

Miawpukek Waste Management

July, 2018

From Zero to Hero...and well working on it...



Agenda: July, 2018

- Project Goals
- Current Situation
- Transfer Stations (Local and Regional)
- Collection Options
- Collection Business
- Composting Opportunities
- Future plan of action

Why are we here?

- Miawpukek recognizes that provincial and federal commitments to improved solid waste management will impact the community

Questions need to be answered...

- The Coast of Bays region is looking to create a waste management authority to deal with regional wastes
- Although a plan was prepared it has not been adopted...yet
- Can we, should we build a transfer station on reserve?
- Can we, should we build a regional transfer station?
- Can we, should we provide collection service to ourselves and others as a business?
- Can we pursue composting as a waste diversion?
- How do we prepare for changes?

Objectives for federal funding

- Support waste reduction and waste diversion on reserve through education, capacity building and establishment of household hazardous waste, diversion, recycling, and composting programs.
- Support sustainable, sensible solutions which are tailored to the needs of each community and address the entire waste stream.
- Encourage Municipal Type Service Agreements between First Nations and third party partners to move wastes into regulated solid waste management facilities.

Current situation



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus



Saint Alban's

Milltown

Milltown-Head of Bay d'Espoir

landfill

vi'omi - Conne River Band Council - Miawpukek First Nation

Conne River

off site land

Image © 2018 DigitalGlobe
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Google Earth

Estimated Time and Travel Distances							
Km/ Est. Time	St. Alban's	Milltown	Conne River	Harbour Breton	Boxey	Pool's Cove	Hermitage
St. Alban's		22km	42km	105km	104km	77km	102km
Milltown	15min		27km	87km	88km	62km	87km
Conne River	35min	20min		84km	85km	59km	84km
Harbour Breton	1hr. 20min	1hr 5 min	1 hr		81km	55km	48km
Boxey	1hr. 20min	1hr 5min	1hr	3 hr		42km	84km
Pool's Cove	1hr	45min	45min	40min	35min		55km
Hermitage	1hr. 20min	1hr 5min	1hr	35min	1hr	40min	

