

Setagaya Green Infrastructure Library

2021



About the Setagaya Green Infrastructure Library

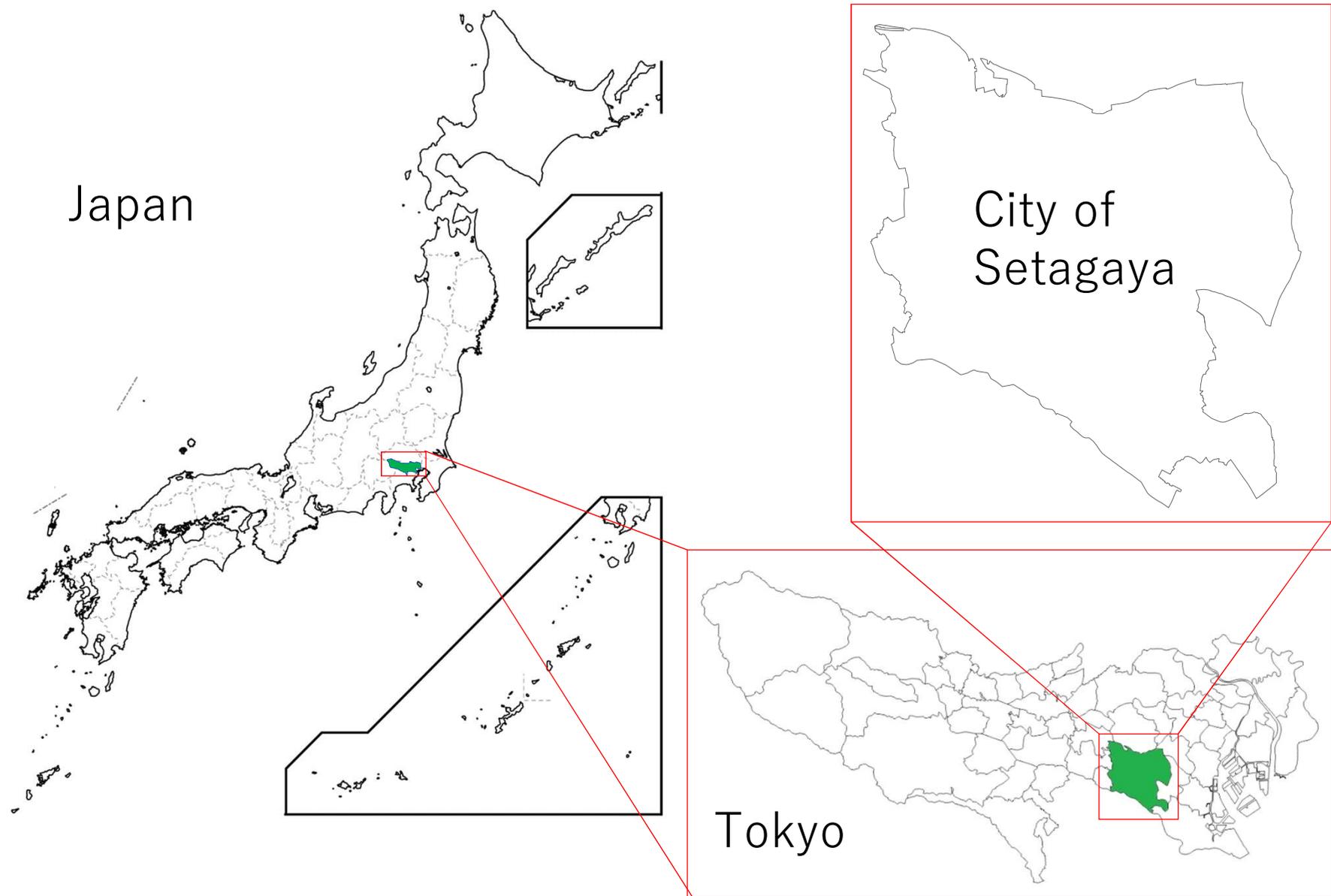
As our city has urbanized, the amount of greenery has decreased and the ground surface covered with concrete, asphalt and buildings has increased. As a result, rainwater does not soak into the ground, but instead is concentrated and flows quickly into rivers and sewers.

Since the 1950's Setagaya Ward has been working together with both the public and private sectors to reduce flooding damage as much as possible, by installing rainwater storage and infiltration facilities as well as promoting the use of rainwater infiltration and rainwater storage tanks. In recent years, we have also incorporated green infrastructure into the Setagaya Ward Basic Plan for Greenery and the Setagaya Ward Action Plan for Torrential Rain Countermeasures to promote the preservation of greenery and mitigate impacts of torrential rains. We see green infrastructure as "an initiative to promote sustainable and attractive urban development by wisely utilizing the diverse functions of the natural environment."

This "Setagaya Green Infrastructure Library" focuses on six basic functions of green infrastructure: **groundwater recharge, watershed protection, expanding green, preserving green, rainwater utilization, and heat island countermeasures**. It introduces roads, parks, buildings, and other facilities that have at least three of these functions and that were constructed since the formulation of the Basic Plan for Greenery.

Even if the effect of each facility is small, accumulatively they can have a great impact. Let's continue to work together to foster green infrastructure initiatives for the realization of a healthy and sustainable society.

Where is City of Setagaya ?



In the Setagaya Green Infrastructure Library you will find:

The name, location, type, date of establishment, area of the facility, and the notable green infrastructure facilities

Icons indicating the facility's primary functions.

The facility's unique identification number.

Information and site plan of the facility.

Name	Funabashi 4-3 Plaza	Location	4-3-1 Funabashi	Type	Park	SEGI_Pu-1
Date of establishment	March 31, 2020	Main green infrastructure facilities	① Storage within the planting zone ② Hollow area for playground and rainwater harvesting and infiltration		   	
Area	550.90㎡					

Photographs of facilities

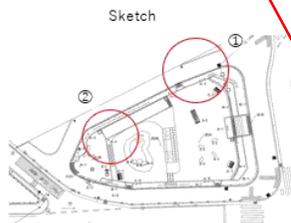
① Storage within the planting zone



② Hollow area for playground and rainwater harvesting and infiltration



Sketch



Explanation signboard



Guide Map



Summary: Funabashi 4-3 Plaza is a park with playground equipment for young children. In order to create a space where children can play even on rainy days, we created a rainwater harvesting area with a playground equipment that collects rainwater from the surrounding area and infiltrates it into the ground. An earthen retaining wall surrounds the planting area.

