



**GREENPOINT
COMMUNITY
ENVIRONMENTAL
FUND**

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718.389.9044 ext. 15

2014 LARGE AND LEGACY GRANT FULL PROPOSALS

Title: AirCasting Greenpoint: Citizen Science for Clean Air
Applicant: HabitatMap, Inc.

Description: This project proposes to provide tools to citizen scientists to examine exposure to fine particulate air pollution using a community-based participatory research design. Major activities include: (1) conducting outreach to residents about the project to allow them to express air quality concerns; (2) developing a Greenpoint-based air quality plan via public forums, social media, and surveys; and (3) creating methods and training which focuses on air quality sampling and health tracking in Greenpoint. The training will engage up to 240 participants to collect air quality data and track health indicators using wearable sensors and smartphones. The project will also (4) provide innovative tools to help residents visualize the air quality data including a cell phone “app,” real-time mapping, and an interactive website providing information that can be leveraged to promote behavior change and policies that address community concerns about air pollution and health. Project goals are to foster a 20% reduction in the average exposure to fine particulate air pollution for all participants, inform community action to improve the air pollution exposure environment, and test an exposure monitoring method as a potential model for other communities.

Partners: Newtown Creek Alliance, Sonoma Technology, Inc., New York University School of Medicine, and New York University Robert F. Wagner Graduate School of Public Service

Location: Greenpoint

Grant Request: \$235,388

Applicant Contribution: \$893,508

Contact Information: Mr. Michael Heimbinder, mheimbinder@habitatmap.org, (347) 410-9499



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Title: Box Street Park Construction: Enhancing Greenpoint's Recreation
Applicant: NYC Department of Parks and Recreation

Description: This project proposes to enhance design and development of a new 2.81 acre city park to be constructed on Box Street. Major project activities include: (1) remediating soil, and potentially groundwater, of contamination typical of industrial urban sites; (2) stabilizing the shoreline and repairing degraded shoreline infrastructure; (3) installing green infrastructure such as bioretention areas to treat polluted stormwater; (4) elevating the lower portion of the park to keep flood waters away from its upland section and the adjacent neighborhood; and (5) creating a partnership with local schools and youth groups to explore the ecosystem of the East River and the surrounding park. Project goals are to provide complete remediation and development of 265 feet of waterfront along Newtown Creek for public access, improve coastal resiliency, reduce impacts from storms, and capture and treat polluted stormwater.

Partners: Open Space Alliance for North Brooklyn, and NYC Economic Development Corporation.

Location: 65 Commercial Street, Greenpoint

Grant Request: \$1,999,000
\$1,999,000

Applicant Contribution:

Contact Information: Ms. Mary Salig, mary.salig@parks.nyc.gov, (718) 965-6951

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Title: Broadway Stages Wildflower Green Roof and GCEF Classroom
Applicant: New England Interstate Water Pollution Control Commission

Description: This project proposes to design, construct, and monitor a 17,578 sq. ft. intensive greenroof comprised of native wildflower habitat with deck space allowing it to be used as an outdoor classroom, green space, and living environmental laboratory. Major activities include: (1) engaging the public in all stages of design, construction, and maintenance; (2) constructing the green roof; (3) conducting tours and workshops about the local watershed, stormwater management, and green infrastructure; (4) providing six targeted sessions addressing water quality monitoring to approximately 100 students and 30 teachers; (5) making the rooftop



space available for meetings by community-based organizations; and (6) installing a monitoring system to assess water quality during six storms to evaluate the pre- and post-installation performance of the roof in terms of capturing polluted stormwater. Project goals are to treat 32,221 gallons of stormwater before it flows into Newtown Creek, remove 703 pounds of particulate air pollution, reduce energy consumption and the heat island effect of the building, and provide habitat for birds and insects.

