CAPITAL REGIONAL DISTRICT

2025 BUDGET

Environmental Resource Management

ENVIRONMENTAL SERVICES COMMITTEE REVIEW

1.521 Environmental Resource Management **Committee: Environmental Services** Service:

PARTICIPATION:

All costs recovered through tipping fees & Sale of Goods and Services.

MAXIMUM LEVY:

No requisition

MAXIMUM CAPITAL DEBT:

Authorized:	LA Bylaw 3518	12,270,000	Authorized:	LA Bylaw 4515	36,000,000
Borrowed:	SI Bylaw 3547	(2,000,000)	Borrowed:	SI Bylaw 4562	(7,450,000)
	SI Bylaw 3677	(2,500,000)		SI Bylaw 4597	(4,300,000)

SI Bylaw 3769 (2,200,000)

\$5,570,000 Remaining: \$24,250,000 Remaining: Expired May 14, 2013

Total debt outstanding (LA3518) at Dec 31, 2023 \$546,598 Final debt payments (LA3518) in 2026.

Total debt outstanding (LA4515) at Dec 31, 2023 \$7,450,000

Final debt payments (LA4515) in 2038.

COMMISSION:

OPERATING COSTS - REFUSE DISPOSAL:

To be recovered through user fees & sale of goods and services

RESERVE FUND:

Solid Waste Refuse Disposal Reserve Fund, Bylaw No. 2164 (Sept. 8, 1993). Waste Reduction Sustainability Operating Reserve Fund Bylaw No. 3867 (Nov 14, 2012).

				BUDGET R	EQUEST					
1.521 & 1.525 - ERM	2024 BOARD	2024 ESTIMATED	2025 CORE	2025 ONGOING	2025 ONE-TIME	2025	2026	2027	2028	2029
	BUDGET	ACTUAL	BUDGET			TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
GENERAL PROGRAM EXPENDITURES:										
Diversion Services Landfilling Services Energy Recovery Services	22,718,789 12,345,185 1,568,723	20,950,656 11,595,904 1,229,728	28,130,424 13,163,957 1,408,309	329,200 102,123 2,809,050	213,750 1,723,639	28,673,374 14,989,719 4,217,359	26,763,711 13,881,968 4,331,215	26,920,510 13,958,954 4,381,344	27,274,712 14,290,573 4,473,018	27,635,787 14,580,314 4,566,593
	1,000,120	1,220,120		2,000,000		1,211,000	1,001,210	.,00.,01.	.,,	.,000,000
TOTAL OPERATING COSTS	36,632,697	33,776,288	42,702,690	3,240,373	1,937,389	47,880,452	44,976,894	45,260,809	46,038,303	46,782,694
*Percentage Increase over prior year		-7.8%	16.6%	8.8%	5.3%	30.7%	-6.1%	0.6%	1.7%	1.6%
CAPITAL / RESERVE Transfer to Equipment Replacement Fund Transfer to Operating Reserve Fund Transfer to General Capital Reserve Fund Transfer to Landfill Closure Capital Reserve Fund	200,000 356,635 1,100,370 455,120	200,000 356,635 2,454,950 455,120	204,000 1,011,772 3,783,990 464,222	-	- - - -	204,000 1,011,772 3,783,990 464,222	204,000 1,224,040 474,000 473,507	204,000 - 474,000 482,977	204,000 - 474,000 492,637	204,000 - 474,000 502,489
Transfer to Millstream Remediation Debt	6,262	6,262	3,717	-	-	3,717	-	-	-	-
TOTAL CAPITAL / RESERVES	2,118,387	3,472,967	5,467,701	-	-	5,467,701	2,375,547	1,160,977	1,170,637	1,180,489
Debt Expenditures	1,229,666	1,135,336	2,026,178	-	-	2,026,178	2,718,145	2,764,022	2,770,731	2,797,561
TOTAL COSTS	39,980,750	38,384,591	50,196,569	3,240,373	1,937,389	55,374,331	50,070,586	49,185,808	49,979,670	50,760,744
*Percentage Increase over prior year		-4.0%	25.6%	8.1%	4.8%	38.5%	-9.6%	-1.8%	1.6%	1.6%
Allocation Recovery				(202,000)		(202,000)	(207,000)	(211,500)	(216,000)	(220,500)
OPERATING COSTS LESS INTERNAL RECOVERIES	39,980,750	38,384,591	50,196,569	3,038,373	1,937,389	55,172,331	49,863,586	48,974,308	49,763,670	50,540,244
FUNDING SOURCES (REVENUE)										
Surplus / (Deficit) Balance C/F from Prior to Current year Sale of Renewable Natural Gas Revenue - Other Transfer from Operating Reserve	(495,000) (10,254,750) (2,740,000)	(10,238,922)	(8,889,250) (13,300,320)	(329,200) (2,507,173)	- - (1,937,389)	(8,889,250) (13,629,520) (4,444,562)	(8,810,066) (13,664,520)	(8,746,722) (13,664,520) (94,565)	(8,693,936) (13,664,520) (1,557,215)	(8,651,707) (13,664,520) (2,146,517)
TOTAL REVENUE	(13,489,750)	(10,238,922)	(22,189,570)	(2,836,373)	(1,937,389)	(26,963,332)	(22,474,586)	(22,505,807)	(23,915,671)	(24,462,744)
TIPPING FEE (based on inflation)	(26,491,000)	(28,145,670)	(28,007,000)	(202,000)	-	(28,209,000)	(27,389,001)	(26,468,501)	(25,848,000)	(26,077,500)
PROJECTED TONNAGE (General Refuse)	160,000	165,516	155,000			155,000	145,000	135,000	125,000	125,000
*Percentage Increase over prior year		6.2%	5.7%	0.8%	0.0%	6.5%	-2.9%	-3.4%	-2.3%	0.9%
AUTHORIZED POSITIONS: On-going Term	28.70 1.00	28.70 1.00	34.20 1.00			34.20 1.00	34.70 1.00	34.70	34.70	34.70

