



**BERKELEY CITY COUNCIL FACILITIES, INFRASTRUCTURE,
TRANSPORTATION, ENVIRONMENT & SUSTAINABILITY COMMITTEE
REGULAR MEETING**

**Wednesday, March 9, 2022
9:30 AM**

Committee Members:

Councilmembers Terry Taplin, Kate Harrison, and Rigel Robinson
Alternate: Councilmember Sophie Hahn

**PUBLIC ADVISORY: THIS MEETING WILL BE CONDUCTED EXCLUSIVELY THROUGH
VIDEOCONFERENCE AND TELECONFERENCE**

Pursuant to Government Code Section 54953(e) and the state declared emergency, this meeting of the City Council Facilities, Infrastructure, Transportation, Environment & Sustainability Committee will be conducted exclusively through teleconference and Zoom videoconference. The COVID-19 state of emergency continues to directly impact the ability of the members to meet safely in person and presents imminent risks to the health of attendees. Therefore, no physical meeting location will be available.

To access the meeting remotely using the internet: Join from a PC, Mac, iPad, iPhone, or Android device: Use URL <https://us02web.zoom.us/j/87521348031>. If you do not wish for your name to appear on the screen, then use the drop down menu and click on "rename" to rename yourself to be anonymous. To request to speak, use the "raise hand" icon on the screen.

To join by phone: Dial **1-669-900-9128 or 1-877-853-5257 (Toll Free)** and Enter Meeting ID: **875 2134 8031**. If you wish to comment during the public comment portion of the agenda, press *9 and wait to be recognized by the Chair.

Written communications submitted by mail or e-mail to the Facilities, Infrastructure, Transportation, Environment & Sustainability Committee by 5:00 p.m. the Friday before the Committee meeting will be distributed to the members of the Committee in advance of the meeting and retained as part of the official record.

AGENDA

Roll Call

Public Comment on Non-Agenda Matters

Minutes for Approval

Draft minutes for the Committee's consideration and approval.

1. Minutes - March 2, 2022

Committee Action Items

The public may comment on each item listed on the agenda for action as the item is taken up. The Chair will determine the number of persons interested in speaking on each item. Up to ten (10) speakers may speak for two minutes. If there are more than ten persons interested in speaking, the Chair may limit the public comment for all speakers to one minute per speaker. Speakers are permitted to yield their time to one other speaker, however no one speaker shall have more than four minutes.

Following review and discussion of the items listed below, the Committee may continue an item to a future committee meeting, or refer the item to the City Council.

2. **Native and Drought Resistant Plants and Landscaping Policy Update** (*Revised Material Received*)

From: Councilmember Taplin (Author)

Referred: September 13, 2021

Due: March 19, 2022

Recommendation: Adopt a Resolution amending the Native Species/Bay-Friendly Landscaping Policy to require, when appropriate, the prioritization of native, non-invasive, and pollinator friendly plantings on City property.

Financial Implications: See report

Contact: Terry Taplin, Councilmember, District 2, (510) 981-7120

Committee Action Items

3. **Equitable Safe Streets and Climate Justice Resolution**
From: Councilmember Taplin (Author), Councilmember Bartlett (Co-Sponsor), Councilmember Hahn (Co-Sponsor)
Referred: February 22, 2022
Due: July 12, 2022
Recommendation: Adopt a resolution committing the expenditure of City and state/ federal matching/recurring funds on city-maintained roads, sidewalks, and bike lanes to accelerate safety improvements in a manner consistent with City, State, and Federal policy on street safety, equity, accessibility, and climate change; refer to the City Manager adoption of the NACTO Urban Street Design Guide as the default engineering standard for city streets, restricting city use of the Manual on Uniform Traffic Control Devices subject to engineering judgment, and transferring legal liability for safe streets designs from individual city engineering/Public Works staff to the City of Berkeley.
Financial Implications: See report
Contact: Terry Taplin, Councilmember, District 2, (510) 981-7120
4. **Referral to the Facilities, Infrastructure, Transportation, Environment & Sustainability Policy Committee Policy Committee to Consider Strategies and Make Recommendations to Council and Staff to Ensure Potential Infrastructure Bond Expenditure Is Consistent With Climate Action Goals and Other Environmental Policies**
From: Councilmember Harrison (Author), Councilmember Hahn (Co-Sponsor)
Referred: March 7, 2022
Due: September 13, 2022
Recommendation: Refer to the Facilities, Infrastructure, Transportation, Environment & Sustainability (FITES) Policy Committee Policy Committee to consider strategies and make recommendations to the Council and staff to ensure that potential infrastructure bond is consistent with Climate Action goals and other environmental policies.
Financial Implications: See report
Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

Unscheduled Items

These items are not scheduled for discussion or action at this meeting. The Committee may schedule these items to the Action Calendar of a future Committee meeting.

5. **Adopt an Ordinance Adding a Chapter 11.62 to the Berkeley Municipal Code to Regulate Plastic Bags at Retail and Food Service Establishments**
From: Councilmembers Harrison and Hahn
Referred: November 25, 2019
Due: June 30, 2022
Recommendation: Adopt an ordinance adding a Chapter 11.62 to the Berkeley Municipal Code to regulate plastic bags at retail and food service establishments.
Financial Implications: See report
Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

Unscheduled Items

6. **Adopt an Ordinance Adding a New Chapter 12.01 to the Berkeley Municipal Code Establishing Emergency Greenhouse Gas Limits, Process for Updated Climate Action Plan, Monitoring, Evaluation, Reporting and Regional Collaboration**

From: Councilmember Harrison (Author), Councilmember Bartlett (Co-Sponsor) and Councilmember Hahn (Co-Sponsor)

Referred: November 15, 2021

Due: May 7, 2022

Recommendation: 1. Adopt an ordinance adding a new Chapter 12.01 to the Berkeley Municipal Code (BMC) establishing Emergency Greenhouse Gas Limits with an effective date of [], 2022.

2. Refer to the FY23-24 Budget Process \$[] consistent with implementing the requirements of Sections 12.01.040, 12.01.050, 12.01.060.

Financial Implications: See report

Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

7. **Refer to the City Manager to Prioritize Establishment of Impact/Mitigation Fees to Address Disproportionate Private and Public Utility Impact to the Public Right of Way**

From: Councilmember Harrison (Author)

Referred: February 22, 2021

Due: March 31, 2022

Recommendation: In order to ensure equitable support of the public right of way by private and public entities that use City facilities, refer to the City Manager and City Attorney to prioritize the following in consultation with the Facilities, Infrastructure, Transportation, Environment, & Sustainability Committee:

1. establish impact and/or mitigation fees to address disproportionate private impacts to the public right of way, such as our roads and utility poles; and

2. establish transfers between sewer, waste, or other utilities as appropriate to address impacts to the public right of way.

Financial Implications: See report

Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

Items for Future Agendas

- **Discussion of items to be added to future agendas**

Adjournment

Written communications addressed to the Facilities, Infrastructure, Transportation, Environment & Sustainability Committee and submitted to the City Clerk Department will be distributed to the Committee prior to the meeting.

This meeting will be conducted in accordance with the Brown Act, Government Code Section 54953. Members of the City Council who are not members of the standing committee may attend a standing committee meeting even if it results in a quorum being present, provided that the non-members only act as observers and do not participate in the meeting. If only one member of the Council who is not a member of the committee is present for the meeting, the member may participate in the meeting because less than a quorum of the full Council is present. Any member of the public may attend this meeting. Questions regarding this matter may be addressed to Mark Numainville, City Clerk, (510) 981-6900.



COMMUNICATION ACCESS INFORMATION:

To request a disability-related accommodation(s) to participate in the meeting, including auxiliary aids or services, please contact the Disability Services specialist at (510) 981-6418 (V) or (510) 981-6347 (TDD) at least three business days before the meeting date.

I hereby certify that the agenda for this meeting of the Standing Committee of the Berkeley City Council was posted at the display case located near the walkway in front of the Maudelle Shirek Building, 2134 Martin Luther King Jr. Way, as well as on the City's website, on March 7, 2022.



Mark Numainville, City Clerk

Communications

Communications submitted to City Council Policy Committees are on file in the City Clerk Department at 2180 Milvia Street, 1st Floor, Berkeley, CA, and are available upon request by contacting the City Clerk Department at (510) 981-6908 or policycommittee@cityofberkeley.info.

**BERKELEY CITY COUNCIL FACILITIES, INFRASTRUCTURE,
TRANSPORTATION, ENVIRONMENT & SUSTAINABILITY COMMITTEE
REGULAR MEETING MINUTES**

**Wednesday, March 2, 2022
2:30 PM**

Committee Members:

Councilmembers Terry Taplin, Rigel Robinson, and Kate Harrison
Alternate: Councilmember Lori Droste

**PUBLIC ADVISORY: THIS MEETING WILL BE CONDUCTED EXCLUSIVELY THROUGH
VIDEOCONFERENCE AND TELECONFERENCE**

Pursuant to Government Code Section 54953(e) and the state declared emergency, this meeting of the City Council Facilities, Infrastructure, Transportation, Environment & Sustainability Committee will be conducted exclusively through teleconference and Zoom videoconference. The COVID-19 state of emergency continues to directly impact the ability of the members to meet safely in person and presents imminent risks to the health of attendees. Therefore, no physical meeting location will be available.

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Written communications submitted by mail or e-mail to the Facilities, Infrastructure, Transportation, Environment & Sustainability Committee by 5:00 p.m. the Friday before the Committee meeting will be distributed to the members of the Committee in advance of the meeting and retained as part of the official record.

MINUTES

Roll Call: 2:32 p.m.

Present: Taplin, Robinson, Harrison

Election of Chair

Action: M/S/C (Robinson/Taplin) to nominate Vice Mayor Harrison as Chair.

Vote: All Ayes

Public Comment on Non-Agenda Matters: 1 Speaker

Minutes for Approval

Draft minutes for the Committee's consideration and approval.

1. **Minutes – January 19, 2022**

Action: M/S/C (Robinson/Taplin) to approve the January 19, 2022 minutes as presented.

Vote: All Ayes

Committee Action Items

The public may comment on each item listed on the agenda for action as the item is taken up. The Chair will determine the number of persons interested in speaking on each item. Up to ten (10) speakers may speak for two minutes. If there are more than ten persons interested in speaking, the Chair may limit the public comment for all speakers to one minute per speaker. Speakers are permitted to yield their time to one other speaker, however no one speaker shall have more than four minutes.

Following review and discussion of the items listed below, the Committee may continue an item to a future committee meeting, or refer the item to the City Council.

2. **Adopt an Ordinance Adding a Chapter 11.62 to the Berkeley Municipal Code to Regulate Plastic Bags at Retail and Food Service Establishments**

From: Councilmembers Harrison and Hahn

Referred: November 25, 2019

Due: March 31, 2022

Recommendation: Adopt an ordinance adding a Chapter 11.62 to the Berkeley Municipal Code to regulate plastic bags at retail and food service establishments.

Financial Implications: See report

Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

Action: 3 speakers. Discussion held. The item was extended to June 30, 2022 at the request of the author, and continued to allow for the scheduling of a special meeting to serve as a business listening session.

Committee Action Items

3. **Adopt an Ordinance Adding a New Chapter 12.01 to the Berkeley Municipal Code Establishing Emergency Greenhouse Gas Limits, Process for Updated Climate Action Plan, Monitoring, Evaluation, Reporting and Regional Collaboration**
From: Councilmember Harrison (Author), Councilmember Bartlett (Co-Sponsor) and Councilmember Hahn (Co-Sponsor)
Referred: November 15, 2021
Due: May 7, 2022
Recommendation: 1. Adopt an ordinance adding a new Chapter 12.01 to the Berkeley Municipal Code (BMC) establishing Emergency Greenhouse Gas Limits with an effective date of [], 2022.
2. Refer to the FY23-24 Budget Process \$[] consistent with implementing the requirements of Sections 12.01.040, 12.01.050, 12.01.060.
Financial Implications: See report
Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140
Action: 1 speaker. Discussion held. The item was continued.

Unscheduled Items

These items are not scheduled for discussion or action at this meeting. The Committee may schedule these items to the Action Calendar of a future Committee meeting.

4. **Native and Drought Resistant Plants and Landscaping Policy Update (Revised Material Received)**
From: Councilmember Taplin (Author)
Referred: September 13, 2021
Due: March 19, 2022
Recommendation: Adopt a Resolution amending the Native Species/Bay-Friendly Landscaping Policy to require, when appropriate, the prioritization of native, non-invasive, and pollinator friendly plantings on City property.
Financial Implications: See report
Contact: Terry Taplin, Councilmember, District 2, (510) 981-7120

Unscheduled Items

5. **Refer to the City Manager to Prioritize Establishment of Impact/Mitigation Fees to Address Disproportionate Private and Public Utility Impact to the Public Right of Way**
From: Councilmember Harrison (Author)
Referred: February 22, 2021
Due: March 31, 2022
Recommendation: In order to ensure equitable support of the public right of way by private and public entities that use City facilities, refer to the City Manager and City Attorney to prioritize the following in consultation with the Facilities, Infrastructure, Transportation, Environment, & Sustainability Committee:
 1. establish impact and/or mitigation fees to address disproportionate private impacts to the public right of way, such as our roads and utility poles; and
 2. establish transfers between sewer, waste, or other utilities as appropriate to address impacts to the public right of way.**Financial Implications:** See report
Contact: Kate Harrison, Councilmember, District 4, (510) 981-7140

6. **Equitable Safe Streets and Climate Justice Resolution**
From: Councilmember Taplin (Author), Councilmember Bartlett (Co-Sponsor), Councilmember Hahn (Co-Sponsor)
Referred: February 22, 2022
Due: July 12, 2022
Recommendation: Adopt a resolution committing the expenditure of City and state/federal matching/recurring funds on city-maintained roads, sidewalks, and bike lanes to accelerate safety improvements in a manner consistent with City, State, and Federal policy on street safety, equity, accessibility, and climate change; refer to the City Manager adoption of the NACTO Urban Street Design Guide as the default engineering standard for city streets, restricting city use of the Manual on Uniform Traffic Control Devices subject to engineering judgment, and transferring legal liability for safe streets designs from individual city engineering/Public Works staff to the City of Berkeley.
Financial Implications: See report
Contact: Terry Taplin, Councilmember, District 2, (510) 981-7120

Items for Future Agendas

- None

Adjournment

Action: M/S/C (Robinson/Harrison) to adjourn the meeting.

Vote: All Ayes

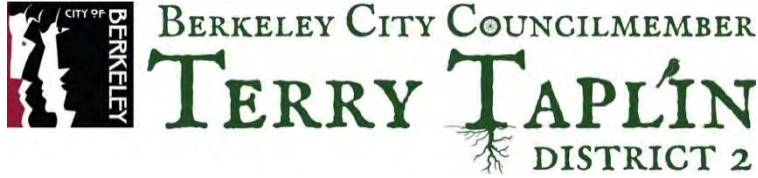
Adjourned at 3:19 p.m.

I hereby certify that this is a true and correct record of the Facilities, Infrastructure, Transportation, Environment & Sustainability Committee meeting held on March 2, 2022.

Michael MacDonald, Assistant City Clerk

Communications

Communications submitted to City Council Policy Committees are on file in the City Clerk Department at 2180 Milvia Street, 1st Floor, Berkeley, CA, and are available upon request by contacting the City Clerk Department at (510) 981-6908 or policycommittee@cityofberkeley.info.



CONSENT CALENDAR

xx/xx/2022

To: Honorable Mayor and Members of the City Council

From: Councilmember Terry Taplin

Subject: Native and Drought Resistant Plants and Landscaping Policy Update

RECOMMENDATION

Adopt a Resolution amending the Native Species/Bay-Friendly Landscaping Policy to require, when appropriate, the prioritization of native, non-invasive, and pollinator friendly plantings on City property.

BACKGROUND

As of the summer of 2021, the City of Berkeley and most of California are facing exceptional drought conditions.¹ The region's drought conditions have varied annually in the past decade, but the projects for our future under climate change are clear: California's drought will as much as triple in severity by 2050.² Drought conditions have escalated so radically that the East Bay Municipal Utility District asked residents to cut back on their water consumption.³ The City must plan for a future in which it operates successfully with significantly reduced water use and should begin using water more efficiently as soon as possible.

To plan for a long-term urban infrastructure that consumes water in a manner that reflects the drought conditions that we are certain to face in the next century, Berkeley can pursue a policy of only using native and drought-resistant plant materials in all City landscaping and public areas. While a relatively less significant consumer of water than residential and commercial buildings, the opportunity to save water by switching all City landscaping to native and drought resistant plants is immense. In addition to requiring less watering, native plant landscaping has been shown to have higher infiltration rates of water runoff, taking in water that would otherwise be discharged into sewers and filtering toxic materials before they reach the waterfront. Native plants also provide critical food and habitat for local birds and pollinators.⁴ While the use of native plants

¹ <https://www.drought.gov/states/california/county/Alameda>

² <https://statesatrisk.org/california/all>

³ <https://www.berkeleyside.org/2021/04/27/east-bay-area-water-officials-declare-drought-ask-residents-to-conserve-water>

⁴ <https://law.pace.edu/sites/default/files/Team%20%233%20Brief.pdf>

would already be helpful for supporting pollinators, special consideration should also be given to the most pollinator-friendly plants. Supporting pollinators has shown to result in stronger local biodiversity.⁵ Furthermore, native plants that are already adapted to our local environment are more resistant to extreme weather and often do not require pesticide and fertilizer use.⁶

In 2008 and 2009, the City Council partnered with the Parks and Recreation Commission to develop the “Bee Habitats and Pollinator-Friendly Vegetation Policy” by way of Resolution No. 64,376-N.S. as well as the “Bay-Friendly Landscaping Policy for City Projects” policy in Resolution No. 64,507-N.S. These policies encouraged the use of native, pollinator-friendly vegetation in city projects and plantings that reduce waste and maintenance costs, respectively. While these policies have been useful in the decade-plus that they’ve been in effect, it is time for Berkeley to update its planting policies to renew our commitment to creating a drought-resistant and pollinator-friendly urban ecology that uses native plants as much as reasonably possible.

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

Increased use of native, drought resistant, and pollinator-friendly plants on City property will make major strides towards increased urban biodiversity, reduced water usage in the maintenance of public lands, and increased resiliency of plantings on City property to extreme weather conditions.⁷

FINANCIAL IMPLICATIONS

Staff time and cost differences related to the exclusive use of native and drought-resistant plantings in City landscaping work. Increased use of native and drought resistant plants may lead to reduced landscaping maintenance work related to a reduced need for pesticides, fertilizers, and extra watering that non-native plants often require.⁸ Furthermore, the overall reduced maintenance requirements of native plantings will save the City on landscaping labor costs.

CONTACT

Terry Taplin, Councilmember, District 2, (510) 981-7120

ATTACHMENTS

1. Resolution
2. Resolution No. 64,376-N.S.
3. Resolution No. 64,507-N.S
4. Easy to Grow East Bay Native Plant List
5. California Pollinator Plants

⁵ https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/plantsanimals/pollinate/?cid=NRCS143_022326

⁶ <https://perma.cc/FK54-B7L7>

⁷ <https://sustainablecitycode.org/brief/require-use-of-native-plants/>

⁸ <https://sustainablecitycode.org/brief/require-use-of-native-plants/>

RESOLUTION NO. ##,###-N.S.

REQUIRING NATIVE & DROUGHT RESISTANT PLANTS IN ALL CITY
LANDSCAPING

WHEREAS, the City of Berkeley and the State of California are facing historic drought conditions that are projected to worsen over the course of the next half century or more, and

WHEREAS, the City of Berkeley must adapt its operations to future climate conditions characterized by excessive dryness, extreme weather, and declining populations of pollinators and other local wildlife, and

WHEREAS, the ~~exclusive~~ use of native plants in City landscaping offers an opportunity for less water-intensive landscaping throughout Berkeley, and

WHEREAS, native plants intake and filter toxic water runoff more easily than non-native landscaping, and

WHEREAS, native plants provide critical food and habitat for native animals and pollinators that are at risk under future climate conditions, and

WHEREAS, pollinator-friendly plants provide a natural boost to local biodiversity, and

WHEREAS, the costs of native plant landscaping may reduce overall landscaping costs due to a decreased need for pesticides and fertilizers, and

WHEREAS, Resolution No. 64,376-N.S. can be updated with biodiversity goals.

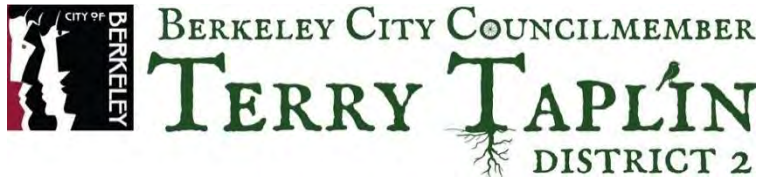
NOW THEREFORE, BE IT RESOLVED that the guidelines for Native Species/Bay-Friendly Landscaping Policy For Enhanced Biodiversity on City Property described in Exhibit A are hereby be adopted, and Resolution No. 64,376-N.S. is rescinded.

EXHIBIT A

GUIDELINES FOR NATIVE SPECIES/BAY-FRIENDLY
LANDSCAPING POLICY FOR ENHANCED BIODIVERSITY ON CITY PROPERTY

Policy Statement: To combat the critical loss of biodiversity in Berkeley and globally due to modern development and climate change, the City shall use the following guidelines for planning and implementing native plant and Bay-Friendly landscape maintenance and vegetation planting improvements on City property (City parks, open spaces, and Right-of-Way planting strips) in order to enhance biodiversity.

1. Use of native plant species that support bees and other lifeforms and are appropriate to our environment when possible and native trees that are supportive to bees where appropriate; use a diversity of the flowering shrubs, perennials, herbs, grasses, and small trees that bloom successively to produce the leaves, pollens and nectars that attract bees, other pollinators, insects, ~~and~~ birds, and leaf-chewing creatures with an emphasis on those that support local species and ecosystem; and to the greatest extent possible, use plants and trees that are low to moderate in their allergenic properties, low water use and drought-tolerant, and higher in insect and bird habitat potential. No species that are invasive in the Berkeley climate shall be used.
2. Control non-native plants and weeds that crowd out native plants that provide higher habitat value for biodiversity.
3. Strive to plant pollinator-friendly vegetation in areas of lower user density away from children's play area, restrooms, picnic tables, barbeques, refuse containers, and other park facilities where bee sting risk is greater due to normal visitor use patterns.
4. For street trees, the City seeks to plant Baymajority prioritizes its Bay Area and California native tree species that support other life forms where available growing space and/or native conditions exist, including streets, open space, parks, and Right-of-Way planting areas. In both dense urban areas and park spaces with irrigated turf, where very little native soil and water conditions remain, a diverse range of appropriate tree species shall be used that meet the following requirements: that perform successfully in small planting sites with poor soils and above and below ground constraints; that attain appropriate sizes at maturity; that exhibit safe and manageable growth patterns; that enhance biodiversity; that are drought tolerant; that build climate resilience into the urban forest; and that contribute to the City's Climate Action Goals.



CONSENT CALENDAR

xx/xx/2021

To: Honorable Mayor and Members of the City Council

From: Councilmember Terry Taplin

Subject: Native and Drought Resistant Plants and Landscaping Policy Update Ordinance Referral

RECOMMENDATION

Adopt a Resolution amending the Native Species/Bay-Friendly Landscaping Policy to require, when appropriate, the prioritization of native, non-invasive, and pollinator friendly plantings on City property. Refer to the City Manager and the Parks Commission the development of an ordinance amending the Berkeley Municipal Code to require that:

1. Plant materials (1) native to Berkeley and Northern California and (2) resistant to drought conditions shall be used exclusively in designing, planting, maintaining, and managing the landscape features of all City roadsides, parks, public areas, and other City properties and facilities.
2. Plants friendly to pollinators be given preference for use in all City landscaping projects.

