

CAPITAL PROFILE REPORT

PROFILE NAME: EWMC FACILITY UPGRADE	FUNDED
PROFILE NUMBER: 12-33-2019	PROFILE STAGE: Approved
DEPARTMENT: City Operations	PROFILE TYPE: Composite
LEAD BRANCH: Waste Management Services	LEAD MANAGER: Denis Jubinville
PROGRAM NAME:	PARTNER MANAGER:
PARTNER:	ESTIMATED START: January, 2012
BUDGET CYCLE: 2009-2011	ESTIMATED COMPLETION: December, 2015

Service Category: Utilities	Major Initiative:
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GROWTH	RENEWAL	PREVIOUSLY APPROVED:	12,100
	100	BUDGET REQUEST:	-
TOTAL PROFILE BUDGET:			12,100

PROFILE DESCRIPTION

This project is to improve the efficiency and effectiveness of EWMC facilities. There is an ongoing need for capital to:

- 1) Improve ECF efficiency and adapt to the change in feed due to IPTF processing
- 2) Improve IPTF processing efficiency and implement changes as needed to lower operating and maintenance costs.
- 3) Improve Construction/Demolition processing efficiency and implement changes as needed to lower operating and maintenance costs.
- 4) De-bottleneck the Leachate treatment plant in order to increase throughput and deal with high levels of Leachate from the Clover Bar landfill. The current bottleneck is the solids handling system, so that will be the focus of the project.

Projects will be prioritized based on processing requirements and financial payback.

PROFILE JUSTIFICATION

Because of the non-uniform nature of municipal solid waste, it is difficult to consider all possibilities in the design of new facilities and processing systems. As new processes are commissioned and put into operation, requirements for improvements or changes often become clear. This project will ensure that new facilities are operating to maximum efficiency.

CHANGES TO APPROVED PROFILE

2015 Spring SCBA (AA#21): (CFO.5) To cover over expenditures in fund sources.

CAPITAL PROFILE REPORT

PROFILE NAME: **EWMC Facility Upgrade**
 PROFILE NUMBER: **12-33-2019**
 BRANCH: **Waste Management Services**

FUNDED
 PROFILE TYPE: **Composite**

CAPITAL BUDGET AND FUNDING SOURCES (000's)

	Prior Years	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total	
APPROVED BUDGET	Approved Budget												
	Original Budget Approved	14,797	-	-	-	-	-	-	-	-	-	14,797	
	2012 CBS Budget Adjustment	95	-	-	-	-	-	-	-	-	-	95	
	2013 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	
	2013 CBS Budget Adjustment	-2,780	-	-	-	-	-	-	-	-	-	-2,780	
	2014 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	
	2015 Cap Administrative	-	-	-	-	-	-	-	-	-	-	-	
	2015 Cap Release to Corp Pool	-12	-	-	-	-	-	-	-	-	-	-	-12
	Current Approved Budget	12,100	-	-	-	-	-	-	-	-	-	-	12,100
	Approved Funding Sources												
Post Closure Funding	96	-	-	-	-	-	-	-	-	-	-	96	
Self-Liquidating Debentures	12,004	-	-	-	-	-	-	-	-	-	-	12,004	
Current Approved Funding Sources	12,100	-	-	-	-	-	-	-	-	-	-	12,100	

BUDGET REQUEST	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
Budget Request	-	-	-	-	-	-	-	-	-	-	-

REVISED BUDGET (IF APPROVED)	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
Revised Budget (if Approved)	12,100	-	-	-	-	-	-	-	-	-	12,100
Requested Funding Source											
Post Closure Funding	96	-	-	-	-	-	-	-	-	-	96
Self-Liquidating Debentures	12,004	-	-	-	-	-	-	-	-	-	12,004
Requested Funding Source	12,100	-	-	-	-	-	-	-	-	-	12,100

CAPITAL BUDGET BY ACTIVITY TYPE (000's)

REVISED BUDGET (IF APPROVED)	Activity Type	Prior Years	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
	Other Costs	12,100	-	-	-	-	-	-	-	-	-	-	12,100
	Total	12,100	-	-	-	-	-	-	-	-	-	-	12,100

OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:																
	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE
Total Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CAPITAL PROFILE REPORT

PROFILE NAME: MATERIAL RECOVERY FACILITY RENEWAL (MRF)	FUNDED
PROFILE NUMBER: 13-33-2020	PROFILE STAGE: Approved
DEPARTMENT: Utilities	PROFILE TYPE: Standalone
LEAD BRANCH: Waste Services	LEAD MANAGER: Denis Jubinville
PROGRAM NAME:	PARTNER MANAGER:
PARTNER:	ESTIMATED START: January, 2013
BUDGET CYCLE: 2009-2011	ESTIMATED COMPLETION: December, 2016

Service Category: Utilities	Major Initiative:
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GROWTH	RENEWAL	PREVIOUSLY APPROVED:	1,980
	100	BUDGET REQUEST:	-
TOTAL PROFILE BUDGET:			1,980

PROFILE DESCRIPTION

This project will increase the throughput of the MRF facility by focusing on the rigid plastics line and providing a baler to handle external materials. An engineering study will be started in 2012 to fully define the required scope. It is expected that throughput can be raised from the current 18 tonne per hour average to 25 tonne per hour.

