

Green Infrastructure Partnership Opportunity Program

APPLICATION FORM

Deadline: September 5, 2022 at 11:59 PM CDT

The Metropolitan Water Reclamation District of Greater Chicago (MWRD) is accepting applications for partnership funding opportunities. MWRD seeks to partner with local municipalities and public agencies to install green infrastructure (GI) throughout Cook County. For more information, including program guidelines, partnership responsibilities, and eligibility requirements, visit https://mwrd.org/GI-app.

HOW TO SUBMIT THE APPLICATION

Applications and all attachments must be submitted via online application (preferred) or by e-mail.

Online Application: Submit application online using the online application form found at **https://mwrd.org/GI-app**.

E-mail: It is strongly preferred that applications be submitted using the online application form above, but if necessary, this fillable PDF form can be submitted to **GIApps@mwrd.org**. Limit email size (including attachments) to under 50MB. Submit application in one email only if possible, and include a list of all attachments in that email. Attach files using a filename that is unique to your project, referencing the organization name and/or project title.

Mail: We are no longer accepting applications by mail unless specifically requested. You may contact **GIApps@mwrd.org** to request or ask additional questions.

Contact for Questions

Holly Sauter
Principal Civil Engineer
Metropolitan Water Reclamation District of Greater Chicago
SauterH@mwrd.org

312-286-6023

The following information must be received by MWRD on or before Monday, September 5, 2022 at 11:59 PM CDT. Late or partial applications will <u>not</u> be accepted. An employee of the public partner, and one authorized for such decision-making, must execute the signature page of the application in order for it to be accepted. If using the fillable PDF form, the PDF is set up for electronic signature. If you prefer to sign a hard-copy, please print out the signature page separately and scan and email or upload a copy of that page along with the completed electronic application.

Eligibility Requirements

The following are the eligibility requirements for MWRD's Green Infrastructure Partnership Opportunity Program:

- Projects must be within the MWRD's corporate boundaries (follow this link to confirm: http://geohub.mwrd.org/datasets/20fc3aea83d344a19f3529a5828993af_0).
- Projects must be designed to manage stormwater using GI.
- Projects must be designed to maximize collection of off-site stormwater runoff and infiltrate within the GI installation. Projects capturing off-site stormwater runoff may be given higher consideration.
- Applicants must have (or be able to obtain) perpetual ownership or easement over the project site.
- Applicants will not use funding to satisfy required obligations due to the MWRD's Watershed
 Management Ordinance (WMO) or any other local, state, or federal regulations due to public
 development. Please note that some projects may require a WMO permit due to its own
 project disturbance, a new sewer, etc. Please refer to https://mwrd.org/wmo for additional
 information on permit requirements.
- The Applicant must be a public entity able to enter into an intergovernmental agreement (IGA) with the MWRD. Eligible public entities include municipalities, townships, county agencies, park districts, school districts, and other local government organizations.
 - ♦ Projects will be required to meet MWRD's Minority Business Enterprise (MBE), Women's Business Enterprise (WBE), and Small Business Enterprise (SBE) requirements, as well as the MWRD's Veterans Business Enterprise (VBE) goals.
 - ♦ Please see website for more information on typical IGA requirements: https://mwrd.org/Gl-app
- The Applicant must agree to maintain and operate the completed project for the service life of the installation (typically 20-30 years). All stormwater benefits provided by the project shall be maintained past the stated service life.
- The Applicant should verify the capability to perform all aspects of the project by each department within their agency or community which will take part in funding, contract administration, maintenance and other requirements of the applicant.
- All funding should be committed to the project within 6 months of selection, otherwise project
 may be subject to cancellation. Projects previously selected but cancelled due to lack of funding
 can be submitted to MWRD in the future when funding is secured.

APPLICANT INFORMATION

Organization:

Organization.		
Name:		
	State:	
Primary Contact:		
First Name:	Last Name:	
Title:		
Dhono:		

PROJECT INFORMATION

Please note MWRD ranks all GI project applications on many different criteria including but not limited to Design Retention Capacity (DRC), propensity of nearby flooding (including frequency and severity), the area draining into the GI project and number of benefitting flood-prone structures within that drainage area, and cost-effectiveness. The MWRD values projects that capture rainfall and runoff from adjacent impermeable areas beyond the footprint of the project. Historically the MWRD has selected between 10 and 20 applicants per year, typically funding up to \$800,000 of total construction costs. MWRD's funding averages around 50%, but has ranged from 10-90%, of total GI-related construction costs. The level of funding commitment by the applicant as well as other funding resources such as grants or state funding are reviewed and considered during the selection process. While these do not exclude anyone from consideration if all funding has not been identified at time of application, MWRD prioritizes projects that can be implemented within 6 months of selection.