Rainwater storage capacity	6㎡
Rainwater infiltration volume	30㎡

 : Groundwater recharge
  : Watershed protection
  : Greening
  : Preservation of greenery
  : Rainwater utilization
  : Heat island countermeasures

Setagaya Green Infrastructure Library

Photos of notable facilities.

A narrative description of each facility, including the infiltration and storage capacity, and notable tree species.

Icon Legend



Groundwater recharge

Rainwater infiltration to conserve groundwater.



Watershed protection

Storing and infiltrating rainwater to reduce the volume of water released to rivers, streams and sewage systems.



Expanding green

Converting non-green areas such as rooftops, walls and other surfaces into green areas.



Preserving green

Protecting existing greenery and keeping it in a healthy state.



Rainwater utilization

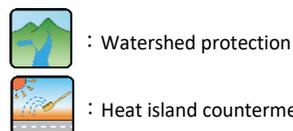
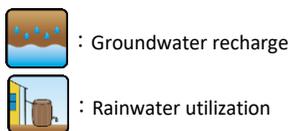
Using rainwater effectively and conserving water resources.



Heat island countermeasures

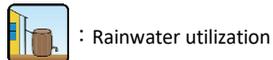
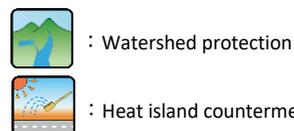
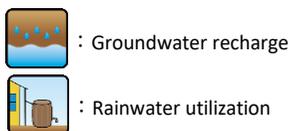
Reducing urban heat.

Contents



Number	Name	Location	Type	Main green infrastructure facilities	Effect
SEGI_Pu-1	Funabashi 4-3 Plaza	4-3-1 Funabashi	Park	① Storage within the planting zone ② Hollow area for playground and rainwater harvesting and infiltration	
SEGI_Pu-2	Yamashita Children's Park	1-11-5 Hachimanyama	Park	Playground and rainwater harvesting and infiltration basin. Storage in planting zone.	
SEGI_Pu-3	Sakuragaoka-Uzan Green Space	3-28-10 Sakuragaoka	Park	South side waterway	
SEGI_Pu-4	Kamiyoga Park	4-32-32 Kamiyoga	Park	Rain garden	
SEGI_Pu-5	Karasuyamagawa Greenway (near Shinagawa Bridge)	4-24 Setagaya	Greenway	Heat island countermeasure, flow, biotope, green curtain	
SEGI_Pu-6	Okamoto-no-oka Green Space	2-33-20 Okamoto	Park	Green ditches (turf-covered ditches), infiltration infrastructure	
SEGI_Pu-7	Sakuragaoka-Sumireba Natural Garden	4-23-12, Sakuragaoka	Park	Pond storage and well water use	
SEGI_Pu-8	Akamatsu Park, etc.	4-10-1 Akazutsumi, etc.	Park	Permeable pavement, infiltration system, plastic underground storage, infiltration tank	
SEGI_Pu-9	Futako-tamagawa Park	1-16-1 Tamagawa	Park	Green trenches, planting zone storage, plastic underground storage, and infiltration tank	
SEGI_Pu-10	Setagaya Block Street Route 7	2-23 Kaminoge to 1-16 Tamagawa	Road	Rainwater storage and infiltration using roadside planting strips	
SEGI_Pu-11	The Road(managed by City of Setagaya)	4-23 to 24 Sakuragaoka, etc	Road	Permeable pavement, infiltration system, plastic underground storage infiltration tank.	
SEGI_Pu-12	Kibogaoka Complex Institution, etc.	6-25-1 Funabashi, etc.	Road	Green parking lot	

Contents



Number	Name	Location	Type	Main green infrastructure facilities	Effect
SEGI_Pu-13	Kitazawa Town Hall 5F Rooftop Garden, etc.	2-8-18 Kitazawa, etc.	Building	Rooftop greening biotope	
SEGI_Pu-14	Setagaya Public Toilet	1-48-4 Setagaya	Building	Green wall, rainwater tank, toilets utilize rainwater in the event of disaster.	
SEGI_Pu-15	Municipal Health and Welfare Plaza (Umetopia)	6-37-10 Matsubara	Building	Water-retentive gutter (Jakago gutter), rain garden	
SEGI_Pu-16	Kinuta District Administration Office	6-2-1 Seijo	Building	Rainwater harvesting, rainwater utilization, rooftop greening☒	
SEGI_Pu-17	Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	3-4-1 Todoroki	Building	Rooftop greening, green wall, rainwater harvesting and rainwater utilization	
SEGI_Pu-18	Kamiuma-Kita Park	2-30-9 Kamiuma	Park	Storage in planting zone	
SEGI_Pr-1	AGRIS SEIJO	5-1-1 Seijo	Building, etc.	Rooftop greening facilities (community garden) using artificial ground above railroad tracks.	
SEGI_Pr-2	Green Promenade	Umegaoka to Seijo-Gakuenmae	Pathway and building	Green storage in the planting zone, permeable pavement	
SEGI_Pr-3	KYODO Corty	2-1-33 Kyodo	Building, etc.	Rooftop garden, rainwater reuse	
SEGI_Pr-4	SHIMOKITA SENROGAI	Higashi-kitazawa Station to Setagaya-Daita Station	Corridor and building	Green storage in planting zones	

Index (classification by effect)



Groundwater recharge

Funabashi 4-3 Plaza	SEGI_Pu-1
Yamashita Children's Park	SEGI_Pu-2
Sakuragaoka-Uzan Green Space	SEGI_Pu-3
Kamiyoga Park	SEGI_Pu-4
Okamoto-no-oka Green Space	SEGI_Pu-6
Sakuragaoka-Sumireba Natural Garden	SEGI_Pu-7
Akamatsu Park, etc.	SEGI_Pu-8
Futako-tamagawa Park	SEGI_Pu-9
Setagaya Block Street Route 7	SEGI_Pu-10
The Road(managed by City of Setagaya)	SEGI_Pu-11
Kibogaoka Complex Institution, etc.	SEGI_Pu-12
Municipal Health and Welfare Plaza (Umetopia)	SEGI_Pu-15
Green Promenade	SEGI_Pr-2



Watershed protection

Funabashi 4-3 Plaza	SEGI_Pu-1
Yamashita Children's Park	SEGI_Pu-2
Sakuragaoka-Sumireba Natural Garden	SEGI_Pu-7
Kamiyoga Park	SEGI_Pu-4
Okamoto-no-oka Green Space	SEGI_Pu-6
Sakuragaoka-Sumireba Natural Garden	SEGI_Pu-7
Akamatsu Park, etc.	SEGI_Pu-8
Futako-tamagawa Park	SEGI_Pu-9

