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OFFICE OF THE CITY CLERK
OAKLAND

CITY OF OAKLAND 2017 APR 27 PM 12:42

AGENDA REPORT

TO: Sabrina B. Landreth
City Administrator

FROM: Christine Daniel
Interim Director, OPW

SUBJECT: Resolution Adopting City of Oakland
Green Infrastructure Plan Framework

DATE: April 17, 2017

City Administrator Approval

Date:

4/27/17

RECOMMENDATION

Staff Recommends That City Council Approve A Resolution Adopting The City Of Oakland's Framework For The Development Of A Green Infrastructure Plan.

EXECUTIVE SUMMARY

Oakland is regulated in its discharge of stormwater by the San Francisco Bay Regional Water Quality Control Board (Water Board) under the 2015 Municipal Regional Stormwater, National Pollutant Discharge Elimination System (NPDES) Permit (MRP). In order to be in compliance with the MRP, the City of Oakland must submit to the Water Board a Green Infrastructure Plan (GI Plan) by September 30, 2019. As a milestone in creation of the GI Plan, all permittees must also submit a GI Plan Framework (Framework) for the development of the GI Plan by June 30, 2017. This report recommends adoption of the attached Framework in order to be in compliance with the MRP.

BACKGROUND / LEGISLATIVE HISTORY

"Green Infrastructure" is a term that refers to engineered structures or features that are designed to detain stormwater runoff and remove water quality pollutants. Examples of green infrastructure include rain gardens, permeable pavements, vegetated swales, green roofs, and stormwater detention tree wells.

Provision C.3.j. of the MRP, entitled *Green Infrastructure Planning and Implementation*, requires that, "Permittees shall complete and implement a Green Infrastructure Plan for the inclusion of low impact development drainage design into storm drain infrastructure on public and private lands, including streets, roads, storm drains, parking lots, building roofs, and other storm drain infrastructure elements" by September 30, 2019.

The provision also requires permittees to develop, adopt, and submit to the Water Board a Framework that describes tasks and timeframes for the development of the GI Plan by June 30, 2017.

Item: _____
Public Works Committee
May 9, 2017

ANALYSIS AND POLICY ALTERNATIVES

To meet the June 30, 2017 requirement, staff recommends adoption of the City of Oakland's Framework (Attachment A). The Framework utilizes the template developed by the Alameda Countywide Clean Water Program for use by all of its 17 member agencies. Additionally, the template is modeled after guidance developed by the Bay Area Stormwater Management Agencies Association (BASMAA) for regional consistency in Framework format among all cities regulated by the MRP. The Framework includes purpose, deadlines, tasks, evaluation of funding sources, training and outreach, and timeframes for development.

FISCAL IMPACT

There is no cost for the adoption of the developed Framework.

PUBLIC OUTREACH / INTEREST

The requirement to create and adopt a GI Plan Framework is a regulatory requirement of the MRP. Adoption of the MRP was a public process that included public hearings, notifications, and solicitation of input from the public, municipal agencies, and non-governmental organizations.

COORDINATION

The Office of the City Attorney and the Budget Office were consulted in the preparation of this report.

SUSTAINABLE OPPORTUNITIES

The development of a Green Infrastructure Plan was called out as a Flagship Action in the City's 2016 Resilient Oakland playbook in order to improve social, environmental, and economic outcomes.

Economic: The inclusion of green infrastructure in public and private projects can result in infrastructure maintenance and capital improvement cost savings for cities. Installation of green infrastructure has also been shown to improve property values and attract investment.

Environmental: Green Infrastructure projects improve water quality and flood risk reduction, create healthier ecosystems, improve air quality, and can sequester carbon, among other benefits.

Social Equity: Green infrastructure projects beautify neighborhoods and create healthier environments in communities.

ACTION REQUESTED OF THE CITY COUNCIL

Staff recommends that City Council Approve a Resolution Adopting the City of Oakland's Framework for the Development of a Green Infrastructure Plan.

For questions regarding this report, please contact Kristin Hathaway, Watershed Program Supervisor, at (510) 238-7571.

Respectfully submitted,



Christine Daniel
Interim Director, Oakland Public Works

Reviewed by:
Lesley Estes, Watershed Program Manager

Prepared by:
Kristin Hathaway, Watershed Program Supervisor
Watershed and Stormwater Management

Attachment:

A. City of Oakland's Framework for Green Infrastructure Plan Development



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ATTACHMENT A

City of Oakland
Framework for Green Infrastructure Plan Development

1. Purpose of the Green Infrastructure Plan

The purpose of the Green Infrastructure Plan is to guide the identification, implementation, tracking, and reporting of green infrastructure projects.