BACKGROUND

As of the summer of 2021, the City of Berkeley and most of California are facing exceptional drought conditions.¹ The region's drought conditions have varied annually in the past decade, but the projects for our future under climate change are clear: California's drought will as much as triple in severity by 2050.² Drought conditions have escalated so radically that the East Bay Municipal Utility District asked residents to cut back on their water consumption.³ The City must plan for a future in which it operates successfully with significantly reduced water use and should begin using water more efficiently as soon as possible.

To plan for a long-term urban infrastructure that consumes water in a manner that reflects the drought conditions that we are certain to face in the next century, Berkeley

¹ <https://www.drought.gov/states/california/county/Alameda>

² <https://statesatrisk.org/california/all>

³ <https://www.berkeleyside.org/2021/04/27/east-bay-area-water-officials-declare-drought-ask-residents-to-conserve-water>

can pursue a policy of only using native and drought-resistant plant materials in all City landscaping and public areas. While a relatively less significant consumer of water than residential and commercial buildings, the opportunity to save water by switching all City landscaping to native and drought resistant plants is immense. In addition to requiring less watering, native plant landscaping has been shown to have higher infiltration rates of water runoff, taking in water that would otherwise be discharged into sewers and filtering toxic materials before they reach the waterfront. Native plants also provide critical food and habitat for local birds and pollinators.⁴ While the use of native plants would already be helpful for supporting pollinators, special consideration should also be given to the most pollinator-friendly plants. Supporting pollinators has shown to result in stronger local biodiversity.⁵ Furthermore, native plants that are already adapted to our local environment are more resistant to extreme weather and often do not require pesticide and fertilizer use.⁶

~~Various cities and counties throughout the country have pursued similar measures to implement native, drought resistant landscaping mandates that Berkeley can learn from in its own approach. These cities and counties include Westchester County, New York, Eugene, Oregon, and Chicago, Illinois.⁷ While Berkeley can learn from similar efforts elsewhere, each native plant ordinance is inherently different between each location with different local ecosystems. City staff will have to identify the native plants that are most practical and suitable for wide-scale use throughout the City and set planting policy accordingly.~~

~~In 2008 and 2009, the City Council partnered with the Parks and Recreation Commission to develop the “Bee Habitats and Pollinator-Friendly Vegetation Policy” by way of Resolution No. 64,376-N.S. as well as the “Bay-Friendly Landscaping Policy for City Projects” policy in Resolution No. 64,507-N.S. These policies encouraged the use of native, pollinator-friendly vegetation in city projects and plantings that reduce waste and maintenance costs, respectively. While these policies have been useful in the decade-plus that they’ve been in effect, it is time for Berkeley to update its planting policies to renew our commitment to creating a drought-resistant and pollinator-friendly urban ecology that uses native plants as much as reasonably possible.~~

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

Increased use of native, drought resistant, and pollinator-friendly plants on City property will make major strides towards increased urban biodiversity, reduced water usage in the maintenance of public lands, and increased resiliency of plantings on City property to extreme weather conditions.⁸

FINANCIAL IMPLICATIONS

⁴ <https://law.pace.edu/sites/default/files/Team%20%233%20Brief.pdf>

⁵ https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/plantsanimals/pollinate/?cid=NRCS143_022326

⁶ <https://perma.cc/FK54-B7L7>

⁷ <https://law.pace.edu/sites/default/files/Team%20%233%20Brief.pdf>

⁸ <https://sustainablecitycode.org/brief/require-use-of-native-plants/>

Staff time and cost differences related to the exclusive use of native and drought-resistant plantings in City landscaping work. Increased use of native and drought resistant plants may lead to reduced landscaping maintenance work related to a reduced need for pesticides, fertilizers, and extra watering that non-native plants often require.⁹ Furthermore, the overall reduced maintenance requirements of native plantings will save the City on landscaping labor costs.

CONTACT

Terry Taplin, Councilmember, District 2, (510) 981-7120

ATTACHMENTS

1. Resolution
2. Resolution No. 64,376-N.S.
- 1.3. Resolution No. 64,507-N.S
- 2.4. Westchester County Ordinance
- 3.5. Easy to Grow East Bay Native Plant List
- 4.6. California Pollinator Plants

⁹ <https://sustainablecitycode.org/brief/require-use-of-native-plants/>

RESOLUTION NO. ##,###-N.S.

REQUIRING NATIVE & DROUGHT RESISTANT PLANTS IN ALL CITY
LANDSCAPING

WHEREAS, the City of Berkeley and the State of California are facing historic drought conditions that are projected to worsen over the course of the next half century or more, and

WHEREAS, the City of Berkeley must adapt its operations to future climate conditions characterized by excessive dryness, extreme weather, and declining populations of pollinators and other local wildlife, and

WHEREAS, the exclusive use of native plants in City landscaping offers an opportunity for less water-intensive landscaping throughout Berkeley, and

WHEREAS, native plants intake and filter toxic water runoff more easily than non-native landscaping, and

WHEREAS, native plants provide critical food and habitat for native animals and pollinators that are at risk under future climate conditions, and

WHEREAS, pollinator-friendly plants provide a natural boost to local biodiversity, and

WHEREAS, the costs of native plant landscaping may reduce overall landscaping costs due to a decreased need for pesticides and fertilizers, and

WHEREAS, Resolution No. 64,376-N.S. can be updated with biodiversity goals.

NOW THEREFORE, BE IT RESOLVED that the guidelines for Native Species/Bay-Friendly Landscaping Policy For Enhanced Biodiversity on City Property described in Exhibit A are hereby be adopted, and Resolution No. 64,376-N.S. is rescinded. ~~the City Council of the City of Berkeley refers the City Manager and the Parks Commission to draft an ordinance requiring that:~~

- ~~1. Plant materials native to Berkeley and Northern California and resistant to drought conditions be used exclusively in designing, planting, maintaining, and managing the landscape features of all City roadsides, parks, public areas, and other City properties and facilities.~~
- ~~2. The selection process for native and drought resistant plants in City landscaping projects give preference to pollinator plants.~~
- ~~3. Contracts with the City of Berkeley involving landscaping and/or plantings shall, when appropriate, require the use of native and drought resistant plant materials.~~

EXHIBIT A

GUIDELINES FOR NATIVE SPECIES/BAY-FRIENDLY
LANDSCAPING POLICY FOR ENHANCED BIODIVERSITY ON CITY PROPERTY

Policy Statement: To combat the critical loss of biodiversity in Berkeley and globally due to modern development and climate change, the City shall use the following guidelines for planning and implementing native plant and Bay-Friendly landscape maintenance and vegetation planting improvements on City property (City parks, open spaces, and Right-of-Way planting strips) in order to enhance biodiversity.

1. Use native plant species where appropriate; use a diversity of the flowering shrubs, perennials, herbs, grasses, and small trees that bloom successively to produce the pollens and nectars that attract bees, other pollinators, insects, and birds; and to the greatest extent possible, use plants and trees that are low to moderate in their allergenic properties, low water use and drought-tolerant, and higher in insect and bird habitat potential. No species that are invasive in the Berkeley climate shall be used.
2. Control non-native plants and weeds that crowd out native plants that provide higher habitat value for biodiversity.
3. Strive to plant pollinator-friendly vegetation in areas of lower user density away from children's play area, restrooms, picnic tables, barbecues, refuse containers, and other park facilities where bee sting risk is greater due to normal visitor use patterns.
4. For street trees, the City prioritizes its Bay Area and California native tree species where available growing space and/or native conditions exist, including streets, open space, parks, and Right-of-Way planting areas. In both dense urban areas and park spaces with irrigated turf, where very little native soil and water conditions remain, a diverse range of appropriate tree species shall be used that meet the following requirements: that perform successfully in small planting sites with poor soils and above and below ground constraints; that attain appropriate sizes at maturity; that exhibit safe and manageable growth patterns; that enhance biodiversity; that are drought tolerant; that build climate resilience into the urban forest; and that contribute to the City's Climate Action Goals.

RESOLUTION NO. 64,376-N.S.

POLICY: BEE HABITATS AND POLLINATOR-FRIENDLY VEGETATION

WHEREAS, on July 22, 2008, the Berkeley City Council referred to the Parks and Recreation Commission the research and development of policies and practices that promote bee habitats and pollinator-friendly vegetation in appropriate parks and open spaces and requested that they return with specific recommendations; and

WHEREAS, on February 23, 2009 at the Parks and Recreation Commission meeting, it was motioned, seconded, and carried (Huang/Chavez/unanimous) to recommend that Berkeley City Council adopt the attached Bee Habitats and Pollinator-friendly Vegetation Policy for use in planning and implementing landscape improvements in City parks and open spaces. Ayes: Becker, Gross, Gray, Huang, Chavez, Collier; Abstain: 0; Absent: Stephens; and

WHEREAS, planning and implementing landscape improvements in City parks and open spaces should also include parks that do not include Bee Habitats; and

WHEREAS, there are no fiscal impacts related to the proposed policy.

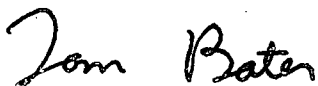
NOW THEREFORE, BE IT RESOLVED that the Council of the City of Berkeley adopts the attached Bee Habitats and Pollinator-friendly Vegetation Policy for use in planning and implementing landscape improvements in City parks and open spaces.

The foregoing Resolution was adopted by the Berkeley City Council on March 24, 2009 by the following vote:


Ayes: Anderson, Arreguin, Capitelli, Maio, Moore, Wengraf, Worthington, Wozniak and Bates.

Noes: None.

Absent: None.



Tom Bates, Mayor

Attest: 

Deanna Despain, Acting City Clerk

BEE HABITATS AND POLLINATOR-FRIENDLY VEGETATION POLICY

Policy Statement: for Use In Planning and Implementing Landscape Improvements at City Parks and Open Spaces

To support habitat preservation and development for bees and other pollinators, the Parks & Recreation Commission recommends the following guidelines in planning and implementing landscape maintenance and vegetation planting improvements in City parks and open spaces.

1. Use native plants where appropriate; use a diversity of the flowering shrubs, herbs, grasses, and small trees that bloom successively to produce the pollens and nectars that attract bees and other pollinators; and to the greatest extent possible, use plants and trees that are low to moderate in their allergenic properties.
2. Control the non-native plants and weeds that crowd out the native plants that provide habitat for bees and other pollinators.
3. Focus the planting of pollinator-friendly vegetation in lower density usage areas at least 30' away from children's play areas, restrooms, picnic tables, barbeques, refuse containers, and other park facilities where bee sting risk is greater due to normal visitor use patterns.
4. Use the Parks, Recreation & Waterfront webpage on the City of Berkeley website and temporary signage in parks to explain to the public how landscape maintenance and vegetation improvements in City parks and open spaces are planned to support habitat preservation and development for bees and other pollinators.
5. Consider the following park and open space sites for pollinator-friendly vegetation improvements due to existing native plantings and larger areas available for new plantings of flowering native plants. This is a suggested list only.

Cesar Chavez Park
 Live Oak Park
 Codornices Park/Rose Garden
 Ohlone Park

Aquatic Park
 Indian Rock Park
 John Hinkel Park
 Grotto Rock Park

RESOLUTION NO. 64,507-N.S.

BAY-FRIENDLY LANDSCAPING POLICY FOR CITY PROJECTS

WHEREAS, the City finds that conventional landscaping within the City can contribute to environmental degradation, excessive consumption of fossil fuels, landfill waste and pollution; and

WHEREAS, the City finds that green landscaping is a whole-systems approach that seeks to conserve natural resources, reduce waste, minimize water and pesticide use, storm water runoff and watershed pollution; and

WHEREAS, the City finds that the benefit of green landscaping include minimized maintenance, the creation of wildlife habitat, protection of local ecosystems though the use of native plant species, and the protection of the San Francisco Bay watershed; and

WHEREAS, in Alameda County, the organization StopWaste.Org has taken the lead in defining and promoting environmentally friendly landscaping for the commercial, institutional and residential sectors and has developed Bay-Friendly Landscape Guidelines for professional landscapers and the Bay-Friendly Gardening Guide for residents that promotes green landscaping; and

WHEREAS, the City finds that requiring new City landscapes and City projects to incorporate Bay-Friendly Landscape Guidelines is necessary and appropriate to achieving the benefits of green landscaping in the City; and

WHEREAS, the Alameda County Waste Management Authority requires cities to adopt a Bay-Friendly Landscape Policy for new municipal landscape and major landscape renovations as a condition of receiving grants and services valuable to the City.

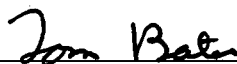
NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is authorized to implement a Bay-Friendly Landscaping (BFL) Policy (Exhibit A) for City Projects, and for the Director of Public Works to designate a BFL Compliance Official.

The foregoing Resolution was adopted by the Berkeley City Council on June 23, 2009 by the following vote:


Ayes: Anderson, Arreguin, Capitelli, Maio, Moore, Wengraf, Worthington, Wozniak and Bates.

Noes: None.

Absent: None.



Tom Bates, Mayor

Attest: 

Deanna Despain, CMC, City Clerk

EXHIBIT A

BAY-FRIENDLY LANDSCAPING POLICY

PURPOSE AND INTENT

To promote economic and environmental health in the City, it is essential that the City itself, through the design, construction, and maintenance of its own projects, provide leadership to both the private and public sectors by incorporating Bay-Friendly landscaping practices. One immediate and meaningful way to do this is to require the integration of Bay-Friendly landscaping strategies in City projects.

DEFINITIONS

"Bay-Friendly Landscape Guidelines" means the most recent version of guidelines developed by StopWaste.Org for use in the professional design, construction and maintenance of Landscapes. City staff shall maintain the most recent version of the Bay-Friendly Guidelines at all times.

"Bay-Friendly Landscaping Scorecard" means the most recent version of the Bay-Friendly Landscaping points system developed by StopWaste.Org. City staff shall maintain the most recent version of the Bay-Friendly Landscaping Scorecard at all times.

"City Landscape Project" means any new construction or renovation of a Landscape owned or maintained by a City Department or Agency.

"Covered Project" means all new or redevelopment or Renovation projects that include Landscapes that equal or exceed 10,000 square feet, and are owned or maintained by a City Department or Agency

"Bay-Friendly Landscaping Compliance Official" means the designated staff person(s) authorized and responsible for implementing this Policy.

"Initiated" means officially identified and substantially funded to offset the costs associated with the project.

"Landscape" means the parcel area less the building pad and includes all planted areas and hardscapes (i.e. driveway, parking, paths and other paved areas).

"Renovation" means any change, addition, or modification to an existing Landscape.

Traditional Public Works Projects" means heavy construction projects such as pump stations, flood control improvements, roads, and bridges, as well as traffic lights, sidewalks, bike paths, bus stops, and associated infrastructure on City owned and maintained property.

STANDARD FOR COMPLIANCE

1. All Covered Projects with landscapes initiated on or after August 1, 2009 shall meet the most recent minimum Bay Friendly Landscape Scorecard points as recommended and verified by StopWaste.Org or its designee.

2. For the purposes of reducing operation and maintenance costs in all City facilities, Covered Projects that do not meet the threshold that triggers compliance with the requirements of this Policy are required to meet as many Bay-Friendly Landscaping Scorecard points as practicable and are required to complete and submit the Bay-Friendly Landscaping Scorecard to StopWaste.Org as a way of documenting the green building practices that have been incorporated into the project.
3. The Public Works Department shall regularly review the project specifications used in bidding Traditional Public Works Projects and building or facilities projects to include environmentally friendly practices and Bay-Friendly landscape practices applicable.
4. Bay-Friendly landscaping requirements will be incorporated into the appropriate design, construction, maintenance and development agreement documents prepared for the applicable Covered Projects
5. The Director of Public Works shall designate an appropriate Bay-Friendly Landscaping Compliance Official(s) who shall have the responsibility to administer and monitor compliance with the Bay-Friendly landscaping requirements set forth in this Policy, and to grant waivers or exemptions from the requirements.
6. The Bay-Friendly Landscaping Compliance Official will coordinate activities with the person(s) responsible for implementation of the City's Environmental Purchasing Policy

UNUSUAL CIRCUMSTANCES

Compliance with the provisions of this Policy may be waived in unusual circumstances where the City Council has, by resolution, found and determined that the public interest would not be served by complying with such provisions.

Easy to Grow East Bay Native Plant List (by Habitat)

Developed by Glen Schneider and Lyn Talkovsky
Permission to use provided by The Watershed Project

Grassland Plants (plants for sunny sites with clay or silty soils)

Trees and Shrubs

Baccharis pilularis
Quercus agrifolia

Coyote Bush
Coast Live Oak

Perennials, Bulbs and Grasses

Achillea millefolium
Artemisia douglasiana
Aster sp.
Astragalus sp.
Bromus carinatus
Camissonia ovata
Chloragalum pomeridianum
Dichelostemma capitatum
Epilobium canum
Festuca idahoensis
Deschampsia caespitosa
Danthonia californica
Elymus glaucus
Grindelia hirsutula
Iris douglasiana
Melica californica
Nassella lepida
Nassella pulchra
Phacelia californica
Perideridia kelloggii
Ranunculus californicus
Sisyrinchium bellum
Triteleia laxa
Wyethia augustifolia

Yarrow
Mugwort
Native Aster
Native Vetch(es)
California Brome
Sun Cups
Soap Lily
Blue Dicks
California Fuschia
Idaho Fescue
Coastal Hair Grass
Wild Oat Grass
Blue Wild Rye
Gum Plant
Douglas Iris
Melic Grass
Foothill Needlegrass
Purple Needlegrass
California Coast Phacelia
Kellogg's Yampah
Buttercup
Blue-eyed Grass
Ithuriel's Spear
Mule's Ears

Annuals

Clarkia amoena
Eschscholzia californica
Hemizonia sp.

Farewell to Spring
California Poppy
Tarweed(s)

Scrubland Plants (plants for sites with hot sun and well-drained soils)Trees and Shrubs

<i>Adenostema fascicularis</i>	Greasewood or Chamise
<i>Arctostaphylos glandulosa</i> ssp. <i>glandulosa</i>	Eastwood Manzanita
<i>Arctostaphylos manzanita</i> ssp. <i>manzanita</i>	Manzanita
<i>Arctostaphylos tomentosa</i> ssp. <i>crustacea</i>	Manzanita
<i>Artemisia californica</i>	Coastal Sagebrush
<i>Baccharis pilularis</i>	Coyote Bush
<i>Ceanothus thyrsiflorus</i>	California Lilac/Blue Blossom
<i>Heteromeles arbutifolia</i>	Toyon
<i>Rhamnus californica</i>	Coffeeberry

Perennials and Grasses

<i>Epilobium canum</i>	California Fuchsia
<i>Eriogonum roseum</i>	Rosy Buckwheat
<i>Eriogonum nudum</i>	Buckwheat
<i>Eriophyllum confertiflorum</i>	Golden Yarrow
<i>Festuca idahoensis</i>	Idaho Fescue
<i>Mimulus aurantiacus</i>	Sticky Monkeyflower

Woodland Plants (plants for sites with part sun to full shade)Trees

<i>Acer macrophyllum</i>	Big Leaf Maple
<i>Aesculus californica</i>	California Buckeye
<i>Quercus kelloggii</i>	Black Oak
<i>Quercus lobata</i>	Valley Oak
<i>Umbellularis californica</i>	California Bay

Shrubs

<i>Corylus cornuta californica</i>	California Hazelnut
<i>Heteromeles arbutifolia</i>	Toyon
<i>Holodiscus discolor</i>	Ocean Spray
<i>Physocarpus capitatus</i>	Ninebark
<i>Ribes sanguineum</i> var. <i>glutinosum</i>	Pink Flowering Currant
<i>Rhamnus californica</i>	Coffeeberry
<i>Rosa gymnocarpa</i>	Wood Rose
<i>Symphoricarpos albus</i>	Snowberry

<i>Symphoricarpos mollis</i>	Creeping Snowberry
<i>Sambucus mexicana</i>	Blue Elderberry
<u>Perennials and Grasses</u>	
<i>Aquilegia formosa</i>	Red Columbine
<i>Aristolochia californica</i>	Dutchman's Pipe
<i>Artemisia douglasiana</i>	Mugwort
<i>Aster</i> sp.	Native Aster
<i>Bromus carinatus</i>	California Brome
<i>Chlorogalum pomeridianum</i>	Soap Lily
<i>Clematis lasiantha</i>	Pipestems
<i>Cynoglossum grande</i>	Hound's Tongue
<i>Dryopteris arguta</i>	Coastal Wood Fern (deep shade)
<i>Iris douglasiana</i>	Douglas Iris
<i>Festuca californica</i>	California Fescue
<i>Fragaria vesca</i>	Woodland Strawberry
<i>Heracleum lanatum</i>	Western Lace Plant
<i>Lonicera hispidula</i>	Honeysuckle
<i>Melica torreyana</i>	Torrey Melic Grass
<i>Polystichum munitum</i>	Western Sword Fern
<i>Polypodium glycyrrhiza</i>	Licorice Fern
<i>Rubus ursinus</i>	Western Blackberry
<i>Sanicula crassicaulis</i>	Pacific Sanicle
<i>Scrophularia californica</i>	Bee Plant
<i>Stachys</i> sp.	Hedge Nettle
<i>Urtica urens</i>	Dwarf Nettle

Riparian Plants (plants for sites with year-round moisture in the soil):

Trees

<i>Acer macrophyllum</i>	Big Leaf Maple
<i>Aesculus californica</i>	California Buckeye
<i>Alnus rhombifolia</i>	White Alder
<i>Platanus racemosa</i>	Western Sycamore
<i>Sequoia sempervirens</i>	Coastal Redwood
<i>Umbellularium californica</i>	California Bay

Shrubs

<i>Cornus stolonifera</i>	Creek Dogwood
<i>Rosa californica</i>	California Rose
<i>Salix lasiolepis</i>	Arroyo Willow
<i>Symphoricarpos albus</i>	Snowberry

Perennials, Rushes, Sedges and Ferns

Aralia californica
Athyrium felix-femina
Carex tumulicola
(Perennials... cont'd)

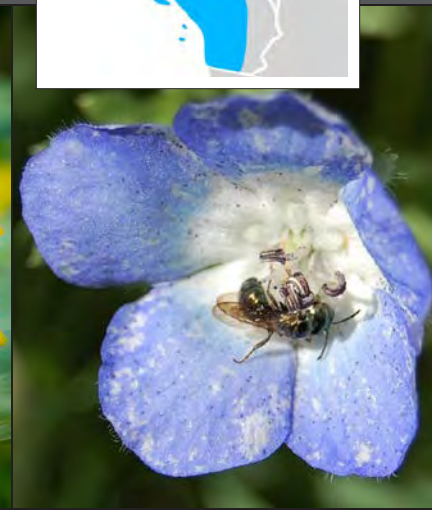
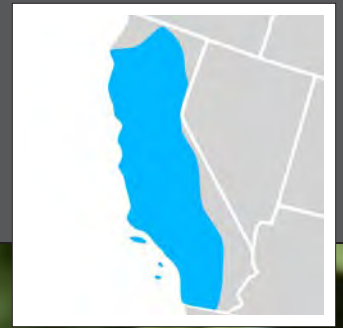
Elk Clover
Lady Fern
Berkeley Sedge

Equisetum sp.
Helenium puberulum
Juncus effusus
Mimulus guttatus
Rubus parviflorus
Rubus ursinus
Vitis californica
Woodwardia fimbriata

Horsetail
Sneezeweed
Rush
Creek Monkeyflower
Thimble Berry
California Blackberry
California Grape
Giant Chain Fern

POLLINATOR PLANTS

California



Pollinator meadow, common sunflower, and baby blue eyes

California is one of the most floristically diverse regions in the world, with a high number of endemic species and many unique plant communities such as coastal prairie and scrub, valley grasslands, chaparral, oak woodlands, and giant sequoia groves. California's native plants support a corresponding diversity of pollinators, with an estimated 1,200–1,500 native bee species, including the imperiled Franklin's bumble bee (*Bombus franklini*) and the vulnerable western bumble bee (*B. occidentalis*), and over 200 butterfly species, including the iconic monarch butterfly (*Danaus plexippus*). As a group, these and other pollinators maintain healthy, productive plant communities, provide food that sustains wildlife, and play an essential role in crop production.