Change in Budget 2024 to 2025 Service: 1.521 & 1.525 ERM Total Expenditure Comments 2024 Budget 39,980,750 Change in Salaries: Base salary and benefit change 81,744 Inclusive of estimated collective agreement changes Step increase/paygrade change (203,889)Other (explain as necessary) (8,000)3.0 FTE Environmental Analyst & Attendant 304,011 2025 IBC 3a-1.3 Hartland 2100 2.0 FTE Managers 419,062 2025 IBC 1b-4.2 Innovative Projects Work Unit 2025 Reduction in auxiliary wages (100,000)Total Change in Salaries 492.928 Other Changes: Trf to Capital Reserve Fund 2,683,620 To fund 2025 Capital Plan requirements Contract for Services Additional costs related to processing of materials contract (2024 IBC 3a-1.1 -Waste Diversion 1,220,000 Additional costs related to kitchen scraps contract 329,200 255,000 Additional costs related to curbside collection contract To provide the waste flow management consultant support (2025 IBC 3a-1.3 213,750 -RNG Project 1,417,390 To fund for Annual O&M contract for the RNG Project To reflect the anticipated costs related to heavy equipment services and landfilling -Landfilling 1,700,000 of standard refuse and controlled waste Program Development 1,725,000 To fund for the Material Stream Diversion - Hauler incentive 1,000,000 To fund for Solid Waste Management Plan - implement new programming **Electricity Costs** 972,598 To fund for the electricity cost for the RNG Project Standard Overhead Allocation 1,644,428 Increase in 2024 operating costs Bylaw Allocation 86,778 2025 IBC 3a-1.3 Hartland 2100 Human Resources Allocation 25,987 Increase in 2024 salary budget; corporate safety resourcing Insurance costs 16,850 Recognize growing insurance premiums **Building Occupancy** 13,867 **Debt Expenditures** 796.512 To fund 2025 Capital Plan requirements Trf to Operating Reserve Fund 655.136 To mitigate fluctuations in tipping fee revenue Other Costs 144.537 Total Other Changes 14,900,653 55,374,331 2025 Budget Summary of % Expense Increase 2025 Base salary and benefit change 0.2% 2025 IBC Expense 5.6% Waste Diversion 11.3% RNG Project 6.0% Capital Transfers 6.7%

Overall 2024 Budget Performance

Landfilling

(expected variance to budget and surplus treatment)

Standard Overhead Allocation

% expense increase from 2024:

% Requisition increase from 2024 (if applicable):

Balance of increase

'Overall Solid Waste Tipping Revenue for 2024 is forecasted to be higher than budget by \$1.6 million. Tipping fee revenues higher due to an increased quantity of solid waste being received. Recycling revenue for scrap metal (price fluctuates with the global commodity markets) is also higher than budgeted. Landfill Operations/Diversion Services/Energy Recovery services expenses are forecasted to be lower than budget for 2024 by \$2.8 million. The estimated surplus will be transferred for the Capital Reserve Fund.