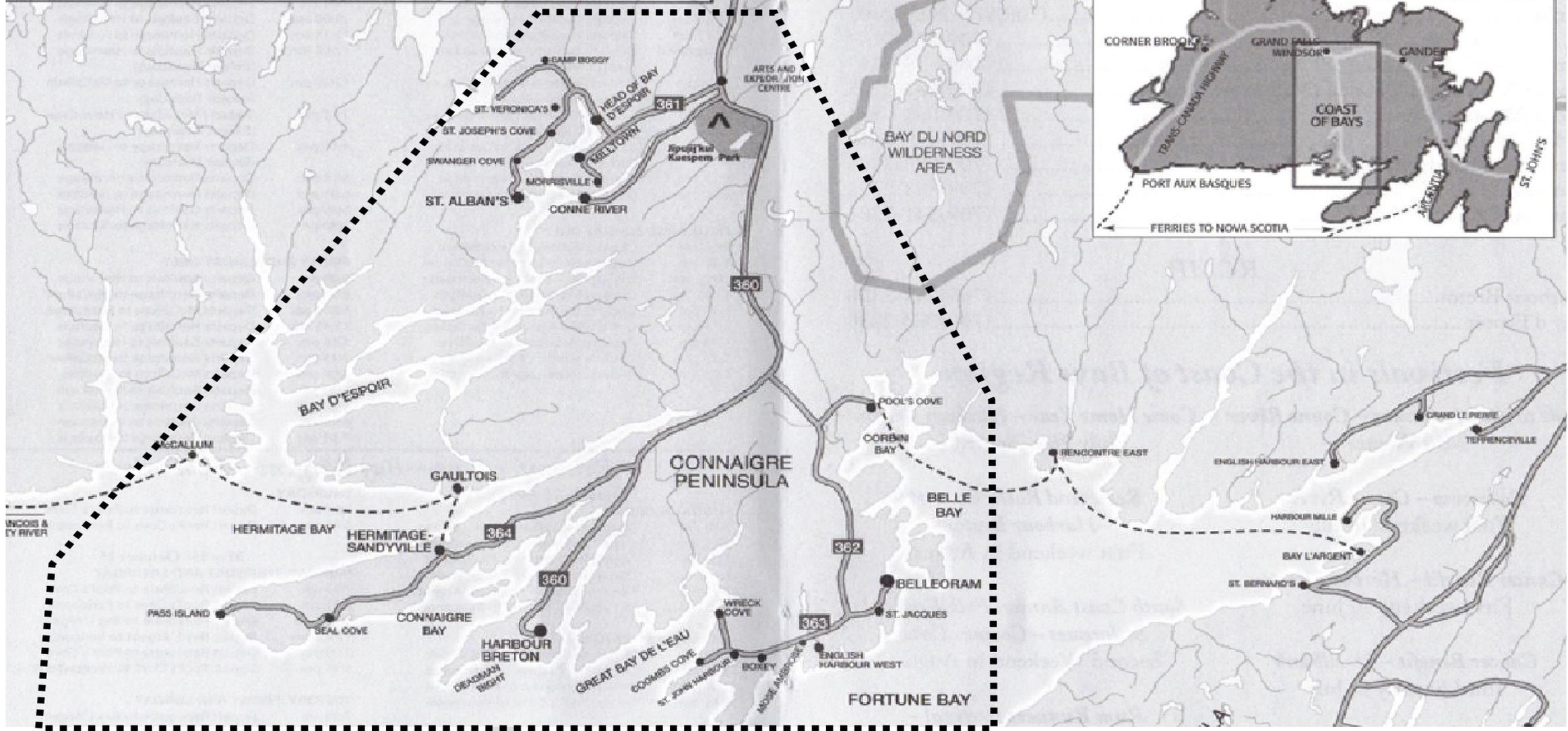


Figure 7: Coast of Bays Waste Management Area













Existing dumpsite

- Waste piled higher than ground level, not buried
- Lack of proper pits,
- Lack of cover material,
- Lack of site management (uncontrolled dumping),
- Lack of proper fencing,
- Unsuitable base material for waste, and
- Fires burning and HHW explosions occurred while on site

The site does not meet current provincial regulatory requirements and is scheduled for closure in 2020. This type of waste management site has the potential to cause significant impacts to local groundwater and surface water. Air quality is negatively impacted by the release of toxins and particulates when waste is allowed to burn.

Norris Arm





NO ENTRY

wm
C
CITY OF
WINDSOR
ON

DANGER
HIGH
VOLTAGE

GMC

CWL 955




CNWM
GARBAGE

GARBAGE
NO CARDBOARD

ESTABLISHED
KEEP OFF

**NO
SMOKING**



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DESKTOP PRINTERS	HOME AUDIO/VIDEO SYSTEMS
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EXPERT 2000
cnwm



How To Sort It!
It's easy as...

Community
March 2, 2015

1 Place recyclables in a

2 Place both bags at the curb or roadside weekly on your collection day.

3

Full Compliance by
March 30, 2015

IT'S A MANDATORY PROGRAM

CAUTION
THIS VEHICLE MAY FREQUENTLY STOP AND BACKS UP FREQUENTLY
STAY BACK 50M

SUNSHINE
CENTRAL
Recycling and Garbage Program

labrie

61328

4910







ACCENTWIRE

JBSTP

KEEP FROZEN

Compliments

N-TRIC















Method

01

Meetings

02

Surveys

03

Research

Meetings

- Met with Miawpukek interviewed staff and discussed the need for surveys
- Visited various dumpsites in use
- Met with St. Alban Mayor, chair of the Coast of Bays Committee
- Met with Ed Evans of Norris Arm Landfill and CNWM and toured landfill and transfer station
- Provided context for the current situation and future goals

