

Municipality/Organization: City of Newton, MA

EPA NPDES Permit Number: MAR 041080

MaDEP Transmittal Number: W- W-039247

Annual Report Number No. 15

& Reporting Period: April 2017 – March 2018

NPDES PII Small MS4 General Permit Annual Report April 2018

Part I. General Information

Contact Person: James McGonagle Title: Public Works Commissioner

Telephone #: 617-796-1000 Email: jmcgonagle@newtonma.gov

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: Ruthanne Fuller

Title: Mayor

Date: 4/20/18

Part II. Self-Assessment

The City of Newton, Massachusetts has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for Minimum Control Measure #3 Illicit Discharge Detection and Elimination (IDDE). The City has found bacteria contamination in some of its storm drains and brooks, particularly in areas where sanitary sewer infrastructure is aging, underdrains are located, and underground pathways or conduits to our drainage systems exist. Newton is proactively investigating and eliminating illicit connections to the storm drainage system when discovered.

The following is provided to highlight key accomplishments made in Permit Year 15 with respect to MS4 General Permit goals and objectives.

Administrative

- Budgeted \$2,458,594 in FY18 for stormwater management and capital projects.
- A 20-year Stormwater Capital Improvement Plan was developed in 2015 with implementation commencing in FY16.

Programmatic & Drainage System

- Sections of storm drains are routinely inspected (video camera) for water quality issues (based upon sample results) and flow conveyance. As needed these drain lines are cleaned (i.e., roots cut and sediment removed) by DPW.
- A 10-year Sewer Capital Improvement Plan was developed and implementation commenced five years ago. Although Newton's sanitary sewers are separate from our drains, there are locations where indirect cross-communication between sewers and drains may occur due to aging infrastructure. The Sewer CIP rehabilitates and restores the sewer mains. During this reporting period:
 - 59,665 linear feet of sewers were lined with cured-in-place pipe;
 - 255 sewer manholes were sealed with cementitious lining; and
 - 58 underdrains ports were sealed.

Good Housekeeping & Illicit Discharge Detection and Elimination

- Our 2017 Household Hazardous Waste (HHW) collection program ran from May 6th through December 21st. Last year, we collected several tons of HHW and Universal waste material that may otherwise find its way into the trash or the storm drain system. A summary of HHW collected is provided in Attachment A. Please visit our website for more information on our recycling programs:
<http://www.newtonma.gov/gov/dpw/recycling/default.asp>
- The Parks and Recreation Department strives to use minimal fertilizers and pesticides. Last year, no pesticides were used on City owned land.
- We monitor all our exterior stormwater outfalls that discharge to the Charles River and our inter-municipal connections through wet and dry weather sampling.