Requisition funding is (x)% of service revenue

4.3%

4.1%

0.3%

38.5%

%

CAPITAL REGIONAL DISTRICT FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2024 to 2029

Service No.	1.521 Environmental Resource Management	Carry Forward from 2024	2025	2026	2027	2028	2029	TOTAL
	EVDENDITUDE							
	EXPENDITURE							
	Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment	\$0	\$455,000	\$385,000	\$385,000	\$385,000	\$385,000	\$1,995,000
	Land	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000
	Engineered Structures	\$3,100,000	\$15,306,000	\$11,125,000	\$6,600,000	\$2,350,000	\$1,600,000	\$36,981,000
	Vehicles	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$3,100,000	\$15,761,000	\$12,510,000	\$6,985,000	\$2,735,000	\$1,985,000	\$39,976,000
	SOURCE OF FUNDS							
	Capital Funds on Hand	\$500,000	\$1,406,000	\$125,000	\$0	\$0	\$0	\$1,531,000
	Debenture Debt (New Debt Only)	\$1,500,000	\$8,650,000	\$2,350,000	\$0	\$350,000	\$0	\$11,350,000
	Equipment Replacement Fund	\$250,000	\$455,000	\$385,000	\$385,000	\$635,000	\$385,000	\$2,245,000
	Grants (Federal, Provincial)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Donations / Third Party Funding	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Reserve Fund	\$850,000	\$5,250,000	\$9,650,000	\$6,600,000	\$1,750,000	\$1,600,000	\$24,850,000
	_	\$3,100,000	\$15,761,000	\$12,510,000	\$6,985,000	\$2,735,000	\$1,985,000	\$39,976,000

CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

2024 - 2028

Service #:	1.521
Service Name:	Environmental Resource Management

				PROJECT BUDGET & SCHEDULE									
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2024	2025	2026	2027	2028	2029	5 - Year Total
16-06	Renewal	Replacing of Small Equipments	Replacing of Small Equipments	\$ 1,430,00	0 E	ERF		\$ 240,000	270,000	\$ 270,000	\$ 270,000	\$ 270,000	\$ 1,320,000
17-01	Renewal	Gas & Leachate Collection Pipe Extension	Gas & Leachate Collection Pipe Extension	\$ 2,550,00	0 S	Res		\$ 650,000	500,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 2,800,000
17-02	Renewal	Aggregate Production for Internal Use	Aggregate Production for Internal Use	\$ 15,485,00	0 S	Res		\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 4,250,000
17-02	Renewal	Aggregate Production for Internal Use	Aggregate Production for Internal Use	\$	- S	Сар							\$ -
17-04	Renewal	Progressive Closure of External Faces	Progressive Closure of External Faces	\$ 10,000,00	0 S	Res		\$ -	6,000,000	\$ 4,000,000			\$ 10,000,000
17-07	Renewal	Computer Equipment	Computer Equipment	\$ 71,00	0 E	ERF		\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000
17-09	Renewal	Vehicle Replacements	Vehicle Replacements	\$ 500,00	0 E	ERF		\$ 200,000	100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000
17-12	Renewal	Hartland Environmental Performance Model	Hartland Environmental Performance Model	\$ 225,00	0 S	Сар		\$ -		\$ -	\$ -		\$ -
17-14	New	Landfill Gas Utilization	Landfill Gas Utilization	\$ 7,213,00	0 S	Debt							\$ -
17-14	New	Landfill Gas Utilization	Landfill Gas Utilization	\$	- s	Сар							\$ -
17-14	New	Landfill Gas Utilization	Landfill Gas Utilization	\$ 23,718,00	0 S	Res							\$ -
18-01	New	Interim Covers	Interim Covers - West and North Slopes	\$ 1,000,00	0 S	Res				\$ 200,000	\$ 200,000	\$ 200,000	\$ 600,000
22-01	Renewal	Sedimentation Pond Relining	NW Sedimentation Pond Relining & Expansion	\$ 1,000,00	0 S	Res		:	1,000,000				\$ 1,000,000
22-07	Study	Recycling Area Upgrades	Recycling Area Upgrades	\$ 225,00	0 S	Res							\$ -
22-10	New	Storm Water Sedimentation pond Emergency Repairs	Storm Water Sedimentation pond Emergency Repairs	\$ 250,00	0 E	Res							\$ -
23-02	New	Contractor Workshop Relocation	Contractor Workshop Relocation	\$ 1,250,00	0 S	Res	650,000	\$ 650,000					\$ 650,000
23-02	New	Contractor Workshop Relocation	Contractor Workshop Relocation	\$	-s	Сар	500,000	\$ 500,000					\$ 500,000
23-04	New	North End Commercial Access Improvements	North End Commercial Access Improvements	\$ 700,00	0 S	Res							\$ -
23-05	New	Existing Manual and Commercial Scale Upgrades	Existing Manual and Commercial Scale Upgrades	\$ 250,00	0 S	ERF	250,000				\$ 250,000		\$ 250,000
24-01	New	Cell 5&6 GRW	Cell 5&6 Gravity Retaining Wall Construction	\$ 2,000,00	0 S	Debt	750,000	\$ 750,000	1,250,000				\$ 2,000,000
24-02	Study	Hartland North Master Plan	Hartland North Master Plan	\$ 150,00	0 S	Res					\$ 150,000		\$ 150,000
24-05	New	Cell 5 Liner Construction	Cell 5 Liner Construction	\$ 7,900,00	0 S	Debt		\$ 4,900,000					\$ 4,900,000
24-06	New	Cell 1, 2 & 3 Transition Liner	Cell 1, 2 & 3 Transition Liner	\$ 4,000,00	0 S	Debt		\$ 2,000,000					\$ 2,000,000
24-07	New	Relocation of N. Toe Road Sedimentation Pond	Relocation of N. Toe Road Sedimentation Pond	\$ 500,00	0 S	Debt			\$ 500,000				\$ 500,000
25-01	New	NE & NW Aggregate Stockpile cover	NE & NW Aggregate Stockpile cover	\$ 750,00	0 S	Debt	750,000	\$ 750,000					\$ 750,000
25-02	Renewal	North End Wheel Wash	North End Wheel Wash	\$ 800,00	0 S	Res	200,000	\$ 400,000					\$ 400,000
25-03	New	Landfill Gas capture to meet New Federal Regs	Landfill Gas capture to meet New Federal Regs	\$ 250,00	0 S	Res		\$ 100,000	\$ 150,000				\$ 250,000
25-04	New	Hartland Operating Certificate Renewal	Hartland Operating Certificate Renewal	\$ 100,00	0 S	Res		\$ 100,000					\$ 100,000
25-05	New	Hartland Leachate Pipe Mods for Pigging	Hartland Leachate Pipe Mods for Pigging	\$ 150,00	0 S	Res			\$ 150,000				\$ 150,000
25-06	New	Quarry Wall liner	Quarry Wall liner	\$ 250,00	0 S	Res		\$ 250,000					\$ 250,000
25-07	New	Cell 4, 5A & 5B Construction Field QA/QC	Cell 4, 5A & 5B Construction Field QA/QC	\$ 500,00	0 S	Debt		\$ 250,000	\$ 250,000				\$ 500,000
25-08	New	RNG Optimization Projects	RNG Optimization Projects	\$ 831,00	0 S	Сар		\$ 831,000					\$ 831,000
25-08	New	RNG Optimization Projects	RNG Optimization Projects	\$ 1,000,00	0 S	Res		\$ 1,000,000					\$ 1,000,000
25-09	New	Hartland North - Willis P Driveway Upgrades	Hartland North - Willis P Driveway Upgrades	\$ 500,00	0 S	Res		\$ 500,000					\$ 500,000

Service #:	1.521
Service Name:	Environmental Resource Management

				PROJECT BUDGET & SCHEDULE									
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2024	2025	2026	2027	2028	2029	5 - Year Total
25-10	New	Hartland North Electrical	Hartland North Electrical	\$ 750,0	00 S	Res		\$ 750,000					\$ 750,000
25-11		Hartland Environmental Montoring and Containment Projects	Hartland Environmental Montoring and Containment Projects	\$ 75,0	00 S	Сар		\$ 75,000					\$ 75,000
26-01	New	Cell 4& 5 Bottom Lift Gas Wells / Leachate Drain	Cell 4 Bottom Lift Gas Wells / Leachate Drain	\$ 700,0	00 S	Debt			\$ 350,000		\$ 350,000		\$ 700,000
26-02	New	Hartland 5 year DOCP update	Hartland 5 year DOCP update	\$ 125,0	00 S	Сар			\$ 125,000				\$ 125,000
26-03	New	ERM Land Acquisition	ERM Land Acquisition	\$ 1,000,0	00 L	Res			\$ 1,000,000				\$ 1,000,000
26-04	New	RTF Biogas Tie-In to RNG	RTF Biogas Tie-In to RNG	\$ 1,000,0	00 S	Res				\$ 1,000,000			\$ 1,000,000
													\$ - \$ -
			GRAND TOTAL	\$ 89,198,0	00		\$ 3,100,000	\$ 15,761,000	\$ 12,510,000	\$ 6,985,000	\$ 2,735,000	\$ 1,985,000	\$ 39,976,000