Partners: Interstate Environmental Commission, Broadway Stages, Alive Structures, Newtown Creek Alliance, eDesign dynamics, The Fortune Society, New York Community School District 14, and Trout in the Classroom

Location: 520 Kingsland Avenue, Greenpoint

Grant Request: \$841,095
\$2,019,828

Applicant Contribution:

Contact Information: Ms. Heather Radcliffe, hradcliffe@neiwpc.org, (978) 323-7929

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Title: Curb your Litter: Greenpoint
Applicant: Greenpoint Chamber of Commerce

Description: This project proposes to implement a strategy to reduce litter in Greenpoint. Major project activities include: (1) on-the-ground analysis of the neighborhood's waste problem; (2) conducting an education and outreach campaign that includes training 15 students to serve as community mentors; (3) delivering waste management and recycling curriculum at Greenpoint schools; (4) involving businesses in the project by asking them to take the "Clean Greenpoint" pledge, (5) engaging residents in six community cleanup days; and (6) using the waste analysis to work collaboratively with the NYC Department of Sanitation. Project goals are to install more standard, recycling, and solar litter containers on underserved streets, to improve neighborhood waste management, and to develop both the community and visitors as litter stewards.

Partners: NYC Department of Sanitation, ClosedLoops, Pacemeter, the Center for Urban Pedagogy, New York University for Urban Science and Projects, The CUSP Open Trash Observatory, Neighbors Allied for Good Growth, and NYC Community School District 14 including: Frances Perkins Academy, Automotive High School, MS 126, PS 110, PS 34, and PS 31

Location: Greenpoint



Grant Request: \$569,145

Applicant Contribution: \$269,980

Contact Information: Mr. Alan Minor, alan.minor@gmail.com, (205) 249-0840

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Title: Green Infrastructure in MS4 Area of Greenpoint
Applicant: NYC Department of Environmental Protection

Description: This project proposes to construct, monitor, and maintain a minimum of six green infrastructure bioswales with enhanced street tree pits and other specialized water pollution treatment tools in right-of-ways along streets that are not connected to the Newtown Creek Wastewater Treatment Plant. Major project activities include: (1) installing green infrastructure; and (2) providing continuous, in-depth downstream monitoring water quality after polluted stormwater has passed through and been treated by the bioswales and tree pits; and 3) evaluate what works best to capture, store and treat water pollution from urban streets. Project goals are to prevent floatable litter, nitrogen, phosphorus, pathogens, and sediment pollution from entering Newtown Creek, determine a practical, easy to install tool for treating pollution from urban streets that would normally flow into Newtown Creek and add street trees and plants in a Greenpoint neighborhood with little or no vegetation.

Partners: LaGuardia Community College

Location: Multiple roads identified within the area of Municipal Separate Storm Sewer System that discharge to Newtown Creek, Greenpoint

Grant Request: \$135,036

Applicant Contribution: \$135,036

Contact Information: Mr. John McLaughlin, jmclaughlin@dep.nyc.gov, (718) 595-4458

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Title: Greening Greenpoint
Applicant: City Parks Foundation

Description: This project proposes to develop and implement a comprehensive urban forestry plan for Greenpoint. Major activities include: (1) planting 500 new street and park trees; (2) installing 325 tree guards and planting bulbs and



groundcover around street trees; (3) removing up to 25,000 sq. ft. of impervious concrete around 675 existing tree beds; and (4) training and equipping tree stewards from the schools and community to elevate the level of engagement in long-term tree pruning and care. Project goals are to create new tree canopy cover, promote healthy long-lived trees, add one acre of new green space overall to Greenpoint, treat 787,500 gallons of stormwater annually, and reduce 13,000 pounds of local air pollution in the neighborhood.

Partners: Trees New York, City Parks Foundation-Partnership for Parks, MillionTrees NYC, NYC Department of Parks and Recreation-Forestry, Open Space Alliance for North Brooklyn, and Greenpoint Chamber of Commerce

Location: Greenpoint

Grant Request: \$1,950,719
\$1,958,786

Applicant Contribution:

Contact Information: Mr. James Kaechele, james.kaechele@parks.nyc.gov, (718) 760-6911

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Title: The Greenpoint Bioremediation Project
Applicant: Research Foundation of the City University of New York

Description: This project proposes to explore whether different natural techniques will bioremediate, that is consume and break down environmental pollutants commonly found in Greenpoint’s surface soil. Major project activities: (1) recruiting sites for pilot projects along streets, in residential backyards, and at industrial sites and community gardens etc.; (2) developing legal liability protocols for residential property owners who want to have their soils tested; (3) analyzing soil at sites to serve as possible locations for pilot projects; (4) developing and implementing site-specific techniques to target and remediate soil contamination using beneficial microbes, compost, and mushrooms; (5) launching a compost brewing operation for bioremediation; (6) cultivating mushrooms to be used at bioremediation sites; (7) providing education including: informational workshops about environmental pollutants, a Bioremediation Forum for local partners, agencies and scientists, workforce training in environmental remediation for the formerly incarcerated, and two anonymous public soil screening events; and (8) disseminate an annual bioremediation newsletter and prepare a scientific paper about project results. The project goal is to demonstrate the potential of low-cost natural system bioremediation



techniques to address historic Greenpoint contaminants in a variety of settings.