Setagaya Block Street Route 7	SEGI_Pu-10
The Road(managed by City of Setagaya)	SEGI_Pu-11
Kibogaoka Complex Institution, etc.	SEGI_Pu-12
Kitazawa Town Hall 5F Rooftop Garden, etc.	SEGI_Pu-13
Setagaya Public Toilet	SEGI_Pu-14
Municipal Health and Welfare Plaza (Umetopia)	SEGI_Pu-15
Kinuta District Administration Office	SEGI_Pu-16
Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	SEGI_Pu-17
Kamiuma-Kita Park	SEGI_Pu-18
AGRIS SEIJO	SEGI_Pr-1
Green Promenade	SEGI_Pr-2
KYODO Corty	SEGI_Pr-3
SHIMOKITA SENROGAI	SEGI_Pr-4



Expanding green

Funabashi 4-3 Plaza	SEGI_Pu-1
Yamashita Children's Park	SEGI_Pu-2
Karasuyamagawa Greenway (near Shinagawa Bridge)	SEGI_Pu-5
Okamoto-no-oka Green Space	SEGI_Pu-6
Futako-tamagawa Park	SEGI_Pu-9
Setagaya Block Street Route 7	SEGI_Pu-10
Kibogaoka Complex Institution, etc.	SEGI_Pu-12
Kitazawa Town Hall 5F Rooftop Garden, etc.	SEGI_Pu-13
Setagaya Public Toilet	SEGI_Pu-14
Municipal Health and Welfare Plaza (Umetopia)	SEGI_Pu-15

Index (classification by effect)



Expanding green

Kinuta District Administration Office	SEGI_Pu-16
Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	SEGI_Pu-17
Kamiuma-Kita Park	SEGI_Pu-18
AGRIS SEIJO	SEGI_Pr-1
Green Promenade	SEGI_Pr-2
KYODO Corty	SEGI_Pr-3
SHIMOKITA SENROGAI	SEGI_Pr-4



Preserving green

Karasuyamagawa Greenway (near Shinagawa Bridge)	SEGI_Pu-5
Akamatsu Park, etc.	SEGI_Pu-8
Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	SEGI_Pu-17
Kamiuma-Kita Park	SEGI_Pu-18



Rainwater utilization

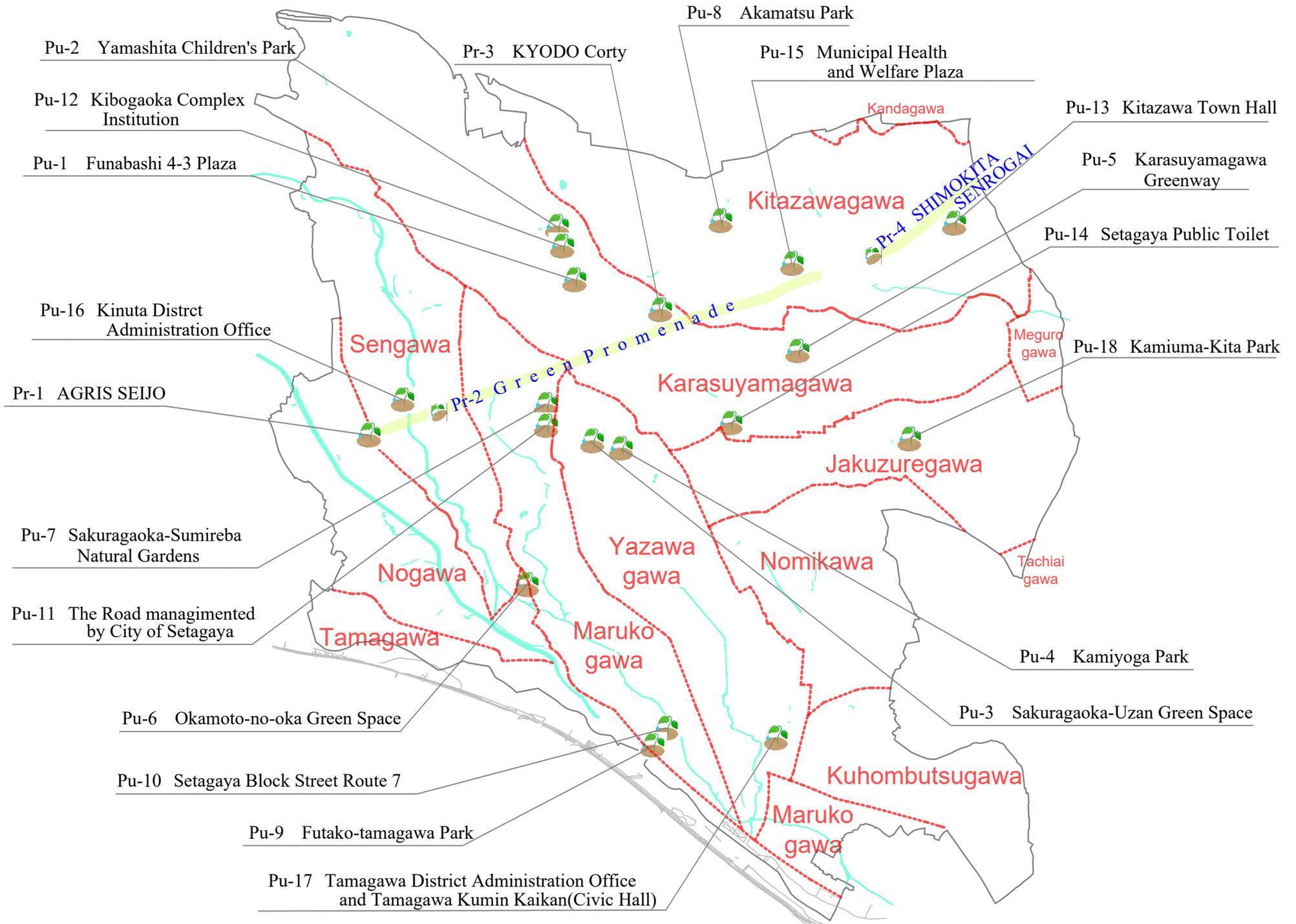
Karasuyamagawa Greenway (near Shinagawa Bridge)	SEGI_Pu-5
Sakuragaoka-Sumireba Natural Garden	SEGI_Pu-7
Setagaya Public Toilet	SEGI_Pu-14
Kinuta District Administration Office	SEGI_Pu-16
Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	SEGI_Pu-17
Kamiuma-Kita Park	SEGI_Pu-18
KYODO Corty	SEGI_Pr-3