Public Education and Involvement

- Several activities and events listed in the following table.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
1.1 Revised	Develop Stormwater Press Release	DPW Utilities, M. Rose	Submit annual press release to newspaper / CATV.	In May 2017, our Parks & Recreation Dept. and Crystal Lake Conservancy prepared a reminder notice with pollution prevention tips and mailed it to all property owners in the Crystal Lake watershed. In mid-September 2017, we posted tips for draining swimming pools on the City's website. Copies provided in Attachment B.	Submit an article to the NewtonTAB on phosphorus in fertilizers and the State ban of these.
1.2 Revised	Develop Stormwater Web Site	DPW Utilities, M. Rose	Prepare web site on stormwater issues.	Complete. http://www.newtonma.gov/gov/dpw/water/stormwater.asp	None, BMP complete. Continuance under BMP 1.4
1.3 Revised	Develop Stormwater Brochures	DPW Utilities, M. Rose	Distribute brochures to target groups	BMP complete. We distribute door hangers in neighborhoods when pet waste is found in our storm drains.	BMP Complete. However, new brochures and literature will be added to our stock, as needed.
1.4 Revised	Provide Stormwater News on City's web site	DPW Utilities, M. Rose	Post stormwater and/or project news once per year	Stormwater information and news is posted on the main page of the City of Newton's website and our Stormwater web page.	Maintain and update stormwater web page as needed.
1.5 Revised	Establish Volunteer Database	DPW Utilities, M. Rose	Solicit volunteer educators to promote awareness of water quality	Database established and is used mostly to encourage participation in Annual Charles River Clean-up.	None, BMP complete.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
1.6	Partner with Schools	DPW Utilities, M. Rose	Obtain and distribute educational resources to schools.	This year we purchased an Enviroscope watershed model and began using it for school visits and community fairs. During this reporting period, staff visited the Jackson School to give an interactive presentation using our Enviroscope model (for the 5 th grade classes).	Continue with implementation of various school education and partnering programs.
Revised					
1.7	Develop Education Program	Environmental, M. Rose and W. Trabert	Implement stormwater pollution prevention program	April is öGreenUp Newtonö where we promote and/or host educational programs at locations throughout the City including: the annual Charles River clean-up, a composting event and community swap day. On October 15, 2017 we participated in Newton's Green Expo coordinated by Green Newton. We had three booths / table areas for residents to obtain information on general DPW operations, our Recycling and Composting program and Stormwater Matters. In addition to our educational efforts, Green Newton, the Newton Conservators and Crystal Lake Conservancy offer workshops, special events and newsletters that educate our community on a variety of topics, including natural landscaping, pesticide reduction, recycling, how to reduce our carbon footprint and more. <i>See Attachment B</i> for more information and visit www.greendecade.org and www.newtonconservators.org	Continue promoting water conservation, organic and environmentally-friendly lawn care methods and no phosphorus fertilizers.
Revised					
1.8	Partnering with Watershed Associations	Engineering, L. Taverna DPW Utilities, M. Rose	Attend meetings and partner with the Crystal Lake Working Group	Newton supports CRWA programs and initiatives. In 2012 the öCrystal Lake Working Groupö was formed under the direction of the Parks & Recreation Dept. This group is comprised of members from Crystal Lake Conservancy, Friends of Crystal Lake, residents and City Staff. The mission is to preserve and protect the Lake for all users to enjoy.	Maintain collaboration with the CRWA and/or the Crystal Lake Working Group.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
2.1	Establish Stormwater Advisory Committee	DPW Utilities, L. Taverna	Committee to meet once per year	BMP Completed in prior years.	None.
Revised					
2.2	Implement Public Meetings for Citizen Input	DPW, D. Turocy M. Rose	Hold meetings once per year, publish results.	Opportunities for public input include Public Facilities and other Board of Alderman sub-committee meetings, as well as the Crystal Lake Working Group meetings.	None, coverage under new Permit.
Revised					
2.3	Encourage Citizen Communication and Reporting	Engineering, L. Taverna	Establish stormwater hotline for illicit discharges.	This year we had no reports of illicit discharges into our storm drains.	BMP Complete. Continue with current protocols.
Revised					
2.4	Network with Local Community Groups	Engineering, M. Rose D. Turocy	Observe outfalls, report illicit discharges & stream clean-up.	Staff attends meetings with the Crystal Lake Conservancy. We support their efforts and address any concerns as the need arises.	Continue to provide support to these groups and foster a partnership approach with the City.
Revised					
2.5	Implement Storm Drain Marking Program	Utilities, T. Jerdee M. Rose	Volunteers mark catch basins with decals.	BMP Complete. Permanent storm drain markers were installed next to catch basins in village centers in Year 5	BMP Complete. Continue with storm drain marking program as need arises.
Revised					
2.6	Promote Community Clean-Up day	Parks & Recreation; & M. Rose	Promote annual community clean-up day	Newton Serves was held on April 30, 2017. Volunteer groups target specific areas of the City for clean-up and revitalizing. For more info, see Attachment B or: http://newtoncommunitypride.org/NewtonSERVES.html	Continue with annual community clean-up day.
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
3.1	Establish Stormwater System Map	DPW Utilities, F. Russell	Update GIS information, locate all outfalls.	BMP previously completed.	BMP Complete.
Revised					
3.2	Establish Stormwater Database Management System	Utilities, T. Jerdee	Add stormwater information to Hansen database.	BMP previously completed.	BMP Complete.
Revised					
3.3	Locate and Inspect all Outfalls	Utilities, T. Jerdee & M. Rose	Collect outfall data for Hansen database.	BMP previously completed.	Continue with monitoring and sampling program.
Revised					
3.4	Review existing Ordinances & determine whether they adequately prevent Illicit Discharges	Engineering, L. Taverna DPW Utilities,	Propose to BOA revisions to stormwater ordinance/ policies, as appropriate	A new ordinance "Prohibition of Illicit Discharges to the Storm Drain System" was approved by City Council on April 18, 2017. The Ordinance is in Chapter 29, Section V.	BMP Complete.
Revised					
3.5	Identify Illicit Discharge Sources	Utilities, T. Jerdee M. Rose	Identify bacteria sources via visual and CCTV inspections, dye and/or pressure tests.	DPW continually monitors and investigates indirect and direct illicit discharges to our storm drainage infrastructure. This reporting period we inspected all our outfalls during dry weather and collected samples, if water is flowing.	Continue with efforts to find and remove indirect and direct illicit discharges.
Revised					
3.6	Establish Illicit Discharge Hotline	DPW Utilities, M Rose	Receive and track citizen reports of illicit discharges.	Hotline established (customer service center). We did not receive any tips or complaints during this reporting period.	BMP Complete. Continue to encourage citizen reporting of illicit discharges.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
3.7 Revised	Train Employees	DPW Utilities, T. Jerdee	Employees to help identify illicit discharges.	During this reporting period, three people were sent to a DOT Training on Hazardous Waste Shipping (March 9, 2017). Training was also provided to personnel who work at our Recycling Center on HHW collection days.	SPCC Implementation and awareness training is planned for next year.
3.8 Revised	Monitor City's infrastructure for illicit discharges and non-point source pollution	DPW Utilities, T. Jerdee M. Rose	Observe major outfall discharges.	<p>A written IDDE Plan was developed and prepared by our consultant, Woodard & Curran. Implementation of a comprehensive investigation of our storm drainage infrastructure commences in April 2018.</p> <p>In addition, we continue to monitor our major outfalls and inter-municipal connections via annual inspections. All of these locations were inspected during dry weather and samples were collected, if water was flowing. Wet weather sampling was also conducted for a smaller portion of our outfalls.</p>	Continue with implementation of IDDE program.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
4.1	Review existing Ordinances and determine whether they adequately regulate construction site stormwater runoff	Engineering, L. Taverna	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating construction site stormwater runoff.	Currently, there are numerous mechanisms through which construction site runoff is prevented and controlled. These mechanisms include: an existing Ordinance (Sec 30-5c and 5d), DPW / Eng. Division Policy and the Special Permit approval process. Most construction projects regardless of size are required to provide soil erosion control measures. DPW has two inspectors who ensure the measures shown on Approved Site Plans are implemented.	Develop language to strengthen the existing ordinance or replace it with a more comprehensive soil erosion control ordinance.
Revised					
4.2	Implement Review of Construction Documents	Engineering, J. Daghlian	Establish policy for submittal of erosion control plans.	BMP Complete.	BMP Complete. Continue with plan reviews for building permits.
Revised					
4.3	Implement Construction Inspection Program	Engineering, J. Daghlian	Develop guidelines, training, inspection of construction sites > 1 acre.	All construction sites inspected by Engineering. BMP guidelines followed.	Continue with inspection of all construction sites. Develop training for construction inspectors.
Revised					
4.4	Educate Developers on Proper Erosion Control Techniques	Engineering, J. Daghlian / M. Rose	Distribute erosion control procedures to all applicants.	Engineering requires erosion control BMPs for all construction.	BMP Complete. Continue with implementation.
Revised					
4.5	Provide opportunity for citizen review and input on construction projects	Engineering, J. Daghlian	Ensure citizen review procedures for construction projects > 1 acre.	Citizen input of construction projects occurs during Conservation Commission, Land Use, and Board of Survey public hearings. Citizen review also occurs when Environmental Impact Reports are required.	BMP Complete. Continue with implementation.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
4.6	Establish Information Management System	Engineering, J. Daghlian	Track construction reviews and construction inspections.	An inspector is assigned to all construction projects × 1 acre (as well as many < 1 ac). This person maintains a personal field log book of key events.	BMP complete. Continue with implementation.
Revised					
4.7	Establish Standards for Erosion and Sedimentation Controls	Engineering, J. Daghlian	Establish adaptation of MADEP SWM Standard 8	Engineering requires implementation of MADEP SWMP Standard 8 for all construction projects > 1 acre.	BMP Complete. Continue with implementation.
Revised					