Service:	1.521	Environmental Resource Manageme	nt		
Project Number	16-06	Capital Project Title	Replacing of Small Equipments	Capital Project Description	Replacing of Small Equipments
Project Rationale	Replacement of small equipments tha	at have reached their end of life			
Project Number	17-01	Capital Project Title	Gas & Leachate Collection Pipe Extension	Capital Project Description	Gas & Leachate Collection Pipe Extension
Project Rationale	valves, condensation traps, monitorin	ng points, and piping has to be installed to ea		is then conveyed to the gas plant, and	r system to collect methane gas. Well heads, the leachate is conveyed to the lined storage e design/headers.
Project Number	17-02	Capital Project Title	Aggregate Production for Internal Use	Capital Project Description	Aggregate Production for Internal Use
Project Rationale		interception of shallow groundwater inflow	provides the CRD with a number of benefits vs, cost and space savings by not having to im		
Project Number	17-04	Capital Project Title	Progressive Closure of External Faces	Capital Project Description	Progressive Closure of External Faces
Project Rationale	closure system consists of a clay or sy	nthetic cover placed over a gravel drainage	I Solid Waste, completed landfill areas and sl layer This progressive closure system stays in of the areas that will not be filled against go	n place until economies of scale makes	ve closure system on an annual basis. The it cost effective to proceed with installation

Service:	1.521	Environmental Resource Manageme	nt		
Project Number	17-07	Capital Project Title	Computer Equipment	Capital Project Description	Computer Equipment
Project Rationale	Replacement of computer equipment	due to end of life cycle			
Project Number	17-09	Capital Project Title	Vehicle Replacements	Capital Project Description	Vehicle Replacements
Project Rationale	Replacement of vehicle due to end of	life cycle			
Project Number	17-12		Hartland Environmental Performance Model	Capital Project Description	Hartland Environmental Performance Model
Project Rationale	Landfill Criteria. Many of Hartland's o	site-specific computer model that integrates design and operations are already compliant, trate technical justification and environmen	, however a preliminary review identified ad	ditional conformance requirements for	2016 the BC MOE made revisions to the BC or Hartland under the status quo. The model
Project Number	17-14	Capital Project Title	Landfill Gas Utilization	Capital Project Description	Landfill Gas Utilization
Project Rationale	destructed by burning. ERM and EE h CRD. The projected gas revenues from	s fuel to power a generator system to genera ave initiated a project to process the landfill n Fortis is significantly higher than the currer f the project proved to be feasible the detail	gas to a higher quality could be utilized as not arrangement with BC Hydro. This project	atural gas. Fortis BC is interested to p is to carry out the feasibility study, pre	

Service:	1.521	Environmental Resource Management			
Project Number	18-01	In Capital Project Title	terim Covers	Capital Project Description	Interim Covers - West and North Slopes
Project Rationale	_	ment Plan, once an active landfilling cell is com e leachate collection system and overwhelmin			
Project Number	22-01	Capital Project Title Se	dimentation Pond Relining	Capital Project Description	NW Sedimentation Pond Relining & Expansion
Project Rationale	requirements for retaining 24 hrs of p	grating off site into the north freshwater drain preciptiation from a 100 year storm event. Fina ontained and diverted from fresh water course	lly, the sedimentation pond requires inlet		
Project Number	22-07	Re Capital Project Title	ecycling Area Upgrades	Capital Project Description	Recycling Area Upgrades
Project Rationale	The project has been set up to condu safety considerations such as protect	ct a design review of the existing recyling area ion from the sun during hot weather.	at Hartland and investigate changes relation	ng to efficent accessibility due to grow	ing public interest in the depot and to include
Project Number	22-10	Capital Project Title Er	orm Water Sedimentation pond nergency Repairs	Capital Project Description	Storm Water Sedimentation pond Emergency Repairs
Project Rationale		nto the fresh water sedimentation pond. This p to ensure containment of any contaminants. T s.	• • • • • • • • • • • • • • • • • • • •		
Project Number	23-02	Capital Project Title	ontractor Workshop Relocation	Capital Project Description	Contractor Workshop Relocation
Project Rationale	•	located in the future Cell 5 of the landfill and m mical) in a new location adjacent to future cell:		·	• •