Providing wildflower-rich habitat is the most significant action you can take to support pollinators. Adult bees, butterflies, and other pollinators require nectar as their primary food source, and female bees collect pollen as food for their offspring. Native plants, which are adapted to local soils and climates, are usually the best sources of nectar and pollen for native pollinators. Incorporating native wildflowers, shrubs, and trees into any landscape promotes local biological diversity and provides shelter and food for a diversity of wildlife. Most natives require minimal irrigation, flourish without fertilizers, and are unlikely to become weedy.

This guide features California natives that are highly attractive to pollinators and are well-suited for small-scale plantings in gardens, urban greenspaces, and farm field

borders, and on business and school campuses. Beyond supporting native bees and honey bees, many of these plants attract nectar-seeking butterflies, moths, and hummingbirds, and some are hosts for butterfly and moth caterpillars. For example, California is an important breeding area for monarch butterflies, and planting milkweeds, their required host plants, will help sustain the declining western monarch population. With few exceptions, the listed species can be purchased as seed or transplants. They will be adaptable to growing conditions across most of the state, but may be less suitable for planting in the High Sierras, Modoc Plateau, and Eastern Interior Desert regions. Please consult Calflora (www.calflora.org), the Biota of North America's North American Plant Atlas (<http://bonap.net/napa>), or the USDA's PLANTS database (<http://plants.usda.gov>) for details on species's distributions in your area.

Our **Bring Back the Pollinators** campaign is based on four principles:

1. **Grow** a variety of pollinator-friendly flowers;
2. **Protect and provide** bee nest sites and caterpillar host plants;
3. **Avoid** using pesticides, especially insecticides; *and*
4. **Spread** the word!

You can participate by taking the **Pollinator Protection Pledge** and registering your habitat on our nationwide map at:

www.bringbackthepollinators.org.



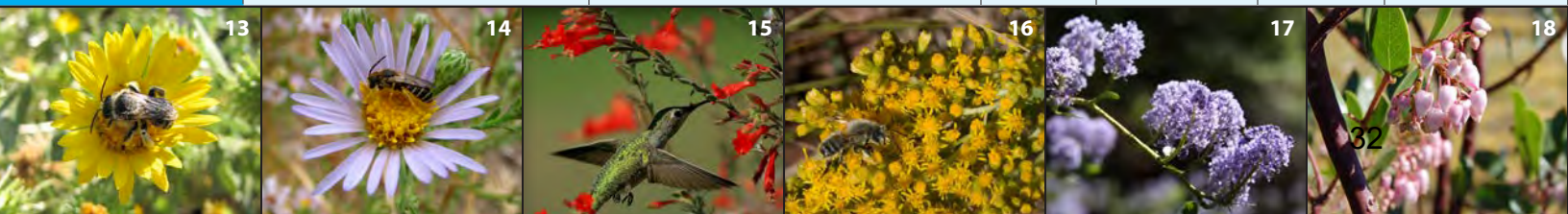


Bloom Period	Common Name	Scientific Name	Life Cycle*	Flower Color	Max. Height†	Water Needs
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		Forbs			(Feet)	L: low; M: medium; H: high	
Early	1	Baby blue eyes	<i>Nemophila menziesii</i>	A	blue	0.25	L
	2	Common tidytips	<i>Layia platyglossa</i>	A	yellow	0.25	L
	3	Lacy phacelia	<i>Phacelia tanacetifolia</i>	A	purple	3	L
Early–Mid	4	California poppy	<i>Eschscholzia californica</i>	A, P	orange	0.5	L
	5	Elegant clarkia	<i>Clarkia unguiculata</i>	A	pink	0.5	L
	6	Globe gilia	<i>Gilia capitata</i>	A, P	blue	1	M
Mid	7	California phacelia	<i>Phacelia californica</i>	P	purple	1	L
	8	Cleveland sage	<i>Salvia clevelandii</i>	P	purple	3	L
	9	Foothill penstemon	<i>Penstemon heterophyllus</i>	P	blue	3	L
	10	Narrowleaf milkweed	<i>Asclepias fascicularis</i>	P	pink/ white	1.5	M
	11	Summer lupine	<i>Lupinus formosus</i>	P	purple	1.5	L
Mid–Late	12	Common sunflower	<i>Helianthus annuus</i>	A	yellow	5	M
	13	Gumplant	<i>Grindelia camporum</i>	P	yellow	4	L
Late	14	California aster	<i>Symphyotrichum chilense</i>	P	purple	5	L
	15	California fuchsia	<i>Epilobium canum</i>	P	orange/ red	3	L
	16	California goldenrod	<i>Solidago velutina</i> ssp. <i>californica</i>	P	yellow	3	M

Shrubs and Trees

Early	21	California lilac	<i>Ceanothus ‘Concha’</i>	P	purple	4	L
	22	McMinn manzanita	<i>Arctostaphylos ‘McMinn’</i>	P	white	5	L
	23	Oregon grape	<i>Berberis aquifolium</i>	P	yellow	5	L
		Redbud	<i>Cercis occidentalis</i>	P	pink/red	15	M
		California buckthorn	<i>Rhamnus californica</i>	P	white	5	L
Early–Mid		California flannelbush	<i>Fremontodendron californicum</i>	P	yellow	15	L
		Silver bush lupine	<i>Lupinus albifrons</i>	P	purple	3	L
Mid	24	California buckwheat	<i>Eriogonum fasciculatum</i>	P	white	2.5	L





Notes

This list of pollinator plants for California was produced by the Xerces® Society. For more information about pollinator conservation, please visit www.xerces.org.



*Life Cycle abbreviations: A: annual; P: perennial; B: biennial. †Max. Height is an average, individual plants may vary.

Stunning sky blue flowers attract native bees, including mason bees (*Osmia* spp.); tolerates moderate shade and moisture

Sunny yellow and white flowers are very attractive to butterflies and native bees; tolerates clay soils

Easy to establish, with prolific, showy blooms; tolerates clay soils

Easy to establish and long blooming; attracts a diversity of bees, bumble bees in particular

Strikingly unique flowers attract bees and butterflies; larval host for Clark's sphinx moth

Globe-shaped, periwinkle-blue flower clusters attract a diversity of bees and butterflies

Tightly coiled flower heads are very attractive to bumble bees and other native bees; tolerates clay soils

Showy flowers attract bees, butterflies, and hummingbirds; extremely fragrant foliage; requires good drainage

Iridescent violet flowers attract bees, butterflies, and hummingbirds; requires good drainage; heat and drought tolerant

Monarch butterfly host plant; high-quality nectar source for many bees; easier to establish from transplants than from seed

This and other lupines are highly attractive to bumble bees and visited by many other native bees

Sunflowers are a favorite of many bee species; easy to establish and tolerant of clay soils

Long-lasting flowers; attracts small, native bees; tolerates clay soils and wet or dry conditions

One of the latest fall blooming plants; important for pre-hibernation bumble bee queens; tolerates clay soils

Abundant scarlet-colored flowers; critical late-season nectar source for hummingbirds and bees

Important late-season forage for bees, butterflies, beneficial solitary wasps, pollen-eating soldier beetles, and more

Attracts bees and butterflies with a profusion of bright violet-blue flowers; tolerates clay soils

Clusters of small, bell-shaped flowers provide early season forage for bumble bees and other spring bees; tolerates clay soils

Attracts honey bees and native bees, including mason bees (*Osmia* spp.); tolerates shade and wet or dry conditions

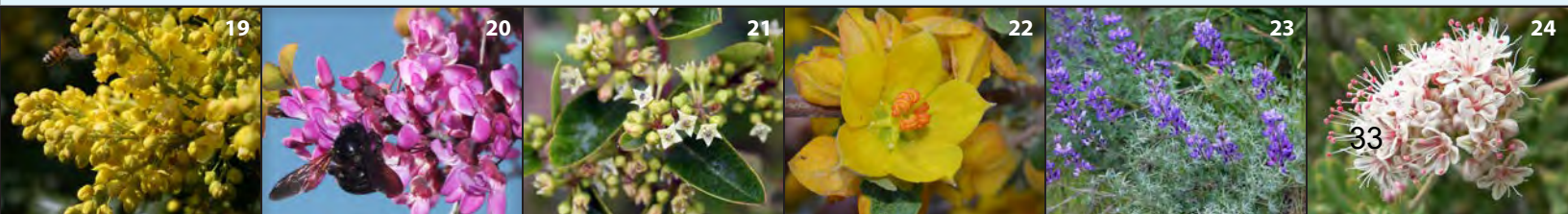
Rose-colored blooms clustered on bare branches; tolerates some shade and moisture; can be pruned to a shrub or small tree

Attractive, evergreen shrub that attracts small, native bees; its berries are a favorite of birds; tolerates some shade

Prolific bloomer with large, bell-shaped yellow flowers; does not need summer water

Showy, deep purple flowers with contrasting silver foliage; attracts numerous bee species; requires good drainage

Favored nectar source of many blue and hairstreak butterflies, also very attractive to native bees; drought tolerant



Planting for Success

Sun Exposure

Most pollinator-friendly plants prefer sites that receive full sun throughout most of the day and are mostly open, with few large trees. A southern exposure can provide the warmest habitat, but is not required.

Plant Diversity

Choosing a variety of plants with overlapping and sequential bloom periods will provide food for pollinators throughout the seasons.

Habitat Size and Shape

Habitat patches that are bigger and closer to other patches are generally better than those that are smaller and more isolated from one another. However, even a small container garden can attract and support pollinators!

Planting Layout

Flowers clustered into clumps of one species will attract more pollinators than individual plants scattered through a habitat patch. Where space allows, plant clumps of the same species within a few feet of one another.

Seeds or Transplants

It is usually cheaper to establish large habitat areas from seed; however, seeding native wildflowers on a large-scale is an art unto itself. For step-by-step instructions, see *Establishing Pollinator Meadows from Seed* and the Pollinator Habitat Installation Guides listed in the Additional Resources section. For smaller areas like gardens, transplants are usually easier to use and will bloom faster than plants started from seed.

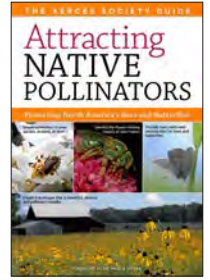
Protect Pollinators from Insecticides

Although dependent on timing, rate, and method of application, all insecticides have the potential to poison or kill pollinators. Systemic insecticides in particular have received significant attention for their potential role in pollinator declines (imidacloprid, dinotefuran, clothianidin, and thiamethoxam are examples of systemic insecticides now found in various farm and garden products). Because plants absorb systemic insecticides as they grow, the chemicals become distributed throughout plant tissues and are sometimes present in pollen and nectar. You can help protect pollinators by avoiding the use of these and other insecticides. Before purchasing plants from nurseries and garden centers, be sure to ask whether they have been treated with insecticides. To read more about threats to pollinators from pesticides, please visit: www.xerces.org/pesticides.

Additional Resources

Attracting Native Pollinators

Our best-selling book highlights the role of native pollinators in natural ecosystems, gardens, and farms. This comprehensive guide includes information about pollinator ecology, detailed profiles of over 30 common bee genera, and habitat designs for multiple landscapes with over 50 pages of fully illustrated regional plant lists. Available in bookstores everywhere, and through www.xerces.org/books.



The Xerces Pollinator Conservation Resource Center

Our Pollinator Conservation Resource Center includes regional information on pollinator plants, habitat conservation guides, nest management instructions, bee identification and monitoring resources, and directories of native pollinator plant nurseries. www.xerces.org/pollinator-resource-center

Lady Bird Johnson Wildflower Center

The Xerces Society has collaborated with the Lady Bird Johnson Wildflower Center to create lists of plants that are attractive to native bees, bumble bees, honey bees, and other beneficial insects, as well as plant lists with value as nesting materials for native bees. These lists can be narrowed down with additional criteria such as state, soil moisture, bloom time, and sunlight requirements. The Center's website also features image galleries, how-to articles on native plant gardening, and more. www.wildflower.org/conservation_pollinators

Establishing Pollinator Meadows from Seed

These guidelines provide step-by-step instructions for establishing pollinator meadows from seed in areas that range in size from a small backyard garden up to an acre. Topics include: site selection, site preparation, plant selection, planting techniques, and ongoing management. www.xerces.org/establishing-pollinator-meadows-from-seed

Pollinator Habitat Installation Guides

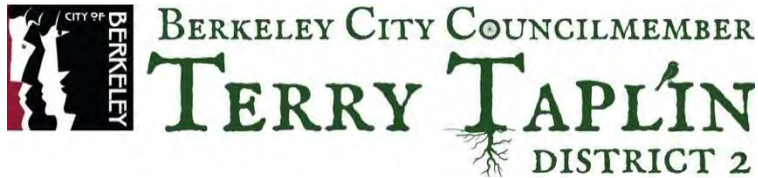
These regional guidelines, developed in collaboration with the USDA's Natural Resources Conservation Service, provide in-depth practical guidance on how to install nectar and pollen habitat for bees in the form of wildflower meadow plantings or linear rows of native flowering shrubs. Region-specific seed mixes and plant recommendations are included in the appendices of each guide. www.xerces.org/pollinator-habitat-installation-guides

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Written by Nancy Lee Adamson, Brianna Borders, Jessa Kay Cruz, Sarah Foltz Jordan, Kelly Gill, Jennifer Hopwood, Eric Lee-Mäder, Ashley Minnerath, and Mace Vaughan. Designed by Kaitlyn Rich. Formatted by Sara Morris. **PHOTO CREDITS:** The Xerces Society/Jessa Cruz: Pollinator meadow (cover), 1 (cover), 11; The Xerces Society/Mace Vaughan: 1 (inside), 2, 4; John Anderson, Hedgerow Farms, Inc: 3, 13, 14; John Kehoe (J Kehoe Photos): 5, 6, 10, 16, 20; David A. Hofmann*: 7, 9, 21, 23; Stan Shebs/Wikimedia Commons: 8, 24; Preston Keres/USDA*: 12 (inside and cover); T.J. Gehling*: 15; Jane Shelby Richardson/Wikimedia Commons: 17; USDA-NRCS Lockeford Plant Materials Center: 18; Tom Brandt*: 19; Don Davis (californianativeplants): 22. Photographs remain under the copyright of the photographer.

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ACTION CALENDAR
MARCH 8, 2022

To: Honorable Mayor and Members of the City Council

From: Councilmember Taplin (Author), Councilmember Bartlett (Co-Sponsor),
Councilmember Hahn (Co-Sponsor)

Subject: Equitable Safe Streets and Climate Justice Resolution

RECOMMENDATION

Adopt a resolution committing the expenditure of City and state/federal matching/recurring funds on city-maintained roads, sidewalks, and bike lanes to accelerate safety improvements in a manner consistent with City, State, and Federal policy on street safety, equity, accessibility, and climate change; refer to the City Manager adoption of the NACTO Urban Street Design Guide as the default engineering standard for city streets, restricting city use of the Manual on Uniform Traffic Control Devices subject to engineering judgment, and transferring legal liability for safe streets designs from individual city engineering/Public Works staff to the City of Berkeley.

FINANCIAL IMPLICATIONS

According to the Federal Highway Administration:

“It is generally significantly less expensive to install safety improvements as part of a resurfacing project than to build it as a standalone project ... The cost for adding bike lanes during a resurfacing project costs approximately 40 percent of the cost of adding the lanes as a standalone project.”¹

This resolution calls for the full integration of safety features at the time of re-paving of all streets in the city, in a manner consistent with City, State,² and Federal³ policy, which will result in substantial material and staff time savings, while also saving the lives of Berkeley residents.

CURRENT SITUATION AND ITS EFFECTS

¹ https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/page04.cfm#cost_a2

² “Caltrans to Require ‘Complete Streets’ Features in Planning and Design of All New Projects” <https://dot.ca.gov/news-releases/news-release-2021-039>

³ Under the Infrastructure Investment and Jobs Act of 2021, “MPOs must use 2.5 percent of their overall funding to develop and adopt complete streets policies, active transportation plans, transit access plans, transit-oriented development plans, or regional intercity rail plans.” <https://nacto.org/program/state-and-federal-policy/>

Under current practices in Berkeley, safe streets interventions like bikeways, separated lanes, raised pedestrian crossings, and corner bulb-outs are often implemented only after a pedestrian or cyclist has been injured or killed by a driver. Many examples exist of streets that had been recently re-paved without safety features that were then re-designed after residents expressed their anger over pedestrians and cyclists being severely injured or killed by a driver.

According to the Federal Highway Administration, implementing safe streets features at the time of re-paving, rather than as stand-alone, post-facto projects, can significantly cut the costs of these safety interventions.⁴ This resolution calls for the full integration of safety features at the time of re-paving of all streets in the city, which will result in substantial material and staff time savings, while also saving the lives of Berkeley residents.

The Equitable Safe Streets and Climate Justice Resolution is a Strategic Plan Priority Project, advancing our goal to provide state-of-the-art, well-maintained infrastructure, amenities, and facilities.

BACKGROUND

Personal cars and trucks are the leading source of climate pollution in the City of Berkeley, causing 59% of all greenhouse gasses within city limits – more than all residential and commercial energy use, combined.⁵ They are also among the leading causes of violent injury and death in the city, with a growing number of deadly and injurious conflicts between people driving cars and vulnerable road users including pedestrians, the elderly, residents who use mobility devices, and bicyclists. Lower income Berkeley residents and people of color are disproportionately impacted by the risk of traffic injuries and fatalities.⁶

Berkeley also has among the highest percentages of people who take transit, walk, and ride bicycles of any city of its size in the United States.⁷ In spite of this fact, most of our streets are designed in such a way that makes them unsafe for pedestrians, transit users, or for use by people who use mobility devices or bicycles.

This disparity can be resolved through better engineering and design of our city streets, which will save lives and often result in substantial savings for the city. In addition, new state legislation (AB-43, 2021) recognizes that high vehicle speeds are a primary factor in deadly and dangerous street conditions, and empowers California cities to lower

⁴ https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/page04.cfm#cost_a2

⁵ [https://www.cityofberkeley.info/Clerk/City_Council/2020/07_Jul/Documents/2020-07-21_Presentations_Item_5_\(6pm\)_Pres_CMO_pdf.aspx](https://www.cityofberkeley.info/Clerk/City_Council/2020/07_Jul/Documents/2020-07-21_Presentations_Item_5_(6pm)_Pres_CMO_pdf.aspx)

⁶ Berkeley Vision Zero Action Plan, March 10, 2019, page 13.

⁷ <https://www.vitalsigns.mtc.ca.gov/commute-mode-choice>

speed limits on certain city streets to reduce traffic collisions and protect vulnerable road users.⁸

Recent History: Safety Measures Follow Tragedy, Increase Costs

According to the Federal Highway Administration:

“It is generally significantly less expensive to install safety improvements as part of a resurfacing project than to build it as a standalone project ... The cost for adding bike lanes during a resurfacing project costs approximately 40 percent of the cost of adding the lanes as a standalone project.”⁹

Over the past several years, safety conditions for Berkeley residents and visitors who do not drive have deteriorated, as evidenced by the growing number of crashes in Berkeley that have resulted in pedestrian and cyclist injury or death.¹⁰ In spite of the deaths and injuries on our streets, these crashes often do not result in safety improvements.

However, when local residents express sufficient outrage to City Hall over deadly conditions, the City sometimes rapidly responds with permanent or semi-permanent safety features – but had these features preceded, rather than followed, the crashes, they would have resulted in both lower costs to the city, and fewer traumatic injuries and deaths.

Examples of recent Berkeley street re-paving projects that led to increased costs due to a lack of safety features include:

- **Fulton (Oxford):** In 2015, Berkeley Public Works repaved Fulton/Oxford Street between Bancroft Way and Dwight, but did not add a safe bikeway as called for in Berkeley’s 2000 Bicycle Plan. Shortly afterward, Megan Schwarzman was hit and severely injured by a driver while bicycling.¹¹ After being pressured by the community to act, the City Council directed staff to re-stripe the roadway with a safer bikeway, adding 3 months of unplanned work and staff time. Costs would have been lower if the bikeway had been planned and implemented in a manner more consistent with existing city policy, and concurrent with re-paving.
- **Hearst:** After adoption of the 2000 Berkeley Bicycle Plan, Berkeley Public Works repaved Hearst Avenue, but did not include a safe bikeway, as called for in the Bicycle Plan. After years of pressure from residents concerned about street

⁸ Assembly Bill 43, Traffic Safety, 2021

https://leginfo.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB43

⁹ https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/resurfacing/page04.cfm#cost_a2

¹⁰ <https://www.sfchronicle.com/local/article/Berkeley-bicycle-activist-struck-by-car-hours-16037329.php>

¹¹ Raguso, E. (2016). Bike lane opens by near-fatal crash site. *Berkeleyside*. Retrieved from <https://www.berkeleyside.org/2016/05/12/bike-lane-opens-in-berkeley-by-near-fatal-crash-site-no-charges-filed-yet-against-driver-who-police-say-was-high>

safety, Berkeley finally rebuilt and repaved the street in 2016 with safer facilities, and at significant cost. Costs would have been lower if the bikeway had been planned and implemented in a manner consistent with existing city policy, and concurrent with re-paving.

- **Milvia Street:** Berkeley repaved Milvia Street downtown using Measure BB funds (2014), and then in 2019, repaved Milvia Street in south Berkeley. But neither repaving included safe streets interventions called for in the then-approved bike plans. Berkeley then added extensive safe bicycling facilities in 2021/2022. Costs would have been lower if the bikeway had been planned and implemented in a manner consistent with existing city policy, and concurrent with re-paving.
- **Dwight/California:** In 2021, Berkeley embarked on safety improvements at the corner of Dwight and California, a “bicycle boulevard” and a “safe route to school,” after local residents expressed outrage over two children who were struck by drivers on their way to school. California and Dwight Streets were re-surfaced in 2015, but did not include enhancements to improve pedestrian and cyclist crossing conditions at this intersection.
- **Concrete diagonal diverters:** Berkeley installed many concrete diagonal diverters back in the 1970’s, and had to come back later with separate concrete work to make bicycle cut-throughs in these diverters for bikes to access neighborhood streets. Costs would have been lower if the cut-throughs had been included in the original design.

Street Safety First: Berkeley City Policy

In recent years, the traffic engineering profession has developed extensive tools and engineering guidelines for cities that seek to safely meet the mobility needs of all residents, including those who drive cars, walk, use mobility devices, ride bicycles, and/or use transit.