Pro	oject Title:		
Pro	oject Description:		
1)	•		, identify all project locations, identify al et will address existing drainage/flooding
Pro	oject Location:		
2)	Street Address*:		
	or Nearest Intersection:		
	Citv:	State:	Zip Code:

If your project spans multiple locations, provide a list of addresses or intersections included with the map.

Avenue, W Columbus Avenue, and S Trumbull Avenue"

*If your project is a green alley, use the following format: "between W 80th Street, S Homan

Existing Conditions:

3)	Provide a brief description of the existing site conditions, including how the site is currently used.
4)	Describe the type and impact of flooding that this project is intended to address (e.g., overland or sewer backup, flooding of roadways, buildings, etc.). If possible, please estimate depth and width of flooded area. Please provide documentation (pictures, call data, etc.) as an attachment.
5)	Is the project located on property that is solely owned by the Applicant? \Box yes \Box no
	If no, please explain how the land rights will be secured for the project:

Project Status:

6)	Which stage below most closely describes the project's status? Note that the MWRD will review plans ranging from conceptual to fully completed designs and provide feedback to maximize the project's benefits.
	□ CONCEPTUAL — Engineering not yet initiated. Drainage/flooding areas have been identified. Sketches, retention volume estimates, & rough costs developed.
	$\hfill \square$ DESIGN — Some preliminary engineering plans, construction details, specifications, cost estimates, & retention volume estimates developed.
	☐ SHOVEL READY — Finalized (or close to final) engineered plans, construction details, specifications, cost estimate, & retention volume calculations.
7)	Will the design be completed in-house? ☐ yes ☐ no
	If no, please indicate who will be designing the project:
8)	Has this project received approval from all necessary units of your organization? For example, those responsible for maintenance and operations. \Box yes \Box no
9a)	To the best of your knowledge, does or will this project trigger any local, regional, state or other regulations for stormwater management, including the WMO? \Box yes \Box no \Box unknown at this time
	Please briefly explain your answer below.
9b)	I acknowledge that stormwater storage volume needed to meet any agency regulations (e.g. local, regional, state or other regulations for stormwater management, including the WMO) will not be reimbursed as part of this partnership. yes no
10)	Does this project require any Right-Of-Way acquisition to the best of your knowledge? \Box yes $\ \Box$ no
	If yes, have these components been started yet or what is their current status in the process? \square yes \square no
11)	What type of sewer service area does this project affect? \Box Combined \Box Separate \Box Unknown
12)	If the project being submitted is located within a separate sewer service area, is the local separate sanitary sewer satellite entity (e.g., municipality, township, sanitary district) actively working to get into in compliance with MWRD's Infiltration/Inflow Control Program (IICP)? \square yes \square no

- For more information on the IICP, including the current status of the local separate sanitary sewer satellite entity's IICP status, please see https://mwrd.org/wmo. If more information is needed, please contact mwrdi@mwrd.org.
- Please note that MWRD may also consider whether applicants have any violations associated with the WMO and/or the current status of the local separate sanitary sewer satellite entity's IICP status during the selection process.

