

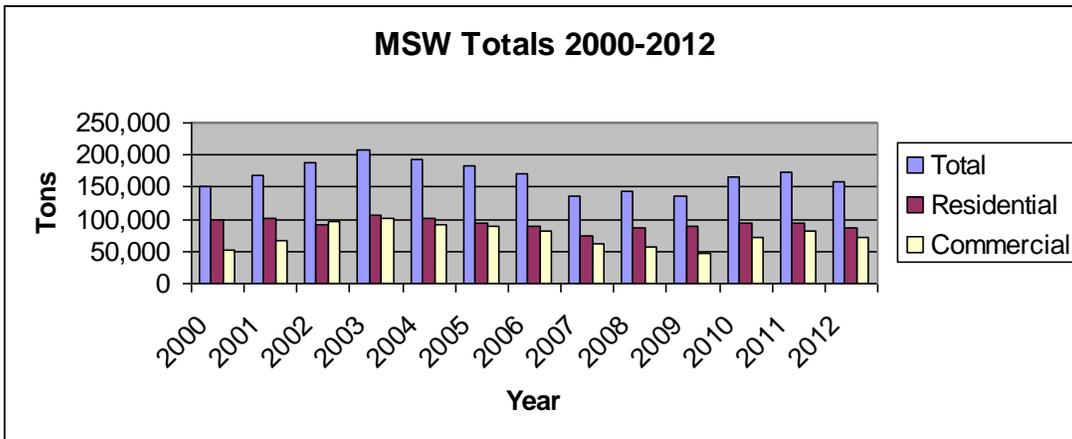
Town of North Hempstead

Solid Waste Management Authority

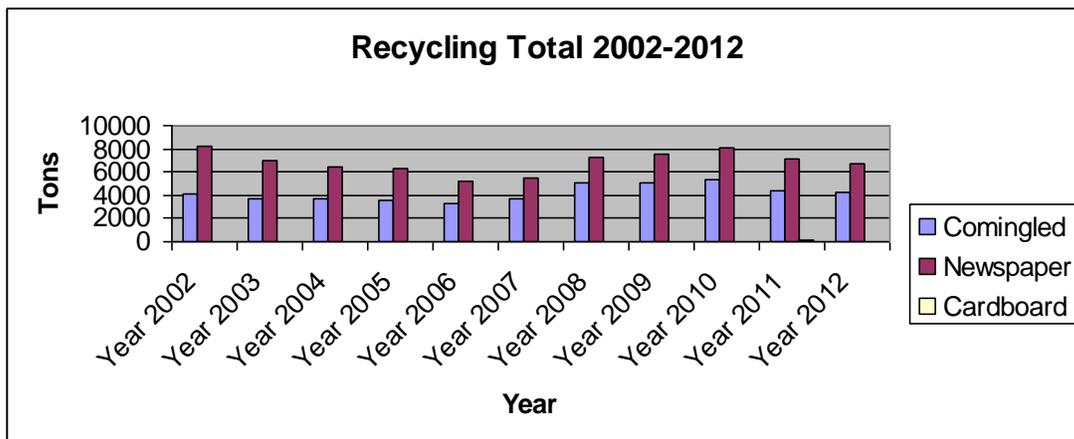
2012 Report

SWMA Operations and Accomplishments:

- Managed the operations of the Town's 225,000 ton per year transfer station
- Developed and managed the Authority's \$22 million budget
- Administered 5 garbage district contracts
- Maintained the L4 and L5 landfill including the gas collection system, leachate collection system and pump and treatment facility
- Handled constituent calls and complaints regarding waste collection services
- Implemented and managed town wide recycling initiatives
- Staff and operate 4 town-wide STOP events
- Operate the Town's resident drop location every Sunday
- Accepted, handled, and processed all debris associated with Super Storm Sandy
- The Flow Control law has allowed the Authority to secure waste flow into the transfer station and allow the Authority to track waste streams and recycling percentages.
 - The Authority has seen an upward trend in residential municipal solid waste totals since 2008. These totals have increased due to the placement of code enforcement personnel and the continuous surveillance of solid waste carters. With direction from the Authority, code enforcement and building department personnel have proven to be a noticeable help with the implementation and enforcement of Flow Control.
 - Flow Control and enforcement have yielded a 25% increase in total municipal solid waste throughput and has increased residential solid waste by 23% since 2008 and commercial solid waste numbers since April of 2010 by 63%.
 - The transfer station saw 225,000 tons of waste being processed this year, which is a 15,000 ton increase from 2011 with the majority of additional waste being yard waste from Super Storm Sandy. The largest decrease in waste received came from residential and commercial municipal solid waste. In 2012, the region saw a drop in solid waste island wide of about 20%. The Authority only saw a drop of about 10%.
 - Brought in over 55,000 tons of debris associated with Super Storm Sandy



- The collection of recycling material has seen a dramatic upward trend from 2008 to 2010, but in the past 2 years the Authority has seen a small downturn in recyclables collected. The placement of enforcement personnel, new environmental initiatives, and community awareness through education has played a significant role in achieving these statistics.



Year in Review

As you know, 2012 ended as a very busy year for the Authority with the handling of over 2 years worth of yard waste in a 2 month span. The year started out slow at the transfer station with a decrease of about 10% of inbound waste. The decrease in waste was seen throughout the Island most likely due to the down turn in the economy. However, it was a busy year on the landfill. Several of the landfill operating systems were overhauled to improve efficiency and operation. New and exciting recycling initiatives were implemented while old programs were enhanced.