Many of these new tools, such as the Urban Streets Design Guide by the National Association of City Transportation Officials (NACTO), provide turnkey solutions for cities seeking to design and engineer roads to improve street safety for all road users. The Design Guide was developed in part to help cities seeking to enhance safety, and in part out of growing concern over the proven inadequacy of the Federal Highway Administration’s Manual on Uniform Traffic Control Devices (MUTCD), which has led to dangerous and deadly conditions for vulnerable road users.¹²¹³¹⁴

¹² Schmitt, A. (2021). Let’s Throw Away These Rules of the Road. *Bloomberg*. Retrieved from <https://www.bloomberg.com/news/articles/2021-05-05/it-s-time-to-rewrite-the-road-builders-rule-book>

¹³ National Association of City Transportation Officials. (2021). 25,000 Comments Calling for Safety and Equity Reforms to Once-Obscure Federal Street Manual. *NACTO*. Retrieved from <https://nacto.org/2021/05/20/25000-comments-call-for-reforming-mutcd/>

¹⁴ Shill, G. & Bronin, S. (2021). Rewriting Our Nation’s Deadly Traffic Manual. *Harvard Law Review*. Retrieved from <https://harvardlawreview.org/2021/10/rewriting-our-nations-deadly-traffic-manual/>

In fact, in several cases, the proscriptions of the MUTCD have delayed or precluded street safety improvements in Berkeley.¹⁵ Part of the reason may be that, under current case law, engineers may sometimes be held personally liable for deaths or injuries that can be proven to be the result of street engineering and design.

Over the past year, both the Federal Highway Administration¹⁶ and Caltrans¹⁷ have issued guidance that allows city traffic engineers to use NACTO's Urban Streets Design Guide in place of the MUTCD for projects that use Federal or State transportation funds. In addition, FHWA has issued guidance that, in states where vulnerable road users make up 15% or more of the total number of fatalities in a state in a given year, the state is required to dedicate at least 15% of its Highway Safety Improvement Program funds the following fiscal year to projects that address the safety of these road users. Additionally, the new guidance incorporates legislative changes to permit 100% Federal funding for certain pedestrian and bicyclist projects.¹⁸

Adopt New Complete Streets Engineering Guidelines

This resolution directs all City departments with a role in the design, engineering, maintenance, and administration of Berkeley surface streets to formally adopt the NACTO Urban Streets Design Guide as the primary design and engineering manual for Berkeley city streets.

The resolution further directs all City departments to restrict use of the MUTCD, which has been proven to lead to unsafe street designs,¹⁹ to only those projects where the Public Works Director certifies, in writing, that the MUTCD is better suited to achieving the City's goal of reducing vehicle speeds, enhancing safety features for pedestrians, cyclists, and people who use mobility devices, and ending traffic conflicts between cars and other road users.

In all cases where the MUTCD must be used, all City departments shall first exercise "engineering judgment," as defined in the MUTCD, to ensure safe street designs, including such judgment as may result in modification or overruling of MUTCD standards. In cases where "engineering judgment" can not be used to reduce vehicle speeds or otherwise enhance street safety conditions for all road users, all City departments shall issue formal findings, approved by the Public Works director, that

¹⁵ Harrington, T. (2021). Berkeley's plans to make Dwight and California safer get mixed reviews. *Berkeleyside*. Retrieved from <https://www.berkeleyside.org/2021/05/16/berkeleys-plans-to-make-dwight-and-california-safer-get-mixed-reviews>

¹⁶ "National Roadway Safety Strategy," US Department of Transportation, Jan 2022 <https://www.transportation.gov/NRSS>

¹⁷ "Caltrans to Require 'Complete Streets' Features in Planning and Design of All New Projects," Dec 20, 2021 <https://dot.ca.gov/news-releases/news-release-2021-039>

¹⁸ https://safety.fhwa.dot.gov/hsip/rulemaking/docs/BIL_HSIP_Eligibility_Guidance.pdf

¹⁹ See footnote 12.

document why a street can not be made safe for all road users, and vehicle speed and throughput must be prioritized.

The resolution directs city departments to ensure that all requests for funding related to any project, on any surface street, sidewalk, bicycle facility, or other transportation infrastructure within city borders, prioritize and implement designs that ensure the safety of vulnerable users who are not in private automobiles, as established in numerous past policy directives of the Berkeley City Council.²⁰

This resolution further prohibits all City departments from spending any city financial resources on any street that does not include the “best in class” design for Complete Streets unless the safety benefits are outweighed by other considerations, all of which are fully documented in a transparent manner for legal review, and approved by the Public Works Director.

It further prohibits City departments from requiring traffic studies or other measurements related to impacts on “Level of Service” (vehicle speed/throughput) in consideration of street safety improvements, if such improvements will either a) improve safe travel conditions for vulnerable road users, or b) reduce Vehicle Miles Traveled, as established by State of California²¹ and City of Berkeley climate and land use policies, or c) if such improvements are otherwise consistent with guidance in the Complete Streets provisions of NACTO and Caltrans.

It further directs all departments to maintain the priority of street safety interventions in situations where budget is a limiting factor in street repair/improvements, by prioritizing the use of “quick build”²² approaches which improve street safety via rapidly-deployed, lower-cost, temporary measures. In such cases, the Public Works Director will provide the City with a memo explaining the budget shortfall and define a process for closing the funding gap to install permanent safety features when funds become available; or if City departments demonstrate, via appropriate studies and documentation approved by the Public Works Director, an urgent need to complete such repairs/improvements without temporary or permanent safety interventions.

²⁰ e.g. Berkeley Bicycle Plan, 2017; Berkeley Pedestrian Plan, 2020; BIBIMBAP [[https://www.cityofberkeley.info/Clerk/City_Council/2019/10_Oct/Documents/2019-10-29_Item_31_Referral_Develop_a_Bicycle_Lane_-_Rev_\(2\).aspx](https://www.cityofberkeley.info/Clerk/City_Council/2019/10_Oct/Documents/2019-10-29_Item_31_Referral_Develop_a_Bicycle_Lane_-_Rev_(2).aspx)]; Berkeley Pedestrian Safety Report 1998; Downtown Area Plan, 2012; West Berkeley Plan, 1993; Adeline Corridor Specific Plan (in progress); University Avenue Plan, 1996.

²¹ California Senate Bill 743, passed in 2013, mandates that jurisdictions can no longer use automobile delay – commonly measured by Level of Service (LOS) – in transportation analysis under the California Environmental Quality Act (CEQA). Full implementation was delayed until 2019. <https://www.vta.org/projects/level-service-los-vehicle-miles-traveled-vmt-transition>

²²“Quick build” projects are reversible, adjustable traffic safety improvements that can be installed relatively quickly. Unlike major capital projects that may take years to plan, design, bid and construct, quick-build projects are constructed within weeks or months and are intended to be evaluated and reviewed within the initial 24 months of construction. <https://www.sfmta.com/vision-zero-quick-build-projects>

Finally, this resolution establishes that it is the policy of the City of Berkeley to prioritize human lives and safety over the speed and convenience of private automobiles and, as such, in cases where the city engineering staff's approved safe street designs are found to be at fault for damages from a crash, the city will accept legal and financial responsibility for such damages should a court of law so find, and release engineering staff from any personal or professional liability.

The resolution finally establishes, as a matter of policy, that spending City funds to repair a damaged car is always the preferred outcome to spending city resources on the medical bills or death expenses of any non-motorist road user in the City of Berkeley.

Definitions:

- **Complete Streets:** On December 11, 2012, Berkeley City Council adopted a Complete Streets Policy (Resolution 65,978-N.S.) to guide future street design and repair activities. "Complete Streets," describes a comprehensive, integrated transportation network with infrastructure and design that allows safe and convenient travel along and across streets for all users, including pedestrians, bicyclists, persons with disabilities, motorists, movers of commercial goods, users and operators of public transportation, emergency vehicles, seniors, children, youth, and families.²³
- **NACTO Urban Street Design Guide:** An engineering manual for cities that adopt Complete Streets policies.
- **Level of Service (LOS):** A discontinued method of evaluating transportation infrastructure projects based on vehicle speed and throughput; SB 743, passed in 2013, prohibited LOS in CEQA analysis in the State of California, but the law is under-enforced and LOS is still commonly used.
- **Vehicle Miles Traveled (VMT):** A measure of the impact of car use on air quality and street safety based on the number of miles traveled by car. It is long-standing policy of the City of Berkeley and the State of California to reduce VMT to achieve climate and safe streets policies.
- **MUTCD:** The Manual on Uniform Traffic Control Devices. This controversial manual has been blamed for dangerous street designs throughout the United States. Federal and State transportation authorities are in the process of revising it, and have encouraged jurisdictions that seek to accelerate progress on safe streets to use other engineering and street design guidelines.

ENVIRONMENTAL SUSTAINABILITY AND CLIMATE IMPACTS

While cars represent the majority of the climate pollution within the city at 59%, Berkeley also has a very high mode share²⁴ among residents and visitors who walk, ride transit, use mobility devices, and ride bicycles. These modes of travel are the lowest-carbon

²³ <https://www.cityofberkeley.info/completestreetspolicy/>

²⁴ https://www.cityofberkeley.info/uploadedFiles/Public_Works/Level_3_-_Transportation/Berkeley-Bicycle-Plan-2017-Executive%20Summary.pdf

options available, and the City has many policies focused on incentivizing and increasing their use.

However, abundant research about mode choice shows that people hesitate to shift to more sustainable forms of mobility in areas with deadly and dangerous car traffic – which describes most of the City of Berkeley.²⁵

In addition to having a high mode share for non-car modes, Berkeley also has among the highest rates, per capita, of traffic violence involving people not in cars. The correlation is direct: Our unsafe streets are harming people, and preventing the city from achieving its goals on both climate action, and safe mobility.

CONTACT PERSON

Councilmember Taplin Council District 2 510-981-7120

ATTACHMENTS

1. Resolution
2. City of Palo Alto resolution adopting the NACTO Urban Bikeway Design Guide
3. City of Oakland Public Works Director letter of endorsement of NACTO Urban Street Design Guide
4. Assembly Bill 43 (2021)

²⁵ Raguso, E. (2020). Berkeleyside interactive maps: Cyclist and pedestrian injury crashes in 2019. *Berkeleyside*. Retrieved from <https://www.berkeleyside.org/2020/01/28/berkeleyside-interactive-maps-cyclist-and-pedestrian-injury-crashes-in-2019>

RESOLUTION NO. ##,###-N.S.

EQUITABLE SAFE STREETS AND CLIMATE JUSTICE RESOLUTION

WHEREAS, Berkeley's climate action plan calls for an 80% reduction in climate pollution by 2050, and private automobiles represent 59% of the City's climate pollution; and

WHEREAS, progress on Berkeley's climate action plan will depend in large part on reducing "vehicle miles traveled," or the amount people drive private cars within city limits; and

WHEREAS, Berkeley's bicycle plan proposed in 1971 called for a city-wide network of safe bicycle routes; and

WHEREAS, Berkeley adopted an action plan for Vision Zero in 2019; and

WHEREAS, Berkeley's existing policy on street engineering and safety calls for "Complete Streets" as defined by the National Association of City Transportation Officials (NACTO); and

WHEREAS, the overwhelming majority of Berkeley's streets, traffic signals, intersections, and related transportation infrastructure have been designed, engineered, and maintained for the priority of automobile speed/"Level of Service" above safe travel options for people who walk, take transit, use mobility devices, or ride bicycles; and

WHEREAS, the city follows the inadequate, outdated and discredited guidance of the Manual on Uniform Traffic Control Devices in determining appropriate street safety designs; and

WHEREAS, some case law suggests that engineers are, on occasion, held personally liable for street designs they have approved in their professional capacity;

NOW THEREFORE, BE IT RESOLVED by the City Council of the City of Berkeley that any and all funds generated or otherwise allocated by the City and its voters via taxes, bonds, state/federal grants, and other revenues that are to be used for the design, engineering, construction, and maintenance of city streets and related facilities shall only be disbursed for projects that fully integrate Complete Streets (as defined by NACTO) and all feasible safety interventions designed to reduce automobile speed and protect the lives of people outside of automobiles;

BE IT FURTHER RESOLVED that in all cases where Complete Streets can not be fully implemented, or in cases where the MUTCD must be used in place of the NACTO Urban Streets Design Guide, City Staff shall use "engineering judgment" to prioritize the safety of vulnerable road users, and not rely on MUTCD "warrants" and other proscriptions;

BE IT FURTHER RESOLVED that in all cases where the MUTCD must be used, and where “engineering judgment” can not be used to reduce vehicle speeds or otherwise enhance street safety conditions for all road users, all City departments shall issue formal findings, approved by the Public Works director, that document why a street can not be made safe for all road users, and vehicle speed and throughput must be prioritized;

BE IT FURTHER RESOLVED that pursuant to AB-43 (2021), no city official shall apply the “85th percentile” rule in the process of setting speed limits on city streets, but rather, determine via safety studies and other documented engineering findings by the Public Works Director, when higher speeds are appropriate and are the safest option for all road users;

BE IT FURTHER RESOLVED that it is the policy of the City of Berkeley that, should a court of law find the city legally liable for any damages that result from a driver crashing into a “safe street” intervention under this resolution, the City of Berkeley shall assume liability, and not city traffic engineering or public works staff; and that accepting legal and financial liability for such damages are the City’s preferred alternative to traffic fatalities and injuries on our streets.



City of Palo Alto City Council Staff Report

(ID # 6222)

Report Type: Consent Calendar**Meeting Date: 10/26/2015****Summary Title: Adoption of NACTO Design Guidelines****Title: Adoption of a Resolution to Adopt the National Association of City Transportation Officials (NACTO) Design Guidelines****From: City Manager****Lead Department: Planning and Community Environment****Recommendation**

Adopt the proposed Resolution (Attachment A) to adopt the National Association of City Transportation Officials (NACTO) Urban Street Design Guide and Urban Bikeway Design Guide as supplements to the City of Palo Alto Bicycle and Pedestrian Plan.

Executive Summary

Adopting the National Association of City Transportation Officials (NACTO) street design guides will provide additional support in the City's efforts to introduce complete street ideas into the design and operation of streets by providing design guidance on transportation infrastructure. City staff will continue to work proactively with the community to provide convenient, safe, and context-sensitive facilities that promote increased use by people who walk and bicycle. When NACTO guidance or other design guidance is used, the City will continue to utilize sound planning and engineering judgment when determining the best solution for a local need.

Background

Streets often fail to provide their surrounding communities with a space where people can safely walk, bicycle, drive, take transit, and socialize. Complete Streets integrates people and place in the planning, design, construction, operation, and maintenance of our transportation networks. Cities are leading the movement to redesign and reinvest in our streets as cherished public spaces for people, as well as critical arteries for traffic.

The National Association of City Transportation Officials (NACTO) facilitates the exchange of transportation ideas, insights and best practices among cities, while fostering a cooperative approach to key issues facing cities and metropolitan areas. The NACTO Urban Street Design Guide and Urban Bikeway Design Guide offer a vision for improving the safety and livability of our streets for people who walk, bicycle, drive, and ride transit. The guidance and flexibility

articulated in these guides serve as an additional tool for planning modern city streets to safely accommodate current and future residents, workers and visitors within limited space.

In September 2014, Governor Jerry Brown signed Assembly Bill 1193, the Protected Bikeways Act. AB 1193 eliminates a requirement previously imposed on local agencies to follow Caltrans bikeway design rules on local streets and roads. AB 1193 grants cities flexibility to use alternative design standards, such as those published by the National Association of City Transportation Officials (NACTO), on locally-owned streets and roads. Prior to utilizing alternative designs, the law requires all of the following conditions be met:

- (1) The alternative criteria have been reviewed and approved by a qualified engineer with consideration for the unique characteristics and features of the proposed bikeway and surrounding environs.
- (2) The alternative criteria, or the description of the project with reference to the alternative criteria, are adopted by resolution at a public meeting, after having provided proper notice of the public meeting and opportunity for public comment.
- (3) The alternative criteria adhere to guidelines established by a national association of public agency transportation officials.

Discussion

The City of Palo Alto Comprehensive Plan, Climate Action Plan, and Bicycle and Pedestrian Transportation Plan establish clear support and priority for investing in non-motorized transportation, improving access to transit, and reducing dependence on single-occupant vehicles to improve the overall efficiency of the transportation system.

The passage of the Protected Bikeways Act in September 2014 requires that if a local agency wishes to use an alternative design standard, that this design standard be adopted by resolution at a public meeting.

Adopting the NACTO street design guides will provide additional support in the City's efforts to introduce complete street ideas into the design and operation of streets by providing design guidance on transportation infrastructure. City staff will continue to work proactively with the community to provide convenient, safe, and context-sensitive facilities that promote increased use by people who walk and bicycle. When NACTO guidance or other design guidance is used, the City will continue to utilize sound planning and engineering judgment when determining the best solution for a local need.

Attachment A provides a proposed Resolution to adopt the NACTO Design Guidelines.

The NACTO Guides may be reviewed or ordered online as outlined in Attachment B. A hardcopy is available *for review only* at the City of Palo Alto Transportation Division, 250 Hamilton Avenue, 5th floor.

NACTO Urban Bikeway Design Guide

The NACTO Urban Bikeway Design Guide is based on the experience of the best cycling cities in the world. To create the guide, the authors conducted a worldwide literature search of design guidelines and real-life experience and worked closely with a panel of planning professionals from NACTO member cities, as well as traffic engineers, planners, and academics.

Most of these treatments are not directly referenced in the current version of the AASHTO Guide to Bikeway Facilities, although they are virtually all (with two exceptions) permitted under the Manual on Uniform Traffic Control Devices (MUTCD). The MUTCD is published by the Federal Highway Administration (FHWA) to define the standards used by road managers nationwide to install and maintain traffic control devices on all public streets, highways, bikeways, and private roads open to public travel. The MUTCD, which has been administered by the FHWA since 1971, is a compilation of national standards for all traffic control devices, including road markings, highway signs, and traffic signals. It is updated periodically to accommodate the nation's changing transportation needs and address new safety technologies, traffic control tools and traffic management techniques.

In August 2013, the Federal Highway Administration issued a memorandum officially supporting use of the NACTO Urban Bikeway Design Guide. All of the NACTO Urban Bikeway Design Guide treatments are in use internationally and in many cities around the United States.

For each treatment in the Urban Bikeway Design Guide, NACTO provides three levels of guidance:

- Required: elements for which there is a strong consensus that the treatment cannot be implemented without.
- Recommended: elements for which there is a strong consensus of added value.
- Optional: elements that vary across cities and may add value depending on the situation.

NACTO emphasizes that treatments must be tailored to the individual situation with thorough documentation of decisions. To assist with this, the NACTO Urban Bikeway Design Guide links to companion reference material and studies.

Palo Alto Pedestrian and Bicycle Advisory Committee Review

Staff brought a draft proposed Resolution to the Palo Alto Pedestrian and Bicycle Advisory Committee (PABAC) for input on August 4, 2015. PABAC members suggested minor edits to the Resolution which have been incorporated by staff. On September 1, 2015, PABAC reviewed the revised Resolution and passed a unanimous motion recommending adoption of the NACTO guidelines by the City Council.

Planning and Transportation Commission Review

On September 9, 2015, the Planning and Transportation Commission unanimously recommended the City Council adopt the Resolution adopting the NACTO guidelines.

Resource Impact

Adopting the NACTO Design Guidelines will give the City flexibility in designing bicycle and pedestrian facilities. There is no definable impact on the cost of future capital projects.

Policy Implications

Adoption of the NACTO Design Guides as supplementary guidelines is consistent with the Comprehensive Plan, Bicycle + Pedestrian Transportation Plan, and Climate Action Plan.

Environmental Review

Adoption of this resolution does not meet the definition of a project, therefore no environmental review is required.

Attachments:

- Attachment A: Resolution to Adopt NACTO Urban Street and Bikeway Design Guidelines (PDF)
- Attachment B: Design Guides (PDF)

NOT YET APPROVED

Resolution No. _____

Resolution of the Council of the City of Palo Alto Adopting the National Association of City Transportation Officials Urban Street Design and Bikeway Design Guidelines

RECITALS

- A. The City of Palo Alto Comprehensive Plan, Climate Action Plan, and Bicycle and Pedestrian Plan establish clear support and priority for investing in non-motorized transportation, improving access to transit, and reducing dependence on single-occupant vehicles to improve the overall efficiency of the transportation system.
- B. The National Association of City Transportation Officials (NACTO) Urban Street Design Guide available at <http://nacto.org/publication/urban-street-design-guide> and Urban Bikeway Design Guide available at <http://nacto.org/publication/urban-bikeway-design-guide/> offers supplementary guidance on complete streets to cities nationally.
- C. The NACTO Urban Street Design Guide and Urban Bikeway Design Guide offer a vision for improving the safety and livability of our streets for people who walk, bicycle, drive, and ride transit. The guidance and flexibility articulated in these guides serve as an additional tool for planning modern city streets to safely accommodate current and future residents, workers and visitors within limited space.
- D. The State Department of Transportation (Caltrans) has endorsed NACTO guides to “put additional tools in the tool box for both Caltrans staff and local agencies to reference when making project decisions on facilities for which they are responsible.”
- E. The NACTO Urban Street Design Guide and Urban Bikeway Design Guide are intended as supplemental guidelines and do not create mandatory requirements.
- F. The City of Palo Alto will work proactively with the community to provide convenient, safe, and context-sensitive facilities that promote increased use by people who walk and bicycle.
- G. When NACTO guidance or other design guidance is utilized, the City of Palo Alto will continue to utilize sound planning and engineering judgment when determining the best solution for a local need.
- H. The Palo Alto Pedestrian and Bicycle Advisory Committee and Planning and Transportation Commission have transmitted their recommendations.

NOT YET APPROVED

NOW, THEREFORE, the Council of the City of Palo Alto RESOLVES as follows:

SECTION 1. The Council hereby adopts the NACTO Urban Street Design Guide and Urban Bikeway Design Guide referenced in Paragraph B above, and as amended from time to time, as supplements to the City of Palo Alto Bicycle Plan.

SECTION 2. The Council finds that the adoption of this resolution does not meet the definition of a project under Public Resources Code Section 21065, thus, no environmental assessment under the California Environmental Quality Act is required.

INTRODUCED AND PASSED:

AYES:

NOES:

ABSENT:

ABSTENTIONS:

ATTEST:

City Clerk

Mayor

APPROVED AS TO FORM:

APPROVED:

Senior Assistant City Attorney

City Manager

Director of Planning and Community Environment

Director of Administrative Services

NACTO Urban Street Design Guide

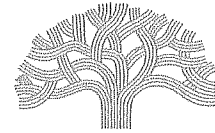
Please visit:

<http://nacto.org/publication/urban-street-design-guide/>

NACTO Urban Bikeway Design Guide

Please visit:

<http://nacto.org/publication/urban-bikeway-design-guide/>



CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA OAKLAND, CALIFORNIA 94612-2033

Public Works Agency
Brooke A. Levin
Interim Agency Director

(510) 238-3961
FAX (510) 238-6428
TDD (510) 238-7644

December 16, 2013

Janette Sadik-Khan
National Association of City Transportation Officials (NACTO)
55 Water Street, Floor 9
New York, NY 10041

RE: Letter of Endorsement for the NACTO Urban Street Design Guide

Dear Ms. Sadik-Khan:

On behalf of the City of Oakland, I am writing to express support for the National Association of City Transportation Officials (NACTO) *Urban Street Design Guide*, and endorse the Guide's use in the design of Oakland streets.

The Guide represents a vision for world-class city street design that matches Oakland's leadership goals and community desires. Urban transportation is in the midst of unprecedented change as the demands placed upon our streets and the needs of our citizens require an increasingly multimodal transportation network. Pressures, from public health to climate change to mobile technology, are redefining urban streets and opening opportunities for innovation.