Heat island countermeasures

Funabashi 4-3 Plaza	SEGI_Pu-1
Yamashita Children's Park	SEGI_Pu-2
Sakuragaoka-Uzan Green Space	SEGI_Pu-3
Kamiyoga Park	SEGI_Pu-4
Karasuyamagawa Greenway (near Shinagawa Bridge)	SEGI_Pu-5
Okamoto-no-oka Green Space	SEGI_Pu-6
Sakuragaoka-Uzan Green Space	SEGI_Pu-3
Akamatsu Park, etc.	SEGI_Pu-8
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Kitazawa Town Hall 5F Rooftop Garden, etc.	SEGI_Pu-13
Setagaya Public Toilet	SEGI_Pu-14
Municipal Health and Welfare Plaza (Umetopia)	SEGI_Pu-15
AGRIS SEIJO	SEGI_Pr-1
Green Promenade	SEGI_Pr-2
KYODO Corty	SEGI_Pr-3
SHIMOKITA SENROGAI	SEGI_Pr-4

Facility location by Area (River Basin)



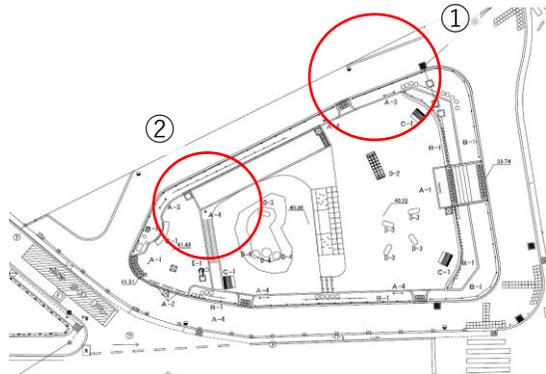
						SEGI_Pu-1		
Name	Funabashi 4-3 Plaza		Location	4-3-1 Funabashi	Type	Park		
Installation date	March 31, 2020	Main green infrastructure facilities		① Storage within the planting zone ② Hollow area for playground and rainwater harvesting and infiltration				
Area	550.90㎡							

Photographs of facilities

① Storage within the planting zone



Sketch



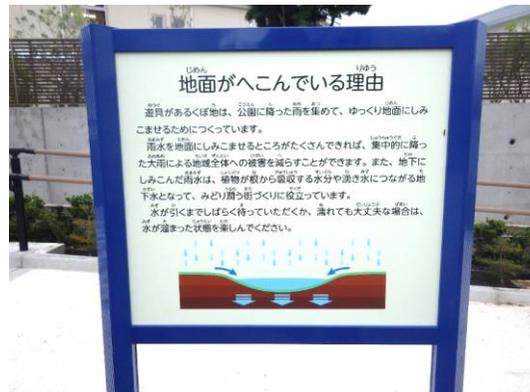
Guide Map



② Hollow area for playground and rainwater harvesting and infiltration



Explanation signboard



Summary: Funabashi 4-3 Plaza is a park with playground equipment for young children. To create a space where children can play, even on rainy days, we created a rainwater harvesting area with playground equipment that collects rainwater from the surrounding area and infiltrates it into the ground. We can see a hippo playing in the pond when the amount of water is greater than the infiltration capacity. Kids like to see the hippo in the pond! An earthen retaining wall surrounds the planting area.

Rainwater storage capacity	6m ³
Rainwater infiltration volume	30m ³

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

						SEGI_Pu-2		
Name	Yamashita Children's Park		Location	1-11-5 Hachimanyama	Type	Park		
Installation date	March 10, 2020	Main green infrastructure facilities	Playground and rainwater harvesting and infiltration basin. Storage in planting zone.					
Area	760.94m ²							

Photographs of facilities



Guide Map



Summary: Yamashita Children's Park is a park with athletic playground equipment. A sunken area with playground equipment was constructed to collect rainwater from the surrounding area that allows the rain to percolate into the ground. A crushed stone layer and a drainage pipe under the facility collects the water so it can be used for irrigation of the adjacent planting area. The planting area was also created to allow rainfall to flow into the plaza and to be stored and infiltrated. Kids can enjoy the pond appearing under the playset if the amount of water is greater than the infiltration capacity.

Rainwater storage capacity	2m ³
Rainwater infiltration volume	46m ³

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

						SEGI_Pu-3	
Name	Sakuragaoka-Uzan Green Space	Location	3-28-10 Sakuragaoka	Type	Park		
Installation date	March 31, 2004	Main green infrastructure facilities		South side waterway			
Area	1,470.32m ²						
							

Photo of facility, etc.



Southern canal



Guide Map



Summary: The Sakuragaoka-Uzan Green Space was formerly farmland. While retaining an expansive space as a grass plaza, new plantings were added to create a park with a lot of greenery. When the water level in the nearby southern canal rises, water can enter the green space and create a playground pond.

Rainwater storage capacity

Total 400m³

Rainwater infiltration volume

 : Groundwater recharge

 : Watershed protection

 : Expanding green

 : Preserving green

 : Rainwater utilization

 : Heat island countermeasures

Name	Kamiyoga Park		Location	4-32-32 Kamiyoga	Type	Park	
Installation date	March 31, 2016	Main green infrastructure facilities	Rain garden				
Area	10,033.81 m ²						

Photo of facility, etc.



公園に降った雨はどこに行くの？
 上野貴公園に降った雨は、なるべく地下にしみこむようになっています。公園に降った雨水は、まず近くの雨水槽に集まります。その雨水槽から雨水管を通じて大きな貯水槽に集まります。この公園には大きな貯水槽が地下に2つあります。雨水槽や雨水管の一部と、貯水槽には穴が開いて、集まった雨水はだんだん地下にしみこんでいきます。もし集まった雨水が貯水槽からあふれた場合は、道路の下にある下水道へ排水されます。こうして、降った雨が時間をかけて排水されることで、集中的に降った大雨による被害を減らすことができます。地下にしみこんだ雨水は、地面から樹木が吸う水分や湧き水につながる地下水となつて、みどり潤う街づくりに役立っています。

レインガーデンってなあに？
 天気がよくばです。雨(レイン)が降ると、降った雨が集まってゆっくり地面にしみこんでいく植栽地(レインガーデン)です。水辺にあるような石や草花を配置して、水辺を思わせる景色にしています。地上からは見えないけれど、地下にある雨水槽や貯水槽なども同じように、雨を集めてしみこませるといふ働きをしています。

Guide Map



Summary: The rain garden is a sunken planting area that collects rainwater from the surrounding area and allows it to percolate underground. Below the sunken garden is a layer of crushed stone and drainage pipes that lead to a rainwater storage tank. The planting area includes vegetation suitable for wetlands. This rain garden is the biggest in Setagaya-ku (As of 2021). Visitors cannot enter into the facility but can see the random rocks poking up between the vegetation.