Implications

- No matter what costs are going to increase
- Each community will soon need to pay for collection, hauling and disposal, increasing costs significantly
- This is not optional
- The coast of bays report proposes that costs be shared evenly by all communities so everyone pays the same collection, hauling and disposal costs
- This is a key barrier to acceptance of the plan

Waste Management Options

- Until the Coast of Bays Regional waste management authority is formed and the waste management plan is accepted there are options
- Miawpukek could benefit from federal funding now by transitioning from the dump to participation in the greater regional system
- Three options were examined
 - Direct haul by nation
 - Direct haul by CNWM
 - Transfer station development with out Coast of Bays

Develop a transfer station

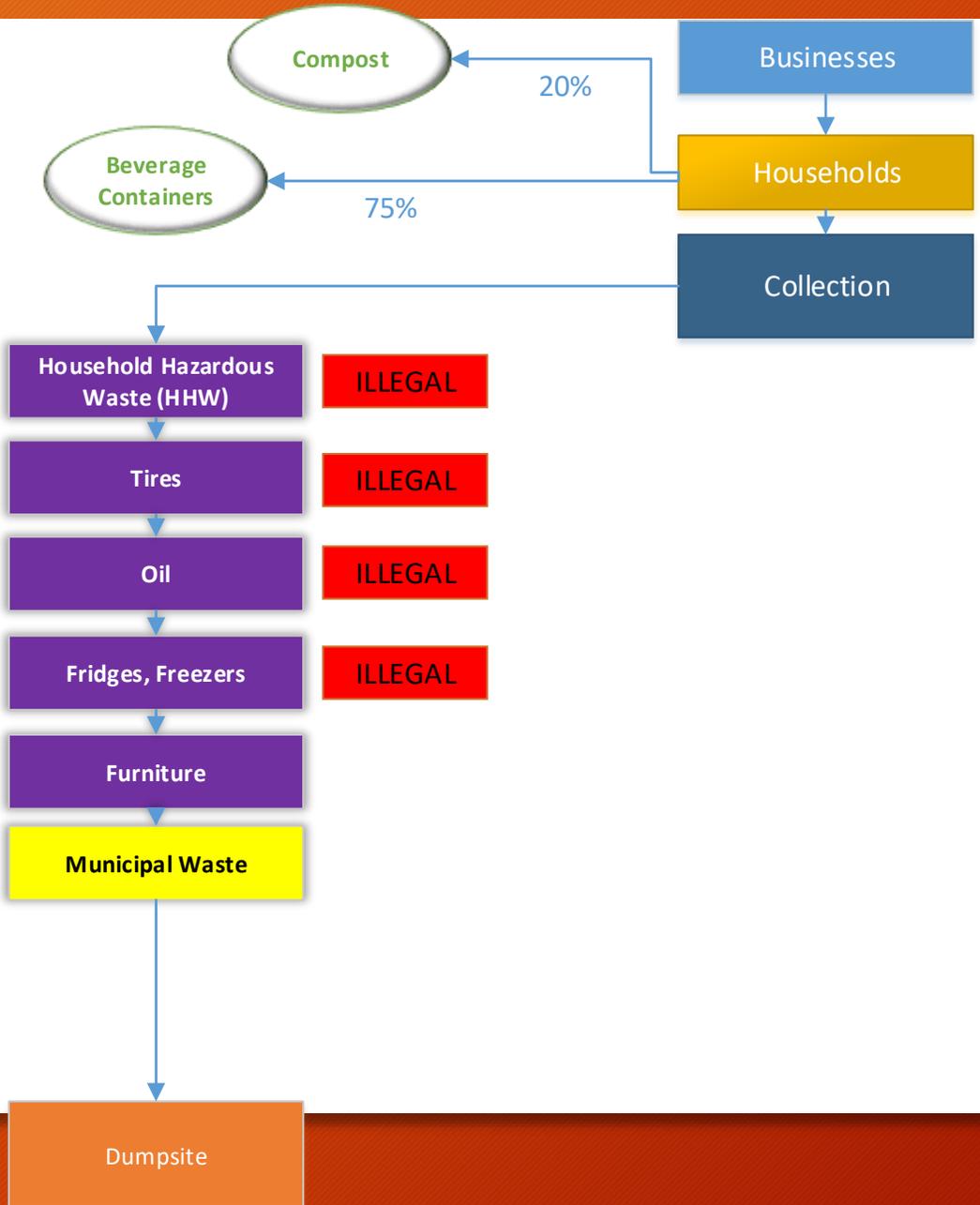
- Regional transfer station
- Capital costs of transfer stations are funded 99% by the province
- No economic case to pursue this option