Project	Milestone	Dates:
----------------	------------------	---------------

13)	Start Date/ Estimated Start Date for Engineering Design: (mm/dd/yy)
14)	Estimated Construction Start Date: (mm/dd/yy)
15)	Estimated Construction Duration: (calendar) days
	te: Please submit a more detailed anticipated design and construction schedule as an chment if available.
Pro	ject Metrics:
16)	Estimate the land area that will drain to the proposed GI installation. Please follow this link to mark the location(s) and to draw the drainage area(s) of your project on a map to the best of your ability. Once drawn, the drainage area will be provided by the mapping tool, which should be entered below.
	Estimated Total Drainage Area:sq. ft. oracres
	Please account for any impervious areas that can be directed to the GI installation through overland flow or any piped connections when estimating the drainage area. If additional documentation is available, please provide as an attachment to the application.
17)	Percentage impervious surfaces in drainage area (Existing Site Conditions):%
	Please estimate the percentage of the total drainage area that is currently an impervious surface (e.g., asphalt, concrete, building areas, etc.).
18)	Estimated number of structures benefitted within drainage area:
	Please include a map indicating the drainage area using the link above and location of the benefitted structures as an attachment, as required below. Note that auxiliary buildings such as residential garages, sheds, or other uninhabited structures should not be counted as a benefitted structure.
19)	Estimated impervious surface reduction:sq ft
	Please estimate the amount of impervious surfaces that will be converted into permeable surfaces.
20)	Total Area Covered by All Proposed GI Installations: sq. ft.
	On page 10, check all GI components to be installed in the project. For each type of GI, indicate the number of individual installations and the total quantity (square feet) to be installed.

21)	Estimated Design Retention Capacity (DRC) provided by all GI installations: gallons
	DRC is the volume of stormwater that can be retained by a GI installation. It can be estimated using MWRD's GI DRC Calculator which is available by downloading the excel calculator file here . Once filled in, please include your volume calculations as an attachment, as required below. Please also mark down on page 10 all GI components to be installed in the project. For each type of GI, indicate the number of individual installations and the total amount of DRC (gallons) to be installed.
22)	Do you have any indication of vertical soil infiltration rates and/or the seasonally high groundwater depth on this site or nearby from previous project? \Box yes \Box no
	If yes, please briefly describe below and include any available information as an attachment. If no information of this sort is available, please note that it will be required at the 30% or 60% design stage if your project is selected.
23)	Are there any sanitary or combined sewers within 3 vertical feet or 10 horizontal feet of the project? \Box yes \Box no
	If yes, and if your project is selected, please note that lining the sewer, replacing it with a water-main quality pipe, or providing some other type of waterproof barrier between the GI storage layer and the sewer to prevent inflow will be required as part of this project. Any protection to prevent I&I into the sewer will not be considered for MWRD reimbursement.
Pub	lic Outreach & Educational Opportunities:
24)	Describe any proposed public education and community outreach efforts relating to this project. At a base level, signs and /or plaques with educational information and acknowledgement of the project partners will be required. For example: fliers, website announcements, signs at installation, library education events, etc.

Project Visibility:

25) Describe the project's visibility. How will the project promote the implementation of GI? For example: the project site is adjacent to a park or public building, the alley is in a residential area with low visibility, this is a Metra lot with a lot of commuters and pedestrians, etc.

Maintenance:

26) Describe the resources available to provide maintenance for the GI in regards to staffing, equipment, and financial resources. Please provide previous experience in GI maintenance, if any. Please provide an Operations and Maintenance (O&M) plan, if already available, or if not, ideas on tasks that would go into the plan. Please note that O&M will be the responsibility of the partner, and that an O&M Plan will be a requirement of the Intergovernmental Agreement (IGA). Templates for Maintenance of Permeable Pavement and Rain Garden Bioswales can be found at https://mwrd.org/GI-app, and the MWRD can assist in assembling template plans for other types of GI.

Please i	nrovide the e	estimated r	maintenance cost	ner	vear for this	nro	niect \$	/\/r	
1 10030	provide trie (Hall Itel larice cost	pCi	ycai ioi tiiis	$\rho_1 \circ$	η CCL, φ	y ı	

Project Finances:

27) Please provide an estimate of the project's Capital costs below.

Cost Category	GI Project Costs (\$)*	Non-Gl Project Costs, if applicable (\$)**	Notes
Engineering and Permitting			This includes contruction inspection and management
Construction			If selected and to the extent practicable, MWRDGC biosolids shall be used in any amendments performed to the soils in the proposed project area. These biosolids will be made available free of charge and more information will be provided for those selected project partners.
Land Acquisition			If applicable
Other			
Subtotal Project Cost*** (sum of the above costs)			Maintenance costs should be excluded from this table.
Total Project Cost (sum of GI and non-GI Project Costs)			

^{*}Any restoration efforts required for GI construction can be included in GI Project Cost

^{**}Examples of non-GI project costs are lighting improvements, replacement of a surface with regular asphalt or concrete, grass turf, extensive curbing, etc.

