

Resolution No. 31459

A RESOLUTION establishing a City policy that green stormwater infrastructure is a critical aspect of a sustainable drainage system and adopting a 2025 goal for green stormwater infrastructure implementation in Seattle.

The City of Seattle - Legislative Department

Resolution sponsored by: [Signature]

Committee Action:

Date	Recommendation	Vote
7-16-2013	ADOPT AS AMENDED	6-0 JCA EC SB SC MD TB

Related Legislation File: _____

Date Introduced and Referred: <u>6-24-13</u>	To: (committee): <u>Libraries, Utilities, and Center</u>
Date Re-referred:	To: (committee):
Date Re-referred:	To: (committee):
Date of Final Action: <u>7-22-13</u>	Date Presented to Mayor: <u>7-23-13</u>
Date Signed by Mayor: <u>7/31/13</u>	Date Returned to City Clerk: <u>7/31/13</u>
Published by Title Only _____	Date Returned Without Concurrence:
Published in Full Text _____	

This file is complete and ready for presentation to Full Council. _____

Full Council Action:

Date	Decision	Vote
<u>7-22-13</u>	<u>Adopted</u>	<u>9-0</u>

Law Department

CITY OF SEATTLE
RESOLUTION 31459

1
2
3 A RESOLUTION establishing a City policy that green stormwater infrastructure is a critical
4 aspect of a sustainable drainage system and adopting a 2025 goal for green stormwater
5 infrastructure implementation in Seattle.

6 WHEREAS, for the purposes of this legislation, green stormwater infrastructure (GSI) is
7 synonymous with “natural drainage solutions” and is defined as the set of distributed
8 stormwater best management practices that mimic natural hydrologic function by
9 slowing and/or reducing stormwater volume close to where it falls as rain; and

10 WHEREAS, GSI best management practices include but are not limited to tree planting and
11 preservation, green/vegetated roofs, permeable pavement, stormwater cisterns, rainwater
12 harvesting and reuse, raingardens, and bioretention cells; and

13 WHEREAS, GSI is a proven approach for achieving water quality, stormwater control, flooding
14 prevention, and creek protection goals; and

15 WHEREAS, GSI reduces the strain on the City’s sewer system and stormwater system and
16 preserves system capacity, which will be important in managing Seattle’s growth and the
17 potential precipitation impacts from climate change; and

18 WHEREAS, the Green Ribbon Commission, charged with developing climate action
19 recommendations for inclusion in the next version of Seattle’s Climate Action Plan, has
20 identified enhancing the resilience of Seattle’s drainage system as a critical climate
21 adaptation measure and has recommended (as a quick start action) the adoption of a
22 green stormwater infrastructure policy that affirms GSI as the preferred stormwater
23 management tool and articulates pathways for multi-agency implementation; and

24 WHEREAS, Seattle’s Urban Forest Stewardship Plan highlights the stormwater benefits of urban
25 trees and forested park lands among the many social, ecological and economic benefits
26 of Seattle’s urban forest; and

27 WHEREAS, GSI projects should closely coordinate with urban forest recovery efforts to
28 strategically prioritize and sequence tree planting efforts; and

WHEREAS, the prioritized use of locally generated compost in GSI projects supports the City’s
solid waste management goals; and

WHEREAS, GSI can provide additional community benefits, such as increased tree canopy,
improved pedestrian safety, new small business opportunities, improvement to



1 streetscapes or bikeways that provide appreciable economic and aesthetic value, and
2 climate mitigation and adaptation value; and

3 WHEREAS, certain GSI practices have been integrated into Seattle's Green Factor landscape
4 standards and GSI is being considered as a potential component of Neighborhood
5 Greenway development and other right-of-way improvement efforts; and

6 WHEREAS, GSI provides opportunities to leverage public investment and promote public
7 education via collaborative partnerships with the private sector; and

8 WHEREAS, Seattle has been a national leader in the development and delivery of high-
9 performing GSI projects and programs for more than a decade; and

10 WHEREAS, the City will be obligated to require and use low impact development best
11 management practices in accordance with its 2013 National Pollutant Discharge
12 Elimination System municipal stormwater permit, and the City's Stormwater Code
13 requires the use of certain GSI practices to the "maximum extent feasible"; and

14 WHEREAS, green infrastructure is encouraged in the pending Combined Sewer Overflow
15 Consent Decree between the City of Seattle and the U.S. Department of Justice in the
16 form the Seattle City Council authorized by Council Bill 117481 (2012); and