Partners: Newtown Creek Alliance, Brooklyn College's Environmental Sciences Analytical Center and Microbiology Lab, Build It Green!NYC, the Brooklyn Grange, The Fortune Society, and the 61 Franklin Street and Java Street Community Gardens

Location: Greenpoint

Grant Request: \$1,799,483

Applicant Contribution: \$744,561

Contact Information: Dr. Zhongqi Cheng, zcheng@brooklyn.cuny.edu, (908) 764-8689

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Title: Greenpoint Business Environmental Stewardship

Applicant: Rochester Institute of Technology

Description: The project proposes to work with Greenpoint-based businesses to identify permanent environmental improvements to their manufacturing process. Major activities will include: (1) presenting two workshops targeted to companies about "best" potential environmental practices to integrate into day-day-day operations; (2) performing a sustainability assessment of the manufacturing processes at 10 businesses looking for pollution prevention/source reduction opportunities; (3) providing companies with a comprehensive report of findings and opportunities for environmental improvement; (4) documenting expected costs of the proposed solutions and identifying sources of funding and financial aid to support the implementation of those solutions; (5) recruiting six companies in actual direct implementation of the environmental improvements; and (6) conducting three public workshops about the project including a project kick-off, interim project update, and a final showcase of environmental results to Greenpoint residents. Project goals are to improve air and water quality and energy efficiency, and reduce toxic pollutants and hazardous waste associated with manufacturing operations, and improve the overall environmental footprint of the community by helping businesses implement environmentally beneficial projects.

Partners: Industrial and Technology Assistance Corporation (New York State designated regional Manufacturing Extension Partnership serving Brooklyn), Greenpoint Chamber of Commerce, Greenpoint Manufacturing and Design Center, St. Nick's Alliance and 10 Greenpoint manufacturers (including potential participants: Jos. H. Lowenstein, The Sarut Group, Grady's Cold Brew, and Acme Smoked Fish)



Location: Greenpoint

Grant Request: \$402,202

Applicant Contribution: \$744,561

Contact Information: Ms. Kathleen Kosciolek, kxkasp@rit.edu, (585) 475-4325

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Title: Greenpoint Community Green Roof
Applicant: Newtown Creek Alliance

Description: This project proposes to install a 40,300 sq. ft. intensive green roof and conduct educational programming focused on stormwater management and habitat at Automotive High School. Major activities include: (1) performing an engineering structural analysis of the roof; (2) designing and installing the roof; (3) conducting maintenance training about the roof and engaging students and the community in the maintenance; (4) developing a curriculum to support science and technology classes at the school; and (5) delivering public education through tours, programs, signs, and social media. Project goals are to provide habitat for native birds and insects, treat 75,000 gallons of polluted stormwater annually, capture air pollution; achieve electricity savings of up to 13,532 kWh and heating savings of up to 145.5 million Btu annually, and provide multiple educational programs for Greenpoint residents and schools.

Partners: Newtown Creek Alliance, Highview Creations, and NYC Community School District 14 including: Frances Perkins Academy, and Automotive High School

Location: Automotive High School and Frances Perkins Academy, 50 Bedford Ave. Greenpoint

Grant Request: \$1,229,000

Applicant Contribution: \$407,007

Contact Information: Mr. Willis Elkins, welkins@newtowncreekalliance.org, (713) 501-6400

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Title: Greenpoint Eco-Schools: Creating a Legacy of Sustainability
Applicant: National Wildlife Federation

Description: This project proposes to implement an environmental education framework with 10 sustainability modules using school buildings and grounds, and the Greenpoint neighborhood as learning laboratories serving 1,800 students at four schools. The 10 education modules are: Energy, Consumption and Waste, School Grounds, Biodiversity, Water, Climate Change, Sustainable Food, Healthy Living, Transportation, and Healthy Schools. An example of activities from the “Healthy Schools” educational module would be to present curriculum aimed at developing an understanding of the links between the use of chemicals and student health; and then asking students to conduct an indoor audit of air quality using information from the audit to make improvements in a school. Other general project activities include: (1) each school will develop a plan to ensure communication between schools, parents, and the community; (2) creating a social media platform for student and parent communication; and (3) conducting three community forums to expand community-school partnerships. Project goals are to achieve quantifiable environmental reductions such as a 25% reduction in school waste and a 5% reduction in water use annually and to develop the next generation of student and community stewards.