- Local transfer station
- No suitable location that meets siting requirements
- No suitable location that meets access requirements
- Capital outlay offers no benefit and high environmental risk

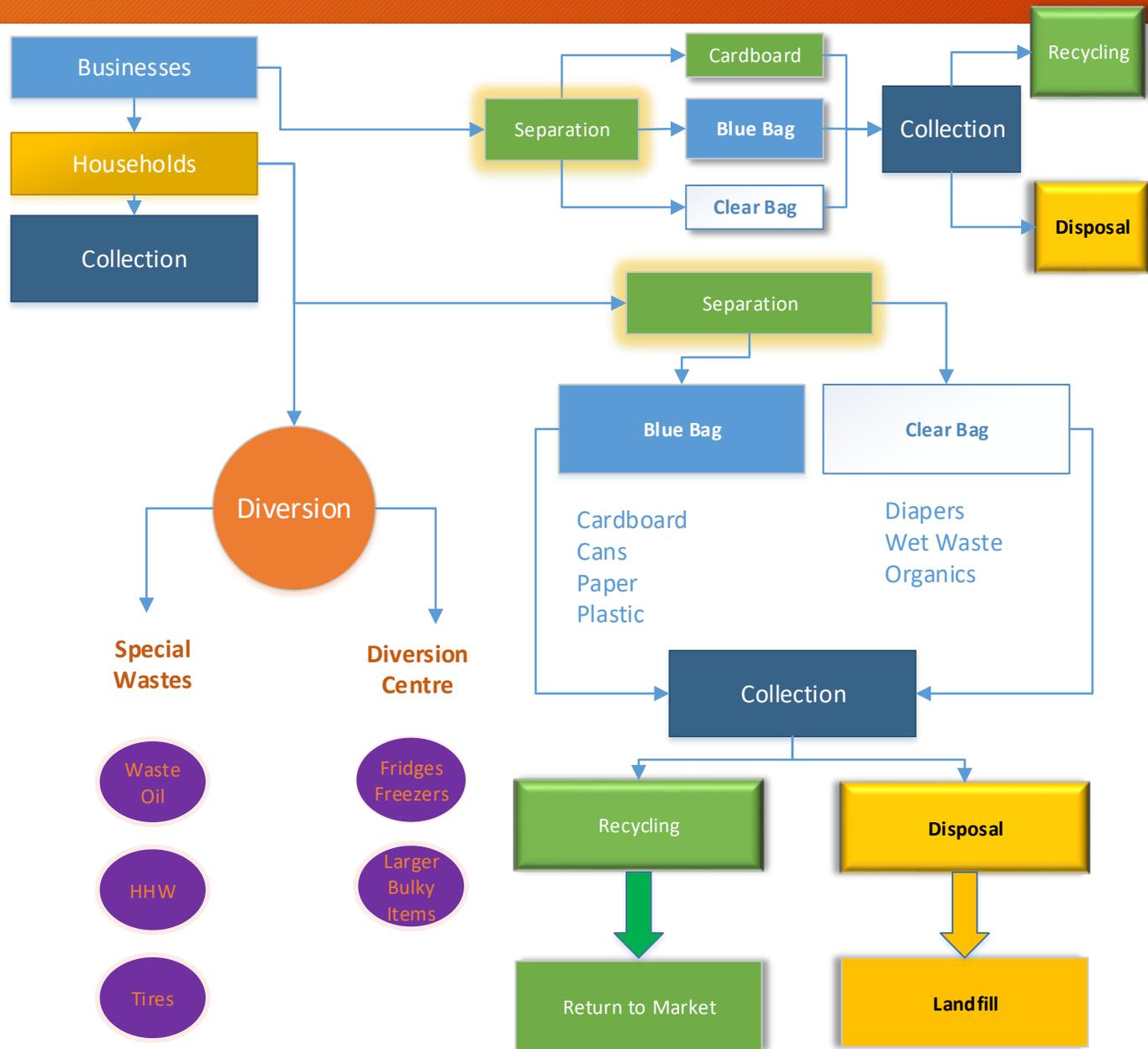
Diversion potential

- Cost savings can be realized over time by implementing waste diversion options
- Community awareness is key

