Wastewater Treatment

BIOSOLIDS PRODUCTION REPORT

Capital Regional District | August 2026

Long-Term Biosolids Management Strategy

In June 2024, the CRD Board approved the long-term biosolids management strategy. The options in the long-term strategy follow a tiered prioritization structure. More information on the CRD's long-term biosolids management strategy can be found here.

Residual Solids Receiving

In March 2026, the RTF began receiving residual solids from the Saanich Peninsula and Sooke Wastewater treatment plants by truck, in addition to the McLoughlin Point residual solids piped to the RTF. Previously landfilled, these solids are now processed for beneficial use.

The tonnage of residuals received at the RTF in August 2026 are as follows:

	Total	McLoughlin Point Wastewater Treatment Plant	Saanich Peninsula Wastewater Treatment Plant	Sooke Wastewater Treatment Plant
Dry Tonnes	994	913	71	10

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Summary of Biosolids Production and End Use

In August, 291 tonnes of biosolids produced at the RTF were transported to the Cassidy quarry, for use in land reclamation. No biosolids were landfilled.

Biosolids production and end use data for August 2026 is as follows:

Biosolids Type	Produced		Tier 1 [b]	Tier 2			Tier 3 [f]	Hartland Landfill [g]
			N/A	Combustion [c]	Land Reclamation [d]	Non-Agricultural Soil Amendment [e]	N/A	
Dried [a] Class A	This month	291 t	0 t	0 t	291 t	0 t	0 t	0 t
	Year to date	2,537 t	0 t	0 t	2,537 t	0 t	0 t	0 t
Non-Class A	This month	0 t						0 t
	Year to date	0 t						0 t

[a] Greater than 90% solids.

[b] Tier 1 advanced thermal option under development.

[c] Used as an alternative fuel at the Amrize facility in Richmond, BC, or trialed in other waste-to-energy facilities.

[d] Used for quarry reclamation in Cassidy, BC.

[e] Used to fabricate growing medium and as a fertilizer at non-agricultural nurseries in the Fraser Valley.

[f] No Tier 3 contingency options currently available.

[g] Class A Biosolids are rendered inert by mixing with soil and landfilled within leachate containment areas, and Non-Class A Biosolids are landfilled as a controlled waste

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Compliance Monitoring

The CRD's contractor, Hartland Resource Management Group (HRMG), tests biosolids produced at the RTF to ensure the biosolids are Class A, as defined by the British Columbia *Organic Matter Recycling Regulation* (OMRR). Testing is performed by CARO Analytical Services. OMRR specifies that for Class A biosolids, metals concentrations must not exceed "those specified in Trade Memorandum T-4-93 (September 1997), Standards for Metals in Fertilizers and Supplements, as amended from time to time." The latest version of OMRR can be found here and the latest version of Trade Memorandum T-4-93 can be found here. In June 2022, The Ministry of Environment and Climate Change Strategy announced the intention to amend OMRR, including new standards for Class A biosolids. The proposed OMRR Standards have been included in the table for reference. All biosolids produced at the RTF in August met OMRR Class A criteria.

Substance	OMRR Standard [a] (mg/kg dry weight)	Proposed OMRR Standard [b] (mg/kg dry weight)	Biosolids (mg/kg dry weight)		
			Average	Minimum	Maximum
Metals					
Arsenic (As)	666	41	1.50	1.46	1.54
Cadmium (Cd)	177	15	1.12	1.04	1.17
Chromium (Cr)	9,333	1000	36.1	33.9	37.7
Cobalt (Co)	1,333	150	2.66	2.47	2.83
Copper (Cu)	6,666	1500	438	392	465
Mercury (Hg)	44	4	0.420	0.390	0.455

Molybdenum (Mo)	177	20	7.91	7.31	8.31
Nickel (Ni)	1,600	180	15.5	14.5	16.3
Lead (Pb)	4,444	300	23.4	21.7	24.3
Selenium (Se)	124	25	4.75	4.49	5.06
Thallium (Tl)	44	ns	<0.10	<0.10	<0.10
Vanadium (V)	5,777	ns	10.7	10.1	11.5
Zinc (Zn)	16,444	1820	758	703	789
Fecal Coliforms					
MPN	1,000	1000	<3.0	<3.0	<3.0

[a] For metals, the maximum allowable concentrations for Class A biosolids are calculated based on a 500 kg/ha annual application rate; for fecal coliforms, the maximum allowable concentration is a fixed value

[b] Proposed OMRR standards are tabled for reference - standards subject to change once final OMRR amendment is published.

On October 18, 2024, the Canadian Food Inspection Agency (CFIA) began enforcing an interim standard for per-fluorooctane sulfonate (PFOS) in biosolids imported or sold in Canada as fertilizers. PFOS is used as an indicator for per-and polyfluoroalkyl substances (PFAS). The notice to industry is available here. The CRD tests biosolids produced at the RTF bi-annually to ensure biosolids are compliant with this standard. The most recent sample was taken August 26, 2026. Testing is performed by SGS AXYS Analytical Services.

Substance	CFIA Interim standard (µg/kg dry weight)	Biosolids (µg/kg dry weight)
PFOS	50	3.34