The *Urban Street Design Guide* offers concrete guidance to meet these challenges and improve the safety and livability of our streets for pedestrians, bicyclists, drivers, and transit users. City streets demand a unique approach that are often not adequately addressed by conventional design guidelines. In Oakland, we value NACTO's role in developing targeted national guidance that allows local agencies to design and implement more successful projects. The *Urban Street Design Guide* provides a new and important direction for cities, and will be an indispensable tool in planning and designing Oakland's streets.

As such, the City of Oakland officially adopts the NACTO *Urban Street Design Guide* as an integral and effective tool for designing streets and public spaces.

Sincerely,

Brooke A. Levin
Interim Director, Public Works Agency

cc: Michael J. Neary, Assistant Director, Department of Engineering and Construction

Assembly Bill No. 43

CHAPTER 690

An act to amend Sections 627, 21400, 22352, 22354, 22358, and 40802 of, and to add Sections 22358.6, 22358.7, 22358.8, and 22358.9 to, the Vehicle Code, relating to traffic safety.

[Approved by Governor October 8, 2021. Filed with Secretary of State October 8, 2021.]

LEGISLATIVE COUNSEL'S DIGEST

AB 43, Friedman. Traffic safety.

(1) Existing law establishes various default speed limits for vehicles upon highways, as specified. Existing law authorizes state and local authorities to adjust these default speed limits, as specified, based upon certain findings determined by an engineering and traffic survey. Existing law defines an engineering and traffic survey and prescribes specified factors that must be included in the survey, including prevailing speeds and road conditions. Existing law authorizes local authorities to consider additional factors, including pedestrian and bicyclist safety.

This bill would authorize local authorities to consider the safety of vulnerable pedestrian groups, as specified.

(2) Existing law establishes a prima facie speed limit of 25 miles per hour on any highway, other than a state highway, located in any business or residence district, as defined. Existing law authorizes a local authority to change the speed limit on any such highway, as prescribed, including erecting signs to give notice thereof.

This bill would establish a prima facie speed limit of 25 miles per hour on state highways located in any business or residence district and would authorize the Department of Transportation (Caltrans) to change the speed limit on any such highway, as prescribed, including erecting signs to give notice thereof.

(3) Existing law establishes a speed limit of 65 miles per hour on state highways, as specified. Existing law authorizes Caltrans to declare a speed limit on any such highway, as prescribed, of 60, 55, 50, 45, 40, 35, 30, or 25 miles per hour, including erecting signs to give notice thereof. Existing law also authorizes a local authority, on a section of highway, other than a state highway, where the speed limit is 65 miles per hour to declare a lower speed limit, as specified.

This bill would additionally authorize Caltrans and a local authority to declare a speed limit of 20 or 15 miles per hour, as specified, on these highways.

(4) Existing law authorizes a local authority, without an engineering and traffic survey, to declare a lowered speed limit on portions of highway, as

specified, approaching a school building or school grounds. Existing law limits this authority to sections of highway meeting specified requirements relating to the number of lanes and the speed limit of the highway before the school zone.

This bill would similarly authorize a lowered speed limit on a section of highway contiguous to a business activity district, as defined, and would require that certain violations be subject to a warning citation, for the first 30 days of implementation.

(5) Existing law requires Caltrans, by regulation, to provide for the rounding up or down to the nearest 5 miles per hour increment of the 85th percentile speed of free-flowing traffic on a portion of highway as determined by a traffic and engineering survey. Existing law requires the Judicial Council to create and implement an online tool by June 30, 2024, for the adjudication of traffic infractions, among other things.

This bill would authorize a local authority to further reduce the speed limit, as specified, and require that certain violations be subject to a warning citation, for the first 30 days of implementation. The bill would, in some circumstances, authorize the reduction of a speed limit beginning June 30, 2024, or when the Judicial Council has developed an online tool for adjudicating traffic infraction violations, whichever is sooner. The bill would require Caltrans to accordingly revise the California Manual on Uniform Traffic Control Devices, as specified.

(6) Existing law defines a speed trap and prohibits evidence of a driver's speed obtained through a speed trap from being admissible in court in any prosecution against a driver for a speed-related offense. Existing law deems a road where the speed limit is not justified by a traffic and engineering survey conducted within the previous 7 years to be a speed trap, unless the roadway has been evaluated by a registered engineer, as specified, in which case the speed limit remains enforceable for a period of 10 years. Existing law exempts a school zone, as defined, from certain provisions relating to defining a speed trap.

This bill would extend the period that a speed limit justified by a traffic and engineering survey conducted more the 7 years ago remains valid, for purposes of speed enforcement, if evaluated by a registered engineer, as specified, to 14 years.

This bill would also exempt a senior zone and business activity district, as defined, from those provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 627 of the Vehicle Code is amended to read:

627. (a) "Engineering and traffic survey," as used in this code, means a survey of highway and traffic conditions in accordance with methods determined by the Department of Transportation for use by state and local authorities.

(b) An engineering and traffic survey shall include, among other requirements deemed necessary by the department, consideration of all of the following:

- (1) Prevailing speeds as determined by traffic engineering measurements.
- (2) Accident records.
- (3) Highway, traffic, and roadside conditions not readily apparent to the driver.

(c) When conducting an engineering and traffic survey, local authorities, in addition to the factors set forth in paragraphs (1) to (3), inclusive, of subdivision (b) may consider all of the following:

(1) Residential density, if any of the following conditions exist on the particular portion of highway and the property contiguous thereto, other than a business district:

(A) Upon one side of the highway, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 13 or more separate dwelling houses or business structures.

(B) Upon both sides of the highway, collectively, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 16 or more separate dwelling houses or business structures.

(C) The portion of highway is longer than one-quarter of a mile but has the ratio of separate dwelling houses or business structures to the length of the highway described in either subparagraph (A) or (B).

(2) Safety of bicyclists and pedestrians, with increased consideration for vulnerable pedestrian groups including children, seniors, persons with disabilities, users of personal assistive mobility devices, and the unhoused.

SEC. 2. Section 21400 of the Vehicle Code is amended to read:

21400. (a) The Department of Transportation shall, after consultation with local agencies and public hearings, adopt rules and regulations prescribing uniform standards and specifications for all official traffic control devices placed pursuant to this code, including, but not limited to, stop signs, yield right-of-way signs, speed restriction signs, railroad warning approach signs, street name signs, lines and markings on the roadway, and stock crossing signs placed pursuant to Section 21364.

(b) The Department of Transportation shall, after notice and public hearing, determine and publicize the specifications for uniform types of warning signs, lights, and devices to be placed upon a highway by a person engaged in performing work that interferes with or endangers the safe movement of traffic upon that highway.

(c) Only those signs, lights, and devices as are provided for in this section shall be placed upon a highway to warn traffic of work that is being performed on the highway.

(d) Control devices or markings installed upon traffic barriers on or after January 1, 1984, shall conform to the uniform standards and specifications required by this section.

SEC. 3. Section 22352 of the Vehicle Code is amended to read:

22352. The prima facie limits are as follows and shall be applicable unless changed as authorized in this code and, if so changed, only when signs have been erected giving notice thereof:

(a) Fifteen miles per hour:

(1) When traversing a railway grade crossing, if during the last 100 feet of the approach to the crossing the driver does not have a clear and unobstructed view of the crossing and of any traffic on the railway for a distance of 400 feet in both directions along the railway. This subdivision does not apply in the case of any railway grade crossing where a human flagperson is on duty or a clearly visible electrical or mechanical railway crossing signal device is installed but does not then indicate the immediate approach of a railway train or car.

(2) When traversing any intersection of highways if during the last 100 feet of the driver's approach to the intersection the driver does not have a clear and unobstructed view of the intersection and of any traffic upon all of the highways entering the intersection for a distance of 100 feet along all those highways, except at an intersection protected by stop signs or yield right-of-way signs or controlled by official traffic control signals.

(3) On any alley.

(b) Twenty-five miles per hour:

(1) On any highway, in any business or residence district unless a different speed is determined by local authority or the Department of Transportation under procedures set forth in this code.

(2) When approaching or passing a school building or the grounds thereof, contiguous to a highway and posted with a standard "SCHOOL" warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. The prima facie limit shall also apply when approaching or passing any school grounds which are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children and the highway is posted with a standard "SCHOOL" warning sign. For purposes of this subparagraph, standard "SCHOOL" warning signs may be placed at any distance up to 500 feet away from school grounds.

(3) When passing a senior center or other facility primarily used by senior citizens, contiguous to a street other than a state highway and posted with a standard "SENIOR" warning sign. A local authority may erect a sign pursuant to this paragraph when the local agency makes a determination that the proposed signing should be implemented. A local authority may request grant funding from the Active Transportation Program pursuant to Chapter 8 (commencing with Section 2380) of Division 3 of the Streets and Highways Code, or any other grant funding available to it, and use that grant funding to pay for the erection of those signs, or may utilize any other funds available to it to pay for the erection of those signs, including, but not limited to, donations from private sources.

SEC. 4. Section 22354 of the Vehicle Code is amended to read:

22354. (a) Whenever the Department of Transportation determines upon the basis of an engineering and traffic survey that the limit of 65 miles

per hour is more than is reasonable or safe upon any portion of a state highway where the limit of 65 miles is applicable, the department may determine and declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, 25, 20, or 15 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe, which declared prima facie speed limit shall be effective when appropriate signs giving notice thereof are erected upon the highway.

(b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

SEC. 5. Section 22358 of the Vehicle Code is amended to read:

22358. (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that the limit of 65 miles per hour is more than is reasonable or safe upon any portion of any street other than a state highway where the limit of 65 miles per hour is applicable, the local authority may by ordinance determine and declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, 25, 20, or 15 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe, which declared prima facie limit shall be effective when appropriate signs giving notice thereof are erected upon the street.

(b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

SEC. 6. Section 22358.6 is added to the Vehicle Code, to read:

22358.6. The Department of Transportation shall, in the next scheduled revision, revise and thereafter maintain the California Manual on Uniform Traffic Control Devices to require the Department of Transportation or a local authority to round speed limits to the nearest five miles per hour of the 85th percentile of the free-flowing traffic. However, in cases in which the speed limit needs to be rounded up to the nearest five miles per hour increment of the 85th-percentile speed, the Department of Transportation or a local authority may decide to instead round down the speed limit to the lower five miles per hour increment. A local authority may additionally lower the speed limit as provided in Sections 22358.7 and 22358.8.

SEC. 7. Section 22358.7 is added to the Vehicle Code, to read:

22358.7. (a) If a local authority, after completing an engineering and traffic survey, finds that the speed limit is still more than is reasonable or safe, the local authority may, by ordinance, determine and declare a prima facie speed limit that has been reduced an additional five miles per hour for either of the following reasons:

(1) The portion of highway has been designated as a safety corridor. A local authority shall not deem more than one-fifth of their streets as safety corridors.

(2) The portion of highway is adjacent to any land or facility that generates high concentrations of bicyclists or pedestrians, especially those from vulnerable groups such as children, seniors, persons with disabilities, and the unhoused.

(b) (1) As used in this section, “safety corridor” shall be defined by the Department of Transportation in the next revision of the California Manual

on Uniform Traffic Control Devices. In making this determination, the department shall consider highways that have the highest number of serious injuries and fatalities based on collision data that may be derived from, but not limited to, the Statewide Integrated Traffic Records System.

(2) The Department of Transportation shall, in the next revision of the California Manual on Uniform Traffic Control Devices, determine what constitutes land or facilities that generate high concentrations of bicyclists and pedestrians, as used in paragraph (2) of subdivision (a). In making this determination, the department shall consider density, road use type, and bicycle and pedestrian infrastructure present on a section of highway.

(c) A local authority may not lower a speed limit as authorized by this section until June 30, 2024, or until the Judicial Council has developed an online tool for adjudicating infraction violations statewide as specified in Article 7 (commencing with Section 68645) of Chapter 2 of Title 8 of the Government Code, whichever is sooner.

(d) A local authority shall issue only warning citations for violations of exceeding the speed limit by 10 miles per hour or less for the first 30 days that a lower speed limit is in effect as authorized by this section.

SEC. 8. Section 22358.8 is added to the Vehicle Code, to read:

22358.8. (a) If a local authority, after completing an engineering and traffic survey, finds that the speed limit is still more than is reasonable or safe, the local authority may, by ordinance, retain the current speed limit or restore the immediately prior speed limit if that speed limit was established with an engineering and traffic survey and if a registered engineer has evaluated the section of highway and determined that no additional general purpose lanes have been added to the roadway since completion of the traffic survey that established the prior speed limit.

(b) This section does not authorize a speed limit to be reduced by any more than five miles per hour from the current speed limit nor below the immediately prior speed limit.

(c) A local authority shall issue only warning citations for violations of exceeding the speed limit by 10 miles per hour or less for the first 30 days that a lower speed limit is in effect as authorized by this section.

SEC. 9. Section 22358.9 is added to the Vehicle Code, to read:

22358.9. (a) (1) Notwithstanding any other law, a local authority may, by ordinance, determine and declare a 25 or 20 miles per hour prima facie speed limit on a highway contiguous to a business activity district when posted with a sign that indicates a speed limit of 25 or 20 miles per hour.

(2) The prima facie limits established under paragraph (1) apply only to highways that meet all of the following conditions:

(A) A maximum of four traffic lanes.

(B) A maximum posted 30 miles per hour prima facie speed limit immediately prior to and after the business activity district, if establishing a 25 miles per hour speed limit.

(C) A maximum posted 25 miles per hour prima facie speed limit immediately prior to and after the business activity district, if establishing a 20 miles per hour speed limit.

(b) As used in this section, a “business activity district” is that portion of a highway and the property contiguous thereto that includes central or neighborhood downtowns, urban villages, or zoning designations that prioritize commercial land uses at the downtown or neighborhood scale and meets at least three of the following requirements in paragraphs (1) to (4), inclusive:

(1) No less than 50 percent of the contiguous property fronting the highway consists of retail or dining commercial uses, including outdoor dining, that open directly onto sidewalks adjacent to the highway.

(2) Parking, including parallel, diagonal, or perpendicular spaces located alongside the highway.

(3) Traffic control signals or stop signs regulating traffic flow on the highway, located at intervals of no more than 600 feet.

(4) Marked crosswalks not controlled by a traffic control device.

(c) A local authority shall not declare a prima facie speed limit under this section on a portion of a highway where the local authority has already lowered the speed limit as permitted under Sections 22358.7 and 22358.8.

(d) A local authority shall issue only warning citations for violations of exceeding the speed limit by 10 miles per hour or less for the first 30 days that a lower speed limit is in effect as authorized by this section.

SEC. 10. Section 40802 of the Vehicle Code is amended to read:

40802. (a) A “speed trap” is either of the following:

(1) A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.

(2) A particular section of a highway with a prima facie speed limit that is provided by this code or by local ordinance under paragraph (1) of subdivision (b) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within five years prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects. This paragraph does not apply to a local street, road, school zone, senior zone, or business activity district.

(b) (1) For purposes of this section, a local street or road is one that is functionally classified as “local” on the “California Road System Maps,” that are approved by the Federal Highway Administration and maintained by the Department of Transportation. It may also be defined as a “local street or road” if it primarily provides access to abutting residential property and meets the following three conditions:

(A) Roadway width of not more than 40 feet.

(B) Not more than one-half of a mile of uninterrupted length. Interruptions shall include official traffic control signals as defined in Section 445.

(C) Not more than one traffic lane in each direction.

(2) For purposes of this section, “school zone” means that area approaching or passing a school building or the grounds thereof that is

contiguous to a highway and on which is posted a standard “SCHOOL” warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. “School zone” also includes the area approaching or passing any school grounds that are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children if that highway is posted with a standard “SCHOOL” warning sign.

(3) For purposes of this section, “senior zone” means that area approaching or passing a senior center building or other facility primarily used by senior citizens, or the grounds thereof that is contiguous to a highway and on which is posted a standard “SENIOR” warning sign, pursuant to Section 22352.

(4) For purposes of this section, “business activity district” means a section of highway described in subdivision (b) of Section 22358.9 in which a standard 25 miles per hour or 20 miles per hour speed limit sign has been posted pursuant to paragraph (1) of subdivision (a) of that section.

(c) (1) When all of the following criteria are met, paragraph (2) of this subdivision shall be applicable and subdivision (a) shall not be applicable:

(A) When radar is used, the arresting officer has successfully completed a radar operator course of not less than 24 hours on the use of police traffic radar, and the course was approved and certified by the Commission on Peace Officer Standards and Training.

(B) When laser or any other electronic device is used to measure the speed of moving objects, the arresting officer has successfully completed the training required in subparagraph (A) and an additional training course of not less than two hours approved and certified by the Commission on Peace Officer Standards and Training.

(C) (i) The prosecution proved that the arresting officer complied with subparagraphs (A) and (B) and that an engineering and traffic survey has been conducted in accordance with subparagraph (B) of paragraph (2). The prosecution proved that, prior to the officer issuing the notice to appear, the arresting officer established that the radar, laser, or other electronic device conformed to the requirements of subparagraph (D).

(ii) The prosecution proved the speed of the accused was unsafe for the conditions present at the time of alleged violation unless the citation was for a violation of Section 22349, 22356, or 22406.

(D) The radar, laser, or other electronic device used to measure the speed of the accused meets or exceeds the minimal operational standards of the National Highway Traffic Safety Administration, and has been calibrated within the three years prior to the date of the alleged violation by an independent certified laser or radar repair and testing or calibration facility.

(2) A “speed trap” is either of the following:

(A) A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.

(B) (i) A particular section of a highway or state highway with a prima facie speed limit that is provided by this code or by local ordinance under paragraph (1) of subdivision (b) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within one of the following time periods, prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects:

(I) Except as specified in subclause (II), seven years.

(II) If an engineering and traffic survey was conducted more than seven years prior to the date of the alleged violation, and a registered engineer evaluates the section of the highway and determines that no significant changes in roadway or traffic conditions have occurred, including, but not limited to, changes in adjoining property or land use, roadway width, or traffic volume, 14 years.

(ii) This subparagraph does not apply to a local street, road, or school zone, senior zone, or business activity district.

O



Kate Harrison
Vice Mayor, District 4

CONSENT CALENDAR
March 22, 2022

To: Honorable Mayor and Members of the City Council

From: Vice Mayor Harrison (Author), Councilmember Hahn (Co-Sponsor)

Subject: Referral to the Facilities, Infrastructure, Transportation, Environment & Sustainability Policy Committee Policy Committee to Consider Strategies and Make Recommendations to Council and Staff to Ensure Potential Infrastructure Bond Expenditure Is Consistent With Climate Action Goals and Other Environmental Policies

RECOMMENDATION

Refer to the Facilities, Infrastructure, Transportation, Environment & Sustainability (FITES) Policy Committee Policy Committee to consider strategies and make recommendations to the Council and staff to ensure that potential infrastructure bond is consistent with Climate Action goals and other environmental policies.

CURRENT SITUATION, EFFECTS, AND RATIONALE FOR RECOMMENDATION

The City is facing a historic crisis of underinvestment in its infrastructure. Perhaps the most visible area is the City's streets, sidewalks, and other infrastructure vulnerable to climate change.

Council agreed at its January 20, 2022 special Council meeting to provide direction to staff to explore and prepare a draft \$300-\$600 million infrastructure bond and/or parcel tax ahead of the November 2022 election.

While the condition of the City's streets is of paramount concern to the Berkeley community, in the spirit of the Vision 2050 report, the Climate Action Plan, Climate Emergency Declaration and various other policies, Berkeley cannot afford to merely rebuild the same infrastructure dating from the past century. Rather, new expenditures on infrastructure should holistically contribute to building a Berkeley of the future, which is much less carbon intensive, greener, modern, and more equitable. Doing so will require intentional policies and consideration.

To this end, it is in the public interest to refer to the Facilities, Infrastructure, Transportation, Environment & Sustainability (FITES) Policy Committee Policy Committee to consider strategies and make recommendations to the Council and staff to ensure that potential infrastructure bond is consistent with Climate Action goals and other environmental policies.

BACKGROUND

At the Council's direction, the Facilities, Infrastructure, Transportation, Environment & Sustainability (FITES) Policy Committee has spent two years investigating the overall paving situation, paving policies, and multi-faceted paving funding/bonding solutions. As part of its work, the Committee collaborated with staff and the Public Works Commission to update the City's Paving Policy to include certain environmental and green paving considerations. However, the Paving Policy was largely adopted in light of status quo paving funding levels, and was not designed for a potential once in a generation opportunity to reenvision the City's infrastructure.

If carefully crafted, the Bond could simultaneously stabilize PCI and include critical complimentary upgrades that support health, safety, and the environment/climate.

For example, the Committee should consider investigating and making recommendations with respect to the following concepts:

- **Future-proofing / Curbside EV** Integrate conduit and infrastructure to support public curbside EV charging, fiber optic cables, and electrification infrastructure upgrades (e.g., transformers) with paving work. Work with regional agencies such as EBCE to explore opportunities to leverage capital and other resources;
- **Green Paving Techniques** Explore how the bond expenditures can be structured to maximize durability/lifecycle and minimize greenhouse gasses, to include concrete, pavers and potentially stabilized gravel or hybrid. For example, Marin Avenue has not been substantially paved for nearly a half century because of its design;
- **Efficiency** Consider strategies to pave whole neighborhoods or sections of the City at once to capitalize on equipment and labor economies of scale, reduce greenhouse gas emissions associated with repositioning equipment, and as an opportunity to make projects attractive to unionized labor;
- **Bike/Pedestrian/Transit Upgrades** Explore the maximum amount of mobility goals we can accomplish as part of the Bond and how to best achieve Vision 2050, Vision Zero, and Climate Action goals;
- **Trees and Bio Diversity** Explore how to integrate street trees and plants into upgrades to improve local air quality and urban canopy as well as reduce heat islanding;
- **Stormwater Quality** Ensure new stormwater infrastructure minimizes plastics and debris flushed into creeks, and avoids standing water that can enable mosquito breeding. Support capture of point source waste, including that from RV's. Explore options for maximizing oil/containment stormwater capture.

- **Road Diets** Explore narrowing certain wider streets by extending curbs and reducing maintenance and paving costs overtime, calming traffic, and reducing embodied greenhouse gases;
- **Car-free Zones** Carefully, strategically, and equitably consider whether and which streets might be made vehicle-free (e.g., Telegraph) except for emergency, certain delivery, and senior/disabled access;
- **Climate Resiliency** Provide feedback and input on climate impacts and resilience aspects of the bond, including identifying areas vulnerable to sea level rise.
- **Tax Equity** Consider applying any parcel taxes to include space designated for indoor parking in order to broaden the tax base, reflect the fact that many designated interior parking spaces are used for other purposes and ensure a more progressive and equitable distribution of potential tax impacts.

FISCAL IMPACTS OF RECOMMENDATION

Carefully considering the potential infrastructure bond in the context of existing climate and infrastructure policies could lead to cost savings in terms of lifecycle and upfront expenditures.

ENVIRONMENTAL SUSTAINABILITY

FITES recommendations can help guide how potential bond funds are spent to further accelerate mode shifts away from fossil fuel vehicles, reduce embodied carbon, and enhance urban bio diversity.

CONTACT PERSON

Vice Mayor Kate Harrison, (510) 981-7140

ORDINANCE NO. –N.S.