Rainwater storage capacity 589m³

Rainwater infiltration volume 174m³

- : Groundwater recharge
- : Watershed protection
- : Expanding green
- : Preserving green
- : Rainwater utilization
- : Heat island countermeasures

						SEGI_Pu-5	
Name	Karasuyamagawa Greenway (near Shinagawa Bridge)		Location	4-24 Setagaya	Type	Greenway	
Installation date	February 28, 2017	Main green infrastructure facilities	Heat island countermeasure, flow, biotope, green curtain				
Area	-						
						 	
						 	

Photo of facility, etc.



Guide Map



Summary:In conjunction with the renovation of Shiroyama Elementary School, the adjacent Karasuyamagawa Greenway was also renovated and integrated into the school improvements. We can see that a stream and pond were built on the school grounds so that the stream flowing along the greenway could be used for environmental education, creating a space where students can come into close contact with water. (The water source is tap water because as well water was not available.) In addition, complimentary green walls were installed along the adjacent government building.

Rainwater storage capacity	—
Rainwater infiltration volume	—



: Groundwater recharge



: Watershed protection



: Expanding green



: Preserving green



: Rainwater utilization

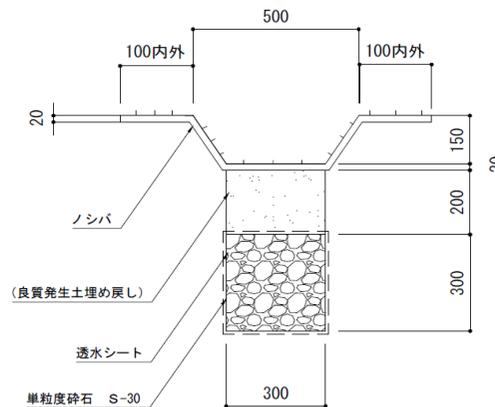


: Heat island countermeasures

Setagaya Green Infrastructure Library

						SEGI_Pu-6		
Name	Okamoto-no-oka Green Space	Location	2-33-20 Okamoto	Type	Park			
Installation date	March 31, 2020	Main green infrastructure facilities		Green ditches (turf-covered ditches), infiltration infrastructure				
Area	2,117.62m ²							

Photo of facility, etc.



Guide Map



Summary : Okamoto-no-Oka Green Space is located on a plateau along the Kokubunji Cliff Line, and it is a wonderful place for local residents to stroll and relax. In the planting area, green ditches (turf-covered drainage channels) were installed beside the park road to create a natural view. The bottom of the ditch is covered with a layer of crushed stone to increase the infiltration capacity.

Rainwater storage capacity	—
Rainwater infiltration volume	155m ³



: Groundwater recharge



: Watershed protection



: Expanding green



: Preserving green



: Rainwater utilization



: Heat island countermeasures

						SEGI_Pu-7	
Name	Sakuragaoka-Sumireba Natural Garden	Location	4-23-12, Sakuragaoka	Type	Park		
Installation date	January 31, 2003	Main green infrastructure facilities		Pond storage and well water use			
Area	6,643.81m ²						

Photo of facility, etc.



Guide Map



Summary: The Sakuragaoka-Sumireba Natural Garden was once the garden of a private mansion. It is now managed and operated with the participation and cooperation of local residents who are interested in preserving the natural environment while retaining the dry stream and lawn garden as a field where violets bloom. A small pond was created by hand to enhance biodiversity and match the shape of the dry stream. In order to maintain a water source for the pond, a drainage pipe from a disaster prevention well was installed.

Rainwater storage capacity	25m ³
Rainwater infiltration volume	36m ³

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

						SEGI_Pu-8	
Name	Akamatsu Park, etc.		Location	4-10-1 Akazutsumi, etc.	Type	Park	
Installation date	February 28, 2019	Main green infrastructure facilities	Permeable pavement, infiltration system, plastic underground storage, infiltration tank				
Area	6,921.34m ²						

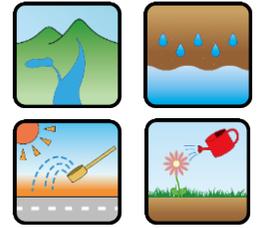


Photo of facility, etc. Akamatsu Park

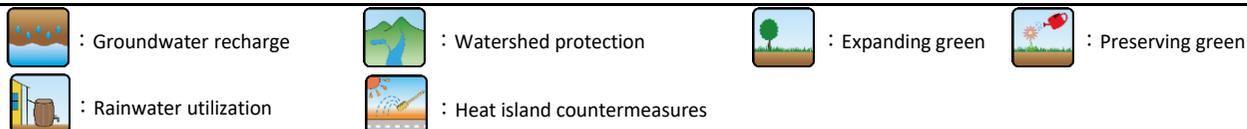


Guide Map



Summary: When new parks are built or existing parks are renovated in Setagaya, permeable pavement and drainage basins are proactively installed, as part of the efforts to reduce flooding. In addition, rainwater storage and infiltration tanks are installed where possible to take measure heavy rainfall in the area. At Akamatsu Park, a new rainwater harvesting and infiltration system was installed below the ball field area in conjunction with its complete renovation. By installing the infiltration tank under the ballfield, the need to cut down existing trees was reduced and the existing green space was preserved.

Rainwater storage capacity	438m ³
Rainwater infiltration volume	124m ³



						SEGI_Pu-9	
Name	Futako-tamagawa Park		Location	1-16-1 Tamagawa	Type	Park	
Installation date	April 14, 2013	Main green infrastructure facilities	Green trenches, planting zone storage, plastic underground storage, and infiltration tank				
Area	62,410.00m ²						

Photo of facility, etc.