Service:	1.521	Environmental Resource Manageme	nt		
					
Project Number	23-04	Capital Project Title	North End Commercial Access Improvements	Capital Project Description	North End Commercial Access Improvements
•			Scales are equipped for fully automated com card readers/scanners, RFID systems, scale s		
Project Number	23-05	Capital Project Title	Existing Manual and Commercial Scale Upgrades	Capital Project Description	Existing Manual and Commercial Scale Upgrades
·	safety hazards to trucks and employe	· · · · · · · · · · · · · · · · · · ·			concrete with Rebar to eliminate further ounts for all work that needs to be done after
Project Number	24-01	Capital Project Title	Cell 5&6 GRW	Capital Project Description	Cell 5&6 Gravity Retaining Wall Construction
·	installation of a critical sub-grade land	dfill leachate containment system (grout wa	rm north of cell 1&2 at 5 corners intersectio Il/curtain) and raising the clay containment t Leachate, Water, electrical etc) that current	perm from 130mAsI to 135mASL to ens	ure leachate capture from future landfill cells
Project Number	24-02	Capital Project Title	Hartland North Master Plan	Capital Project Description	Hartland North Master Plan
	With the recent completion of the ne with the existing landfill site	w Residuals Treatment Facilty and associate	d access and new scales at Hartland North, t	this design project will ensure that ther	e is adequate future planning and integration
1					
Project Number	24-05	Capital Project Title	Cell 5 Liner Construction	Capital Project Description	Cell 5 Liner Construction
	<u> </u>		vithin the new Cell 5 area and prevent any of collection and processing. Improvements	_	de an underdrain which will relieve pore ccess road and related infrastructure to allow
r					
Project Number	24-06	Capital Project Title	Cell 1, 2 & 3 Transition Liner	Capital Project Description	Cell 1, 2 & 3 Transition Liner
	transition between old cells of the lar		Cells 1 & 2 from garbage placed ontop of it f an underdrain which will relieve pore press		

Service: 1.521 **Environmental Resource Management** Project Number 24-07 Capital Project Title Relocation of N. Toe Road Sedimentation Pond Relocation of N. Toe Road Sedimentation Capital Project Description Pond Project Rationale The North Toe Road fresh water sedimentation collection pond sits ontop of Cell 1 garbage. The future Gravity Retaining Wall will be constructed ontop of the pond so it must be relocated. Capital Project Title NE & NW Aggregate Stockpile cover Capital Project Description NE & NW Aggregate Stockpile cover Project Number 25-01 Project Rationale This project allows for mitigation measures needed to protect the environment from minerals that may runoff the stockoiles from precipitation. Mitigation includes the deployement of a temporary impermeable membranes overtop the NE and NW, installation of ground/surface monitoring wells, improvement projects intended to intercept and convey impacted ground/surface water to leachate disposal collectors, including any consultant work required to design/direct staff on the mitigation measures. Capital Project Title North End Wheel Wash Capital Project Description North End Wheel Wash Project Number 25-02 Project Rationale This project accounts for a new commercial truck wheel wash system to be installed on the North End to ensure trucks don't track mud onto Willis Point Road. Project includes a temporary wheel wash needed until the final Cell 5 access roads are ready to be utilized. 25-03 Landfill Gas capture to meet New Federal Landfill Gas capture to meet New Federal Project Number Capital Project Title Regs Capital Project Description Regs Project Rationale Environment & Climate Change Canada has released a proposed Landfill Methane Regulation that is expected to come into force in Q1/Q2 of 2024, with the intent of reducing fugitive landfill emissions across the country. The regulation sets thresholds for surface emissions at landfills emitting more than 10,000 tonnes of CO2e per year (Hartland exceeds this). Based on required monitoring events, any surface methane concentrations that exceed proposed levels require a corrective action plan and mitigation within a specified timeframe. Based on current surface emissions data, it is expected that Hartland will need to implement additional controls, improve gas collection, or repair infrastructure to reduce surface methane concentrations to achieve compliance with these proposed limits. 25-04 Hartland Operating Certificate Renewal Hartland Operating Certificate Renewal **Project Number Capital Project Title Capital Project Description** Project Rationale Hartland's Operating Certificate (OC) has not been modified since January 27, 2010. CRD has committed to updating its OC in light of recent MOE diuscussion and approval of ERM's SWMP. This project covers staff time and consultant/legal fees to assist the CRD in updating the OC with the MOE. 25-05 Hartland Leachate Pipe Mods for Pigging Hartland Leachate Pipe Mods for Pigging Project Number **Capital Project Title Capital Project Description**

Project Rationale Leachate design, materials and installation to modify the leachate piping between HB-15 and the new RTF Centrate Line to reinstate pigging of the section of pipe between HB-15 and the Centrate return line).