17 WHEREAS, a community-wide GSI goal and coordinated approach to implementation will help
18 ensure that GSI is implemented to the maximum extent feasible and designed to improve
19 both water quality and community livability; NOW THEREFORE,

20 **BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SEATTLE, THE**
21 **MAYOR CONCURRING, THAT:**

22 Section 1. The City of Seattle recognizes green stormwater infrastructure (GSI) as a
23 critical aspect of a sustainable drainage system and an essential aspect of a livable community
24 and adopts a policy to: a) rely on GSI for stormwater management wherever technically feasible
25 and aligned with urban development priorities; and b) integrate GSI into other appropriate
26 infrastructure investments in order to maximize GSI's community benefits; and c) encourage and
27 facilitate the implementation of GSI on private land, where appropriate; and d) when
28 appropriate, encourage leveraging of City GSI dollars with outside funding; and e) explore novel



1 and innovative funding, financing and partnership opportunities to support GSI implementation
2 efforts; and f) provide opportunities for civic engagement for public GSI projects.

3
4 Section 2. The City adopts the following GSI implementation goal:
5 Seattle will strive to manage 700 million gallons of stormwater annually with GSI methods by
6 2025, to be achieved via a combination of publicly and privately owned and maintained
7 facilities.

8
9 Section 3. The Office of Sustainability and Environment (OSE) will work under
10 Executive Order 2013-01 to coordinate an interdepartmental effort to develop and deliver a
11 “2025 GSI Implementation Strategy” by June 30, 2014. Seattle Public Utilities (SPU), Seattle
12 Department of Transportation (SDOT), Department of Planning and Development (DPD),
13 Seattle City Light (SCL), and Department of Parks and Recreation (Parks) will collaborate with
14 OSE to develop and implement the strategy. In support of that strategy, OSE will work with
15 affected City departments to:

- 16 • Balance the demands of increasing density with community livability, mobility,
17 stormwater management, and other landscape functions in the public right-of-way
18 (ROW) as well as on non-ROW public and private land.
- 19 • Identify and pursue leadership opportunities for the citywide integration of GSI and
20 explore strategies to accelerate GSI implementation.
- 21 • Identify economic development and job opportunities created by increased
22 implementation of GSI and promote GSI construction methods that meet the policy goals
23 of the City’s Sustainable Purchasing Policy.



- Estimate how many gallons each department and their six-year capital improvement programs will contribute toward the goal including associated costs.

Adopted by the City Council the 22nd day of July, 2013, and signed by me in open session in authentication of its adoption this 22nd day of July, 2013.



President _____ of the City Council

THE MAYOR CONCURRING:



Michael McGinn, Mayor

Filed by me this 31st day of July, 2013.



Monica Martinez Simmons, City Clerk

(Seal)



FISCAL NOTE FOR NON-CAPITAL PROJECTS

Department:	Contact Person/Phone:	CBO Analyst/Phone:
OSE (with SPU)	Pam Emerson 206-386-4145	Melissa Lawrie 206-684-5805

Legislation Title:

Green Stormwater Infrastructure: 2025 Goal and Implementation Strategy

Summary of the Legislation:

This legislation establishes a City policy that green stormwater infrastructure (GSI) is a critical aspect of a sustainable drainage system in Seattle and sets a citywide 2025 implementation goal for GSI. It acknowledges that City departments will define a coordinated and consistent approach to achieving the goal via a 2025 GSI Implementation Strategy under Executive Order 2013-01.

Background:

The purpose of the legislation is to:

- 1) Explicitly underscore the City's policy commitment to relying on green stormwater infrastructure (GSI) for stormwater management wherever technically feasible and aligned with urban development priorities
- 2) Ensure GSI is fully integrated into the planning and design of other appropriate infrastructure investments in order to maximize community benefits and public value
- 3) Set a 2025 implementation goal for GSI in Seattle that drives coordination and innovation

The legislation is intended to articulate a clear City-wide policy stance and to support on-going City leadership in the arena of integrated urban green infrastructure.

For the purposes of this legislation, "GSI" is synonymous with "Natural Drainage Solutions" and is defined as the set of distributed stormwater best management practices that mimic natural hydrologic function by slowing and/or reducing stormwater runoff volume close to where it falls as rain. GSI practices include but are not limited to: tree planting and preservation, green/vegetated roofs, permeable pavement, stormwater cisterns, rainwater harvesting and reuse, rain gardens, and bioretention cells.

