



WASTE MANAGEMENT

IOTENATATKWÉNIENS NE ONKWANÁ:TAKON

Mohawk Council of Kahnawà:ke

Annual Progress Report for Redevance Funding

Waste Management Plan Action Items

Period April 2021 to March 2022

Mohawk Council of Kahnawà:ke

Waste Management Department – Public Works

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June 25, 2022

As required by the Redevice program, this Annual Progress Report outlines the progress of action item activities undertaken for the period of April 2021 to March 2022, as identified in the Kahnawà:ke's 2016 – 2021 Waste Management Plan.

An Overview of Waste Management 2021-2022

Progress

Kahnawà:ke Community Compost is fully operational. Communications with the addition of summer students focused on education and awareness throughout the year. The waste management department continued to focus on education and awareness as recent waste and recycling to continue to improve on services.

The following table further outlines the initiatives and activities that have taken place by Kahnawà:ke's Waste Management Department within this reporting period.

Reporting period: March 2020 to April 2021

| Action Plan Item | Action / Measure | Description | Responsible | Schedule | Progress | Commentary |
|------------------|---|--|---|----------------------------|---|---|
| 1 | <i>Reduce by 30% the volume of the residential solid waste sent to landfill.</i> | | | | | |
| 1.1 | Collection Frequency | Evaluate the possibility to reduce waste collection frequency to once every two weeks. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019-2020 | Evaluation and progression is on going | <ul style="list-style-type: none"> Recycling volumes and compost participation have increased; however, we are not yet ready to move to a biweekly collection. Working towards uniform waste receptacles to facilitate waste collection. 1960 x 360L waste bins are still being distributed based on need and worker availability. . A complete survey will be done when distribution is completed to ensure everyone has a bin. All bin information is entered into GIS |
| 2 | <i>Recover 60 % of organic material, through home composting initiatives and organic collection service.</i> | | | | | |
| 2.1 | Backyard composting and grass-cycling and mulching program | Back yard composting workshops held in the park, as well as community events | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | Every 2 nd year | Complete On going/ yearly | <ul style="list-style-type: none"> Identified as an “every 2 year’ event, but it is carried out yearly. Eco patrol (summer student) communications and workshops were interrupted by covid 19 safety but managed to have 2 Kiosks in 2021 The 2 Kiosks - Compost bin distribution events provided an opportunity for community members to ask questions on composting and other waste diversion topics – but communications continued to be impacted by Covid 19 restrictions. |
| 2.2 | Residential and ICI composting survey | To develop baseline information to assist with the expansion of composting in Kahnawà:ke | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete & In progress/ updated regularly | <ul style="list-style-type: none"> Initiated in November of 2016 is on-going and updated regularly. Still on-going GIS Data base on participation is updated regularly |

| | | | | | | <ul style="list-style-type: none"> • Survey was conducted at community Kiosks located out doors. This also allows for greater visibility in the community. • Data has been entered into a GIS systems and surveys were not possible during Covid 19 regulations. |
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| Action Plan Item | Action / Measure | Description | Responsible | Schedule | Progress | Commentary |
| 2.3 | Community composting | Yard waste, and kitchen waste with community collection. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | yearly | Complete 100% of community has access drop off and door to door collection. | <ul style="list-style-type: none"> • Compost Facility is fully operational, and materials are composted using both the Extended Static and turned Aerated piles • Compost facility if open for drop offs year-round for both yard/brush and kitchen wastes – Monday – Saturday 8-4 pm • Door to door collection of organic waste is collected, and this service is offered weekly. |
| 2.4 | Evaluate the possibility of offering a source separated organics pick-up service | Decision on best way to proceed will follow the survey (2.2). | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete | <ul style="list-style-type: none"> • Truck and trailer – manual compost collection occurs daily |

| 2.5 | Communications - organic recovery program education | Information sessions, how to compost and troubleshooting, waste reduction. Publication of all the information on the web site, on radio, TV and other medias. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 and every 2 nd yr. | Complete Ongoing yearly | <ul style="list-style-type: none"> Communications Liaison along with the Eco-Patrol summer students (x1) hosted 2 information Kiosk. Communications was limited due to Covid 19 restrictions. information pamphlets are routinely updated with new information as needed. WWW.Kahnawake.com/wastemanagement.(currently down), and Recyclinginkahnawake on Facebook are effective means of community communications. |
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| Action Plan Item | Action / Measure | Description | Responsible | Schedule | Progress | Commentary |
| 3 | <i>Recycle 100% of municipal bio-solids</i> | | | | | |
| 3.1 | Recycle municipal sludge for agricultural use, with or without additional treatment | Valorization of Bio-solids | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete | <ul style="list-style-type: none"> 100% of Sewage Treatment Plant sludge continues to be valorized since 2013. |