“Green infrastructure” refers to a variety of engineered structures or features that are designed to detain stormwater runoff in order to reduce stormwater runoff volumes and improve water quality. Examples include rain gardens, permeable pavements, vegetated swales, green roofs, and stormwater detention tree wells.

The Green Infrastructure Plan will be developed in accordance with Green Infrastructure Plan requirements in Provision C.3.j of the Municipal Regional Stormwater Permit (Regional Water Quality Control Board Order No. R2-2015-0049, adopted on November 19, 2015), which states in part:

...the [Green Infrastructure] Plan is intended to describe how Permittees will shift their impervious surfaces and storm drain infrastructure from gray, or traditional, storm drain infrastructure where runoff flows directly into the storm drain and then to the receiving water, to green—that is, to a more resilient, sustainable system that slows runoff by dispersing it to vegetated areas, harvests and uses runoff, promotes infiltration and evapotranspiration, and uses bioretention and other green infrastructure practices to clean stormwater runoff.... The Plan is intended to serve as an implementation guide and reporting tool... to set goals for reducing, over the long term, the adverse water quality impacts of urbanization and urban runoff on receiving waters.

2. Municipal Stormwater Permit Deadlines

Provision C.3.j.2.(1) of the Municipal Regional Stormwater Permit (MRP) requires the City of Oakland to approve a Framework to develop a Green Infrastructure Plan by June 30, 2017. The Green Infrastructure Plan must be submitted to the Regional Water Quality Control Board (Water Board) by September 30, 2019.

3. Specific Tasks for Plan Development

Preparation of the Green Infrastructure Plan will require the following specific tasks.

A. Identify Green Infrastructure Projects

Future green infrastructure projects will be identified for inclusion in the Green Infrastructure Plan. This will include documentation of existing plans for private and public development projects that would be subject to MRP Provision C.3 that requires development projects to include stormwater treatment facilities. The Green Infrastructure Plan will also document the continuing implementation and results of the City of Oakland's process, initiated in Fiscal Year 2015-16, to review planned capital improvement projects that are not subject to Provision C.3 stormwater treatment requirements, to identify the potential for incorporating green infrastructure. Additionally, a tool developed by the Alameda Countywide Clean Water Program (Clean Water Program) will be used to identify, map, and prioritize potential green infrastructure projects that may be included in the Green Infrastructure Plan.

B. Develop Tracking Procedures

Guidance provided by the Clean Water Program will be used to develop procedures for estimating the pollutant load reduction benefits of green infrastructure projects, and for tracking and reporting on completed projects. The procedures will be described in the Green Infrastructure Plan.

C. Incorporate Guidelines, Specifications, and Typical Designs

The Green Infrastructure Plan will incorporate standard specifications and, as appropriate, typical design details and related information necessary to incorporate green infrastructure into projects within the City of Oakland. This will be based on guidelines, specifications, and typical detail developed by the City of Oakland as well as on those developed or provided by the Clean Water Program. The City of Oakland will evaluate the materials provided by the Clean Water Program for consistency with local standards, and will revise existing guidelines, standard specifications, design details, and procedures as needed.

D. Update Planning Documents

Planning documents will be reviewed, and relevant sections of these documents will be modified, as needed, for implementing green infrastructure in public and private development projects to support the implementation of the Green Infrastructure Plan. This will include, but will not necessarily be limited to, the following planning documents:

- Oakland General Plan
- Specific Plans and Area Plans
- Complete Streets Plan
- Active Transportation Plan
- Storm Drainage Master Plan
- Urban Forestry Master Plan
- Streets Paving and Streetscape Plans

- Pavement rehabilitation work plan
- Master park plan
- Urban forestry plan
- Flood control or flood management plan
- Other plans that may affect the future alignment, configuration, or design of roadways, parking lots, buildings, and other impervious surfaces.

E. Evaluate Funding Sources

An evaluation of potential funding sources for future public green infrastructure projects will be included in the Green Infrastructure Plan. As one example, guidance provided by the Clean Water Program may be used to develop an in-lieu fee for private development projects that are constrained from fully meeting stormwater treatment measures onsite. This fee could be a potential funding source for future public green infrastructure projects.

F. Training and Outreach

Staff will receive training on green infrastructure planning, implementation, design, and maintenance at inter-departmental meetings by attending training sessions provided by the Clean Water Program. Updates and opportunities for input on the preparation of the Green Infrastructure Plan will be provided to local government advisory bodies such as the Oakland Planning Commission and the Oakland Parks and Recreation Advisory Commission.