SPU has pioneered and led the City's GSI work for over a decade, via a series of increasingly large and more complex projects. This work has proven GSI's performance efficacy and has



provided substantial opportunity for honing both technical and community engagement protocols and procedures. GSI best management practices are now ripe for intentional integration into the urban fabric, more broadly. To be effective, this step requires a coordinated, City-wide, inter-departmental approach. This legislation is therefore also intended to backstop the transition of GSI implementation from a pilot project phase to a phase characterized by an integrated, City-wide approach.

 This legislation does not have any financial implications.

 X **This legislation has financial implications.**

Appropriations Notes:

No new appropriations are proposed for 2013-2014, beyond current SPU & SDOT CIP budgets.

OSE is coordinating the development of a 2025 Implementation Plan for delivery in Q2 2014. The plan will:

- 1) Detail siting and design guidance for optimizing GSI installations in the public right-of-way (including GSI integration with Neighborhood Greenways)
- 2) Outline cutting edge leadership/innovation opportunities for GSI implementation (unique capital projects, important technical research/monitoring, financing mechanism/s, etc.)
- 3) Summarize the economic value of social and environmental benefits of GSI, above and beyond water quality benefits
- 4) Project achievable GSI implementation levels given *current* funding sources and adopted budgets
- 5) Detail implementation scenarios for achieving the 2025 goal and identify projected required funding levels/breakdown for each. Project types/funding sources will include: City appropriations, grant/foundation funding, public-private leveraging, King County partnerships, Federal and state funding sources, and innovative funding mechanisms such as fee-in-lieu.

Table 1 summarizes a starting point for this analysis, breaking out past, current and to-be-determined GSI implementation by project type/funding source. Implementation units are in millions of gallons managed annually.



Table 1:
Baseline for 2025 Implementation Plan // Scenario Development (gallons managed annually with GSI)

Type of Project (Funding Source)	Past (2000-2013)	% of Past Project total (119.4 M gal.)	Present Trajectory (2013-2018 estimates based on current policy & adopted CIP budgets)	% of Present Trajectory total (105.8 M gal.)	To Be Determined (One potential scenario which will serve as a starting point for GSI Implementation Strategy development)	% of TBD total (488.3 M gal.)		
SPU Capital Projects	SEA Streets, Carkeek, Cascade, Broadview & Pinehurst Green Grids, High Point, Thornton Creek Water Quality Channel, Ballard Pilot 115M	96%	CSO program	59.2M	56%	RainWise (beyond CSO basins)	146M	30 %
			Creek/lake Watersheds <i>[i.e.: Swale on Yale; Venema]</i>			Integrated Planning Outcome		
TBD								
Stormwater Code (Public)	0.125M	0%	Standard Projects <i>[i.e.: SDOT code-triggered projects]</i>	2M	2%	Standard Projects	19M	4%
Stormwater Code (Private)	2.98M	2.5%	Standard Projects <i>[GSI to the Maximum Extent Feasible]</i>	7.3M	7%	Large-Scale/Unique Projects <i>i.e.: Central Waterfront, etc.</i>		
Strategic Partnerships (cost-sharing, beyond code)		0%	King County RainWise <i>Estimates in flux right now, per negotiations w/KC</i>	29.1M	27.5%	Standard Projects	221.4M	45%
			King County Barton Basin Roadside Bioretention			Large-Scale Redevelopment <i>i.e.: 2030 District, Light Rail Stations, etc.</i>		
						Fee-in-Lieu of Code Req.		
						State-Funded ROW Retrofit Program		
Voluntary Action	[green roofs, non-code] 1.3M	1%	Green Factor <i>[beyond SW code]</i>	8.2M	7.8%	Grant-Funded Innovation Program	39.5M	8%
			12,000 Rain Gardens			King County GSI for CSO Reduction		
			SDOT <i>[Complete Streets, Street Fund, etc.]</i>			Stormwater Facility Credit (Update)		
TBD								
TOTAL	119.4M			105.8M			488.3	
SUM TOTAL				225.2M			700M	

Of all potential future funding sources, there is greatest near-term certainty around SPU's projected investments (through 2018). Table 2 summarizes SPU's 2013-2018 CIP budget. A discussion of operations and maintenance (O&M) costs follows Table 2.