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| 3.2 | Implement a septic tank cleaning program on a regular basis, based on needs (number of people and volume of the tank) database. | <p>The existing registry will be improved to identify and quantify all septic systems within the community. Location, capacity, last cleaning date, and functioning status will be compiled for each of them.</p> <p>Valorization of sludge will be required in the cleaning contract/ agreement, or the possibility to discharge the septic sludge at the treatment plant – to be evaluated.</p> | <p>Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke</p> <p>Infrastructure Operations Maintenance Manager - Mohawk Council of Kahnawà:ke</p> | 2018 | 2018 In progress | The Mohawk Council of Kahnawake implemented GIS software. A geodatabase is in ongoing development. |
| 3.3 | Septic system maintenance booklet. | This booklet will be distributed to all owners of an individual septic system and publicized on the MCK website. | Kahnawà:ke Waste Management Department & Infrastructure Operations Maintenance Manager | 2017 | Complete | A booklet has been prepared, is and is in distribution with the assistance of the department of water and sewer. |

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| 4 | Improve efficiency of the recycling program in order to Recycle 70 % of paper, cardboard, plastic, glass, and metal | | | | | |
| 4.1 | Increased recyclable collection efficiency | <p>Buy a rear load garbage truck</p> <p>Find solutions to recover valuable material (pop cans), and material currently collected but not accepted at the sorting center (clothes, electronics, batteries, etc.), and communicate changes.</p> | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete On going | <ul style="list-style-type: none"> Currently – collection using 360 L bins and automated side loader Pop cans and cardboard - separated, electronics, batteries, Hg bulbs, Oils, paints, tires, used cooking oil, refrigerated units and reusable items - separated, Low Waste Market – addresses clothing and household items – separated. |
| 4.2 | Cardboard Collection | Collect cardboard separately and emphasize information to ICI to further decrease cardboard sent to landfills | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete 100% of residence and ICI sector receive service once / week | <ul style="list-style-type: none"> Cardboard collection occurs weekly. Residential and ICI have access to a free once a week collection service and/or a “drop off” location is available at the Recycling Depot during work hours. Some of the ICI sector have agreements in place for their own cardboard recycling. |
| 4.3 | 360 Liter Recycling bins | Purchase one hundred (100) of 360-liter bins for recyclable material for a pilot project. Evaluate effects of quantity recovered. Depending on the results, phase in a bin replacement subsequent year. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 2018-2020 | Complete 100% of residence received a 360Lt recycling bin. | <ul style="list-style-type: none"> 100% of both residence and business have been assigned 1 or more 360 L recycling bin. |

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| 4.4 | Installation of recyclable collection bins during community events | Service offering to be developed to assist event coordinators to incorporate recycling as part of the waste disposal needs. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | yearly | Complete & On going | <ul style="list-style-type: none"> • 35 public Recycle / Waste bins were purchased for public spaces • Event bins are available to event organizers. |
| 4.5 | Recycling bins in public areas | Install recycling bins in public areas, such as the community services building, sports fields, arena, and install a board to promote recycling. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2018-2019 | Complete & On-going | <ul style="list-style-type: none"> • There was limited use of public facilities due to Covid 19 • There is the 2021 addition of 35 new Recycle / Waste bins that were purchased for public spaces for 2022 |
| 4.6 | Eligibility Quebec Recycling Subsidy | Recycling subsidy – Recyc – Quebec. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | Complete | Complete | <ul style="list-style-type: none"> • In the spring of 2017, we received notification of our eligibility for the Recycling Subsidy from Recyc- Quebec. |
| 5 | Improve efficiency of other recycling programs, especially for household hazardous waste (HHW), electronics and textile | | | | | |
| 5.1 | Electronics Recycling | Install an electronics drop-off point in collaboration with Electronic Products Recycling Association (EPRA) at the Transfer Depot or other convenient area. Inform people of the new service. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete On going 100% of dwellings & ICI sector is serviced weekly | <ul style="list-style-type: none"> • Electronics weekly special collection also takes place. • There is also a drop off location open Mon-Sat 8-4pm |