Partners: NYC Community School District 14 including: PS 31, PS 34, PS 110, and MS 126, Community Education Council 14, the Greenpoint Gazette, NYC Division of School Facilities, NYC Department of Environmental Protection, NYC Department of Sanitation, NYC School Construction Authority, NYC Department of Citywide Administrative Services, Change My World NOW, and Children’s Environmental Literacy Foundation

Location: Primarily located within PS31, PS34, PS110, and MS126, with field trips and community restoration projects throughout the broader Greenpoint community

Grant Request: \$1,434,735
\$10,732,324

Applicant Contribution:

Contact Information: Ms. Elisabeth Guglin, gugline@nwf.org, (802) 552-4324

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Title: Greenpoint Environmental Education Center @ Greenpoint Library
Applicant: Brooklyn Public Library

Description: This project proposes to develop 6,500 sq. ft. of the Greenpoint Library as a Leadership in Energy and Environmental Design (LEED) silver certified building. LEED buildings are designed, constructed, operated and maintained based upon formal sustainability standards associated with water and efficiency, use of “green” materials and resources (reduce, reuse and recycle), and improved indoor environmental quality. Major activities include: (1) designing and constructing all green building components including: an intensive green roof, 200 sq. ft. of community composting space, and replacing 10,700 sq. ft. of concrete with native plant landscaping and permeable pavers. The project will also install windows with low-e glazing, high efficiency zoned HVAC and lighting systems and building management controls, water efficient plumbing systems and fixtures, rainwater harvesting and storm water runoff control systems, eco-friendly interior finishes, furniture and furnishings, and alternative energy systems such as solar arrays and wind turbines; and (2) conducting workshops and presentations about the green building and its environmental benefits for Greenpoint schools, community groups and residents during construction and afterwards. Project goals are to create a green building to serve as a hub for community-based environmental programs, exhibits and information in partnership with local environmental groups and Greenpoint residents; and achieve environmental benefits such as: treating 70,000 gallons of storm water, removing 33,600 pounds of air pollutants, and reducing 50,000 gallons in water use and building heating and cooling loads by 80% in annually.

Partners: Newtown Creek Alliance, Greenpoint Waterfront Association for Parks and Planning, Neighbors Allied for Good Growth, North Brooklyn Boat Club, NYC Department of Education Community School District 14 including: Francis Perkins Academy, MS 126, Automotive High School, PS 31, PS 34 and PS 110, Friends of Brooklyn Public Library-Greenpoint Branch, SolarOne, City University of New York, Center for Urban Environmental Reform, Town Square, and Community Board One

Location: 107 Norman Avenue @ Leonard Street, Greenpoint

Grant Request: \$5,000,000
\$6,030,300

Applicant Contribution:

Contact Information: Ms. Cathy Shomstein, c.shomstein@brooklynpubliclibrary.org, (718) 230-2168



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Title: The Greenpoint Environmental Green Shoots Project
Applicant: The City University of New York School of Law Foundation, Inc.

Description: This project proposes to deliver an intergenerational education and art program that fosters citizen engagement in environmental decision-making, and creates and promotes solutions about the toxic hazards affecting Greenpoint and its families. Major project activities include: (1) providing teacher training workshops and conducting an environmental justice curriculum for 5th graders at PS 31 and PS 34 culminating in the creation of a Greenpoint Environmental Graphic Novel and Timeline Mosaic by students memorializing the community's environmental struggle; (2) offering PTA-hosted parent forums open to the public about how to improve the environmental health in the neighborhood and to participate in environmental administrative and regulatory processes; (3) conducting a final event where an advisory committee of project participants will be formed to sustain the environmental justice strategy developed as a result of this program; and (4) developing a written curriculum resulting from this process for all Greenpoint elementary schools tied to the NY State Common Core Standards. Project goals are to promote renewal of Greenpoint's environment and management of its waste and air quality, and build community capacity to create and promote solutions about the toxic hazards affecting Greenpoint.