Guide Map



Summary: Futako-tamagawa Park is located in an area that is expected to flood in heavy rains (according to the Setagaya Ward Hazard Map for Flooding and Inland Water Overflow). Here, rainwater control facilities were significantly enhanced to reduce impacts to the watershed. In addition to plastic underground storage tanks (with a capacity of approximately 4,400 cubic meters to control the maximum hourly rainfall of 114 mm based on the assumption of heavy rainfall in the Tokai region), green ditches and rainwater storage facilities were installed in the planting areas by the parkway, resulting in an impressive watershed storage capacity of 1,140 cubic meters per hectare.

Rainwater storage capacity	4,400m ³
Rainwater infiltration volume	2,700m ³

- : Groundwater recharge
- : Watershed protection
- : Expanding green
- : Preserving green
- : Rainwater utilization
- : Heat island countermeasures

Name	Setagaya Block Street Route 7	Location	2-23 Kaminoge to 1-16 Tamagawa	Type	Road	
Installation date	February 2020	Main green infrastructure facilities	Rainwater storage and infiltration using roadside planting strips			
Area	-					

Photo of facility, etc.



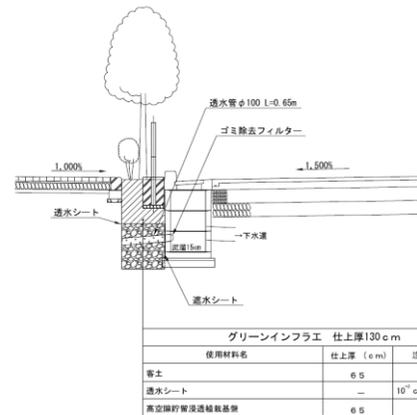
Guide Map



Summary: Setagaya Block Street Route 7 (Sekugai No. 7) is a 530-meter-long, 12-meter-wide urban planning road that was started in February 2009. A combination of drainage pavement and roadside planting strips were used to direct rainfall from the roadway to the planting strips, allowing rainwater to percolate more efficiently. For additional greening, 58 dogwood trees and 317 rhododendrons were planted in conjunction with the street improvements.



グリーンインフラ構造図



Rainwater storage capacity	27m ³
Rainwater infiltration volume	10m ³

- : Groundwater recharge
- : Watershed protection
- : Expanding green
- : Preserving green
- : Rainwater utilization
- : Heat island countermeasures

Setagaya Green Infrastructure Library

						SEGI_Pu-11		
Name	The Road(managed by City of Setagaya)	Location	4-23 to 24 Sakuragaoka, etc.	Type	Road	 		
Installation date	October 6, 2017	Main green infrastructure facilities	Permeable pavement, infiltration system, plastic underground storage infiltration tank.					
Area	-							

Photo of facility, etc.

Infiltration system



Cover (Drawn White egret flower)



Guide Map



Summary: Watershed measures are being implemented on roads throughout Setagaya including actively installing permeable pavement and infiltration basins. In addition, taking into account the groundwater level and traffic volume, we are also working on measures to reduce flooding by introducing more effective underground storage tanks and vertical infiltration traps on roads where possible. Since these facilities are susceptible to clogging due to sediment and dust, they are regularly cleaned and maintained to keep them functional.

Plastic underground storage tanks



Permeable pavement



Surface



(Normal surface)

Rainwater storage capacity	22m ³
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Rainwater infiltration volume	31m ³
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 : Groundwater recharge

 : Watershed protection

 : Expanding green

 : Preserving green

 : Rainwater utilization

 : Heat island countermeasures

						SEGI_Pu-12	
Name	Kibogaoka Complex Institution, etc.	Location	6-25-1 Funabashi, etc.	Type	Road		
Installation date	February 1, 2019	Main green infrastructure facilities		Green parking lot			
Area	6,342.98m ²						

Photo of facility, etc.

Kibogaoka Complex



Yoga Sub-branch



Daita Community Center



Shiroyama Branch Office



Guide Map



Summary: Most parking lots are constructed with impermeable asphalt, providing many opportunities to consider alternative green infrastructure techniques. Although permeable pavement and green parking lots require more effort to maintain and manage, they are an effective tool to reduce urban heat and increase ground water recharge.

Rainwater infiltration volume

Kibogaoka Complex Institution : 1.2m ³	Yoga Sub-branch : 1.2m ³
Daita Branch Office : 3.7m ³	Shiroyama Branch Office : 1.0m ³



: Rainwater utilization



: Heat island countermeasures



: Watershed protection



: Expanding green



: Preserving green

Setagaya Green Infrastructure Library

						SEGI_Pu-13	
Name	Kitazawa Town Hall 5F Rooftop Garden, etc.	Location	2-8-18 Kitazawa, etc.	Type	Building		
Installation date	February 28, 2008	Main green infrastructure facilities		Rooftop greening biotope			
Area	2,142.32m ²						

Photo of facility, etc.



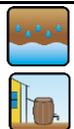
Guide Map



Summary: Setagaya Ward promotes the greening of public facilities by implementing the Basic Greenery Ordinance. Rooftop gardens enable effective greening within a limited site area, and they contribute to more efficient indoor air conditioning and countermeasures against urban heat. The Kitazawa Town Hall rooftop garden also has other attractive features including a place for visitors to relax and a biotope that serves as a migration route where small living creatures can be observed.

Rainwater storage capacity	0.85m ³
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Rainwater infiltration volume	—
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: Groundwater recharge



: Watershed protection



: Expanding green



: Preserving green



: Rainwater utilization



: Heat island countermeasures

Setagaya Green Infrastructure Library

						SEGI_Pu-14	
Name	Setagaya Public Toilet		Location	1-48-4 Setagaya	Type	Building	 
Installation date	February 28, 2020	Main green infrastructure facilities	Green wall, rainwater tank, toilets utilize rainwater in the event of disaster.				 
Area	75.3m ²						

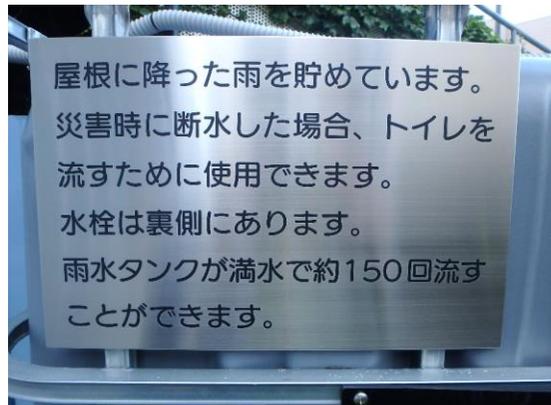
Photo of facility, etc.