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
5.1	Review existing Ordinances and determine whether they adequately regulate post construction stormwater runoff	Engineering, L. Taverna	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating post construction stormwater runoff	BMP Completed in prior year.	BMP Complete.
Revised					
5.2	Develop Stormwater Management Policy	Engineering, L. Taverna	Establish policy to establish minimum BMPs for developers.	BMP Complete. Continue with implementation.	BMP Complete. Continue with implementation.
Revised					
5.3	Develop Stormwater Operations and Maintenance Policy	Engineering, J. Daghlian	Establish policy to establish minimum operations and maintenance plans.	Engineering requires the submittal of stormwater operations and maintenance plans for construction projects >1 acre.	BMP Complete. Continue with implementation.
Revised					
5.4	Implement Controls to Minimize Impacts to Water Quality	Engineering, J. Daghlian and Utilities, M. Rose	Implement use of structural and non-structural BMPs.	DPW/Eng. requires developers to implement MADEP Stormwater Standards (1- 8) for applicable projects. Separate and supplemental requirements are outlined for smaller construction projects in the City's Stormwater Management Policy.	BMP Complete. Continue with implementation and stormwater recharge requirements.
Revised					
5.5	Encourage Reducing Directly Connected Impervious Surfaces	Engineering, J. Daghlian M. Rose	Encourage the use of grass swales and filter strips.	Recommended to developers during development review team meetings.	Continue to recommend for all construction projects > 1 acre. Continue to be a resource for developers and homeowners on alternatives to asphalt pavement.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
5.6 Revised	Determine Capacity of Stormwater System Elements	Engineering, J. Daghlian & Dir. of Utilities	Perform capacity analysis for wet weather events.	No hydraulic analysis of culverts or drain pipes was performed this year.	BMP Complete.
5.7 Revised	Review Ordinances & determine whether they adequately regulate recharges to groundwater	Engineering, J. Daghlian	Obtain Law Dept's opinion regarding existing practice and appropriateness of regulating recharges to groundwater	Current practices include on-site stormwater recharge requirements for new construction and redevelopment projects.	BMP Complete.
5.8 Revised	Implement Use of Groundwater Recharge Rates	Engineering, J. Daghlian	Explore adaptation of MADEP SWMP Standard 3	Engineering requires implementation of MADEP SWMP Standard 3 for all construction projects > 1 acre.	BMP Complete.
5.9 Revised	Implement Post Development Peak Discharge Rates	Engineering, J. Daghlian	Implement adaptation of MADEP SWMP Standard 2	Engineering requires implementation of MADEP SWMP Standard 2 for all construction projects > 1 acre.	BMP Complete.
5.10 Revised	Implement Requirements for Removal of 80% TSS	Engineering, J. Daghlian	Implement adaptation of MADEP SWMP Standards 4 & 7	Engineering requires implementation of MADEP SWMP Standard 4 & 7 for all construction projects > 1 acre.	BMP Complete.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
6.1 Revised	Develop Staff Training Program	Environmental, E. Gentile M. Rose	Train staff on spill prevention control, vehicle maintenance and lawn care.	We organize and often host quarterly meetings with our surrounding communities via a consortium called: the <i>Charles River Watershed Stormwater Collaborative</i> . The presenters we engage provide valuable training and the consortium provides opportunities to share ideas and information.	SPCC Plans are currently being updated. Upon completion, review training needs to ensure compliance.
6.2 Revised	Develop Stormwater Pollution Prevention Plan	Environmental, E. Gentile M. Rose	Develop spill prevention control procedures.	Training on spill control measures was completed in prior years. We are in the process of developing a Stormwater Pollution Prevention Plan (SWPPP) for the DPW Yard.	Complete a SWPPP for DPW Yards.
6.3 Revised	Develop Flood Mitigation Plan	Utilities, T. Jerdee	Develop plan, perform exercises.	BMP Complete.	Continue field exercises and update the flood mitigation plan, as needed.
6.4 Revised	Establish Inspection Procedures	Utilities, T. Jerdee	Inspect storm drain system using visual inspection and CCTV.	Storm drains are inspected with our CCTV truck on an as needed basis and: to troubleshoot infrastructure problems, prior to pavement restoration and as part of the IDDE program.	Continue to inspect storm drain system.
6.5 Revised	Incorporate BMPs into Standard Procedures	Utilities, T. Jerdee	Establish BMPs for municipal operations and maintenance.	Stormwater BMPs are designed into new or redevelopment projects for City-owned property, most recently would be the new Zervas School which includes a section of permeable pavement and on-site stormwater management BMPs.	BMP Complete. Review needs for other stormwater retrofit / improvement projects.
6.6	Establish Maintenance Procedures	Utilities, T. Jerdee	Vactor/flush storm drains to remove sedimentation	Cleaned approximately 5780 LF of the City's storm drainage system and 5545	BMP Complete. Continue with implementation.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
Revised				catch basins were cleaned during this reporting period.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
6.7 Revised	Establish Maintenance Procedures	Utilities, T. Jerdee	Clean drainage brooks to remove sedimentation.	No drainage channel or brook maintenance work was completed during this reporting period.	Begin funding work in our Stormwater Infrastructure Improvement Plan.
6.8 Revised	Establish Maintenance Procedures	Utilities, T. Jerdee	Clean catch basins every 2 years.	We cleaned 5545 catch basins during this reporting period. However, another 1917 catch basins were cleaned in March 2017, which did not get reported in our previous annual report.	Continue with catch basin cleaning program. Annually we clean half of our 13,000 catch basins (between 6000 - 6500 per year)
6.9 Revised	Establish Maintenance Procedures	Highway, Shane Mark	Sweep streets 2 times per year.	All city streets were swept a minimum of 4 times in 2017 with village centers and main streets swept 5 times per week for 36 weeks of the year.	Continue with street sweeping program.
6.10	Establish Maintenance Procedures	Shane Mark	Calibrate salt spreaders annually.	Salt spreaders calibrated fall 2017.	Calibrate salt spreaders every year.
6.11 Revised	Implement Household Hazardous Waste Program	Environmental, E. Gentile	Collect waste oil, antifreeze, paint, pesticides.	Household Hazardous Waste (HHW) is collected two days per month year round.	BMP Complete. City will continue to operate HHW collection facility.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 16
7.1 Revised	Check Criteria for Meeting TMDL	DPW Utilities, M. Rose	EPA criteria for TMDLs checked.	None, this reporting period.	Work towards reducing phosphorus load from Newton's brooks and conduits to the Charles River.
Revised					
Revised					
Revised					