Table 2:
SPU Green Stormwater Infrastructure CIP Cost Summary Information: 2013-2018
 (millions of dollars, rounded)

Program Area	2013		2014	2015	2016	2017	2018	
	Adopted	Projected	Projected	Projected	Projected	Projected	Projected	
Combined Sewer Overflow Basins (TOTAL)	4.8	4.2	5.7	6.3	6.1	4.9	4.0	
Right-of-Way	3.4	2.1	3.0	4.2	3.6	3.2	4.0	
RainWise	1.4	2.1	2.7	2.1	2.5	1.7	0	
Venema Basin	0.50	0.59	2.43	1.22	0	0	0	
Swale on Yale	2.48	2.82	0.26	0.24	2.52	0.24	0.69	
TOTAL	7.8	7.6	8.4	7.7	8.6	5.1	4.7	
SUM TOTAL								42.1

O&M costs

Current data for the O & M costs of City-owned roadside green stormwater infrastructure (rain gardens or natural drainage systems in the right-of-way) estimates \$2.00 - \$2.60 per square foot of GSI facility (annually), depending on the density of facilities to be managed, contracting structures, landscape maturity, and summer watering demand. This estimate includes the entire landscaped area, hardscape area, crew travel and labor, any needed replacement material, and program management costs.

A conservative estimate for a representative long block (660') where stormwater runoff is fully managed with roadside natural drainage systems will have approximately 4500 square feet of landscaped area, depending on variables such as the depth of the swale, soil infiltration rate, and the designed performance target. This equates to an estimated annual O&M cost of \$9000-\$11700, per fully managed block.



As a point of reference, the current budgeted scope for a potential "Phase II" set of roadside bioretention (GSI) facilities in Ballard for combined sewer overflow control is to site and design up to 10 long blocks (or 20 short – 330' – blocks).

Anticipated Revenue/Reimbursement Resulting from this Legislation:

None

Total Regular Positions Created, Modified, or Abrogated through this Legislation, Including FTE Impact:

None

Other Implications:

a) Does the legislation have indirect financial implications, or long-term implications?

Yes. The primary (short term) indirect cost is the staff time required for inter-departmental coordination and formal review of the 2025 GSI Implementation Strategy under Executive Order 2013-01. This cost is estimated to be no more than 4 hours per week (.1 FTE) for 6 months, in these key departments: SPU, DPD, SDOT, SCL and Parks. OSE has existing staff capacity for leading inter-departmental coordination and strategy development, and it is expected that the coordination role within other affected departments will also be staffed with existing resources.

Possible long-term implications are discussed above.

b) What is the financial cost of not implementing the legislation?

One of the main purposes of the legislation is to gain efficiencies (such as avoided community engagement costs achieved via coordinated inter-departmental outreach processes and avoided capital costs achieved via coordinated and purposefully sequenced right-of-way improvement planning, design and construction). These efficiencies would be unlikely if the legislation were not implemented.

c) Does this legislation affect any departments besides the originating department?

Yes. The legislation has policy implications on OSE, SPU, FAS, DPD, SDOT, SCL and Parks, who are all required to pursue a coordinated approach to GSI planning and implementation to achieve the 2025 target. SPU and OSE have briefed the directors of impacted departments, and department staff will participate in the development of the GSI Implementation Strategy.

d) What are the possible alternatives to the legislation that could achieve the same or similar objectives?

The main alternative is the status quo: No established GSI policy and no goal for GSI implementation in Seattle. Leadership will continue to come from SPU and coordination will proceed on an ad-hoc basis, as a function of staff-level good will and volunteered time.

e) Is a public hearing required for this legislation?

No hearing is required.

f) Is publication of notice with *The Daily Journal of Commerce* and/or *The Seattle Times* required for this legislation?

No.

g) Does this legislation affect a piece of property?

No.

h) Other Issues:

No other issues are identified at this time.

List attachments to the fiscal note below:

None

CITY OF SEATTLE
RESOLUTION 31459

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11 departments to:

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THIS VERSION IS NOT ADOPTED



1
2 Adopted by the City Council the ____ day of _____, 2013, and
3 signed by me in open session in authentication of its adoption this ____ day
4 of _____, 2013.

5 _____
6 President _____ of the City Council

7
8 THE MAYOR CONCURRING:

9
10 _____
11 Michael McGinn, Mayor

12
13 Filed by me this ____ day of _____, 2013.