ADDING CHAPTER 11.62 TO THE BERKELEY MUNICIPAL CODE TO REGULATE PLASTIC THE USE OF CARRYOUT AND PRODUCE BAGS AT RETAIL AND FOOD SERVICE ESTABLISHMENTS AND PROMOTING THE USE OF REUSABLE BAGS

BE IT ORDAINED by the Council of the City of Berkeley as follows:

Section 1. That Chapter 11.62 of the Berkeley Municipal Code is added to read as follows:

Chapter 11.62

PLASTIC BAGS – RETAIL AND FOOD SERVICE ESTABLISHMENTS REGULATING THE USE OF CARRYOUT AND PRODUCE BAGS AND PROMOTING THE USE OF REUSABLE BAGS

Sections:

11.62.010 Findings and ~~Purpose~~purpose.

11.62.020 Definitions.

~~11.62.030 Types of Checkout Bags permitted at Retail Service and Food Service Establishments.~~

~~11.62.040 Checkout Bag charge for paper or Reusable Checkout Bags at Retail Service establishments.~~

~~11.62.030 Carryout Bag restrictions for Covered Entities.~~

~~11.62.040 Produce Bag restrictions for Grocery Stores.~~

~~11.62.050 Use of Compostable Produce Bags at Retail Service Establishments~~General exemptions.

~~11.62.060 Hardship Exemption~~

Undue hardship exemption.

~~11.62.070 City of Berkeley—purchases prohibited.~~

11.62.080 Duties, responsibilities and authority of the City of Berkeley.

~~11.62.080 City of Berkeley—purchases prohibited~~

11.62.090 Liability and ~~Enforcement.~~enforcement.

11.62.100 Severability.

11.62.110 Construction.

~~11.62.120 Chapter supersedes existing laws and regulations.~~

~~11.62.130 Effective Date.~~

date.

11.62.010 Findings and ~~Purpose~~purpose.

The Council of the City of Berkeley finds and declares as follows:

- A. Single-use plastic bags, ~~plastic produce bags,~~ and plastic ~~product~~produce bags are a ~~major~~significant contributor to street litter, ocean pollution, marine and other wildlife harm and greenhouse gas emissions.
- B. The production, consumption and disposal of plastic based bags contribute significantly to the depletion of natural resources. Plastics in waterways and oceans break down into smaller pieces that are not biodegradable, and present a great harm to global environment.
- C. Among other hazards, plastic debris attracts and concentrates ambient pollutants in seawater and freshwater, which can transfer to fish, other seafood and salt that is eventually sold for human consumption. Certain plastic bags can also contain microplastics that present a great harm to our seawater and freshwater life, which ~~implicitly~~indirectly presents a threat to human life.
- D. It is in the interest of the health, safety and welfare of all who live, work and do business in the City that the amount of litter on public streets, parks and in other public places be reduced.
- E. The City of Berkeley must eliminate solid waste at its source and maximize recycling and composting in accordance with its Zero Waste Goals. Reduction of plastic bag waste furthers this goal.
- ~~F.~~ The State of California ~~regulates and Alameda County Waste Management Authority both regulate~~ single-use, paper, and reusable carryout bags ~~as directed~~respectively under ~~Senate Bill SB 270, but numerous local governments, including San Francisco and Palo Alto, have imposed more stringent regulations/~~Proposition 67 and Ordinance 2012-02 (as amended by Ordinance 2016-02). However, neither currently address problems related to ~~reduce the toll plastic bags inflict upon the environment.~~
- ~~G.F.~~ Stores often provide customers with plastic pre-checkout bags to ~~package~~carry fruits, vegetables, and other loose or bulky items while shopping, before reaching the checkout area. ~~They~~These bags, which are often plastic, share many of the same physical qualities as single-use plastic carryout bags no longer permitted in California, and are difficult to recycle ~~or,~~ reuse or compost.
- ~~H.G.~~ SB 270 ~~permits local governments to increase~~also does not regulate the price of bags provided at the point of sale by restaurants and ~~leaves open any regulation on pre-checkout~~streets events, including farmers' markets. While the County's Ordinance 2016-02 regulates restaurant carryout bags, such as at meat or vegetable stands within grocery stores, it falls short of completely phasing out single-use film bags, and does not impose a meaningful point of sale charges for reusable and paper bags.
- ~~H.H.~~ The City of Berkeley currently regulates a number of disposable plastic items through the Single-Use Foodware and Litter Reduction Ordinance (Ord. 7639-NS § 1 (part), 2019), but does not currently impose regulations ~~on~~with respect to bags. It is in the public interest to reduce plastic and paper waste in areas not preempted by the State of California.
- ~~H.I.~~ This Chapter is consistent with the City of Berkeley's 2009 Climate Action Plan, the County of Alameda Integrated Waste Management Plan, as amended, and the

CalRecycle recycling and waste disposal regulations contained in Titles 14 and 27 of the California Code of Regulations.

11.62.20 Definitions.

~~“Checkout”~~A. “Carryout Bag” means a bag provided by a Retail Service Establishment at the checkstand~~check stand~~, cash register, point of sale or other ~~point of departure~~location for the purpose of transporting food or merchandise out of ~~the establishment~~. ~~Checkout~~Covered Entity. Carryout Bags do not include Produce ~~Bags~~ or Product Bags.

~~“Recyclable Paper Checkout Bag”~~B. “Covered Entity” means a paper bag that meets any of the following criteria:

- ~~1. Contains no old growth fiber;~~
- ~~2. Is 100% recyclable overall and contains a minimum of 40% post-consumer recycled content;~~

~~Displays the word “Recyclable”~~(1) any restaurant, take-out food establishment or other business (including, but not limited to, food sales from vehicles or temporary facilities open to the public) that receives 90% or more of its revenue from the sale of prepared and ready-to-consume foods and/or drinks to the public and is not subject to the requirements of Public Resources Code Section 42281; and

~~(2) any event, or Person therein, requiring a street event permit pursuant to Berkeley Municipal Code 13.44.040 and not subject to the requirements of Public Resources Code Section 42281.~~

~~C. “Customer” means any Person obtaining goods from a Covered Entity or Grocery Store.~~

~~“Grocery Store” means a supermarket, grocery store, convenience food store, foodmart, or other entity engaged in the retail sale of goods that include perishable or nonperishable food items;~~

~~“Recycled Content Paper Bag” means either a Carryout Bag provided by a covered Entity or a Produce Bag provided by a Grocery Store that contains no old growth fiber and a minimum of one hundred percent (100%) postconsumer recycled material; is one hundred percent (100%) recyclable and compostable, consistent with the timeline and specifications of the American Society of Testing and Materials (ASTM) Standard D6400; and has printed in a highly visible manner on the outside of the bag along with the the words “Recyclable,” the name and location of the manufacturer, and the percentage of postconsumer recycled content.~~

~~“Reusable Bag” means a bag with handles that is specifically designed and manufactured for multiple reuse and meets all of the following requirements:~~

~~(1) has a minimum lifetime of 125 uses, which for purposes of this subsection, means the capability of carrying a minimum of 22 pounds 125 times over a distance of at least 175 feet;~~

~~(2) has a minimum volume of 15 liters;~~

~~(3) is machine washable or is made from a material that can be cleaned or disinfected;~~

~~(4) does not contain lead, cadmium or any other heavy metal in toxic amounts, as defined by applicable state and federal standards and regulations for packaging or reusable bags;~~

3. (5) has printed on the bag, or on a tag that is permanently affixed to the bag, the name of the manufacturer, the location (country) where the bag was manufactured, a statement that the bag does not contain lead, cadmium, or any other heavy metal in toxic amounts, and the percentage of post-consumer/postconsumer recycled content in an easy-to-read size font; material used, if any; and

4. ~~Or is made from alternative material or meets alternative standards approved by the City Manager or their designee.~~

~~“Reusable Checkout Bag” means all Checkout Bags defined as reusable under Cal. PRC §42280-42288, such as cloth or other washable woven bags, but do not include film bags considered reusable under Cal. PRC §42280-42288.~~

(6) is not primarily made of plastic film, regardless of thickness.

“Person” means an individual, firm, public or private corporation, limited liability company, partnership, industry or any other entity whatsoever.

“Produce Bag” means a bag provided to a customer to carry produce, meats, bulk food, or other food items to the point of sale inside a store and protects food or merchandise from being damaged or contaminated by other food or merchandise~~when items are placed together in a Reusable Checkout Bag or Recyclable Paper Checkout Bag.~~

~~“Compostable Produce Bags” means paper bags and bags made of plastic-like material if the material meets the ASTM Standard Specifications for compostability D6400 or D6868, or the product is Biodegradable Products Institute (BPI) certified, or is considered acceptable within the City’s compost collection program.~~

~~“Product Bag” means a bag provided to a customer to protect merchandise from being damaged or contaminated by other merchandise when items are placed together in a Reusable Checkout Bag or Recyclable Paper Checkout Bag; a bag~~“Product Bag” are bags that are integral to the packaging of the product; a bag provided to the Customer to hold prescription medication dispensed from a pharmacy; or a bag without handles that is designed to be placed over articles of clothing on a hanger.

~~“Retail Food Establishment” means any establishment, located or providing food within the City, which provides prepared and ready to consume food or beverages, for public consumption including but not limited to any Retail Service Establishment, eating and drinking service, takeout service, supermarket, delicatessen, restaurant, food vendor, sales outlet, shop, cafeteria, catering truck or vehicle, cart or other sidewalk or outdoor vendor or caterer which provides prepared and ready to consume food or beverages, for public consumption, whether open to the general public or limited to certain members of the public (e.g., company cafeteria for employees).~~

~~“Retail Service Establishment” means a for-profit or not-for-profit business that where goods, wares or merchandise or services are sold for any purpose other than resale in the regular course of business (BMC Chapter 9.04.135).~~

~~11.62.030 Types of Checkout Bags permitted at Retail Service and Food Service Establishments.~~

11.62.30 Retail Service Establishments and Food Service Establishments Carryout Bag restrictions for Covered Entities.

A. No Covered Entity shall provide or sell a Carryout Bag other than Recycled Content Paper Bags or Reusable Bags at the check stand, cash register, point of sale or other location to a Customer for the purpose of transporting food or merchandise out of such establishment or event.

B. A Covered Entity may provide or make available for sale to a customer-only Customer:

(1) Recycled Content Paper Bags at no charge;

(2) Reusable Bags for a minimum price of twenty-five cents (\$0.25).

11.62. Checkout Bags, Compostable 040 Produce Bags, or Recyclable Paper Checkout Bags for the purpose of carrying away goods or Bag restrictions for Grocery Stores.

A. No Grocery Store or Covered Entity shall provide Produce Bags other materials from the point of sale, subject to the terms of this Chapter. than Recycled Content Paper Bags and Reusable Bags.

Exception: Single-use plastic bags

11.62.050 General exemptions

1. A. Bags exempt from the Chapter include those integral to the packaging of the product, Product Bags, or bags sold in packages containing multiple bags intended for use as garbage, pet waste or yard waste bags.

~~B. Effective [], 2020, farmers markets shall only provide Compostable Produce Bags to hold produce, meats, bulk food or other food items. Single-use Plastic Checkout Bags, Produce Bags or Product Bags shall not be provided by farmers markets for produce or meat.~~

~~C. B. Nothing in this Chapter prohibits customers from using bags of any type that they bring to the establishment themselves or from carrying away goods merchandise or materials that are not placed in a bag at point of sale, in lieu of using bags provided by the establishment.~~

11.62.040 Checkout Bag charge for paper or Reusable Checkout Bags at Retail Service Establishments.

~~A. Effective [], 2020, no Retail Service Establishment shall provide a Compostable Produce Bag, Recyclable Paper Checkout Bag or Reusable Checkout Bag to a customer at the point of sale, unless the store charges the customer a Checkout Bag charge of at least twenty-five cents (\$0.25) per bag to cover the costs of compliance with the Chapter, the actual costs of providing Recyclable Paper Checkout Bags, educational materials or other costs of promoting the use of Reusable Checkout Bags.~~

~~B. Retail Service Establishments shall establish a system for informing the customer of the charge required under this section prior to completing the transaction. This system can include store clerks inquiring whether customers who do not present their own Reusable Checkout Bag at point of checkout want to purchase a Checkout Bag.~~

~~C. The Checkout Bag charge shall be separately stated on the receipt provided to the customer at the time of sale and shall be identified as the Checkout Bag charge. Any other transaction fee charged by the Retail Service Establishment in relation to providing a Checkout Bag shall be identified separately from the checkout bag charge. The Checkout Bag charge may be completely retained by the Retail Service Establishment and used for public education and administrative enforcement costs.~~

~~D. Retail services establishments shall keep complete and accurate records of the number and dollar amount collected from Recyclable Paper Checkout Bags and Reusable Checkout Bags sold each month and provide specifications demonstrating that paper and reusable bags meet the standards set forth in Section 11.62.030 using either the electronic or paper reporting format required by the city. This information is required to be made available to city staff upon request up to three times annually and must be provided within seven days of request. Reporting false information, including information derived from incomplete or inaccurate records or documents, shall be a violation of the Chapter. Records submitted to the city must be signed by a responsible agent or officer of the establishment attesting that the information provided on the form is accurate and complete.~~

~~11.62.050 Use of Compostable Produce Bags at Retail Service Establishments.~~

~~Effective [], 2020, Retail Service Establishments shall only provide Compostable Produce Bags to carry produce, meats, bulk food, or other food items to point of sale within the store.~~

~~11.62.060 Hardship Exemption.~~

~~Undue hardship— exemption.~~

A. The City Manager, or their designee, may exempt a ~~retail service or food service establishment~~Covered Entity or Grocery Store from the requirements of this Chapter for a period of up to ~~one year,~~[x months], upon sufficient evidence by the applicant that the provisions of this Chapter would cause undue hardship. An undue hardship exemption request must be submitted in writing to the ~~city~~City. The phrase "undue hardship" may include, but is not limited to, the following:

~~1. Situations where there are no acceptable alternatives to single-use plastic Checkout Bags for reasons which are unique to the Retail Service Establishment or Food Service Establishment.~~

~~2.~~ (1) Situations where compliance with the requirements of this Chapter would deprive a person of a legally protected right.

~~B. Retail Service Establishments shall not enforce the ten cent (\$0.25) store charge for customers participating in the California Special Supplemental Food Program for Women, Infants, and Children, or in CalFresh, or in the Supplemental Nutrition Assistance Program (SNAP).~~

~~11.62.070~~11.62.070 City of Berkeley—purchases prohibited.

The City of Berkeley and any City-sponsored event shall only provide or make available to a Customer Recycled Content Paper Bags or Reusable Bags for the purpose of carrying away goods or other materials from the point of sale or event.

11.62.080 Duties, responsibilities and authority of the City of Berkeley.

The City Manager or their designee shall prescribe, adopt, and enforce rules and regulations relating to the administration and enforcement of this Chapter and is hereby authorized to take any and all actions reasonable and necessary to enforce this Chapter including, but not limited to, inspecting any ~~Retail Service Establishment's~~Covered Entity or Grocery Store's premises to verify compliance.

~~11.62.080 City of Berkeley—purchases prohibited.~~

~~The City of Berkeley shall not purchase any Foodware or Bag that is not Compostable, Recyclable or Reusable under Disposable Foodware and Bag Standards in Section 11.64.080, nor shall any City-sponsored event utilize non-compliant Disposable Foodware and Bag.~~

11.62.090 Liability and Enforcement.

- A. Anyone violating or failing to comply with any requirement of this Chapter may be subject to an Administrative Citation pursuant to Chapter 1.28 or charged with an infraction as set forth in Chapter 1.20 of the Berkeley Municipal Code; however, no administrative citation may be issued or infraction charged for violation of a requirement of this Chapter until one year after the effective date of such requirement.
- B. Enforcement shall include written notice of noncompliance and a reasonable opportunity to correct or to demonstrate initiation of a request for a waiver or waivers pursuant to Section 11.64.090~~62.060~~.
- C. The City Attorney may seek legal, injunctive, or other equitable relief to enforce this Chapter.
- D. The remedies and penalties provided in this section are cumulative and not exclusive.

11.62.100 Severability.

If any word, phrase, sentence, part, section, subsection, or other portion of this Chapter, or any application thereof to any person or circumstance is declared void, unconstitutional, or invalid for any reason, then such word, phrase, sentence, part, section, subsection, or other portion, or the prescribed application thereof, shall be severable, and the remaining provisions of this Chapter, and all applications thereof, not having been declared void, unconstitutional or invalid, shall remain in full force and effect. The City Council hereby declares that it would have passed this title, and each section, subsection, sentence, clause and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases had been declared invalid or unconstitutional.

11.62.110 Construction.

This Chapter is intended to be a proper exercise of the City's police power, to operate only upon its own officers, agents, employees and facilities and other persons acting within its boundaries, and not to regulate inter-city or interstate commerce. It shall be construed in accordance with that intent.

~~11.62.120 Chapter supersedes existing laws and regulations~~**Effective date.**

~~The provisions of this Chapter shall supersede any conflicting law or regulations.~~

~~11.62.130 Effective Date.~~

The provisions in this ordinance are effective [], 20202022.

Section 2. Copies of this Ordinance shall be posted for two days prior to adoption in the display case located near the walkway in front of the Maudelle Shirek Building, 2134 Martin Luther King Jr. Way. Within 15 days of adoption, copies of this Ordinance shall

be filed at each branch of the Berkeley Public Library and the title shall be published in a newspaper of general circulation.

ORDINANCE NO. –N.S.

ADDING CHAPTER 11.62 TO THE BERKELEY MUNICIPAL CODE TO REGULATE
THE USE OF CARRYOUT AND PRODUCE BAGS AND PROMOTING THE USE OF
REUSABLE BAGS

BE IT ORDAINED by the Council of the City of Berkeley as follows:

Section 1. That Chapter 11.62 of the Berkeley Municipal Code is added to read as follows:

Chapter 11.62

**REGULATING THE USE OF CARRYOUT AND PRODUCE BAGS AND PROMOTING
THE USE OF REUSABLE BAGS**

Sections:

11.62.010 Findings and purpose.

11.62.020 Definitions.

11.62.030 Carryout Bag restrictions for Covered Entities.

11.62.040 Produce Bag restrictions for Grocery Stores.

11.62.050 General exemptions.

11.62.060 Undue hardship exemption.

11.62.070 City of Berkeley—purchases prohibited.

11.62.080 Duties, responsibilities and authority of the City of Berkeley.

11.62.090 Liability and enforcement.

11.62.100 Severability.

11.62.110 Construction.

11.62.120 Effective date.

11.62.010 Findings and purpose.

The Council of the City of Berkeley finds and declares as follows:

- A. Single-use plastic bags and plastic produce bags are a significant contributor to street litter, ocean pollution, marine and other wildlife harm and greenhouse gas emissions.
- B. The production, consumption and disposal of plastic based bags contribute significantly to the depletion of natural resources. Plastics in waterways and oceans break down into smaller pieces that are not biodegradable, and present a great harm to global environment.
- C. Among other hazards, plastic debris attracts and concentrates ambient pollutants in seawater and freshwater, which can transfer to fish, other seafood and salt that is eventually sold for human consumption. Certain plastic bags can also contain microplastics that present a great harm to our seawater and freshwater life, which indirectly presents a threat to human life.
- D. It is in the interest of the health, safety and welfare of all who live, work and do business in the City that the amount of litter on public streets, parks and in other public places be reduced.
- E. The City of Berkeley must eliminate solid waste at its source and maximize recycling and composting in accordance with its Zero Waste Goals. Reduction of plastic bag waste furthers this goal.
- F. The State of California and Alameda County Waste Management Authority both regulate single-use, paper, and reusable carryout bags respectively under SB 270/Proposition 67 and Ordinance 2012-02 (as amended by Ordinance 2016-02). However, neither currently address problems related to pre-checkout bags to carry fruits, vegetables, and other loose or bulky items while shopping before reaching the checkout area. These bags, which are often plastic, share many of the same physical qualities as single-use plastic carryout bags no longer permitted in California, and are difficult to recycle, reuse or compost.
- G. SB 270 also does not regulate the price of bags provided at the point of sale by restaurants and streets events, including farmers' markets. While the County's Ordinance 2016-02 regulates restaurant carryout bags, it falls short of completely phasing out single-use film bags, and does not impose a meaningful point of sale charges for reusable and paper bags.
- H. The City of Berkeley currently regulates a number of disposable plastic items through the Single-Use Foodware and Litter Reduction Ordinance (Ord. 7639-NS § 1 (part), 2019), but does not currently impose regulations with respect to bags. It is in the public interest to reduce plastic and paper waste in areas not preempted by the State of California.
- I. This Chapter is consistent with the City of Berkeley's 2009 Climate Action Plan, the County of Alameda Integrated Waste Management Plan, as amended, and the CalRecycle recycling and waste disposal regulations contained in Titles 14 and 27 of the California Code of Regulations.

11.62.20 Definitions.

- A. "Carryout Bag" means a bag provided at the check stand, cash register, point of sale or other location for the purpose of transporting food or merchandise out of a Covered Entity. Carryout Bags do not include Produce or Product Bags.
- B. "Covered Entity" means any of the following:

(1) any restaurant, take-out food establishment or other business (including, but not limited to, food sales from vehicles or temporary facilities open to the public) that receives 90% or more of its revenue from the sale of prepared and ready-to-consume foods and/or drinks to the public and is not subject to the requirements of Public Resources Code Section 42281; and

(2) any event, or Person therein, requiring a street event permit pursuant to Berkeley Municipal Code 13.44.040 and not subject to the requirements of Public Resources Code Section 42281.

C. "Customer" means any Person obtaining goods from a Covered Entity or Grocery Store.

"Grocery Store" means a supermarket, grocery store, convenience food store, foodmart, or other entity engaged in the retail sale of goods that include perishable or nonperishable food items;

"Recycled Content Paper Bag" means either a Carryout Bag provided by a covered Entity or a Produce Bag provided by a Grocery Store that contains no old growth fiber and a minimum of one hundred percent (100%) postconsumer recycled material; is one hundred percent (100%) recyclable and compostable, consistent with the timeline and specifications of the American Society of Testing and Materials (ASTM) Standard D6400; and has printed in a highly visible manner on the outside of the bag the words "Recyclable," the name and location of the manufacturer, and the percentage of postconsumer recycled content.

"Reusable Bag" means a bag with handles that is specifically designed and manufactured for multiple reuse and meets all of the following requirements:

(1) has a minimum lifetime of 125 uses, which for purposes of this subsection, means the capability of carrying a minimum of 22 pounds 125 times over a distance of at least 175 feet;

(2) has a minimum volume of 15 liters;

(3) is machine washable or is made from a material that can be cleaned or disinfected;

(4) does not contain lead, cadmium or any other heavy metal in toxic amounts, as defined by applicable state and federal standards and regulations for packaging or reusable bags;

(5) has printed on the bag, or on a tag that is permanently affixed to the bag, the name of the manufacturer, the location (country) where the bag was manufactured, a statement that the bag does not contain lead, cadmium, or any other heavy metal in toxic amounts, and the percentage of postconsumer recycled material used, if any; and

(6) is not primarily made of plastic film, regardless of thickness.

"Person" means an individual, firm, public or private corporation, limited liability company, partnership, industry or any other entity whatsoever.

"Produce Bag" means a bag provided to a customer to carry produce, meats, bulk food, or other food items to the point of sale inside a store and protects food or merchandise from being damaged or contaminated by other food or merchandise.

"Product Bag" are bags that are integral to the packaging of the product; a bag provided to the Customer to hold prescription medication dispensed from a pharmacy; or a bag without handles that is designed to be placed over articles of clothing on a hanger.

11.62.30 Carryout Bag restrictions for Covered Entities.

A. No Covered Entity shall provide or sell a Carryout Bag other than Recycled Content Paper Bags or Reusable Bags at the check stand, cash register, point of sale or

other location to a Customer for the purpose of transporting food or merchandise out of such establishment or event.