7a. Additions –N/A

7b. WLA Assessment – N/A

Part IV. Summary of Information Collected and Analyzed

Please refer to Part IIA ó Self Assessment for the City summary of information collected and analyzed.

We are hopeful that the information provided is adequate to demonstrate our commitment to improving our SWMP and ultimately ensuring the quality of our stormwater discharges meets or exceeds standards.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic:

Stormwater management position created/staffed ó Environmental Engineer	(y/n)	Yes
Annual program budget/expenditures (catch basin cleaning, staff (9), operations and maintenance; and capital projects) for FY18	(\$)	\$2,458,594

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	10%
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y (Charles river)
Shoreline clean-up participation or quantity of shoreline miles cleaned (during 18 th Annual Earth Day Charles River Cleanup; numerous community groups participated in Newton)	(y/n or mi.)	5 miles
Household Hazardous Waste (HHW) Collection Days (<i>May 2017 to March 2018</i>)		
▪ Days sponsored	(#)	22
▪ Community participation (2 nd percentage indicates normal week day use of the use Resource Recovery Facility which accepts Universal Waste on all operating days.	(%)	1% HHW 40% overall
▪ Material collected: CRTs, auto & button batteries, fluorescent bulbs, paint, waste oil, thermostats, thermometers, and elemental mercury. (<i>some of which are collected year round</i>)	(tons or gal)	See Attachment A
School curricula implemented	(y/n)	Y

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with \checkmark)				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control	X			
▪ Post-Development Stormwater Management	X			
Accompanying Regulation Status (indicate with \checkmark)				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control		X		
▪ Post-Development Stormwater Management	X			

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	143
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	100%
▪ CADD	(%)	100%
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified (mostly underdrains) total # since issuance of NPDES MS4 permit	(#)	12
Illicit connections removed	(#) (est. gpd)	9 2,000+
% of population on sewer	(%)	98.5
% of population on septic systems	(%)	1.5

Construction

Number of construction starts (>1-acre): Newton Highlands Playground, 300 Hammond Pond Parkway, 101-239 Herrick St (#157), 143 Rumford Ave, 367-377 Langley Rd, 15 Bracebridge Rd, 200 Dudley Rd and 19 Dartmouth Rd.	(#)	8
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed (work is on-going)	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	Unknown**
**This value would take significant time to quantify, but most likely would be > 100,000 gallons/yr		

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Once every other year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	Once per year
Total number of structures (CBs) cleaned	(#)	5545
Storm drains cleaned	(LF or mi.)	5,780 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(tons)	785
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill cover
Cost of screenings disposal	(\$)	\$ 23,167.00

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	4
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	10+
Qty. of sand/debris collected by sweeping	(lbs. or tons)	2382 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	landfill
Cost of sweepings disposal	(\$)	\$ 82,044.00
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	no

Reduction in application on public land of: (N/A = never used; 100% = elimination)		
▪ Fertilizers	(lbs. or %)	20 %
▪ Herbicides	(lbs. or %)	80 %
▪ Pesticides	(lbs. or %)	Rarely used
* Newton's Integrated Pest Management Policy was provided in the Year 5 report. See also Attachment A for Parks & Recreation Info on pesticide usage this past year (none used).		