Service:	1.521	Environmental Resource Manageme	nt							
Project Number	25-06	Capital Project Title	Quarry Wall liner	Capital Project Description	Quarry Wall liner					
·	•	installed due to accessibility during construct ucted when waste filling has reached the ele			ench and the existing liner in Cell 4 in toutle the supply, installation, QA/QC needed to install					
Project Number	25-07	Capital Project Title	Cell 4, 5A & 5B Construction Field QA/QC	Capital Project Description	Cell 4, 5A & 5B Construction Field QA/QC					
·	ensure the construction is installer pe	ture construction will occur over multiple ye er the design. The original design budget con a number of years which stretches the QA/C	ntemplated a 1 year installation of all capital	l improvements for Cell 4, 5 & 6 projec						
-										
Project Number	25-08	Capital Project Title	RNG Optimization Projects	Capital Project Description	RNG Optimization Projects					
Project Rationale	· •	ost and scope that were not originally conten with the new facility and other improvemen			· · · · · · · · · · · · · · · · · · ·					
Project Number	25-09	Capital Project Title	Hartland North - Willis P Driveway Upgrades	Capital Project Description	Hartland North - Willis P Driveway Upgrades					
·	Project Rationale The project includes all design and construction work to ensure there is sufficient passing room for large trucks to turn off Willis Point (WP) road onto the Hartland North Driveway and safely pass large trucks leaving the facility at the same time. Improvements include driveway widening, paving, realignment of fencing/gates, culvert extensions, lighting, signage, Overhead electrical improvements (if required), pavement markings, delineators and any other improvements needed to ensure the safety of the public, contractors and employees accessing the site.									
Project Number	25-10	Capital Project Title	Hartland North Electrical	Capital Project Description	Hartland North Electrical					
•	wash, kitchen scrap transfer station, electrical design and construction to	e Building at Hartland North is fed from a ter thermal pilot plant etc. There is no formal ag service the power requirements needed for I generator to ensure business continuity for the	reement or capacity for the RTF to provide Hartland North (aformentioned projects), in	power for the growing power demand cluding power poles/lines, transformer						

Service:	1.521	Environmental Resource Manageme	nt		
Project Number	25-11	Capital Project Title	Hartland Environmental Montoring and Containment Projects	Capital Project Description	Hartland Environmental Montoring and Containment Projects
Project Rationale	·	•	ew of current and future environmental convivironmental monitoring program at the Har		
Project Number	26-01	Capital Project Title	Cell 4& 5 Bottom Lift Gas Wells / Leachate Drain	Capital Project Description	Cell 4& 5 Bottom Lift Gas Wells / Leachate Drain
Project Rationale	heads, valves, condensation traps, mo		s are installed in each lift of refuse and have ed to each combination gas well and leachate		,
Project Number	26-02	Capital Project Title	Hartland 5 year DOCP update	Capital Project Description	Hartland 5 year DOCP update
Project Rationale			quires adherance to the BC Landfilling criteri ay 2027. The project includes the procurem		
Project Number	26-03	Capital Project Title	ERM Land Acquisition	Capital Project Description	ERM Land Acquisition
Project Rationale		cycling and diversion opportunities for the re cilities for future diversion, recycling or wast	egion requires the acquisition of land/facilitie e management requirements of the region.	es to accommodate the growing needs	of the region. This project includes those
Project Number	26-04	Capital Project Title	RTF Biogas Tie-In to RNG	Capital Project Description	RTF Biogas Tie-In to RNG
Project Rationale	and contributes to the CRD's carbon f	ootprint. There is opportunity to divert the		Renewal Natural Gas plant for to puri	ains an excess of biogas that is currently flared fy the gas and sell it to Fortis over its 20 year
					

1.521 Environmental Resource Management Capital Reserve Fund Schedule - ERM 2025 - 2029 Financial Plan

Capital Reserve Fund Schedule - ERM

Capital Reserve Fund ERM - Landfill Closure Portion, Capital Reserve Portion, and Recycling Depots Portion

Capital Reserve Fund Schedule

Bylaw 2164 established a Solid Waste Refuse Disposal Reserve Fund for the ERM Service (was called Solid Waste Service). There are three portions in the Reserve Fund: Landfill Closure, restricted funds to cover the liability of closing Phase 2 - 3 and post-closure maintenance. Capital Reserve is working capital and not restricted.

