.70	4.35%
Esquimalt	7.10	6.57%
Esquimalt Nation	0.07	0.07%
Langford	14.12	13.08%
Oak Bay	6.62	6.13%
Saanich	32.89	30.45%
Songhees Nation	0.66	0.61%
Victoria	38.30	35.46%
View Royal	3.54	3.28%
Total	108.00	100.00%

Anticipated flow in terms of AAF are derived in the manner shown in Table Two. Table Three shows the percentage allocation of capital and debt servicing costs calculated from the % allocation of design capacity defined in terms of ADWF and AAF.

**TABLE TWO: CONVERSION OF ADWF DESIGN CAPACITY INTO AAF**

	ADWF (ML/day)	Conversion Factor *	AAF (ML/day)	% of Total
Colwood	4.70	1.046	4.92	3.98%
Esquimalt	7.10	1.161	8.24	6.67%
Esquimalt Nation	0.07	1.286	0.09	0.08%
Langford	14.12	1.013	14.30	11.58%
Oak Bay	6.62	1.304	8.63	6.98%
Saanich	32.89	1.130	37.17	30.09%
Songhees Nation	0.66	1.061	0.70	0.56%
Victoria	38.30	1.197	45.85	37.11%
View Royal	3.54	1.028	3.64	2.95%
Total	108.00		123.54	100.00%

\* The conversion factor was calculated using measured ADWF and AAF in year 2012.

**SCHEDULE "C"**

**APPORTIONMENT OF CAPITAL AND DEBT SERVICING COSTS**

**TABLE THREE: PERCENTAGE ALLOCATION OF CAPITAL AND DEBT SERVICING COSTS**

	% Distribution of ADWF	% Distribution of AAF	% Allocation of Debt Servicing Costs
<i>Weighting factor</i>	<i>0.7</i>	<i>0.3</i>	
Colwood	4.35%	3.98%	4.24%
Esquimalt	6.57%	6.67%	6.60%
Esquimalt Nation	0.07%	0.08%	0.07%
Langford	13.08%	11.58%	12.63%
Oak Bay	6.13%	6.98%	6.39%
Saanich	30.45%	30.09%	30.34%
Songhees Nation	0.61%	0.56%	0.60%
Victoria	35.46%	37.11%	35.96%
View Royal	3.28%	2.95%	3.18%
Total	100.00%	100.00%	100.00%

All calculations subject to change based on transfer of treatment capacity pursuant to the terms of this bylaw.