Anti-/De-Icing products and ratios	% NaCl	96%
	% CaCl ₂	0
	% MgCl ₂	2%
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	2%
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	N
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	10% reduction
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	Y

Attachment A

Copies of:

Household Hazardous Waste (HHW) collected in 2017
Parks & Recreation Report



PLEASE REMIT TO
 27727 Network Pl. Chicago, IL 60673-1277
 p. (844)472-4895 f. (713)985-5369
 e. ESOLcustomersupport@stericycle.com

Invoice # 58501968125
Invoice Date 12/08/2017
Customer 66030
AX ID# 98036 Bill to 66030
Terms Net 30 days

ATTN.: KIMBERLY RITCEY
 CITY OF NEWTON
 115 RUMFORD AVENUE
 AUBURNDALE, MA 02466

SITE ADDRESS:
 REPUBLIC ENV SYS (TRANS GROUP)
 115 RUMFORD AVENUE
 AUBURNDALE, MA 02466

ORDER 2979522 Republic Env Sys (Trans Group)

PO # 1703517

11/28/2017

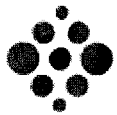
Transportation Charges :

	STOP FEE, ZONE 1	1.00 @ 175.000 / E	\$175.00
11/28/2017	Doc No. 769707-17 Manifest 010420316FLE	Waste Receipt PRO-5802M	
1	840751-00 - FLAMMABLES-LOOSEPACK	5.00 @ 375.000 / BX	\$1,875.00
3	674411-02 - AEROSOLS	3.00 @ 150.000 / DM55	\$450.00
		Sub Total	\$2,500.00
		Energy & Insurance	
		Waste Fee	\$148.40
		INVOICE TOTAL	\$2,648.40

Please contact Stericycle Environmental Solutions - phone:(844) 472-4895 fax:(317) 243-0772



We honor the above merchant cards for payment. Please contact our local Stericycle Environmental Solutions billing office for payment instructions.



Stericycle*
Environmental Solutions

PLEASE REMIT TO
27727 Network Pl. Chicago, IL 60673-1277
p. (844)472-4895 f. (713)985-5369
e. ESOLcustomersupport@stericycle.com

Invoice # 58501971392
Invoice Date 12/13/2017
Customer 66030
AX ID# 98036 Bill to 66030
Terms Net 30 days

ATTN.: KIMBERLY RITCEY
CITY OF NEWTON
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

SITE ADDRESS:
REPUBLIC ENV SYS (TRANS GROUP)
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

ORDER 2965884 Republic Env Sys (Trans Group)

PO # 1703517

11/03/2017

Transportation Charges :

	STOP FEE, ZONE 1	1.00 @ 175.000 / E	\$175.00
11/03/2017	Doc No. 749816-17 Manifest 010421860FLE Waste Receipt PRO-2524M		
	1 840751-00 - FLAMMABLES-LOOSEPACK	3.00 @ 375.000 / BX	\$1,125.00
	2 674416-02 - MIXED FLAMMABLES: PAINT THINNER, GASOLINE, CONSOLIDATED	2.00 @ 80.000 / DM55	\$160.00
	3 674411-02 - AEROSOLS	5.00 @ 150.000 / DM55	\$750.00
	4 840751-00 - FLAMMABLES-LOOSEPACK	4.00 @ 175.000 / DM55	\$700.00
11/03/2017	Doc No. 752389-17 Manifest 010419964FLE Waste Receipt PRO-2525M		
	1 674412-02 - OXIDIZER LIQUID FOR INCINERATION	1.00 @ 137.500 / DM15	\$137.50
	2 674413-02 - ACIDS, INORGANIC	1.00 @ 205.000 / DM55	\$205.00
	3 674414-02 - BASES	3.00 @ 213.200 / DM55	\$639.60
	4 674415-02 - PESTICIDES, LIQUID	5.00 @ 225.000 / DM55	\$1,125.00
	7 840760-00 - SODIUM HYPOCHLORITE 10.5%	1.00 @ 170.000 / DM55	\$170.00
	9 845390-00 - PESTICIDES FOR INCINERATION	3.00 @ 225.000 / DM55	\$675.00
	10 LAB PACK, INCINERATION, FLAMMABLE SOLIDS (DOT 4.1)	1.00 @ 104.000 / DM05	\$104.00
	11 CYLINDERS, FLAMMABLE, PROPANE-SMALL, CAMP TYPE, FOR RECYCLE	0.00 @ 10.400 / E	\$0.00

11/06/2017

Supplies & Materials :

	BOX, CUBIC YARD BOX	5.00 @ 75.000 / E	\$375.00
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Please contact Stericycle Environmental Solutions - phone:(844) 472-4895 fax:(317) 243-0772



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Invoice # 58501758863

Invoice Date 05/18/2017

Customer 66030

AX ID# 98036 Bill to 66030

Terms Net 30 days

ATTN.: KIMBERLY RITCEY
CITY OF NEWTON
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

SITE ADDRESS:
REPUBLIC ENV SYS (TRANS GROUP)
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

ORDER 2711502 Republic Env Sys (Trans Group)

PO # 1703517

04/11/2017

Labor Charges :

CHEMIST, STRAIGHT TIME	12.00 @ 50.000 / H	\$600.00
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Supplies & Materials :

BOX, CUBIC YARD BOX	7.00 @ 75.000 / E	\$525.00
DRUM, METAL, 55 GALLON, USED, OPEN TOP	10.00 @ 35.000 / E	\$350.00
DRUM, POLY, 30 GALLON, RECON, OPEN TOP	2.00 @ 35.000 / E	\$70.00
DRUM, POLY, 15 GALLON, NEW, OPEN TOP	3.00 @ 25.000 / E	\$75.00
DRUM, POLY, 5 GALLON, NEW, OPEN TOP	2.00 @ 12.000 / E	\$24.00

Transportation Charges :

STOP FEE, ZONE 1	1.00 @ 175.000 / E	\$175.00
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04/11/2017 Doc No. 463171-17 Manifest 010384253FLE Waste Receipt PRO-4534J