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| 5.2 | Household Hazardous Waste | Convenient and local collection bin for small HHW (ex. Batteries, etc...) could be installed. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete On going | <ul style="list-style-type: none"> Drop off is available at the Transfer Depot (Monday – Saturday 8-4pm), New Service – Propane tank recycling implemented in 2019. New Service – Frigo-responsible Nov 2020. Data not available currently. New Service 2021 – Reusable items shed – to promote reuse |
| 5.3 | Household Hazardous Waste collection events | Hold three seasonal HHW collection events – collection events. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 (1 / year) 2017 (2 / year) 2018 (3 / year) | Complete Ongoing | <ul style="list-style-type: none"> No collection events due to Covid 19 restrictions A weekly special collection service is available throughout the year, There is Drop off is available at the Transfer Depot (Monday – Saturday 8-4pm) |
| 6 | Recycle 70% of CRD waste coming from the building segment and infrastructure work. | | | | | |
| 6.1 | CRD waste disposal at the Transfer Depot | Implement a procedure to estimate the amount of incoming CRD waste and conceive a pricing list based on volume and type of material. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019 | In progress | <ul style="list-style-type: none"> Requires further development, and review Plans are underway for the construction of a new Transfer Depot facility to allow for the expansion of services and changes to operations. |
| 6.2 | Resources Directory for CRD Waste | Prepare a directory of available recycling and to contractors and general population. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete | <ul style="list-style-type: none"> A directory continues to undergo regular updates |
| 6.3 | Recycling solution for asphalt and concrete residues from all road infrastructure work | Other solutions may have to be found for other materials such as wood infested by Emerald ash borer, or others) A registry has to be developed to keep track of the recycling statistics. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 2021 | delayed | A sustainable cost-effective solution needs to be agreed upon |

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| 7 | Enhance information and awareness about waste recovery services and programs for residential, ICI and CRD sectors | | | | | |
| 7.1 | Enhance communication Plan | Improve diffusion of information concerning waste recovery services and programs for residential, ICI and CRD sectors: Up-graded Web site, distribution of information and educational materials on what is recyclable during annual events, etc. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete On going As services increase, communications are updated | <ul style="list-style-type: none"> • WWW.Kahnawake.com/wastemanagement • Facebook page was developed for Waste Management < Iotenatatkweniens ne Onkwaná:takon>, (recyclinginkahnawake) • All pamphlets were updated, new services were communicated to the community. • Eco Patrol assists with communications during the summer. • Information booths community events. • Regular updates • Communications was interrupted due to covid 19 restrictions. • Zoom subscription - meetings were used to continue with communications needs |
| 7.2 | Create a waste management booklet | To provide information on services, annual events listing, Do's and Don't's of recycling and composting, new initiatives and services at Transfer Depot, drop-off points, special collection day, 3R approach, etc. Update as needed. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete 2017 In-progress | <ul style="list-style-type: none"> • Zero Waste efforts, digital information and/or face to face discussions. More kiosks, and presence / booth at various events offering info, examples, and diversion services. |
| 7.3 | Organize educational workshops in schools and for youth | To promote recycling and composting, and environmental responsibility to the students. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete 2017 In progress / yearly | <ul style="list-style-type: none"> • Regular educational workshops were again interrupted in 2021-2022 due to covid 19 restrictions. • Preparing for 2022-2023 |