Guide Map



Summary: The Setagaya Public Toilet was renovated in FY 2020 to replace aging facilities and to make it barrier-free. At the time of renovation, a large rainwater tank was installed to secure water for the toilets in the event of a disaster. The green wall on the stairs, which existed before the renovation, was left in place in consideration of the environment and view. On a typical day about 100 people a day use this facility, and during the Setagaya Boro Market, it is used by many more market visitors, making it an important community facility.



Rainwater storage capacity	1m ³
Rainwater infiltration volume	—

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

						SEGI_Pu-15	
Name	Municipal Health and Welfare Plaza (Umetopia)	Location	6-37-10 Matsubara	Type	Building		
Installation date	April 1, 2020	Main green infrastructure facilities		Water-retentive gutter (Jakago gutter), rain garden			
Area	8,710.91m ²						
							

Photo of facility, etc.



Guide Map

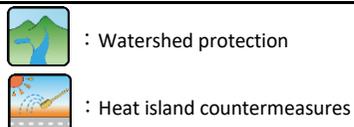
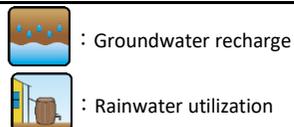


Summary: The Setagaya Ward Health and Welfare Plaza is part of Umetopia. Umetopia is a facility that was designed to improve the global environment, including the use of natural energy. In order to reduce the amount of rainwater flowing into the sewer system during heavy rains, the building is designed with terraces, and rain gardens and water-retentive vertical gutters (Jakago tubs) are installed to temporarily store rainwater, so that the entire facility functions as a green infrastructure.

Rainwater storage capacity	556m ³
Rainwater infiltration volume	53.8m ³



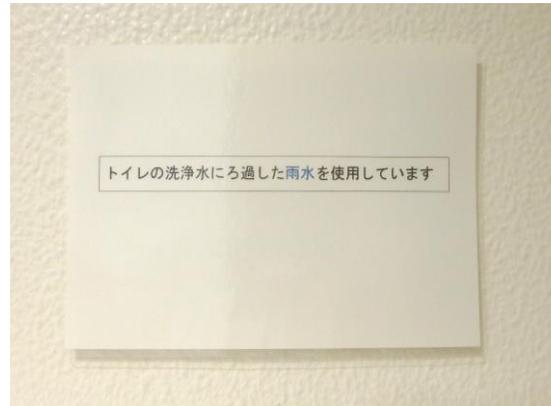
Rainwater flow



Setagaya Green Infrastructure Library

							SEGI_Pu-16	
Name	Kinuta District Administration Office	Location	6-2-1 Seijo	Type	Building			
Installation date	May 7, 2009	Main green infrastructure facilities	Rainwater harvesting, rainwater utilization, rooftop greening☑					
Area	3,363.27m ²							

Photo of facility, etc.



Guide Map



Summary: The Kinuta District Administration Office of Setagaya Ward was reconstructed in 2009 to address aging building issues and to create an earthquake-resistant and barrier-free facility. Along with the renovation, a rainwater storage tank was installed underground with a total capacity of over 700 cubic meters, of which 500 cubic meters is used for toilet flushing and watering plants. The facility also has a rooftop garden, which contributes to the reduction of urban heat.

Rainwater storage capacity	790m ³
Rainwater infiltration volume	—



-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

		SEGI_Pu-17			
Name	Tamagawa District Administration Office and Tamagawa Kumin Kaikan(Civic Hall)	Location	3-4-1 Todoroki	Type	Building
Installation date	October 30, 2020	Main green infrastructure facilities	Rooftop greening, green wall, rainwater harvesting and rainwater utilization		
Area	4,205.1 m ²				



Photo of facility, etc.



Guide Map



Summary: The Tamagawa District Administration Office of Setagaya Ward is actively involved in efforts to protect the global environment, including the use of natural energy. In order to reduce the amount of rainwater flowing into the sewerage system during heavy rains, the building is designed in the form of multiple terraces. Rainwater that falls on the building is used to flush toilets, and infiltration tanks and rainwater tanks have been installed on the premises to infiltrate rainwater into the ground. In addition, the rooftop garden and the green wall contribute to efficient indoor heating and cooling and reducing urban heat.



Rainwater storage capacity	31 m ³
Rainwater infiltration volume	299 m ³

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

						SEGI_Pu-18	
Name	Kamiuma-Kita Park		Location	2-30-9 Kamiuma	Type	Park	
Installation date	February 26, 2021	Main green infrastructure facilities		Storage in planting zone			
Area	906.84㎡						
   							

Photo of facility, etc.



Guide Map

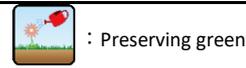
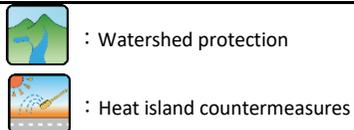
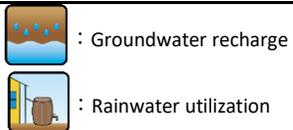


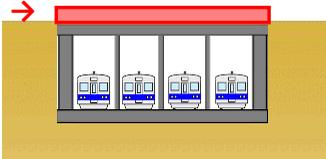
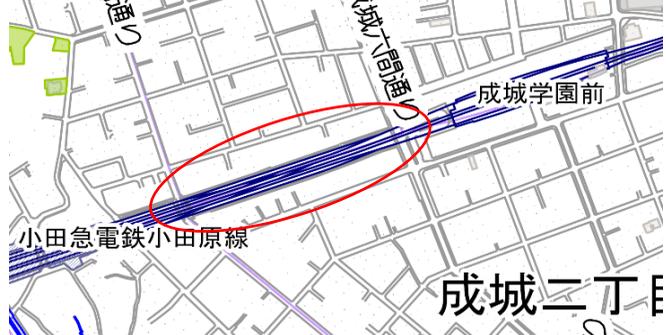
Summary: Kamiuma-kita Park is used by local residents and it is a popular place for interaction and relaxation. The park is designed so that rainfall on the dust-paved plaza can flow into the planting areas serving as irrigation water.