City staff will conduct outreach to the general public and development community to provide information and solicit input regarding Green Infrastructure Plan development. Outreach will also be conducted in coordination with the Clean Water Program that will create outreach on a countywide level.

G. Compile and Implement Green Infrastructure Plan

Documentation of the tasks described above will be compiled into a Green Infrastructure Plan document. A resolution will be submitted to the Oakland City Council for review and recommended adoption in order to begin implementing the Green Infrastructure Plan.

H. Submit Plan to the Water Board

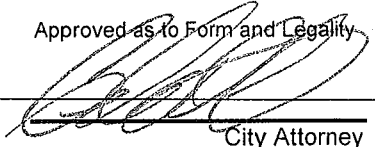
The Plan, and applicable policies or other legal mechanisms for Plan implementation, will be submitted to the Regional Water Quality Control Board (Water Board) with the City of Oakland's 2019 Annual Report of Stormwater Program Implementation.

4. Timeframe for Plan Development

The schedule for conducting specific tasks is presented below. Adoption of the Green Infrastructure Plan is scheduled for June 30, 2019. The Plan, and applicable policies or other legal mechanism for Plan implementation, must be submitted to the Regional Water Board by September 30, 2019.

Schedule of Specific Tasks

Task	FY 2016-17		FY 2017-18				FY 2018-19				FY 2019-20	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Identify Projects	[Task duration bar spanning Q3-Q4 FY16-17, Q1-Q4 FY17-18, and Q1-Q2 FY18-19]											
Develop Tracking Procedures	[Task duration bar spanning Q1-Q4 FY17-18, Q1-Q2 FY18-19]											
Incorporate Guidelines	[Task duration bar spanning Q2-Q4 FY17-18, Q1-Q2 FY18-19]											
Update Planning Documents	[Task duration bar spanning Q2-Q4 FY17-18, Q1-Q3 FY18-19]											
Evaluate Funding Sources	[Task duration bar spanning Q1-Q4 FY17-18, Q1-Q2 FY18-19]											
Training and Outreach	[Task duration bar spanning Q3-Q4 FY16-17, Q1-Q4 FY17-18, Q1-Q4 FY18-19]											
Compile Plan	[Task duration bar spanning Q2-Q3 FY18-19]											
Adopt Plan	[Task duration bar spanning Q3-Q4 FY18-19, ending with a diamond marker in Q1 FY19-20]											
Submit Plan to Water Board	[Task duration bar spanning Q1-Q2 FY19-20, ending with a diamond marker in Q2 FY19-20]											



City Attorney

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OAKLAND

OAKLAND CITY COUNCIL

2017 APR 27 PM 12:25 **RESOLUTION NO. _____ C.M.S.**

Introduced by Councilmember _____

RESOLUTION ADOPTING THE CITY OF OAKLAND'S FRAMEWORK FOR THE DEVELOPMENT OF A GREEN INFRASTRUCTURE PLAN.

WHEREAS, the City of Oakland's stormwater requirements are regulated by the Municipal Regional Stormwater Permit (MRP), adopted by the San Francisco Bay Regional Water Quality Control Board (Water Board) on November 19, 2015 (Order No. R2-201500049); and

WHEREAS, in order to be in compliance with Provision C.3.j. of the MRP, the City of Oakland is required to prepare, adopt, and submit a Green Infrastructure Plan to the Water Board by September 30, 2019; and

WHEREAS, as a milestone in the preparation of the Green Infrastructure Plan, the City of Oakland must develop, adopt, and submit to the Water Board a Green Infrastructure Plan Framework (Framework) by June 30, 2017; and

WHEREAS, a Framework has been created that describes specific tasks and timeframes for the development of a Green Infrastructure Plan; now, therefore be it

RESOLVED, that the City of Oakland's Framework conforms to the requirements of the Water Board, and be it

FURTHER RESOLVED, that the City of Oakland's Framework will be used to develop the Green Infrastructure Plan by September 30, 2019, and be it

FURTHER RESOLVED, that the Oakland City Council hereby adopts the City of Oakland's Framework for the Green Infrastructure Plan Development (Attachment A, dated April 17, 2017).

IN COUNCIL, OAKLAND, CALIFORNIA, _____

PASSED BY THE FOLLOWING VOTE:

AYES - BROOKS, CAMPBELL WASHINGTON, GALLO, GIBSON MCELHANEY, GUILLEN, KALB, KAPLAN, AND PRESIDENT REID

NOES -

ABSENT -

ABSTENTION -

ATTEST: _____

LaTonda Simmons
City Clerk and Clerk of the Council
of the City of Oakland, California