1	674416-02 - MIXED FLAMMABLES: PAINT THINNER, GASOLINE, CONSOLIDATED	10.00 @ 80.000 / DM55	\$800.00
2	674411-02 - AEROSOLS	1.00 @ 425.000 / BX	\$425.00
2	674411-02 - AEROSOLS	1.00 @ 115.000 / DM30	\$115.00
3	674415-02 - PESTICIDES, LIQUID	5.00 @ 225.000 / DM55	\$1,125.00
4	674412-02 - OXIDIZER LIQUID FOR INCINERATION	1.00 @ 200.000 / DM30	\$200.00
5	840751-00 - FLAMMABLES-LOOSEPACK	2.00 @ 375.000 / BX	\$750.00
8	840755-00 - ORGANIC ACIDS FOR INCINERATION	3.00 @ 68.340 / DM15	\$205.02
9	840758-00 - ORGANIC ALKALINE FOR INCINERATION	4.00 @ 205.000 / DM55	\$820.00
10	840760-00 - SODIUM HYPOCHLORITE 10.5%	1.00 @ 170.000 / DM55	\$170.00
11	MERCURY CONTAINED IN MANUFACTURED ARTICLES, OR DIRT	1.00 @ 150.000 / DM05	\$150.00
12	LAB PACK, INCINERATION, REACTIVE, BASIC	1.00 @ 100.000 / DM05	\$100.00
13	845389-00 - SODIUM HYDROXIDE 50%	1.00 @ 42.500 / DM15	\$42.50
14	845390-00 - PESTICIDES FOR INCINERATION	2.00 @ 675.000 / BX	\$1,350.00

04/18/2017 Doc No. 472247-17 Manifest 010385432FLE Waste Receipt PRO-5432J

1	674416-02 - MIXED FLAMMABLES: PAINT THINNER, GASOLINE, CONSOLIDATED	6.00 @ 80.000 / DM55	\$480.00
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Please contact Stericycle Environmental Solutions - phone:(844) 472-4895 fax:(317) 243-0772



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PLEASE REMIT TO
 27727 Network Pl. Chicago, IL 60673-1277
 p. (844)472-4895 f. (713)985-5369
 e. ESOLcustomersupport@stericycle.com

Invoice # 58501758863

Invoice Date 05/18/2017

Customer 66030

AX ID# 98036 Bill to 66030

Terms Net 30 days

ATTN.: KIMBERLY RITCEY
 CITY OF NEWTON
 115 RUMFORD AVENUE
 AUBURNDALE, MA 02466

SITE ADDRESS:
 REPUBLIC ENV SYS (TRANS GROUP)
 115 RUMFORD AVENUE
 AUBURNDALE, MA 02466

ORDER 2711502	Republic Env Sys (Trans Group)	PO # 1703517	
2	840751-00 - FLAMMABLES-LOOSEPACK	1.00 @ 375.000 / BX	\$375.00
3	LABPACK LANDFILL, NON REGULATED	1.00 @ 105.000 / DM55	\$105.00
		Sub Total	\$9,031.52
		Energy & Insurance	
		INVOICE TOTAL	\$9,031.52

Please contact Stericycle Environmental Solutions - phone:(844) 472-4895 fax:(317) 243-0772



We honor the above merchant cards for payment. Please contact our local Stericycle Environmental Solutions billing office for payment instructions.



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Page # 2

Invoice # 58501971392

Invoice Date 12/13/2017

Customer 66030

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ATTN.: KIMBERLY RITCEY
CITY OF NEWTON
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

SITE ADDRESS:
REPUBLIC ENV SYS (TRANS GROUP)
115 RUMFORD AVENUE
AUBURNDALE, MA 02466

ORDER 2965884 Republic Env Sys (Trans Group)

Sub Total	\$6,341.10
Energy & Insurance	
Waste Fee	\$108.86
INVOICE TOTAL	\$6,449.96

Please contact Stericycle Environmental Solutions - phone:(844) 472-4895 fax:(317) 243-0772



We honor the above merchant cards for payment. Please contact our local Stericycle Environmental Solutions billing office for payment instructions.

City of Newton
Department of Parks and Recreation
Division of Maintenance
2017 - 2018 Pesticide Usage

No pesticide applications occurred from April 2017 - March 2018.

Derek Mannion

Newton Parks and Recreation Department

Attachment B

Public Education and Outreach Materials



KEEPING ORGANIC WASTE OUT OF OUR TRASH

NEWTON'S EARTH DAY 2017 COMMUNITY EVENT

HOSTED BY THE NEWTON DPW
ENVIRONMENTAL AFFAIRS DIVISION
AND GREENNEWTON

In celebration of Earth Day 2017, the City of Newton Environmental Affairs Division and Green Newton are hosting an event to discuss and explore organics management options.

Newton's Director of Environmental Affairs, Waneta Trabert, will discuss recent changes to the City's compost bin program and the program's current and future goals. Green Newton will provide updates on their work to promote more participation in recycling and composting in our community.

Organics management businesses that serve Newton have been invited to join the discussion.

All are welcome. Light refreshments will be served.

DATE: THURSDAY, APRIL 20TH

TIME: 6:30PM -8:30PM

LOCATION: CITY HALL CAFETERIA,

1000 COMMONWEALTH AVE, NEWTON, MA



FOR MORE INFORMATION
Call 617-796-1491 or email
recycling@newtonma.gov





Newton's 16th Semi-Annual

Spring Cleanout Swap Day



Saturday, April 29

8am-2pm (Drop-off 8am-noon only)

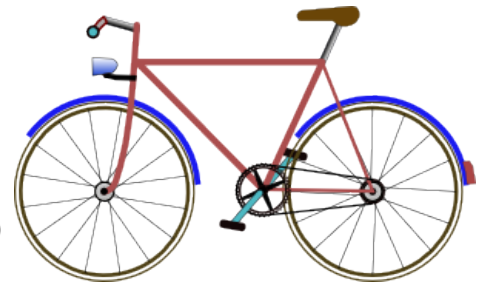
DROPOFF & PICKUP FOR NEWTON RESIDENTS ONLY (ID required)

Swapping and Donating...bring along **usable** but unwanted belongings for swapping or donating. Bring your stuff, or just come and **take stuff for free!**

- Appliances - Bicycles - Books
- Household items and non-upholstered furniture (**No mattresses or couches**)
- NO computer monitors, NO televisions, NO hazardous materials
- Pretty much anything, so long as it is usable, non-toxic, non-hazardous - and clean!