Partners: NYC Community School District 14 including: at PS 31 and 34, Brooklyn Public Library-Greenpoint Branch, and NYC Department of Education, Office of Sustainability.

Location: Primarily located within PS31, PS34, and the Greenpoint branch of the Brooklyn Public Library, Greenpoint

Grant Request: \$309,546 **Applicant Contribution:** \$309,546

Contact Information: Mr. CJ Ortuno, cj.ortuno@law.cuny.edu, (718) 340-4643

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Title: Greenpoint HOPES (Health Outreach Program & Environmental Survey)
Applicant: Newtown Creek Alliance

Description: This project proposes to deliver the Greenpoint Community



Environmental Health Education and Outreach Program, Greenpoint Environmental Burdens Mapping Program, and Greenpoint Healthy Homes Program. Major activities include: (1) organizing community educational workshops to increase awareness of environmentally hazardous sites in Greenpoint; (2) delivering a 1.5-day Greenpoint environmental conference and health fair; (3) conducting outreach to residents about improving the health of their families; (4) connecting residents with medical experts and community health workers to address environmental concerns and to conduct home risk evaluations; (5) producing a variety of materials and videos about pollution and health concerns in three languages; (6) verifying locations and creating online maps of local environmental burdens, and local health resources available to residents; and (7) providing expert technical assistance to community groups about environmental concerns and proposed cleanup activities. Project goals are to provide residents with accurate, comprehensive information about local pollution and health concerns, and empower residents to improve their own health and the environment of their community.

Partners: LaGuardia Community College, Mt. Sinai Pediatric Environmental Health Specialty Unit, Center for Health Environment and Justice, Office of NYC Council Member Stephen Levin, and City University of New York

Location: Greenpoint

Grant Request: \$1,198,506

Applicant Contribution: \$892,060

Contact Information: Mrs. Laura Hofmann, bargeparkpals@msn.com, (347) 683-7478

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Title: Greenpoint Industrial Environmental Improvement Program

Applicant: East Williamsburg Valley Industrial Development Corp. (EWVIDCO)

Description: This project proposes to recruit and engage 2-4 businesses in design and implementation of environmental improvement projects targeting companies with a large footprint (approximately 10,000 sq. ft. or greater sized facilities) in Greenpoint. Major activities include: (1) performing a feasibility analysis to identify projects that are cost effective, offer significant environmental benefit, and provide for substantial public access; (2) creating a public engagement and access plan for each site; (3) developing a project design which includes providing for ongoing maintenance; and (4) constructing projects using one or more green infrastructure



practices to treat air or water pollution such as treatment wetlands, permeable pavement, extensive/intensive green roofs, and storm water harvesting and reuse. Project goals are to reduce stormwater pollution by 233,143 gallons, decrease energy use, lower ambient air temperatures, and reduce particulate air pollution up to 12 pounds annually in the neighborhood.

Partners: Greenpoint based businesses (potential participants in project include: Modestri Brothers, Broadway Stages, Acme Smoked Fish, Milgo/Bufkin, Jos. H. Lowenstein Sons, Inc., Lucky's Real Tomato's), and eDesign Dynamics

Location: Greenpoint

Grant Request: \$439,000

Applicant Contribution: \$144,400

Contact Information: Ms. Caitlin Dourmashkin, cdourmashkin@ewvidco.com, (718) 388-7287

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Title: The Greenpoint Monitor Museum USS Monitor Park
Applicant: The Greenpoint Monitor Museum

Description: This project proposes to complete designs for shoreline stabilization at the Monitor Museum site on the East River and Bushwick Inlet. The design will meet multiple objectives including flood control and management, recreation and public access, stormwater filtration, wildlife habitat, and a dock to provide access to a federal government education and research vessel and other vessels at the site. Major project activities are: (1) performing environmental engineering studies; (2) conducting a community meeting to receive input about the project design; (3) developing engineered designs to allow for permitting and construction of a stabilized shoreline consisting of a living gabion wall system, upland site grading, installation of pavements, utilities, and landscaping, and a walkway and floating dock for a National Oceanic and Atmospheric Administration vessel and other vessels; (4) delivering information about project benefits, partners and funding on the Museum website and in local media outlets; and (5) integrating the development of this project into a discussion of the accomplishments of John Ericsson in ship design and solar engine engineering as part of the Museum's Road Show school program at PS 110 and other classroom venues. Project goals are to deliver a design that will provide for open space, protection from flooding, and environmental education at the Museum's waterfront site, and create upland, estuarine, shallow water, and intertidal habitat for



fish and wildlife.