The transfer station saw a large drop in residential and commercial waste received this year to a tune of approx 15,000 tons or 10% less than last year. The major reason for the drop in waste quantities which can be seen all over the island was the bad economy. While other areas of the island saw decreases of about 20%, SWMA's decrease of only 10% can be attributed to flow control and the addition of solid waste enforcement personnel. The overall throughput of waste to the transfer station increased from 210,000 tons to 223,000. The increase in total waste can be directly attributed to Super Storm Sandy.

Landfill maintenance is perennially an expensive and time consuming endeavor for the Authority. This year we have worked on upgrading the landfill gas collection system to enhance methane flow in an effort to eliminate the need for natural gas supplementation. We are on the verge of installing our new Flare will which will be the final piece in completing our overhaul of the landfill gas system. We have researched a better way to conduct our leachate treatment process and in 2013 we will be installing a new filtration process equipment for a 6 month trial period. This will give us a better understanding if the new process will effectively treat our leachate.

SWMA employees have been very instrumental in the implementation of the recycling programs, STOP programs, Pharmaceutical collection, and E-Waste collection events. All of these programs have required implementation strategies from their inception and require constant attention every single week. They have set up, distributed, and maintained recycling bins in schools, parks, and Town facilities. They have installed recycling bins and waste collection bins throughout the Town and along the Main Streets. SWMA personnel manages the day to day operations of all of the recycling initiatives implemented by the Supervisor's office and the Office of Sustainability.

The Authority has always acted as the waste management division for the Town and is daily receiving constituent calls regarding waste collection services, recycling questions, and complaints. All calls are handled quickly and all complaints are resolved as soon as possible. The Authority has developed a good relationship with the three largest vendors in the Town and is able to contact the proper channels and get results immediately. SWMA has

worked closely with the 311 group to enhance constituent questions and to develop more specific SR's increasing productivity and response time. As you can see from the chart an average of 502 calls are received per month for a total of 6034 calls in 2012 regarding solid waste questions and most have been answered within 24 hours.

SR TYPE	2012 Monthly Averages	
	# of SRs	Avg. Response
SWMA TOTAL	502	1.0
SWMA - Call Back	30	1.0
SWMA - Carting Complaints	9	1.0
SWMA - Compost SR	25	0.9
SWMA - e-Waste	28	1.0
SWMA - From Transfer	1	0.6
SWMA - Garbage Not Picked Up	11	1.2
SWMA - Informational	265	1.0
SWMA - Lost Property	0	0.0
SWMA - Recycling Informational	56	1.0
SWMA - Stop Program	77	1.0
SWMA - Strange Odor	0	0.0



The Authority received approx. 13,500 tons of recyclables in 2012. All recycling items ranging from paper, plastic, glass, and metal was received from residential collection, commercial collection, school recycling program, and metal recovery from residential collection and transfer station tipping floor recovery.



The E-Waste collection programs are yielding overwhelming totals of e-waste collected every year. This year we initiated a collection program at the SWMA administration building and it has turned out to be an overall success. Each day the collection bin is filled up with residents bringing in their used electronics. Combined with our STOP program collection of e-waste, our January school collection events, and our resident drop off e-waste, in 2012 we received **131 tons of e-waste**. Additionally, our new contract which was only implemented in September has yielded the Authority of \$5000 in revenue.

2012 has been the busiest year with inbound waste in the past 10 years. The transfer station brought in approx. **223,000 tons** of material for a 10% increase from last year. All waste was handled in a timely fashion and no set backs or violations had occurred.



Super Storm Sandy debris completely inundated the transfer and the landfill as can be seen in the picture. We took in just under **40,000 tons of yard waste** from the storm. We took in yard waste from all over the town, 21 town villages, outside villages, and other neighboring towns. All of the yard waste found its current resting place at either the landfill or North Hempstead Beach Park. The Authority anticipates grinding as much debris as possible and setting up a mulch and firewood distribution program in the Spring and Fall.



Through its office of Sustainability, the Authority continued the collection of Pharmaceutical waste at all of the STOP events and introduced collection of pharmaceuticals at each school district. This year, even with one less STOP event due to the storm we were able to collect **3050 lbs pharmaceuticals.**

In 2012, we introduced the Caps Back Program into 2 new private schools. We also started the May We Have Your Caps contest in which all schools participated in a Caps Collection event. With these new schools and new initiatives into this already successful program we have brought in just less than 2 tons of caps this year for a total of **3946 lbs.**



The Authority is constantly seeking ways to improve efficiency and conserve energy. We have consistently replaced lights, heaters, and other electrical appliances with high efficiency options. In 2011, the Authority took advantage of the LIPA Commercial Efficiency Program and in 2012 continued its progress and success in 4 other Town owned buildings. SWMA personnel installed 372 new High Intensity Fluorescent Fixtures (HIF) and LED lights throughout various departments. The fixtures cost the Authority \$29,000 in up front costs, but will be receiving a \$27,000 rebate check from LIPA. **The fixtures will conserve an estimated 100 kWh/year for a costs savings of \$20,000 per year.**



LIPA 2010 Commercial Efficiency Program