B. A Covered Entity may provide or make available for sale to a Customer:

- (1) Recycled Content Paper Bags at no charge;
- (2) Reusable Bags for a minimum price of twenty-five cents (\$0.25).

11.62.040 Produce Bag restrictions for Grocery Stores.

No Grocery Store or Covered Entity shall provide Produce Bags other than Recycled Content Paper Bags and Reusable Bags.

11.62.050 General exemptions

A. Bags exempt from the Chapter include Product Bags, or bags sold in packages containing multiple bags intended for use as garbage, pet waste or yard waste bags.

B. Nothing in this Chapter prohibits customers from using bags of any type that they bring to the establishment themselves or from carrying away merchandise or materials that are not placed in a bag at point of sale, in lieu of using bags provided by the establishment.

11.62.060 Undue hardship exemption.

A. The City Manager, or their designee, may exempt a Covered Entity or Grocery Store from the requirements of this Chapter for a period of up to [x months], upon sufficient evidence by the applicant that the provisions of this Chapter would cause undue hardship. An undue hardship exemption request must be submitted in writing to the City. The phrase "undue hardship" may include, but is not limited to, the following:

- (1) Situations where compliance with the requirements of this Chapter would deprive a person of a legally protected right.

11.62.070 City of Berkeley—purchases prohibited.

The City of Berkeley and any City-sponsored event shall only provide or make available to a Customer Recycled Content Paper Bags or Reusable Bags for the purpose of carrying away goods or other materials from the point of sale or event.

11.62.080 Duties, responsibilities and authority of the City of Berkeley.

The City Manager or their designee shall prescribe, adopt, and enforce rules and regulations relating to the administration and enforcement of this Chapter and is hereby authorized to take any and all actions reasonable and necessary to enforce this Chapter including, but not limited to, inspecting any Covered Entity or Grocery Store's premises to verify compliance.

11.62.090 Liability and enforcement.

A. Anyone violating or failing to comply with any requirement of this Chapter may be subject to an Administrative Citation pursuant to Chapter 1.28 or charged with an infraction as set forth in Chapter 1.20 of the Berkeley Municipal Code; however, no administrative citation may be issued or infraction charged for violation of a requirement of this Chapter until one year after the effective date of such requirement.

- B. Enforcement shall include written notice of noncompliance and a reasonable opportunity to correct or to demonstrate initiation of a request for a waiver or waivers pursuant to Section 11.62.060.
- C. The City Attorney may seek legal, injunctive, or other equitable relief to enforce this Chapter.
- D. The remedies and penalties provided in this section are cumulative and not exclusive.

11.62.100 Severability.

If any word, phrase, sentence, part, section, subsection, or other portion of this Chapter, or any application thereof to any person or circumstance is declared void, unconstitutional, or invalid for any reason, then such word, phrase, sentence, part, section, subsection, or other portion, or the prescribed application thereof, shall be severable, and the remaining provisions of this Chapter, and all applications thereof, not having been declared void, unconstitutional or invalid, shall remain in full force and effect. The City Council hereby declares that it would have passed this title, and each section, subsection, sentence, clause and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases had been declared invalid or unconstitutional.

11.62.110 Construction.

This Chapter is intended to be a proper exercise of the City's police power, to operate only upon its own officers, agents, employees and facilities and other persons acting within its boundaries, and not to regulate inter-city or interstate commerce. It shall be construed in accordance with that intent.

11.62.120 Effective date.

The provisions in this ordinance are effective [], 2022.

Section 2. Copies of this Ordinance shall be posted for two days prior to adoption in the display case located near the walkway in front of the Maudelle Shirek Building, 2134 Martin Luther King Jr. Way. Within 15 days of adoption, copies of this Ordinance shall be filed at each branch of the Berkeley Public Library and the title shall be published in a newspaper of general circulation.



Kate Harrison
Councilmember District 4

ACTION CALENDAR
December 10, 2019

To: Honorable Mayor and Members of the City Council
From: Councilmembers Harrison and Hahn
Subject: Adopt an Ordinance Adding a Chapter 11.62 to the Berkeley Municipal Code to Regulate Plastic Bags at Retail and Food Service Establishments

RECOMMENDATION

Adopt an ordinance adding a Chapter 11.62 to the Berkeley Municipal Code to regulate plastic bags at retail and food service establishments.

BACKGROUND

Californians throw away 123,000 tons of plastic bags each year, and much of it finds its way into regional and international waterways.¹ The situation is only getting worse with 18 billion more pounds of plastic added to the already colossal amount in our seas.² Today, there are 100 million tons of trash in the North Pacific Subtropical Gyre;³ in some parts, plastic outweighs plankton 6 to 1.⁴

Legislative action at the state level has been successful in achieving reductions in plastic bag pollution. According to the 2018 Change the Tide report, restrictions on plastic bags such as that in effect in California have resulted in a “steady drop” in plastic grocery bags found on California beaches. Berkeley has also recently made substantial progress on its restriction of plastic litter in the city through the Single Use Foodware and Litter Reduction ordinance (BMC Chapter 11.64).⁵ The ordinance restricts food providers from offering take-out and dine-in food in single-use disposable ware. These items include “containers, bowls, plates, trays, cartons, boxes, pizza boxes, cups, utensils, straws, lids, sleeves, condiment containers, spill plugs, paper or foil wrappers, liners and any

¹ Environment California, “Keep Plastic Out of the Pacific,”

<https://environmentcalifornia.org/programs/cae/keep-plastic-out-pacific>.

² Division of Boating and Waterways, “The Changing Tide,”

[http://dbw.parks.ca.gov/pages/28702/files/Changing%20Tide%20Summer%202018%20HQ%20\(1\).pdf](http://dbw.parks.ca.gov/pages/28702/files/Changing%20Tide%20Summer%202018%20HQ%20(1).pdf).

³ The North Pacific Gyre, also known as the North Pacific Subtropical Gyre, is a system of ocean currents that covers much of the northern Pacific Ocean. It stretches from California to Japan and contains the Great Pacific Trash Patch, or Pacific trash vortex. National Geographic, “Great Pacific Garbage Patch,” <https://www.nationalgeographic.org/encyclopedia/great-pacific-garbage-patch/>.

⁴ Environment California, “Keep Plastic Out of the Pacific,”

<https://environmentcalifornia.org/programs/cae/keep-plastic-out-pacific>.

⁵ Berkeley Municipal Code, Chapter 11.64 Single Use Foodware and Litter Reduction.

other items used to hold, serve, eat, or drink Prepared Food.”⁶ Notably, plastic bags do not fall within the purview of the Single Use Foodware and Litter Reduction ordinance.

In order to take a further step in protecting the environment and reaching our zero waste goal, Berkeley must consider more aggressive action to close critical loopholes in state law with regard to plastic bags.

California currently prohibits the sale of plastic bags that fall into several categories, based on composition, intended use and business size and type. The statewide Single-Use Carryout Bag Ban prevents the sale of single-use plastic carryout bags in most large grocery stores, retail stores with a pharmacy, convenience stores, food marts, and liquor stores. Affected stores may offer reusable or recycled paper bags to a customer at the point of sale. Despite these restrictions, the law provides for the sale of plastic bags that are more than 2.25 mils thick in these stores, and exempts a number of key commercial establishments such as restaurants, general retailers, farmers markets, and other smaller businesses. State law also fully exempts plastic bags in grocery stores used for carrying produce from the shelf to the check stand.⁷

This proposed ordinance intends to expand the scope of existing regulation to further reduce plastic waste across these exempt categories, avoiding further destruction of the local, regional and global environment.

State Restrictions on Plastic Bags

California’s legislature decided in 2014 to take a step to limit single-use plastic bag waste. Senate Bill 270 mandates that stores of a certain size and type offer only reusable bags at checkout and sets a minimum price of at least \$0.10.⁸ As a result, thin film bags, known as t-shirt bags, are no longer available at larger retail and grocery stores.

The scope of state regulation includes minimum percentage of post-consumer recycled plastics the bag must include and banning plastic bags deemed adequate for only one use. The state defines single-use plastic bags as thin film bags—bags made out of flexible sheets of plastic usually of polyethylene resin. Legislation often distinguishes between single-use film bags and reusable ones based on their thickness, measured in mils—1 thousandth of an inch.

The ban however does not apply to other types of plastic bags deemed reusable or to smaller retailers and restaurants. Many plastic film bags, in particular, are still permitted under SB 270. They are permitted for sale as long as: the bags contain more than 20%

⁶ Berkeley Municipal Code Section 11.64.020D.

⁷ Ban on Single-Use Carryout Bags (SB 270 / Proposition 67) Frequently Asked Questions, Office of the Attorney General and CalRecycle, April 2017, <https://www.calrecycle.ca.gov/Plastics/CarryOutBags/FAQ/>.

⁸ California Legislature, Senate Bill 270,
https://leginfo.ca.gov/faces/billTextClient.xhtml?bill_id=201320140SB270

post-consumer recycled material⁹; are recyclable in the state of California; are properly labeled as containing post-consumer recycled material; can carry over 22lb for a minimum of 175ft for at least 125 uses; and are at least 2.25 mils thick.

Despite the assumption of reusability, there is limited evidence to suggest that plastic bags are being repurposed to the degree accounted for by SB 270. Some studies suggest that fewer than 1% of people actually reuse the thicker and thus technically-reusable film bags.¹⁰ This erroneous legislative assumption can be addressed at the local level.

Aside from SB 270, the only other legislation governing plastic bag usage in Berkeley is an Alameda County ordinance implementing SB 270 and local ordinances regulating the type of plastic allowed in food packaging.¹¹ By not addressing plastic produce bags and defining reusable bags as any film bag exceeding 2.25 mils, current regional and local law shares many of the shortcomings of state legislation.¹²¹³

Local Restrictions on Plastic Bags

Contested but upheld in a 2016 ballot measure,¹⁴ SB 270 set a statewide code that has been built upon by numerous local governments, including many in the Bay Area.

Palo Alto is one of the most recent cities to amend its municipal code and take the extra step in limiting the distribution of film bags. By splitting plastic bags into three categories by use—produce bags, checkout bags, and product bags—the city is able to differentiate regulation for each purpose. Its ordinance¹⁵ bans grocery stores and farmers markets from packaging food in film bags, requiring instead the use of compostable plastics. For checkout, Palo Alto mandates that all stores only offer their customers recycled paper bags or reusable bags, a term it defines in accordance with California law as a bag thicker than 2.25 mils.

⁹ [In 2020, the percentage required will increase to 40% post-consumer recycled material.](#)

¹⁰ Save Our Shores, “Help Ban Plastic Bags,” <https://saveourshores.org/help-ban-plastic-bags/>

¹¹ Alameda County Waste Management Authority, “Ordinance Regulating the use of carryout bags and promoting the use of reusable bags,” <http://reusablebagsac.org/acwma-ordinance-2012-2-amended-ordinance-2016-2>.

¹² Berkeley Municipal Code Chapter 11.58 Prohibition of Chlorofluorocarbon-Processed Food Packaging, <https://www.codepublishing.com/CA/Berkeley/cgi/NewSmartCompile.pl?path=Berkeley11/Berkeley1158/Berkeley1158.html>.

¹³ Berkeley Municipal Code Chapter 11.60 Polystyrene Foam, Degradable and Recyclable Food Packaging, <https://www.codepublishing.com/CA/Berkeley/cgi/NewSmartCompile.pl?path=Berkeley11/Berkeley1160/Berkeley1160.html>.

¹⁴ Ballotpedia, “California Proposition 67, Plastic Bag Ban Veto Referendum (2016),” [https://ballotpedia.org/California_Proposition_67,_Plastic_Bag_Ban_Veto_Referendum_\(2016\)](https://ballotpedia.org/California_Proposition_67,_Plastic_Bag_Ban_Veto_Referendum_(2016))

¹⁵ Palo Alto Municipal Code, “Chapter 5.35 Retail and Food Service Establishment Checkout Bag Requirements,” <https://www.cityofpaloalto.org/civicax/filebank/documents/63550>.

San Francisco has similar provisions.¹⁶ It decided in July 2019¹⁷ to both increase the amount of money charged for checkout bags from \$0.10 to \$0.25 and ban what it calls “pre-checkout bags”—defined as a “bag provided to a customer before the customer reaches the point of sale,” nearly identical in definition to Palo Alto’s produce bag language. San Francisco drew inspiration from Monterey, Pacifica, Santa Cruz and Los Altos, all of which charge more than SB270 requires for plastic bags.¹⁸ The ordinance also specifically referenced an Irish law, which increased the price of plastic checkout bags from 15 cents to 22 cents, reducing plastic checkout usage by more than 95 percent, as precedent.¹⁹

Yet there are some cities that have gone even farther in their restriction of single-use plastics. Although Capitola does not ban produce/pre-checkout bags, it notably redefined the thickness of a reusable bag as equal or exceeding 4 mils, instead of 2.25 mils.²⁰ This means that any carryout bag provided by a retailer in the city is more durable than those considered multi-use by the state of California.

New York State recently introduced a plastic bag reduction ordinance that provides a number of precedents for a potential Berkeley ordinance. It bans “the provision of plastic carryout bags at any point of sale.”²¹ It exempts compostable bag and *non*-film plastic bags and does away with any distinction between reusable and non-reusable film bags based on their thickness. Where the New York ban falls short is in its regulation of non-checkout bags: bags for produce, meat, newspapers, take-out food and garments remain legal.

Given the progress many cities and states have made in regulating plastic bags, Berkeley has many examples to emulate.

Past Efforts in Berkeley

¹⁶ San Francisco Municipal Code Chapter 17: Plastic Bag Reduction Ordinance, [http://library.amlegal.com/nxt/gateway.dll/California/environment/chapter17plasticbagreductionordinance?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:sanfrancisco_ca](http://library.amlegal.com/nxt/gateway.dll/California/environment/chapter17plasticbagreductionordinance?f=templates$fn=default.htm$3.0$vid=amlegal:sanfrancisco_ca).

¹⁷ San Francisco Municipal Code, “Ordinance amending the Environment Code,” <https://sfbos.org/sites/default/files/o0172-19.pdf>.

¹⁸ Isabela Agnus, “San Francisco bumps bag fee up to 25 cents,” <https://www.sfgate.com/news/article/SF-bumps-bag-fee-25-cents-plastic-produce-ban-14102908.php>.

¹⁹ Republic of Ireland Department of Communications, Climate Action & Environment, “Plastic Bags,” <https://www.dccae.gov.ie/en-ie/environment/topics/waste/litter/plastic-bags/Pages/default.aspx>.

²⁰ Capitola Municipal Code Chapter 8.07: Single-use Plastic and Paper Carryout Bag Reduction, <https://www.codepublishing.com/CA/Capitola/#!/Capitola08/Capitola0807.html#8.07>.

²¹ New York State Governor’s Office, “An act to amend the environmental conservation law, in relation to prohibiting plastic carryout bags,” <https://www.governor.ny.gov/sites/governor.ny.gov/files/atoms/files/PlasticBagBan.pdf>.

Berkeley attempted to pass its own plastic bag ban in 2010.²² In the years following councilmembers have pushed for reform, calling for an ordinance to improve upon county and state legislation.²³ Yet the threat of lawsuits²⁴ and movement on the state and county level appear to have delayed local reform.

The Proposed Ordinance

This proposed ordinance picks up where prior attempts failed, bringing Berkeley on par with many of its neighbors in tightening restrictions on plastic bag sales. On some points, this ordinance ensures that the City again becomes a leader in environmental regulation. The following details the key changes that close loopholes in state and local law:

- Plastic bag regulations would now apply to a number of retail service establishments previously omitted from the state ban. Restaurants and food vendors would no longer be able to distribute single-use plastic carryout bags. Grocery stores and other retailers selling prepared food would be required to move away from single-use plastic produce bags.
- Retail service establishments of all sizes would be included, closing exemptions for smaller stores.
- Reusable plastic bags would be redefined as non-film plastic bags, adjusting the criteria to more accurately reflect common perceptions of reusability and the tendency for consumers treat all film bags as disposable, regardless of thickness.
- The price per non-plastic bag increases from \$0.10 to \$.25, to avoid a substitution effect.

The most common concern in reducing plastic bag waste is that the alternatives are even less sustainable. Substituting paper bags for plastic could be equally, if not more, hazardous for the environment because of the energy, transport and disposal processes required.²⁵ Cloth bags are also imperfect options, because of the large amount of energy and water necessary to produce them.²⁶ The California ban on bags thinner than 2.25

²² Berkeley City Council, "Berkeley Bag Reduction Ordinance," https://www.cityofberkeley.info/uploadedFiles/Public_Works/Level_3_-_Solid_Waste/BagReductionDraftOrdinance.100316.pdf.

²³ Kriss Worthington, "Adopt Expanded Single Use Plastic Bag Ban/Paper Bag Fee Ordinance," https://www.cityofberkeley.info/uploadedFiles/Clerk/Level_3_-_City_Council/2012/01Jan/2012-01-31_Item_25_Adopt_Expanded_Single_Use_Plastic_Bag.pdf.

²⁴ Doug Oakley, "Berkeley's plan for plastic bag ban part of larger movement," <https://www.mercurynews.com/2009/12/23/berkeleys-plan-for-plastic-bag-ban-part-of-larger-movement/>.

²⁵ The Environmental Literacy Council, "Paper or Plastic?" <https://enviroliteracy.org/environment-society/life-cycle-analysis/paper-or-plastic/>.

²⁶ Patrick Barkham, "Paper bags or plastic bags: which are best?" <https://www.theguardian.com/environment/shortcuts/2011/dec/20/paper-plastic-bags-which-best>.

mils may also have resulted in a substitution toward thicker and less sustainable film bags.²⁷ Moreover, international studies confirm that even single-use bags are reused to a limited degree for other household functions, such as garbage disposal or to pick up dog feces.²⁸ A University of Sydney economist found that garbage bag consumption increased when California placed restrictions on single-use plastic bags, likely because consumers no longer had as many free single-use film bags at hand in which to dispose their waste. Yet that same study also concluded that the benefits of the ban were still significant: Californians consumed 28 million pounds fewer plastic than they did before.²⁹

Still, eliminating plastic bags cannot be the only approach to combat the cycle of consumer waste. It must come, as this ordinance would ensure, in combination with higher prices and greater requirements for the percentage of recycled content in paper bags. Any paper bags sold in Berkeley must per this resolution contain no old growth fiber, be 100% recyclable overall and contain a minimum of 40% post-consumer recycled content.

Data from Alameda County as a whole seems to indicate that when the cost of single-use paper bags was set at \$0.10, consumption *decreased* by approximately 40% within three years.³⁰ The same report revealed that “plastic bags found in storm drains decreased by 44 percent, indicating that the ordinance has been successful in reducing single use plastic bag litter.” Further price increases have been shown to realize even larger benefits.

FISCAL IMPLICATIONS

Staff or contractor costs for the launch, for outreach and education, enforcement, administration and analysis.

ENVIRONMENTAL SUSTAINABILITY

Reducing the amount of discarded plastic bags—previously classified as multi-use—in the city of Berkeley will result in less over all waste and fewer plastic that makes it into local and regional waterways.

²⁷ Christian Britschgi, “California Plastic Bag Bans Spur 120 Percent Increase in Sales of Thicker Plastic Garbage Bags,” <https://reason.com/2019/04/11/california-plastic-bag-bans-spur-120-per/>.

²⁸ NPR Planet Money, “Are Plastic Bag Bans Garbage?” <https://www.npr.org/sections/money/2019/04/09/711181385/are-plastic-bag-bans-garbage>.

²⁹ Rebecca L.C. Taylor, “Bag leakage: The effect of disposable carryout bag regulations on unregulated bags,” <https://www.sciencedirect.com/science/article/pii/S0095069618305291>.

³⁰ Alameda County Waste Management Authority, “Addendum to the Final Environmental Impact Report Mandatory Recycling and Single Use Bag Reduction Ordinances,” <http://reusablebagsac.org/resources/addendum-final-environmental-impact-report-2016>.

Furthermore, a switch toward bags made from polyester or plastics like polypropylene, which are more sustainable than film bags and sold at many grocery stores will lead to greater environmental sustainability.³¹

CONTACT PERSON

Councilmember Kate Harrison, Council District 4, (510) 981-7140

³¹ Claire Thompson, "Paper, Plastic or Reusable?" https://stanfordmag.org/contents/paper-plastic-or-reusable?utm_source=npr_newsletter&utm_medium=email&utm_content=20190408&utm_campaign=money&utm_term=nprnews.



Kate Harrison
Councilmember District 4

ACTION CALENDAR
November 30, 2021

To: Honorable Mayor and Members of the City Council
From: Councilmember Harrison
Subject: Adopt an Ordinance Adding a New Chapter 12.01 to the Berkeley Municipal Code Establishing Emergency Greenhouse Gas Limits, Process for Updated Climate Action Plan, Monitoring, Evaluation, Reporting and Regional Collaboration

RECOMMENDATION

1. Adopt an ordinance adding a new Chapter 12.01 to the Berkeley Municipal Code (BMC) establishing Emergency Greenhouse Gas Limits with an effective date of [redacted], 2022.
2. Refer to the FY23-24 Budget Process \$[redacted] consistent with implementing the requirements of Sections 12.01.040, 12.01.050, 12.01.060.

CURRENT SITUATION, EFFECTS, AND RATIONALE FOR RECOMMENDATION

Scientific evidence indicates that between the industrial period of 1850 and 2021, economic systems, namely state and free-market forms of capital accumulation and economic growth have increased global atmospheric carbon dioxide levels to a staggering 418 parts per million (ppm), beyond the established planetary boundary of 350 ppm, and warmed global average temperature by approximately 1.1 degrees Celsius. Available scientific evidence indicates there is no 'safe' level of warming beyond 350 ppm, only gradations of risk with respect to habitability.

Berkeley is already experiencing unprecedented negative effects of warming associated with 1 degree of warming, and current global growth trends and policies could push humanity past 1.5 degrees by mid-century, leading to a devastating 2-4 degrees by the end of the century. The 'Global North,' which includes Berkeley, has far exceeded its fair share of the emissions comprising and exceeding the boundary, and must reduce its emissions rapidly and justly.

The City of Berkeley has engaged with the issue of global warming for at least three decades and has unquestionably been a leader in certain climate actions. Yet, in light of the current gravity of the climate emergency, current strategies and targets are not adequate. Exceptionally risky “mitigation” strategies, namely midcentury ‘net-zero’ pledges have provided for unbridled economic and emissions growth and thus severely dwindled carbon budgets, effectively rendering Berkeley’s gradual reduction goals: 80% by 2050 (Measure G, 2005 and Resolution 64,480-N.S., 2009) and net-zero by 2045 (Resolution 69,852–N.S., 2021), untenable. The majority of risk associated with each additional ton of greenhouse gas emitted will be borne by generations who will have not consented to current reduction goals and strategies. Current policies could exacerbate or lead to exceedingly dangerous new tipping points.

This item is timely in light of ongoing reports that national “pledges” under Paris Agreement could lead to at least 3 degrees of catastrophic warming, the inability for Congress to pass meaningful domestic and international climate policies and legislation, and the failure of world leaders to reach an effective and substantive agreement at the 26th UN Climate Change Conference of the Parties (COP26) in Glasgow.

BACKGROUND

The ordinance establishes emergency greenhouse gas limits aimed at reducing sector-based greenhouse gas emissions 90% below 2000 levels and consumption-based emissions 90% below 2013 levels by 2030. These limits would bring Berkeley closer to its global ‘fair share’ and science-based reduction obligations, and could help achieve reductions at scale as part of a program of regional coordination and collaboration.