Partners: New York City Community School District 14 including: PS31, PS34, PS110, MS126, and St. Stanislaus Kostka School and Queen of the Rosary Catholic Academy; and National Oceanographic and Atmospheric Administration (NOAA)-USS Monitor National Marine Sanctuary and NOAA Northeast Regional Small Boat Program, and Sons of the Union Veterans of the Civil War, Oliver Tilden Camp, No. 26

Location: 56 Quay St. and Greenpoint public and private schools

Grant Request: \$752,230

Applicant Contribution: \$223,000

Contact Information: Ms. Janice Lauletta-Weinmann, jlauletta@aol.com, (718) 383-2637

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Title: Greenpoint's Southern-Most Park: Acquisition, Remediation and Development

Applicant: NYC Department of Parks and Recreation

Description: This project proposes to remediate environmental contaminants, and to stabilize eroding shoreline and repair shoreline infrastructure in order to add another 7.5 acres to the development of a new city park on Bushwick Inlet. Major project activities include: (1) remediating soil, and potentially groundwater, of contamination typical of industrial urban sites; (2) developing a design with substantial community input; (3) stabilizing existing shoreline, creating new shoreline, and repairing shoreline infrastructure; (4) developing the parcel using a soft edge and green upland to address flooding and stormwater control; and (5) creating a partnership with local schools and youth groups to explore the ecosystem of the East River and the surrounding park. Project goals are to provide complete remediation and development of 2,080 linear feet of waterfront along the East River increasing the available neighborhood open space and waterfront and on-the-water access by approximately 2.5 acres of land and approximately five acres of open water, making the shoreline of Greenpoint more ready to buffer future storms, treat polluted stormwater, and enhance habitat for local and migratory birds.

Partners: Open Space Alliance for North Brooklyn, and NYC Department of Citywide Administrative Services

Location: 1 Franklin Street, Greenpoint



Grant Request: \$3,000,000
\$6,000,000

Applicant Contribution:

Contact Information: Ms. Mary Salig, mary.salig@parks.nyc.org, (718) 965-6951

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Title: Grow Greenpoint Project
Applicant: Council on the Environment d/b/a GrowNYC

Description: This project proposes to build a comprehensive educational and greening network that involves McCarren Park and five Greenpoint public schools. Major project activities include: (1) building a 7,200 sq. ft. learning garden modeled after the average Greenpoint backyard coupled with community workshops about green infrastructure and gardening techniques for backyards, rooftops, or community spaces; and (2) creating a 5,200 sq. ft. walking garden and green infrastructure corridor using bioswales to reduce stormwater pollution. Both areas will host signs about environmental topics and be located in McCarren Park. The project will also: (3) build two new gardens, and expand three existing gardens at Greenpoint schools; and (4) offer environmental education with curriculum focused on urban watersheds, solar energy, and urban environmental monitoring to complement the garden activities at five schools. Project goals are to treat 269,880 gallons of storm water, create new “green” areas, and promote the greening of privately owned spaces.

Partners: NYC Community School District 14 including: PS 31, PS 34, PS 110, MS 126, Automotive High School, Open Space Alliance for North Brooklyn, NYC Department of Parks and Recreation-Green Thumb, and NYC Division of School Facilities

Location: McCarren Park, PS 31, PS 34, PS 110, MS 126, and Automotive High School

Grant Request: \$711,959 **Applicant Contribution:** \$319,875

Contact Information: Mr. Nathan Patterson, npatterson@grownyc.org, (646) 634-5192

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Title: Here Comes Solar! Greenpoint
Applicant: CEC Stuyvesant Cove, Inc.

Description: This project proposes to increase the installation of rooftop solar panels on 4-8 buildings including non-profits, community centers, and houses of worship. Major project activities include: (1) addressing common barriers to solar adoption; (2) educating local constituents through meetings and guided digital learning products; (3) pre-screening buildings for suitability; (4) developing an online bidding platform; (5) supporting competitive group-based negotiations with potential installers; and (6) facilitating financing and installation of solar power. Project goals are to make rooftop solar installation more accessible and affordable for Greenpoint, increase the amount of clean energy generated in the neighborhood, and lower energy costs.