Landfill Closure Portion	Estimate	Budget					
Fund: 1020 Fund Centre: 101363	2024	2025	2026	2027	2028	2029	
Beginning Balance	13,670,125	14,227,150	14,691,373	9,164,880	5,647,857	6,140,493	
Planned Capital Expenditure (Based on Capital Plan)	-		(6,000,000)	(4,000,000)			
Transfer to/from Ops Budget	455,120	464,222	473,507	482,977	492,637	502,489	
Interest Income*	101,905	-	-	-	-	-	
Ending Balance \$	14,227,150	14,691,373	9,164,880	5,647,857	6,140,493	6,642,982	

Assumptions/Background:

Liability reserve to fund closure of Phase 2-3 and post closure maintenance.

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

Capital Reserve Fund Schedule

Capital Reserve Portion	Estimate	Budget						
Fund: 1020 Fund Centre: 101364	2024	2025	2026	2027	2028	2029		
Beginning Balance	12,211,415	9,267,416	8,797,406	5,617,406	3,487,406	2,207,406		
Planned Capital Expenditure (Based on Capital Plan)	(5,750,000)	(4,250,000)	(3,650,000)	(2,600,000)	(1,750,000)	(1,600,000)		
Transfer to/from Ops Budget	2,450,950	3,779,990	470,000	470,000	470,000	470,000		
Interest Income*	355,051	-	-	-	-	-		
Ending Balance \$	9,267,416	8,797,406	5,617,406	3,487,406	2,207,406	1,077,406		

Assumptions/Background:

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

Capital Reserve Fund Schedule

Recycling Depots/Compost Center Reserve Portion	Estimate	Budget					
Fund: 1020 Fund Centre: 102102	2024	2025	2026	2027	2028	2029	
Beginning Balance	15,918	19,918	23,918	27,918	31,918	35,918	
Planned Capital Expenditure		-	-	-	-	-	
Transfer to/from Ops Budget	4,000	4,000	4,000	4,000	4,000	4,000	
Ending Balance \$	19,918	23,918	27,918	31,918	35,918	39,918	

Assumptions/Background:

Reimburse operating budget for capital expenditures spent by Compost Center.

1.521 Environmental Resource Management Operating Reserve Summary 2025 - 2029 Financial Plan

Profile

Enviromental Resource Management

Bylaw 3867 - established Operating Reserve for the ERM Service to be used by the service for: mitigating fluctuations in tipping fee revenue and for covering operational expenditures as required, including debt servicing.

Operating Reserve Schedule

Operating Reserve Schedule	Estimate			Budget		
Fund: 1500 Fund Center 105509	2024	2025	2026	2027	2028	2029
Beginning Balance	22,707,937	8,669,820	8,893,860	8,799,295	7,242,080	5,095,563
Planned Purchase - RNG project	(12,381,000)	(1,000,000)				
Planned Capital Expenditure (Based on Capital Plan)	(3,500,000)					
Transfer to/from Ops Budget	1,011,772	1,224,040	(94,565)	(1,557,215)	(2,146,517)	-
Interest Income*	831,111			-	-	-
Total projected year end balance	8,669,820	8,893,860	8,799,295	7,242,080	5,095,563	5,095,563

Assumptions/Background:

Reserve for rate stabilization

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

1.521 Enviromental Resource Management ERF Reserve Fund Schedule 2025 - 2029 Financial Plan

ERF Reserve Fund Schedule

ERF: ERM ERF or PERS Fund for Equipment

Equipment Replacement Fund	Estimate					
Fund: 1022 Fund Centre: 101447	2024	2025	2026	2027	2028	2029
Beginning Balance	2,285,782	2,115,744	1,864,744	1,683,744	1,502,744	1,071,744
Planned Purchase (Based on Capital Plan)	(285,166)	(455,000)	(385,000)	(385,000)	(635,000)	(385,000)
Transfer to/from Ops Budget	115,128	204,000	204,000	204,000	204,000	204,000
Interest Income*		-	-	-	-	-
Ending Balance \$	2,115,744	1,864,744	1,683,744	1,502,744	1,071,744	890,744

Assumptions/Background:

ERF Reserve to fund replacement of computer equipment and for PERS (Prority Equipment Replacement) type equipment that lasts less than 15 years

^{*} Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.