As the operation and maintenance contract for the MRF expires in 2013, the project has been split between 2013 and 2014 to allow the (potentially new) contractor time to get some experience with the facility before the design is finalized.

PROFILE BACKGROUND

Located at the Edmonton Waste Management Centre, the Materials Recovery Facility (MRF) is a nearly 6,000 square metre (64,000 square feet) facility that processes approximately 40,000 to 45,000 tonnes per year of mixed recycling material. Collected by the City's Blue Bags program, Blue Bins system and Recycling Depots, this material is processed into marketable product commodities such as cardboard, newsprint, metal, and various types of plastic, which are then sold to market as raw recycled materials for producing various recycled goods.

PROFILE JUSTIFICATION

The MRF facility currently has trouble keeping up with the amount of incoming material. The rigid plastics line equipment is at its end of useful life. The rigid line also presents a bottleneck for the whole process. This project will increase the overall production rate through the facility by replacing the rigid line equipment with newer equipment that can process more material with more efficiency. The baler will allow more materials (including those from other facilities) to be baled, while providing a back-up to ensure that a failure in the current MRF baler will not affect MRF production capacity.

STRATEGIC ALIGNMENT

This capital profile is aligned with the goals and objectives of "The Way We Green" in which it directly impacts the City's strategic goal of 90% residential waste diversion from landfill.

CHANGES TO APPROVED PROFILE

2017 Fall (#17-40) 2.2-24: Savings from 13-33-2020, 16-33-2017, CM-33-2005 and CM-33-2019 totaling \$20,275,500 will be released. These savings will be used to cover additional budget requirement for the Landfill Capping and Revegetation, Planning & Design and Groundwater Diversion initiatives. As a result, the re-costing of the Landfill Capping and the new profiles for the Planning & Design and Groundwater Diversion will not require additional overall Waste Utility budget funding.

CAPITAL PROFILE REPORT

PROFILE NAME: **Material Recovery Facility Renewal (MRF)**
 PROFILE NUMBER: **13-33-2020**
 BRANCH: **Waste Services**

FUNDED
 PROFILE TYPE: **Standalone**

CAPITAL BUDGET AND FUNDING SOURCES (000's)

	Prior Years	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
APPROVED BUDGET												
Approved Budget												
Original Budget Approved	2,680	-	-	-	-	-	-	-	-	-	-	2,680
2013 CBS Budget Adjustment	-1,710	-	-	-	-	-	-	-	-	-	-	-1,710
2014 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	-
2014 CBS Budget Adjustment	1,710	-	-	-	-	-	-	-	-	-	-	1,710
2015 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	-
2016 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	-
2017 Cap Council	-700	-	-	-	-	-	-	-	-	-	-	-700
2017 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	-
2018 Cap Budget Request for Next Cycle	411	-	-	-	-	-	-	-	-	-	-	411
2018 Cap Carry Forward	-	-	-	-	-	-	-	-	-	-	-	-
2018 Cap Release to Corp Pool	-411	-	-	-	-	-	-	-	-	-	-	-411
2019 Cap Release to Corp Pool	-	-	-	-	-	-	-	-	-	-	-	-
Current Approved Budget	1,980	-	-	-	-	-	-	-	-	-	-	1,980
Approved Funding Sources												
Self-Liquidating Debentures	1,980	-	-	-	-	-	-	-	-	-	-	1,980
Current Approved Funding Sources	1,980	-	-	-	-	-	-	-	-	-	-	1,980

BUDGET REQUEST		2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
Budget Request		-	-	-	-	-	-	-	-	-	-	-

REVISED BUDGET (IF APPROVED)		2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
Revised Budget (if Approved)	1,980	-	-	-	-	-	-	-	-	-	-	1,980
Requested Funding Source												
Self-Liquidating Debentures	1,980	-	-	-	-	-	-	-	-	-	-	1,980
Requested Funding Source	1,980	-	-	-	-	-	-	-	-	-	-	1,980

CAPITAL BUDGET BY ACTIVITY TYPE (000's)

REVISED BUDGET (IF APPROVED)	Activity Type	Prior Years	2024	2025	2026	2027	2028	2029	2030	2031	2032	Beyond 2032	Total
	Other Costs	1,980	-	-	-	-	-	-	-	-	-	-	1,980
	Total	1,980	-	-	-	-	-	-	-	-	-	-	1,980

OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:																
	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE
Total Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-