While such targets are ambitious, mitigating and minimizing global warming risk and maximizing adaptation, resilience and adherence to planetary boundaries earlier in the century rather than later will likely result in less disruption to society over the long term, and will generate opportunities for more inclusive and sound democratic decision making as compared to waiting until atmospheric carbon levels reach increasingly catastrophic levels.

These limits are consistent with the City’s 2006 “precautionary principle” established by BMC 12.29, and which states:

“The purpose of this chapter is to promote the health, safety, and general welfare of the community by minimizing health risks, improving air quality, protecting the quality of ground and surface water, minimizing consumption of resources, and minimizing the City’s contribution to global climate change by implementing in a phased manner, as provided in this chapter, the City’s use of a precautionary principle approach in its decisions.”

As enacted by Council, BMC 12.29 requires the City to apply the following precautionary principle tenets in the course of action and decision-making:

1. Anticipatory Action: Anticipatory action may prevent harm. Government, business, community groups, and the public share this responsibility.

2. Right to Know: The community has a right to know complete and accurate information on potential health and environmental impacts associated with the selection of products, services, operations or plans.
3. Alternatives Assessment: Examine a full range of alternatives and select the alternative with the least potential impact on health and the environment including the alternative of doing nothing.
4. Consideration of Significant Costs: Consider significant short-term and long-term costs in comparing product alternatives, when feasible. This includes evaluation of significant costs expected during the lifetime of a product, (e.g. raw materials, manufacturing and production, transportation, use, clean-up, acquisition, extended warranties, operation, supplies, maintenance, disposal costs, long and short-term environmental and health impacts); and that expected lifetime compared to other alternatives.
5. Participatory Decision Process: Decisions applying the Precautionary Principle should be transparent, participatory by including community input, and informed by the best available information.

The ordinance requires the City to develop a new Climate Action Plan and consistent with these GHG limits and precautionary principle tenets, and to establish relevant legislative and budgetary timelines to help the City reach its objectives.

In addition, the ordinance requires the City to consider post-growth climate mitigation strategies and policies as potential alternatives to the growth and market-based and other policies that created the crisis and remain a persistent obstacle to meaningful action. The City's policies and programs *must not* aim to merely increase economic growth for growth's sake, but rather to support the provision of basic human needs and happiness.

It also provides an institutional framework to build solidarity with neighboring Bay Area communities and jurisdictions to achieve collective limits that could change rate of global warming while simultaneously providing sister cities in other countries precious time to improve living standards and pursue decarbonization.

ENVIRONMENTAL SUSTAINABILITY

This item is consistent with the latest climate science and the precautionary principle established by BMC 12.29.

ATTACHMENTS

1. Proposed Ordinance adding a new Chapter 12.01.

FINANCIAL IMPLICATIONS

Staff time will be necessary to implement the new ordinance. This item refers \$[] to the FY23-24 Budget Process consistent with implementing the requirements of Sections 12.01.040, 12.01.050, 12.01.060.

CONTACT PERSON

Councilmember Kate Harrison, Council District 4, (510) 981-7140

ORDINANCE NO. –N.S.

ADDING CHAPTER 12.01 TO THE BERKELEY MUNICIPAL CODE TO ESTABLISH
EMERGENCY GREENHOUSE GAS EMISSIONS LIMITS

BE IT ORDAINED by the Council of the City of Berkeley as follows:

Section 1. That Chapter 12.01 of the Berkeley Municipal Code is added to read as follows:

Chapter 12.01

EMERGENCY GREENHOUSE GAS EMISSIONS LIMITS

Sections:

12.01.010 Findings and purpose.

12.01.020 Definitions.

12.01.030 Greenhouse Gas Emissions Limits.

12.01.040 Climate Action Plan.

12.01.050 Monitoring, Evaluation, And Reporting.

12.01.060 Regional Collaboration.

12.01.070 Severability.

12.01.080 Construction.

12.01.090 Effective date.

12.01.010 Findings and purpose.

The Council of the City of Berkeley finds and declares as follows:

- A. Available scientific evidence indicates that between the industrial period of 1850 and 2021 economic systems, namely state and free-market forms of capital accumulation and economic growth, have increased global atmospheric carbon dioxide levels to a staggering 418 parts per million (ppm) beyond the established planetary boundary of 350 ppm, and warmed global average temperature by approximately 1.1 degrees Celsius. The 'Global North,' which includes Berkeley, has far exceeded its fair share the emissions comprising and exceeding the boundary, and must reduce its emissions rapidly and equitably.
- B. Available scientific evidence indicates there is no 'safe' level of warming beyond 350 ppm, only gradations of risk with respect to habitability. Berkeley, California, the United States, and the world is already experiencing unprecedented negative effects of warming associated with 1 degree of warming, and current global growth trends and policies will push humanity past 1.5 degrees as early as the 2030s and 3 to 4 degrees by the end of the century. Global warming between 1.5 to 2 degrees Celsius is expected to further accelerate existential risks to health and safety including but not limited to, extreme weather, mass extinction, water and food shortages, violent conflict, fire, forced migration, economic collapse, disease, heat stress, and sea level rise. The majority of risk associated with each additional ton of greenhouse gas emitted will be borne by generations who will have not consented to current reduction strategies.
- C. In the twenty-first century, Berkeley, California, and the United States have largely and irresponsibly relied on ineffective market-based mechanisms, unrealistic expectations of absolutely decoupling GDP growth from energy use, speculative mass deployment of negative emission reduction technologies and 'net-zero' practices to offset continued fossil fuel production and consumption, and underappreciation of irreversible tipping points, aerosol masking, and non-carbon greenhouse gasses. In light of the current gravity of the climate emergency, these strategies have unequivocally failed; between Measure G and 2018, each jurisdiction only reduced greenhouse gasses by a respective 10%, 12%, and 26%, while at the same time globally, nearly a third of all anthropogenic carbon dioxide was emitted. Exceptionally risky strategies pursued by the Global North, namely midcentury 'net-zero' pledges have provided for unbridled economic and emissions growth and thus severely dwindled carbon budgets, effectively rendering Berkeley's gradual reduction goals: 80% by 2050 (Measure G, 2005 and Resolution 64,480-N.S., 2009) and net-zero by 2045 (Resolution 69,852-N.S., 2021), untenable.
- D. It is the intent of the Council to adopt stringent and equitable science-based greenhouse gas emissions limits and related action plans and reports, consistent with the precautionary principle approach established by Chapter 12.29, for the purpose of achieving the rapid, far-reaching, unprecedented and just changes in all aspects of society associated with mitigating and minimizing global warming risk and maximizing adaptation, resilience and adherence to planetary boundaries.
- E. The Council further intends to endeavor to build solidarity with neighboring communities and jurisdictions to achieve collective limits that could change rate of global warming while simultaneously providing sister cities in other countries precious time to improve living standards and pursue decarbonization.

12.01.020 Definitions.

A. "Climate Action Plan" means the document required under Section 12.01 outlining the specific actions the City will endeavor to take to reduce Greenhouse gas emissions and to mitigation, resilience and adaptation efforts with respect to climate impacts.

B. "Consumption-Based Greenhouse Gas Emissions" means all the Greenhouse Gas emissions associated with producing, transporting, using, and disposing of products and services consumed by a particular community or entity in a given time period, including emissions generated outside the boundaries of the community or the geographic area where the entity is located.

C. "Greenhouse Gas" means any and all of the following gases: carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride.

D. "Sector-Based Greenhouse Gas Emissions" means all of the Greenhouse Gas emissions generated within the geographic boundaries of the City in a given time period.

E. "Responsible Production and Consumption" means improving how materials and products are extracted, manufactured, delivered, acquired, used, reused, recycled, and disposed of to ensure that the production and consumption of materials and products promote basic human needs, are distributed in a socially equitable manner, and carried out in a way that minimizes environmental impacts over the lifecycle of those materials and products while matching the carrying capacity of the earth's resources and adding value so as not to jeopardize present and future generations. "Lifecycle" means the complete material life of a product, good, or service, including resource extraction, manufacture, assembly, construction, maintenance, transportation, operations or use, and end of life (reuse, recycling/composting, and disposal). "Carrying capacity" means the number or amount of people, plants, and other living organisms that an ecosystem can support indefinitely without causing environmental degradation.

F. "Post-Growth Emissions Mitigation" means Greenhouse Gas mitigation strategies and policies that acknowledge and support the following:

- (1) rapid emissions reductions may not be compatible with economic policies that support limitless growth, especially growth in the production and consumption of commodities that do not support basic human needs,
- (2) in jurisdictions with high aggregate wealth there may be a disassociation between additional capital accumulation, economic growth, and GDP, and key social outcomes, to include but not limited to, health, social wellbeing, happiness and equity,
- (3) fairer distribution of income and wealth, and guaranteed access to universal public services.

12.01.030 Emergency Greenhouse Gas Emissions Limits.

A. The following Greenhouse Gas emissions limits are hereby established:

- (1) By 2030, reduce Sector-Based Greenhouse Gas Emissions [90%] below 2000 levels.
- (2) By 2030, reduce Consumption-Based Greenhouse Gas Emissions to [5] mtCO₂e per household or less, equivalent to a [90%] reduction compared to 2013 levels.
- (3) By 2026, the Council shall determine an appropriate deadline for achieving 100% zero emissions across both Sector and Consumption-Based inventories.

12.01.040 Climate Action Plan.

A. By [], 2022, the City Manager or designee shall prepare and submit for relevant Council policy committee and Council approval a Climate Action Plan (CAP) which shall

do all of the following:

- (1) Align with the emissions limits established in Section 12.01.030.
 - (2) Consider equitable Post-growth Climate Mitigation strategies and policies.
 - (3) Incorporate an equity framework that addresses historic racial, class-based, and social inequalities; prioritizes social, economic, and environmental benefits derived from implementing the CAP; and ensures an equitable distribution of those benefits. This framework shall consider:
 - (a) The engagement and prioritization of those who are most impacted by climate change and have historically had the least influence in decision-making processes, including low-income communities of color, communities with disabilities, and other impacted populations;
 - (b) Burdens and/or unintended consequences of related actions, especially for low-income communities of color, communities with disabilities, and other vulnerable populations; and
 - (c) Social interventions needed to secure workers' rights and livelihoods when economies are shifting to responsible production and consumption, collectively referred to as a "just transition" framework, and other impacts on workforce and job opportunities.
 - (4) Include, but not be limited to, the following elements: energy supply; transportation and land use; building operations; housing; Responsible Production and Consumption; carbon sequestration and water conservation.
 - (5) Identify strategies and/or make recommendations to achieve emissions limits for all elements. The CAP shall recommend approaches on goals and principles. Each strategy or recommendation shall:
 - (a) Identify parties responsible for implementation;
 - (b) Incorporate an estimated cost; and
 - (c) Incorporate estimated legislative and budgetary timelines based consistent with Section 12.01.030; and
 - (d) Contain key performance indicators and explicit equity metrics to measure progress.
- B. The City Manager or their designee shall update the Climate Action Plan at least every two years.

12.01.050 Monitoring, Evaluation, And Reporting.

- A. The City shall demonstrate its long-term commitment to reducing Greenhouse Gas emissions and advancing racial and social equity by measuring and reporting emissions, tracking key performance indicators and equity metrics, and monitoring the City's progress on meeting its climate action goals and commitments.
- B. The City Manager or their designee shall, with the assistance from relevant City agencies:
 - (1) Measure and monitor Sector-Based Greenhouse Gas Emissions, including municipal emissions, using best available global protocols for preparing Citywide Greenhouse Gas emission inventories.
 - (2) Measure production and consumption emissions using best available global methodologies for preparing consumption-based emission inventories.
 - (3) Evaluate Sector-Based Greenhouse Gas Emissions against set limits, document production and consumption emissions, and produce an annual Greenhouse Gas emissions report.
 - (4) Establish a monitoring and reporting process for the implementation of the CAP that:
 - (a) Tracks key performance indicators and equity metrics for strategies to help

monitor their progress and implementation;

(5) Request and receive data from City departments to support:

(a) The annual Greenhouse Gas emissions inventory. City departments may be asked to provide data on, but not limited to, the following: their energy use; types of fuels used for their operations; fuel volume; vehicle-miles travelled (if applicable) within their jurisdictions; and private sector Greenhouse Gas emission sources regulated by the department. Departments may also be requested to verify emission estimates and assumptions and review resulting reports;

(b) Monitoring and reporting of Climate Action Plan implementation. City departments may be asked to provide data on key performance indicators and equity metrics related to adopted strategies and actions; and

(6) Coordinate with other City agencies to monitor, track, and report on climate action progress to local, state, national, and global partners.

(7) Report its findings in a progress report to the Council and public every year.

(8) Report on at least a biannual basis to relevant Council policy committees and commissions to support policy and budget development consistent with reduction limits established in Section 12.01.030.

12.01.060 Regional Collaboration.

The Council and City staff, working alongside the public, shall endeavor to build solidarity and coalitions with neighboring communities, jurisdictions, and agencies to achieve equitable collective Greenhouse Gas limits and observe planetary boundaries.

11.63.070 Severability.

If any word, phrase, sentence, part, section, subsection, or other portion of this Chapter, or any application thereof to any person or circumstance is declared void, unconstitutional, or invalid for any reason, then such word, phrase, sentence, part, section, subsection, or other portion, or the prescribed application thereof, shall be severable, and the remaining provisions of this Chapter, and all applications thereof, not having been declared void, unconstitutional or invalid, shall remain in full force and effect. The City Council hereby declares that it would have passed this title, and each section, subsection, sentence, clause and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases had been declared invalid or unconstitutional.

12.01.080 Construction.

This Chapter is intended to be a proper exercise of the City's police power, to operate only upon its own officers, agents, employees and facilities and other persons acting within its boundaries, and not to regulate inter-city or interstate commerce. It shall be construed in accordance with that intent.

12.01.090 Effective date.

The provisions in this ordinance are effective [], 2022.

Section 2. Copies of this Ordinance shall be posted for two days prior to adoption in the display case located near the walkway in front of the Maudelle Shirek Building, 2134 Martin Luther King Jr. Way. Within 15 days of adoption, copies of this Ordinance shall be

filed at each branch of the Berkeley Public Library and the title shall be published in a newspaper of general circulation.



Kate Harrison
Councilmember District 4

CONSENT CALENDAR
March 9, 2021

To: Honorable Mayor and Members of the City Council

From: Councilmembers Harrison

Subject: Refer to the City Manager to Prioritize Establishment of Impact/Mitigation Fees to Address Disproportionate Private and Public Utility Impact to the Public Right of Way

RECOMMENDATION

In order to ensure equitable support of the public right of way by private and public entities that use City facilities, refer to the City Manager and City Attorney to prioritize the following in consultation with the Facilities, Infrastructure, Transportation, Environment, & Sustainability Committee:

1. establish impact and/or mitigation fees to address disproportionate private impacts to the public right of way, such as our roads and utility poles; and
2. establish transfers between sewer, waste, or other utilities as appropriate to address impacts to the public right of way.

BACKGROUND

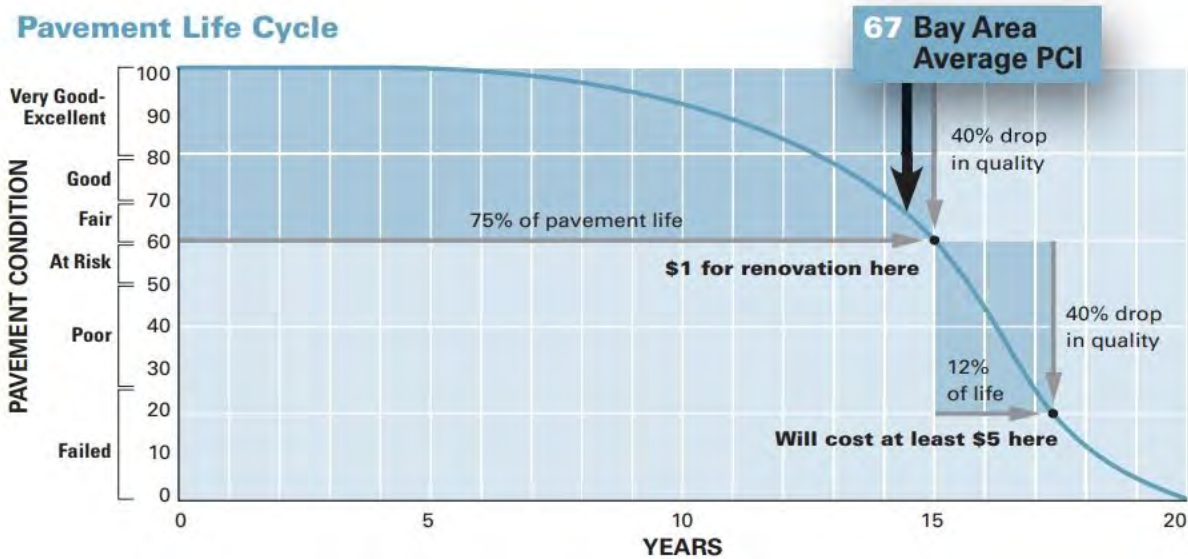
A Metropolitan Transportation Commission report warns that Berkeley's overall paving condition is "At Risk," meaning on the cusp of falling into "Failing" category.¹ The current five-year paving plan is the result of historic deferred maintenance and an underfunded, imperfect and complex balance between arterial, collector and residential streets distributed across Council districts. The City's bicycle, pedestrian and Vision Zero projects are severely underfunded. Meanwhile, neighboring cities in the Bay Area, such as Richmond, El Cerrito, San Francisco have "Excellent/Very Good" to "Fair/Good" streets conditions.

Critically, maintenance of the public right of way has been underfunded due to (1) historic lack of impact/mitigation fees levied against private corporations who

¹ "The Pothole Report: Bay Area Roads At Risk," Bay Area Metropolitan Transportation Commission, September 2018, https://mtc.ca.gov/sites/default/files/Pothole%20Report%20III_September%202018.pdf

disproportionally cause negative impacts to Berkeley’s streets and (2) an absence of transfers from public utility ratepayers to the Berkeley Public Works Department to mitigate utility-related damage to the right of way. The public right of way is key part of the City’s “commons,” a public resource that is available to all community members and to be managed for the collective benefit. As learned during recent FITES hearings, it appears that certain private actor and public utilities have not been paying their fair share to address their disproportionate impact on the condition of Berkeley’s right of way.

The Public Works Department has advised that ongoing funding under the rolling 5-Year Street Plan will not be enough to stabilize Berkeley’s streets. In fact, if street investment is not increased, Public Works warns that the City could face \$1 billion in future repair costs as the cost of deferred paving maintenance increases exponentially each year.



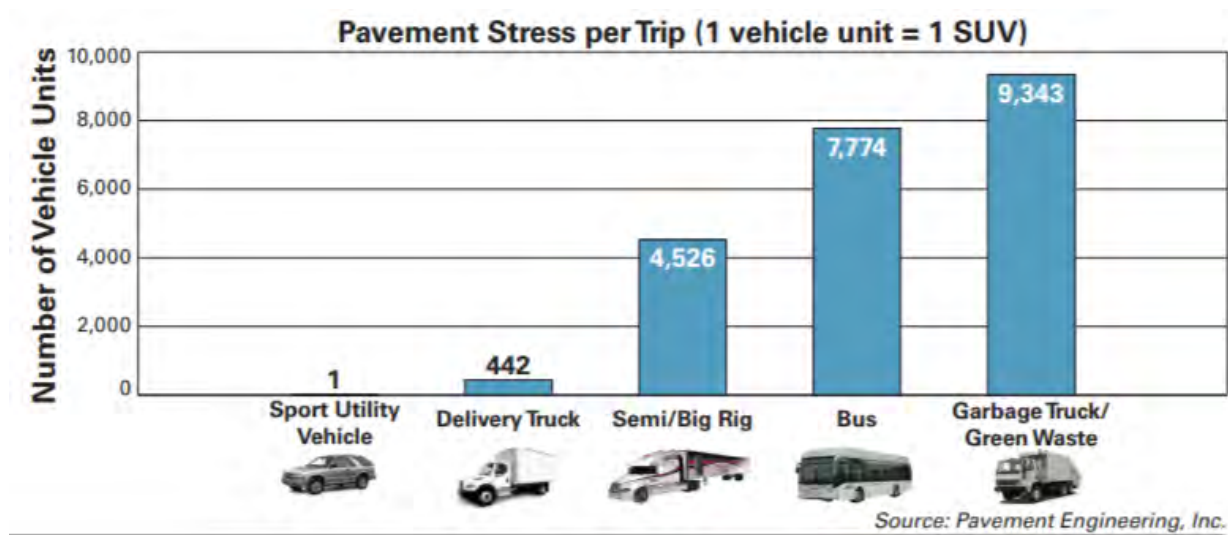
Since January 2020, the Facilities, Infrastructure, Transportation, Environment, & Sustainability (FITES) Committee has been working with the Public Works Department and Public Works Commission to explore funding opportunities to enhance the Paving Condition Index (PCI) of Berkeley’s streets. In addition, it has been reviewing the City’s Paving Policy, which was last updated in 2009, and has been working to develop a Paving Master Plan.

To stabilize street conditions, the City will likely need to pursue a combination of investment strategies ranging from increasing General Fund allocations, initiating

transfers from waste, sewer and other utility accounts, initiating impact/mitigation fees in response to heavy private vehicle use and potentially issuing bonds. However, before going to the voters for new bonds, who already pay significant sales, property and other taxes, which contribute to paving maintenance, it is critical that the Council exhaust all equitable alternatives, including leveraging the proceeds of new fees and transfers from private corporations and public utilities who contribute disproportionately to the deterioration of Berkeley’s streets and greenhouse gas emissions.

The current 2009 Paving Plan, which is being revised by the Public Works Commission, Public Works Department and the FITES Committee, explicitly specifies that “fees [may be] assessed to mitigate for excessive deterioration on and wear and tear of streets resulting from construction activities, public or private, shall be used for street rehabilitation.”² However, the FITES Committee has not been able to identify historical evidence of such fee being levied upon private users for such excessive deterioration.

During hearings on the paving policy, the FITES Committee has learned that large private vehicles such as delivery trucks, big rigs, private buses and construction vehicles contributed heavily to excessive deterioration. The same is true for vehicles acting on behalf of public utilities, such as AC Transit, the City’s Sanitary Sewer Program, Recology waste services, and gas, electric and telecommunications utilities.



² “City of Berkeley Street Rehabilitation and Repair Policy,” Public Works Department, March 2009, https://www.cityofberkeley.info/Public_Works/Sidewalks-Streets-Utility/Street_Rehabilitation_and_Repair_Policy_updated_March_2009.aspx

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Public Works staff indicate that transfers could bring in approximately \$1 million per year in additional paving funding, but more research will need to be done to calculate potential revenue from impact fees.

It is in the public interest to ensure an equitable and rapid as possible assessment of such private and public actors for the purpose of providing supplemental funding to Berkeley's Street Repair Program.

FINANCIAL IMPLICATIONS

The item would require staff time to develop potential fees and transfers, however it could potentially offset and supplemental millions of dollars in existing City paving funding.

ENVIRONMENTAL SUSTAINABILITY

Supporting low-carbon asphalt alternatives and building bicycle and alternative mobility infrastructure will compliment and accelerate Berkeley's ongoing efforts to reduce carbon emissions at an emergency and equitable pace in line with the Climate Action Plan and Climate Emergency Declaration.

CONTACT PERSON

Councilmember Kate Harrison, Council District 4, 510-981-7140