Recycling and Reuse...bring along any of the following and the City of Newton will make sure that they are recycled, re-used, given to charity or disposed of safely.

- Fluorescent bulbs and other mercury-containing items
- Cell phones, all printer cartridges, CDs, DVDs• Clothing
- Paper, cardboard, glass, metal, stiff plastic bottles (#1 - 7)
- Dead rechargeable batteries



When: Saturday, April 29th, 2017 8:00AM - 2:00 PM (**item drop-off until Noon**)
Where: Recycling Depot, 115 Rumford Avenue (off Lexington Street in Auburndale)
Website: newtonma.gov/recycling

Clear Out Clutter without adding to the waste stream!



RAIN OR SHINE



Charles River Watershed Association's



18th Annual Earth Day

CHARLES RIVER CLEANUP

Saturday, April 29, 2017



Make a difference in your community this Earth Day!

Join over 3,000 volunteers for one of the largest single-day river cleanups in the country!

Volunteers will receive cleanup supplies, snacks and an official 2017 Charles River Cleanup T-shirt, while supplies last!

Register online at www.crwa.org/charles-river-cleanup or scan the code at right.

Join the conversation:
#CharlesRiverCleanup



The 18th Annual Earth Day Charles River Cleanup is organized by:





18th Annual NewtonSERVES

Arts, Culture, Service, Beautification

[Welcome](#) [Festival of the Arts](#) [Spring/Summer](#) [Fall/Winter](#) [Int'l Festivals](#) [Activities](#) [Tickets](#) [Contact Us](#)

NewtonSERVES



Building Community Through Service

Sponsored by:



Setti D. Warren, Mayor

A Day of Community Service

A project of Newton Community Pride, Mayor's Office for Cultural Affairs and the Newton Parks and Recreation Department

Sunday April 30, 2017

9am – 4pm

Rain or Shine

Morning, Afternoon and All Day Projects



Learn About Newton's Food Pantries

[Arabic Baptist Church Food and Clothing Pantry](#)

[Centre Street Food Pantry](#)

[Newton Food Pantry](#)

[Zola Center Food Pantry](#)



371 people like this. Sign Up to see what your friends like.

Visit our [Facebook](#) page to see photos from prior NewtonSERVES.

NewtonSERVES—A Day of Community Service is the kickoff for **NewtonSERVES Volunteer Week**. Mayor Setti D. Warren is encouraging religious organizations, schools and non-profits to identify service projects that need volunteers. He is also asking citizens, businesses and civic organizations to volunteer and make a difference in the community.

There are lots of ways that you can volunteer including: donating food to the local food pantries, delivering meals to a sick neighbor or friend, tutoring a child, picking up litter in your neighborhood, donating blood at your local Red Cross, or volunteering on Sunday May 1 for the Day of Community Service.

VOLUNTEER: [Register online](#)

WHAT is NewtonSERVES?

NewtonSERVES is a Day of Community Service that brings together over 1,000 volunteers of all ages to complete more than 50 community projects for the benefit of numerous non-profit organizations and City of Newton departments. Volunteers work in teams on morning, afternoon or all day projects throughout the city, such as cleaning up parks, planting gardens, building and painting school bookshelves, spring cleaning at non-profit organizations and helping senior citizens. By enhancing the City of Newton's sense of community, NewtonSERVES helps to foster a culture of year-round volunteerism.

WHO can participate?

- Individuals • Families
- Students (ages 8 and up)
- Young Adults • Senior Citizens
- Corporations & Businesses
- Neighbors

WHY volunteer with NewtonSERVES?

- Make a difference in your own community
- Meet new people

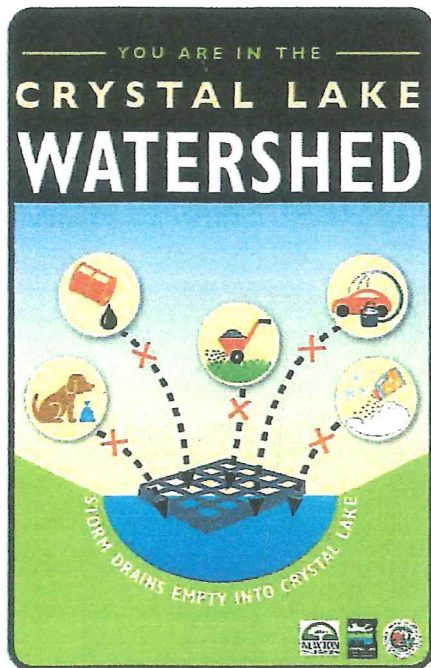


Reminders on Keeping Crystal Lake Healthy for the Summer

Your household is in the Crystal Lake Watershed area !!

What does that mean? All the runoff from homes in the watershed including lawn treatments, (chemical or manure), car washing detergents, and household chemicals are washed down the street into the City catch basins (storm drains). Contents in the catch basins then drain into Crystal Lake via seven different outfall areas. The sign below is a reminder to both residents and visitors what NOT to put in the storm drains. **IF YOU HAVE A SIGN ON YOUR STREET - YOU ARE IN THE CRYSTAL LAKE WATERSHED!**

WHAT YOU DO EVERY DAY ON OR AROUND YOUR PROPERTY WILL IMPACT CRYSTAL LAKE!



Storm Drains

There should not be any:

- dog waste
- oil
- fertilizer
- car washing detergent
- rock salt
- trash

...going into the storm drains!

State Law- NO Phosphorus in Lawn Fertilizers!