Partners: Newtown Creek Alliance

Location: Greenpoint

Grant Request: \$166,962

Applicant Contribution: \$42,232

Contact Information: Ms. Deana Hare, deana@solar1.org, (212) 505-6050

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Title: Intertidal Wetland Foundation
Applicant: Research Foundation of CUNY (LaGuardia Community College)

Description: This project proposes to assess degraded shoreline sites currently comprised of rip-rap and eroded bulkheads for their potential for greening using “constructed” wetland habitat along Newtown Creek. Major activities include: (1) creating conceptual designs in collaboration with the community and professional contractors for intertidal wetland construction at two shoreline sites; (2) advancing one of the two sites to a fully engineered design, including construction drawings, cost estimates, and permits; (3) installing “soft” salt marsh habitat units along the walls of existing “hard” bulkheads; and (4) expanding marsh habitat units already installed on bulkhead walls at existing sites. Project goals are to increase the number and extent of intertidal salt marsh units to provide habitat for native birds, small fish, clams, crabs etc., and improve water quality by restoring “ecological services” like filtering pollutants in waterways provided by bi-valves (ribbed mussels, blue mussels etc.) which will live in this constructed wetland habitat.



Partner: LaGuardia Community College, NYC Department of Environmental Protection, Newtown Creek Alliance, North Brooklyn Boat Club, Outside New York, and City Parks Foundation

Location: Greenpoint shoreline

Grant Request: \$130,178

Applicant Contribution: \$130,911

Contact Information: Dr. Sarah Durand, sdurand@lagcc.cuny.edu, (718) 482-5743

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Title: Manhattan Avenue Floating Wetlands Pilot Project
Applicant: NYC Department of Environmental Protection

Description: This project proposes to install two 5x8 sq. ft. floating wetlands along a bulkhead at the end of Manhattan Avenue. Major project activities include: (1) installing and planting these small islands of wetland and marsh grass in Newtown Creek; (2) conducting continuous, indepth monitoring of the amount of pollution captured by the marsh grass in order to evaluate what works best to treat pollution from sewage and air that washes off from hard surfaces like streets and roofs; (3) providing on-the-water site observation activities by North Brooklyn Boat Club of the floating islands; and (4) installing public signs about the project at the site. Project goals are to prevent floatable litter, nitrogen, phosphorus, pathogens, and sediment pollution from entering Newtown Creek, determine how and whether these floating islands can be scaled-up to significantly improve water quality in the Creek, and provide habitat for native birds.

Partners: North Brooklyn Boat Club and LaGuardia Community College

Location: Street-end Manhattan Avenue, Greenpoint

Grant Request: \$136,934

Applicant Contribution: \$136,934

Contact Information: Mr. John McLaughlin, jmclaughlin@dep.nyc.gov, (718) 595-4458

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Title: McGuinness Blvd Traffic Relief Community Survey Proposal
Applicant: St. Nicks Alliance

Description: This project proposes to study the feasibility of creating a truck bypass around a portion of McGuinness Boulevard, and deliver education about air quality and related transportation issues in Greenpoint. Major project activities include: (1) performing a feasibility study assessing truck bypass options to ensure the analysis is aligned with NYC Department of Transportation requirements; (2) incorporating other state and municipal government agencies into the analysis to ensure the consequences of proposed bypass alternatives are fully understood and planned for; (3) facilitating five community meetings where residents and businesses will be surveyed and asked to provide feedback to inform the study design and where the final draft study will be presented for public comment; and (4) conducting education about the environmental and health risks of air pollution, reducing exposure to those risks, and improving air quality along McGuinness Boulevard and in Greenpoint. Project goals are to develop an “actionable” transportation study focused on exploring safer, more environmentally sound and effective traffic flow, educate the public about transportation and air quality issues, and engage government agencies, public officials, businesses and residents to work together to find and implement viable traffic solutions.