14
15 _____
16 Monica Martinez Simmons, City Clerk

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18 (Seal)
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21
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25
26

THIS VERSION IS NOT ADOPTED





City of Seattle
Office of the Mayor

February 19, 2013

Honorable Sally J. Clark
President
Seattle City Council
City Hall, 2nd Floor

Dear Council President Clark:

I am pleased to transmit the attached Resolution that supports a City policy direction to rely on green stormwater infrastructure wherever it is technically feasible and aligned with urban development priorities. Green stormwater infrastructure (GSI) – which includes tree planting and preservation, roadside bioretention swales, green roofs, raingardens, stormwater cisterns, pervious paving, and rainwater harvesting and reuse – is a set of proven best practices for managing stormwater. This proposed Resolution adopts a 2025 implementation goal for GSI in Seattle and calls for City leadership in the use of GSI.

Our citywide goal is to manage 700 million gallons of stormwater annually with GSI approaches by the year 2025. This community-wide goal is equivalent to managing 1000 gallons per resident annually, given current population projections for Seattle, and will include public projects, incentivized projects, private code-triggered projects, and voluntary, partner-led projects. The Office of Sustainability and Environment will lead efforts to develop an inter-departmental 2025 GSI Implementation Plan to be delivered to Council no later than the end of Q2 2014.

Seattle Public Utilities has been a national leader in the development of innovative GSI projects for over a decade, and our Stormwater Code was updated in 2009 to require the use of GSI “to the maximum extent feasible.” The adoption of a cohesive policy statement will build on these achievements by helping drive on-going innovation, hasten implementation, and inspire public-private partnerships. We will work to remove any internal barriers that may exist and will invite the creativity of the design community, private developers, community partners and property owners to ensure the implementation of more sustainable drainage practices. During this next period of development in our city, we have a chance to align our stormwater management goals and practices with our related sustainability goals of climate neutrality, climate adaptation, urban forest stewardship and pedestrian and bicycle safety. The City of Seattle is well-positioned to deliver next-generation infrastructure that achieves multiple benefits and builds beauty and resiliency into our neighborhoods.

The proposed policy statement and adoption of a 700M gallon goal will not only help our city manage stormwater more sustainably, but will also challenge us to develop solutions that are multi-functional, high-value, and lasting.

Thank you for your consideration of this legislation. Should you have questions, please contact Pam Emerson at 206-386-4145.

Sincerely,

Michael McGinn
Mayor of Seattle

cc: Honorable Members of the Seattle City Council

Michael McGinn, Mayor
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mike.mcgin@seattle.gov



STATE OF WASHINGTON -- KING COUNTY

--SS.

301405
CITY OF SEATTLE, CLERKS OFFICE

No.

Affidavit of Publication

The undersigned, on oath states that he is an authorized representative of The Daily Journal of Commerce, a daily newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a daily newspaper in Seattle, King County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper. The Daily Journal of Commerce was on the 12th day of June, 1941, approved as a legal newspaper by the Superior Court of King County.

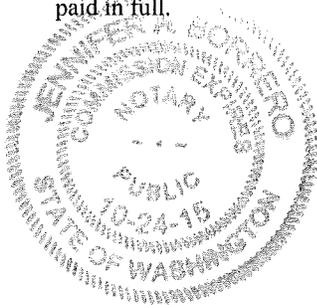
The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:31459,61 & 66 TITLE

was published on

08/15/13

The amount of the fee charged for the foregoing publication is the sum of \$49.50 which amount has been paid in full.



[Signature]
Subscribed and sworn to before me on
08/15/2013 *[Signature]*

Notary public for the State of Washington,
residing in Seattle

Affidavit of Publication

State of Washington, King County

City of Seattle

The full text of the following legislation, passed by the City Council on July 22, 2013, and published below by title only, will be mailed upon request, or can be accessed at <http://clerk.seattle.gov>. For information on upcoming meetings of the Seattle City Council, please visit <http://www.seattle.gov/council/calendar>. Contact: Office of the City Clerk at (206) 684-8344.

RESOLUTION NO. 31459

A RESOLUTION establishing a City policy that green stormwater infrastructure is a critical aspect of a sustainable drainage system and adopting a 2025 goal for green stormwater infrastructure implementation in Seattle.

RESOLUTION NO. 31461

A RESOLUTION relating to the 3rd Avenue Transit Corridor Design Concept and recommendations, Pike/Pine Retail Core Urban Design Concept and other Downtown streetscape improvements related to the Center City Initiative; and addressing the funding plan and steps for implementation.

RESOLUTION NO. 31466

A RESOLUTION in support of expanded housing options and greater tax fairness.
Date of publication in the Seattle Daily Journal of Commerce, August 15, 2013.

8/15(301405)