The law prohibits the sale and use in Massachusetts of lawn fertilizers containing phosphorus. Phosphorus in fertilizers contributes to algae blooms in Crystal Lake directly from storm runoff from surrounding watershed properties. Lawn care companies and property owners must ensure that no fertilizers containing phosphorus are being used. Fines and penalties may be issued for those selling or using inappropriate fertilizers. "Organic" does NOT imply there is no phosphorus. **Please check the labels and products used by your landscapers!**

Help us keep Crystal Lake Healthy

*Crystal Lake Conservancy
Newton Parks and Recreation Department*

May 2017

Pool Closing Tips 2017



Tips for Draining your Pool

As the swimming season ends, the Department of Public Works is providing tips for draining pools and spas that will help minimize impacts to your neighbors and the environment.

Most swimming pool chemicals have an impact on fish, plants and other aquatic life.

- Chlorine damages fish gills, which can cause fish to drown.
- Bromine sanitizes swimming pools. In high doses it can also damage fish gills.
- Copper is used to kill algae in the filter system. It is very toxic to fish.
- Pool water can be very warm compared to a river or stream and can stress aquatic life.

Did you know that the storm drains on your street discharge to either a stream, pond or directly to the Charles River? What goes down these drains impacts the health of our waterbodies. That's why we are providing these tips for draining your pool.

1. Discontinue adding pool chemicals at least 1 week before draining your pool. This will allow the chemicals to evaporate before draining.
2. Test the chlorine **and** sanitizer levels in your pool before draining (there should be no residual chlorine or sanitizers).
3. Drain the pool **slowly** to avoid runoff onto abutting properties. Consider draining some or all of the water to your yard, where your lawn and trees can benefit from deep fall watering and where it will be filtered naturally and recharge deep into the ground – overflow to the storm drains in the street is okay.

Another option is to pump your pool water to a utility sink (if you have one, it's in the basement). This option provides for treatment of the pool water by the regional wastewater treatment plant and is allowed *only* if you purchased the water to fill the pool from the City of Newton. If you have any questions, please contact customer service at **617-796-1000** and ask for the environmental engineer.





Green Expo 2017 Exhibitors

Oct 15, 2017



350Mass Newton

350mass.betterfutureproject.org

Learn how to fight climate change now

Able Home Performance

www.auditmyhome.com/newton.html

Provider of Newton Energy Savers FREE home energy audit

Aerus Home Products

www.aerushome.com/Site/

Provider of healthy home systems

Appalachian Mountain Club

outdoors.org

Programs to get you outdoors and hiking

Belmont Wheel Works

wheelworks.com

Electric bicycle dealer in Belmont



Bike Newton

bikenewton.org

Local advocate for bicycling and safety



BMW Herb Chambers

www.herbchambersbmw.com

BMW i3 plugin car dealer



Boston Greenfest

www.bostongreenfest.org

Annual green event in Boston

City Compost

<https://www.citycompost.com>

Home composting service



Colonial Nissan

buycolonialnissan.com

Nissan LEAF plugin car dealer



Communities without Borders

www.communitieswithoutborders.org

Sales support Zambia AIDS orphan education

ELF (private)

organictransit.com

Solar and pedal powered vehicle



Environmental Voter Project

www.environmentalvoter.org

Promotes environmentalist voter power

Fifield Bikes

fifieldebikes.com

Electric bike dealer in Hingham



Green City Growers

greencitygrowers.com

Design and manage gardens for you

Green Claudine

Expert help purchasing energy efficient and healthy homes

Green Newton

www.greennewton.org

Newton's environmental organization

Juice Press

juicepress.com/locations/brookline/

Fresh juices and eats in Chestnut Hill

Mass Energy

www.massenergy.org

Works to make energy affordable and sustainable

Mothers Out Front

www.mothersoutfront.org/newton_ma

Working to end gas leaks in Newton

New York Life

www.newyorklife.com

Insurance agent

NewPro Windows

www.newpro.com

Home improvement solutions

✓ Newton Recycling & Composting

www.newtonma.gov/gov/dpw/recycling/

Learn how to save the world today by taking these simple steps



✓ Newton Stormwater Matters!

<http://www.newtonma.gov/gov/dpw/water/stormwater.asp>

Learn how to keep water clean for everyone



Newton CALM

www.meetup.com/newtonsafeandsound/

Advocate of effective leaf blower regulation

Newton Community Farm

newtoncommunityfarm.org

Fresh local produce and farm classes

Newton Conservators

newtonconservators.org

Protecting open spaces in Newton for wildlife and community

Newton Tree Conservancy

newtontreeconservancy.org/blog/

Preserving & restoring trees in Newton

Olin College Electric Motorsports

www.olinelectricmotorsports.com

Learn how an electric motor works



Pearl's Premium Ultra Low Maintenance Lawns

www.pearlspremium.com

Deep rooted low maintenance grass seed

Pedego Electric Bikes

www.pedegoelectricbikes.com

Electric bike dealer in Belmont



Power Home Remodeling

powerhr.com

Home improvement and windows

Renewal By Andersen

www.renewalbyandersen.com

Replacement windows

Rescom Exteriors, Inc.

iwantnewwindows.com

Energy efficient windows and doors

Smartcar/Mercedes-Benz of Boston

www.smartusa.com

Smartcar Plugin Fortwo Coupe dealer



Students for a Greener World(SGW)

sgw.greennewton.org

Green Newton group for kids and teens



Sierra Club - Massachusetts

www.sierraclub.org/massachusetts

America's largest grassroots environmental group

Solar Five

solarfive.com/

Newton Goes Solar provider

Sunlight Solar Energy

sunlightsolar.com

Newton Goes Solar provider

Sunrun Solar

www.sunrun.com

Residential solar service provider

Transit X

www.transitx.com

Solar powered personal mass transit



Upland Road | Eco-Boutique

www.uplandroad.com

Sustainable and fair-trade clothing, accessories, and gifts