^{***}Keep GI and non-GI costs separate here

28) Please indicate your planned funding sources below.

Funding Source	Funding Amount (\$)	Status of Funding* (Applying/Pledged/Committed)
Applicant Funding**		
MWRD Funding Request***		N/A
Additional Funding (please use the table in question #28 below)		
Total Funding**** (sum of the above amounts)		

*All funding must be committed to the project within 6 months of selection, otherwise project will be subject to cancellation. Projects previously selected but cancelled due to lack of funding are welcome to re-apply when funding is secured.

29) Please provide the proposed funding sources for the project.

Organization Name	Funding Amount (\$)	Status of Funding* (Applying/Pledged/Committed)

AI	TACHMENTS
Plea	ase indicate below if you have attached the following documents (not an exhaustive list):
_*	Map of project locations, highlighting project areas, and additional project address list. Attached here or via the supplemental mapping survey.
	Map highlighting drainage area and structures within drainage area that will benefit from the project.
*	Documentation of drainage/flooding problems (map indicating problem locations, photos, 311 calls or similar, stormwater master plan, etc.)
*	Conceptual plans including a cross-section of the proposed GI (a sketch is acceptable if the project is at an early stage)
_*	GI storage volume calculations (see question #20 and click here to download)
	Detailed schedule for design and construction
	Photos
	Engineered plans

^{**}Total funding by the agency. This will include funding from any other source.

^{***}Indicate the amount of funding being sought from MWRD. MWRD may fund up to the requested level of funding. Note that MWRD funding for selected GI projects is in the form of reimbursement of construction related costs only. Engineering, land acquisition, operations, maintenance, and other non-construction related costs are not eligible for MWRD funding.

^{****}Total Project Cost and Total Funding should be equal.

Operations and Maintenance Plan
Hydraulic & hydrological modeling results, if available
Soil boring logs or other indication of groundwater levels
Scan of signed signature form, if printed and signed by hand

Green Infrastructure Project BMP Summary (for use in completing items 19 and 20 in the application): List each type of GI installation included in this project. Add any additional BMPs not noted below to this list.

Proposed BMPs	# of Individual Installations	Total Quantity Installed	Units	Total DRC (Gallons)
Rain Gardens			Sq. Ft.	
Bioswales			Sq. Ft.	
Permeable Pavement (Concrete/ Asphalt)			Sq. Ft.	
Permeable Pavers			Sq. Ft.	
Native Plantings			Sq. Ft.	
Green Roofing			Sq. Ft.	
Rainwater Harvesting			Gal	
			•	
			•	
			•	
	Total Area	of all BMPs	s in Sq. Ft.	
	Total DRC c	of all BMPs i	n Gallons	

Note: While DRC is important, MWRD also prioritizes that the new DRC volume is best utilized by collecting runoff from more drainage area than simply what falls directly over the installation. **Therefore, MWRD prefers proposed projects to be located in low-lying areas and/or designed to collect off-site runoff to maximize infiltration of stormwater runoff.**

^{*} indicates required attachment

SIGNATURE PAGE

Applicant's Authorized Representative (must be an employee of the public agency)

First Name:	Last Name:	
Title:		
Project Title:		
Signature*:		Date:

By signing above, the Applicant acknowledges they understand the following eligibility requirements.

MWRD Green Infrastructure Partnership Opportunity Eligibility Requirements:

- Projects must be within the MWRD's corporate boundaries (follow this link to confirm: http://geohub.mwrd.org/datasets/20fc3aea83d344a19f3529a5828993af_0).
- Projects must be designed to manage stormwater using Gl.
- Projects must be designed to **maximize collection of off-site stormwater runoff and infiltrate within the GI installation**. Projects capturing off-site stormwater runoff may be given higher consideration.
- Applicants must have (or be able to obtain) perpetual ownership or easement over the project site.
- Applicants will not use funding to satisfy required obligations due to the MWRD's Watershed Management Ordinance (WMO) or any other local, state, or federal regulations due to public development. Please note that some projects may require a WMO permit due to its own project disturbance, a new sewer, etc. Please refer to https://mwrd.org/wmo for additional information on permit requirements.
- The Applicant must be a public entity able to enter into an intergovernmental agreement with the MWRD. Eligible public entities include municipalities, townships, county agencies, park districts, school districts, and other local government organizations.
 - ♦ Projects will be required to meet MWRD's Minority Business Enterprise (MBE), Women's Business Enterprise (WBE), and Small Business Enterprise (SBE) requirements, as well as the MWRD's Veterans Business Enterprise (VBE) goals.
 - ♦ Please see website for more information on typical IGA requirements: https://mwrd.org/Gl-app
- The Applicant must agree to maintain and operate the completed project for the service life of the installation (typically 20-30 years). All stormwater benefits provided by the project shall be maintained past the stated service life.