Current Process



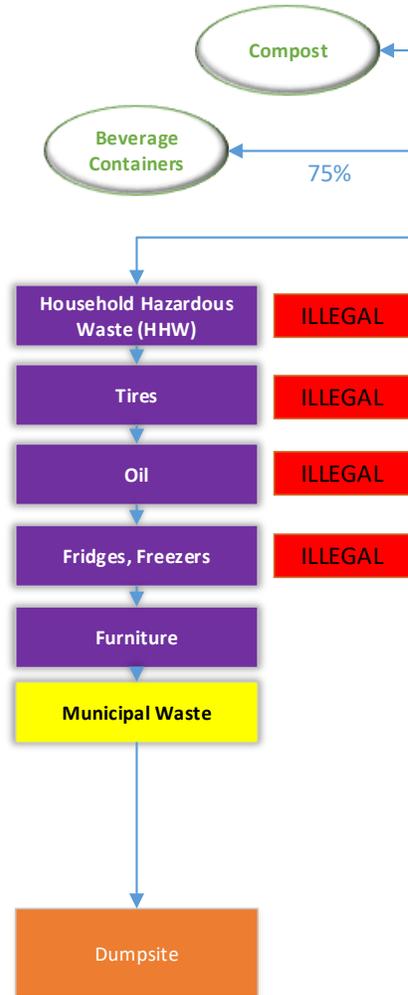
Proposed System



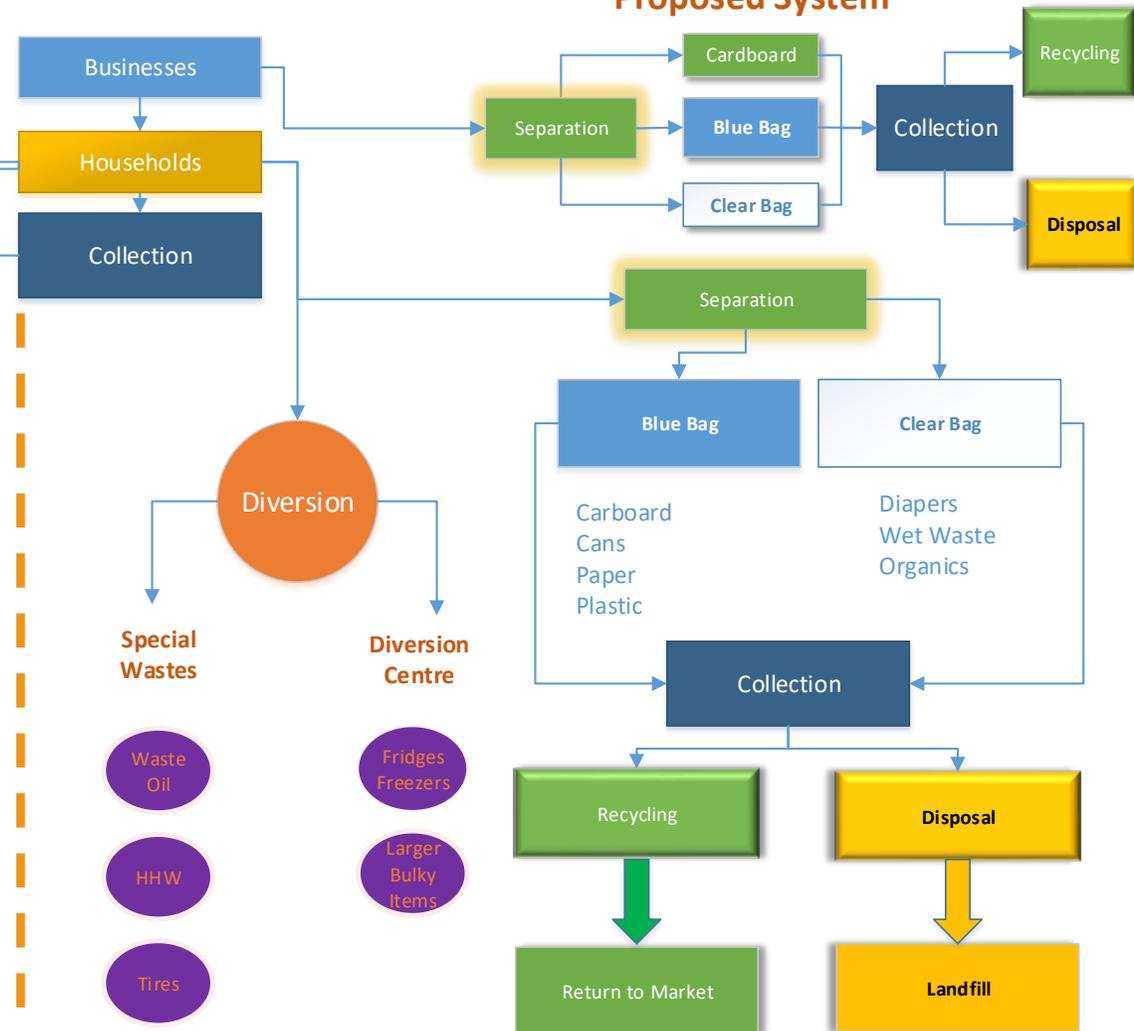


Miawpukek Waste Management Process

Current System



Proposed System



Implementation

- *Task 1 - Participate in the Coast of Bays Committee Work*
- *Task 2 - Develop and implement waste management laws and policies*
- *Task 3 - Negotiate collection and direct hauling services with CNWM as an interim measure until Coast of Bays is formed as a regional authority.*
- *Task 4 - Diversion Center for diversion of large bulky items*
- *Task 5 - Awareness, Education and Communications program*

2018 Update

- Continue to monitor Coast of Bays
- Developed draft waste management laws and community awareness process to harmonize with CNWM
- Community awareness app populated not finalized
- Community awareness program delivery plan is ready
- Created a diversion center operations plan for any location
- Reviewed suitable diversion center locations

2018 Update cont'd

- Started a backyard compost pilot program
- Completed a review of commercial business impacts and talked to businesses
- Negotiated conceptual collection and disposal deal with CNWM
- Pilot collection run completed in fall 2018
- Learned lessons from the pilot run on bin location, access and actual tonnages

Next Steps

- SMB Apps to provide on site training for app management and integration to other communication systems
- Finalize waste management laws currently in draft format
- Provide ongoing support for the backyard composters
- Address ICI gaps in the waste management approach (commercial businesses collection)
- Support PW in the management of non program tires, waste oil tank and waste oil filter crusher

Outstanding requirements

- Address lessons learned from pilot run
- Finalize site selection for the diversion center and construct it
- Identify suitable strategy and outreach with commercial businesses
- Need to fill gaps in the current program
 - PW Waste oil tank
 - PW waste oil crusher
 - PW needs non program tire storage

Challenges remain

- The dump is still there so people can choose to use it
- The Coast of Bays regional authority is slow moving