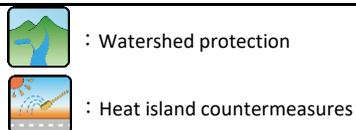
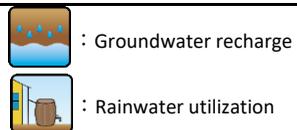


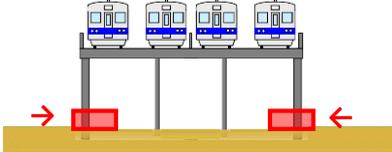
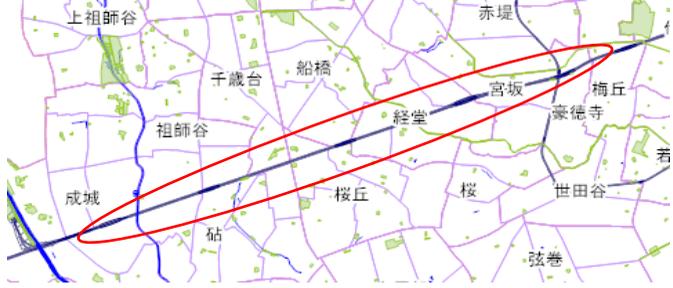
Rainwater storage capacity	1.2m ³
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Rainwater infiltration volume	1.2m ³
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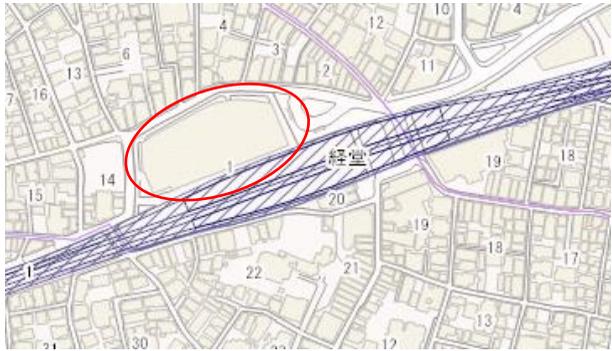


Private sector facilities						SEGI_Pr-1	
Name	AGRIS SEIJO		Location	5-1-1 Seijo	Type	Building, etc.	  
Installation date	May 2007	Main green infrastructure facilities	Rooftop greening facilities (community garden) using artificial ground above railroad tracks.				
Area	Approx, 5,000m ²						
Construction management		Odakyu Electric Railway Co.,Ltd.			Guide Map		
Photo of facility, etc.	Effective use of space created by the Odakyu Line's continuous grade separation project (removal of 28 railroad crossings in Setagaya) and multiple double track project						
				<p>Summary: AGRIS SEIJO is a community garden that utilizes the space that was created as a result of placing the railroad tracks between Seijo-Gakuenmae Station and Kitami Station underground with the Odakyu Line's continuous grade separation project. In addition to the greening of the site with 300 vegetable gardens and planting strips, the use of materials with high water retention capacity contributes to the growth of crops and the control of rainwater runoff.</p>			
							
				Rainwater storage capacity		277m ³	
				Rainwater infiltration volume		—	



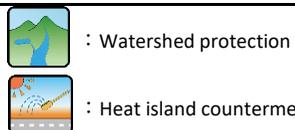
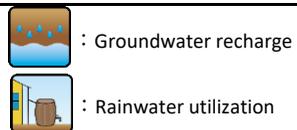
Private sector facilities						SEGI_Pr-2
Name	Green Promenade		Location	Umegaoka to Seijo-Gakuenmae	Type	Pathway and building
Installation date	2006	Main green infrastructure facilities	Green storage in the planting zone, permeable pavement			 
Area	—					
Construction management		Odakyu Electric Railway Co.,Ltd. , Odakyu SC Development Co.,Ltd.			Guide Map	
Photo of facility, etc.		<p>Effective use of space created by the Odakyu Line's continuous grade separation project (removal of 28 railroad crossings in Setagaya) and multiple double track project</p> 				
 		 		<p>Summary: For the purpose of beautifying the view, the area around the commercial facilities and under the railroad viaduct was designed as the "Green Promenade." It was created in 2006 along the side roads constructed in conjunction with the continuous grade separation project and multiple double track project between Umegaoka Station and Seijo-Gakuenmae Station on the Odakyu Line. The area around the elevated railway tracks has been created as a green and refreshing space.</p>		
Rainwater storage capacity					—	
Rainwater infiltration volume					—	

-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Rainwater utilization
-  : Heat island countermeasures

Private sector facilities						SEGI_Pr-3	
Name	KYODO Corty		Location	2-1-33 Kyodo	Type	Building, etc.	
Installation date	April 2011	Main green infrastructure facilities		Rooftop garden, rainwater reuse		  	
Area ※GFA	15,650.90㎡						
Construction management		Odakyu Electric Railway Co.,Ltd. , Odakyu SC Development Co.,Ltd.		Guide Map			
Photo of facility, etc.							
 							
 				<p>Summary: KYODO Corty is a facility with a rooftop garden, open space, and a large translucent glass roof that provides a sense of openness. It is environmentally friendly, with solar power generation and a rainwater reuse system. Rainwater that falls on the roof is stored and used for sprinkling water on the plants.</p>			
				Rainwater storage capacity		45㎡	
				Rainwater infiltration volume		—	

-  : Rainwater utilization
-  : Groundwater recharge
-  : Watershed protection
-  : Expanding green
-  : Preserving green
-  : Heat island countermeasures

Private sector facilities						SEGI_Pr-4			
Name	SHIMOKITA SENROGAI		Location	Higashi-kitazawa Station to Setagaya-Daita Station	Type	Corridor and building			
Installation date	Sequentially from April 2020	Main green infrastructure facilities	Green storage in planting zones						
Area	—								
Construction management		Odakyu Electric Railway Co.,Ltd.				Guide Map 			
Photo of facility, etc.		Effective use of space created by the Odakyu Line's continuous grade separation project (removal of 28 railroad crossings in Setagaya) and multiple double track project							
				<p>Summary: SHIMOKITA SENROGAI is a new area built on the upper part of the 1.7 km-long railroad tracks that will be placed underground as part of the Odakyu Line's continuous grade separation project between Higashi-kitazawa Station and Setagaya-Daita Station. The area is filled with many trees, plants and flowers, making it a pleasant place to spend time.</p>					
				<table border="1"> <tr> <td>Rainwater storage capacity</td> <td>—</td> </tr> <tr> <td>Rainwater infiltration volume</td> <td>—</td> </tr> </table>		Rainwater storage capacity	—	Rainwater infiltration volume	—
Rainwater storage capacity	—								
Rainwater infiltration volume	—								



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Setagaya City Green Infrastructure Agency Collaboration Platform

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