^{*} **Note:** Digital signatures are preferred, but if not comfortable digitally signing, 2 files may be submitted, a digital copy of the full application (unsigned) and a manually-signed copy of the signature page (scanned and emailed or attached to the webform).

- The Applicant should verify the capability to perform all aspects of the project by each department within their agency or community which will take part in funding, contract administration, maintenance and other requirements of the applicant.
- All funding should be committed to the project within 6 months of selection, otherwise project may be subject to cancellation. Projects previously selected but cancelled due to lack of funding can be submitted to MWRD in the future when funding is secured.

Metropolitan Water Reclamation DistrictWatershed Management Ordinance - Technical Guidance Manual

DESIGN RETENTION CAPACITY

Click **here** to download an excel worksheet which will auto calculate the DRC given a few manual inputs. An example of this **worksheet** is shown below.

	Section 1 Upstream	Drainage Area			Reference (Sheet #, report, etc)
	Design soil infiltration rate of surrounding soil				
;	(vertically, preferred to be estimated/measured at the				
	lowest excavation elevation)	i		in/hr	
	Elevation of bottom of BMP (the infiltration surface)				
7	IF there is no underdrain, OR the lowest underdrain				
	invert elevation	ELEV _{BMP}		feet	
}	Groundwater elevation	ELEV _{GW}		feet	
	Depth to seasonal groundwater level				
9	(Must be 2 feet or greater, or 3.5 feet or greater if				
	draining to combined sewer)	D_GW	0.0	feet	
	Section 3 BMP S	Specifications			Reference (Sheet #, report, etc)
	Dimensions of the bioinfiltration facility (length, width,	L		feet	
0	or area)	W		feet	
	oi alea)	A _{BMP}		square feet	
1	Depth of prepared soil	D ₁		feet	
2	Prepared soil porosity (0.25 maximum unless				
2	detailed materials report provided)	P ₁		[unitless]	
3	Depth of underlying aggregate (optional)	D ₂		feet	
,	Aggregate porosity (0.38 maximum unless detailed				
4	materials report provided)	P ₂		[unitless]	
	Surface storage volume (provide supporting				
5	calculations, max depth 12 inches)				
•	(=6" for projects with safety-limited surface storage	.,			
	(CPS))	V_{AIR}		cubic feet	
	Total media void volume = A _{BMP} * [(D ₁ * P ₁) + (D ₂ *				
16	P ₂)]				
		V _{MEDIA}	0	cubic feet	
	DRC Volume Inclu	ding Infiltration			Reference (Sheet #, report, etc)
	Depth of Prepared Soil Below Drain				
0	(if drained, if not drained, total depth of prepared				
	soil)	D ₃		feet	
1	Soil Void Volume Below Drain = (A _{BMP} *D ₃ *P ₁)	V_3	0	cubic feet	
	Depth of Prepared Aggregate Below Drain				
2	(if drained, if not drained, total depth of prepared				
	aggregate)				
	(must be less than or equal to total depth, D ₁ +D ₂)	D_4		feet	
^					
23	Aggregate Void Volume Below Drain = (A _{BMP} *D ₄ *P ₂)	V_4	0	cubic feet	
4	6-hr infiltrated volume = (i*A _{BMP} *6[hrs]/12[in/ft])	V ₅	0	cubic feet	
5	50% of Volume Above Drain = 0.5*(V _{MEDIA} -V ₄ -V ₃)	V ₆	0	cubic feet	
	1	* b	-		
6	Total Retained and Infiltration Volume	V	0	cubic feet	
-	$(V_3 + V_4 + V_5 + V_6 + V_{AIR})$	V _{DRC}			
27	V _{DRC} = Above [in Gallons] reproduce and add for multiple retention areas, 7 addit	V_{DRC}	0	gallons	