Partners: Concerned Citizens for McGuinness Blvd. Safety and Better Environment, and the Organization United for Trash Reduction and Garbage Equity

Location: Primary focus area between Greenpoint Ave. and Meeker Ave., Greenpoint

Grant Request: \$371,260 **Applicant Contribution:** \$110,000

Contact Information: Mr. Joshua Gooch, jgooch4@yahoo.com, (646) 522-5744

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Title: P.S.110/AquaLab: A Primary School-Based Aquarium, Science Lab and Environmental Learning Center
Applicant: The Fund for Public Schools

Description: This project proposes to install AquaLab an aquarium and environmental learning center to be located at PS 110 and serving students throughout Greenpoint. Major project activities include: (1) designing and installing the aquarium, a science lab, and resource lounge developed around Greenpoint’s



Newtown Creek and its native aquatic life; (2) developing an intergenerational “real-world” curriculum and teacher training program for K-5 students and their families that integrates Science, Technology, Engineering and Math (STEM) standards; (3) delivering educational field trips, and service learning projects about the Newtown Creek ecosystem; and (4) engaging families, community groups, volunteers, and graduate student interns in delivering AquaLab activities. Project goals are to establish a community-wide resource for localized science education and environmental action, incubate environmental stewardship in K-5 students, teachers and parents, and increase environmental literacy in the Greenpoint community.

Partner: NYC Community School District 14 including: PS 31, PS 34, PS 110, Newtown Creek Alliance, New York University Wallerstein Collaborative for Urban Environmental Education and graduate program in Urban Conservation Education, The River Project, Outside New York, and New York Harbor Foundation

Location: Primarily located within PS 110 but serving other Greenpoint primary schools and the community

Grant Request: \$277,695

Applicant Contribution: \$159,250

Contact Information: Ms. Erin Norfleet Gentile, erinnorfleetgentile@gmail.com, (212) 374-6921

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Title: Solar One's Green Design Lab Environmental Education Program
Applicant: CEC Stuyvesant Cove, Inc.

Description: This project proposes to implement an interactive environmental education program powered by student-led greening projects serving 1,200 students at six schools. Students will treat their school building as both a laboratory for learning and a tool for environmental action. Major activities include: (1) delivering a Science, Technology, Engineering, and Math (STEM)-based curriculum and teacher training about energy, water, air, and food; (2) conducting a school walk-through in order to identify areas for electricity reduction and environmental health improvement in school buildings; (3) participating in an Energy Challenge aimed at reducing electricity use which offers schools a chance to win cash prizes for their projects; and (4) installing school-wide sustainability projects to complement the curriculum. Project goals are to achieve a 7-8% average or greater energy reduction at each school, increase student environmental literacy and critical thinking, and cultivate the next generation of environmental stewards.



Partners: NYC Community School District 14 including: Believe Northside Charter High School, PS 110, MS 126, PS 34, PS 31 and Automotive High School, and NYC Department of Education, Division of School Facilities

Location: Primarily located within PS 110, PS 34, PS 31, MS 126, Believe Northside Charter High School, and Automotive High School, Greenpoint

Grant Request: \$248,679

Applicant Contribution: \$50,000

Contact Information: Mr. James Ryan, development@solar1.org, (212) 505-6050

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Title: West Street Watershed Stormwater Project

Applicant: Brooklyn Greenway Initiative, Inc.

Description: This project proposes to design and install 54 right-of-way bioswales and greenstreets covering 4,845 sq. ft. on streets that slope toward the East River between Manhattan Avenue and Franklin Street. Major project activities include: (1) conducting site surveys and geotechnical testing; (2) developing design, construction and planting plans with community partners; and (3) performing maintenance of the plantings. Project goals are to capture and treat 6,411,631 gallons of polluted stormwater, or 36% of the annual stormwater volume falling on those streets and flowing in the East River; restore native plants and habitat; improve air quality and reduce ambient temperatures; and decrease chronic flooding and sewer backups in the area with direct benefit to the 10,910 people living in the project area.

Partners: NYC (NYC) Department of Transportation, NYC Department of Environmental Protection, NYC Department of Parks and Recreation, Open Space Alliance of North Brooklyn, WE Design, and eDesign Dynamics

Location: The area bounded by West Street, Calyer Street, Manhattan Avenue, and Eagle Street

Grant Request: \$1,917,717
\$5,030,000

Applicant Contribution:

Contact Information: Mr. Milton Puryear, mpuryear@brooklyngreenway.org, (347) 432-4897