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| 7 | Enhance information and awareness about waste recovery services and programs for residential, ICI and CRD sectors | | | | | |
| 7.4 | Conduct a survey | To identify the needs of the ICI to improve waste management, and how the community could help them to reach the objectives. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete In progress 2017 | <ul style="list-style-type: none"> • Survey continues to be underway/ working with many to improve waste diversion. • Participation continues to improve. • New business open, and some close – on going • Communications were interrupted due to covid restrictions |
| 7.5 | Promote recycling program to the ICI sector. | Inform ICI on all the accepted items, and the procedure for larger quantity disposal. Create an "ICI package" based on the needs identified in action 7.4. This package will include information on waste diversion options and available programs. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019 | Complete In progress 2019 | <ul style="list-style-type: none"> • All Businesses have received a 360 Lt bin and are part of the regular collection of recyclable materials. • Many locations (organics producers) participate in the organic's collection / community composting program. • Businesses are approached and services and options are offered. • Plans are in place to address the changes to the can/bottle redemption program |
| 8 | Improve data collection system for all type of residential, ICI and CRD residual material. | | | | | |
| 8.1 | Improve data collection for recyclable materials | Buy a floor weighing scale for accurate results for material that is not otherwise weighed (refundable bottles and clothes for example). | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | Complete On going | <ul style="list-style-type: none"> • Floor scale was purchased, data is collected for all items that are recycled through this operation. • Tonnage reports are now also requested from the recycling center for the automated recycling truck. • Improved data entry with the establishment of a new data entry position 2020 -2021 |
| 8.2 | Improve data collection at the Transfer Depot | Number and category of users, quantity and type of recovered material, etc. Develop an electronic database for collection of the information. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 | In progress | <ul style="list-style-type: none"> • A new computer was purchased for the Transfer Depot data collection. • Continues to be a challenge due to volume of clients compared to staffing. • Training is ongoing – but seems to be difficult for current staff |

| 8.3 | Create a centralized database | All recycling, composting, and waste management data will be compiled by type of material, destination, and category of users. This will be helpful to identify progress and areas for improvement. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017 | Complete 2017 In progress Up grading | <ul style="list-style-type: none"> Data base has been established. The data will be merged into the new GIS software for improved data analysis and mapping. Data entry person was trained and is completing the data entry 2021-2022 Admin / Reception position added to assist with data entry |
|------------------|---|---|---|-------------|--|--|
| Action Plan Item | Action / Measure | Description | Responsible | Timeline | Progress | Commentary |
| 8 | Improve data collection system for all type of residential, ICI and CRD residual material. | | | | | |
| 8.4 | Make an inventory of all ICI and the waste management services they use, | Containers size and type of and collection frequency, for current practices and improvements. Could also be used to estimate the ICI sector residual material generated. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019 - 2020 | Complete 2019 In progress | Regular updates are required for the dynamic business listing. |
| 9 | Monitoring and Follow-up Measures | | | | | |
| 9.1 | Yearly Community Reporting | Prepare an annual report on Recycling and waste disposal, keep community informed and encouraged. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017-2018 | Complete 2017-2018 Yearly event | Lets Talk Trash community meetings were cancelled February 2020 and February 2021 due to Covid19. |
| 9.2 | Yearly Redevice Reporting | Prepare an annual progress report on the WMP 2016-2020 and transmit to MDDELCC | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017-2018 | Complete 2018-2019 In progress | Yearly |
| 9.3 | PGMR Up-date | 2021-2025 | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019-2020 | 2019 In progress | <p>Council approval was completed, and the draft plan is currently under consultation.</p> <p>New draft plan updates will be completed early in 2022 for submission and review.</p> |

Target Action Items for 2022-2023

Regain communications momentum lost due to covid restrictions with the promotion of many public events planned, while continuing to ensure personal safety for staff and community.

Continue to move forward with the focus on recycling contamination reductions through communications, education, and recycling audits.

A review/analysis on the Organics Collection and Composting Facility established in 2019 will be underway in 2022 to ensure compliance and efficiency.

Follow up on the Transfer Depot relocation and upgrade to meet the expanding needs.

88% of the current action items are complete, and ongoing yearly. A 2023-2028 Waste Management Plan is in draft form and has gone through community consultation. The WMP be forwarded for approvals soon. Some of the action items in the new plan are already being addressed.

Prepare for changes to the bottle redemption program and begin moving forward on the new action items identified in the 2023-2028 PGMR

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