

Bay-Friendly Rated Version 4

SUMMARY OF CHANGES

Introduction

The Bay-Friendly Rated Scorecard was first introduced in 2004 to accelerate the shift to high performance landscape design practices in the San Francisco Bay Area. Over the years, there have been three versions of the Scorecard and one version of the Rating Manual.

Version 4 represents the first complete update to the rating system's Scorecard and Rating Manual. These improvements reflect the collective experiences of dozens of Bay-Friendly Raters and other landscape professionals who have worked on a wide range of Bay-Friendly Rated projects, from streetscape improvements to public parks, college campuses and multifamily properties.

Raters and project teams can use this Summary of Changes to familiarize themselves with the changes to the Scorecard. However, when applying the rating system to specific projects, *always consult the current Scorecard and Rating Manual rather than relying on this summary.*

To continue to raise the bar for high performance design, the rating system has been updated to:

- **Align with and exceed code.** The revised Scorecard aligns with current codes and encourages project teams to exceed minimum code requirements. Credit D.6, for example, requires projects to meet or exceed local requirements for construction and demolition waste diversion from landfills. Credit F.6 aligns with the 2015 Model Water Efficient Landscape Ordinance (WELO) water budget requirements. Credits in the Stormwater and Site Drainage section align with the Municipal Regional Stormwater Permit, while awarding additional points for projects that exceed the code requirements for treating roadway runoff and infiltrating water.
- **Remain at the forefront of key environmental issues.** The rating system promotes practices that protect the environment and critical ecosystem services. For example, a new credit awards points for the use of plant material that is free of neonicotinoid pesticides. Some nursery plants are grown from seeds soaked in neonicotinoids; researchers are finding that the chemical can remain in plants—and kill pollinators that feed on their blossoms—for as long as three to four years.
- **No longer incentivize practices that have become mainstream.** Practices that were once cutting edge but are now commonplace— such as the use of concrete with flyash or slag content—have been deleted from the Scorecard.

The following pages summarize the Scorecard changes. Consult the actual Scorecard and Rating Manual for details.

New Required Credits

The Scorecard now has 14 required credits, including five new required credits:

- **E.5** Install climate adapted plants in street medians.
- **E.8** Group plants in hydrozones.
- **F.7** Install a dedicated landscape water meter for projects with an irrigation area greater than 1,000sf.
- **F.8** Conduct an irrigation audit.
- **F.9** Meet your local CA WELO.

Changes to Required Credits

Five of the required credits have been substantially revised. For example, the revision to Credit E.6 means that Bay-Friendly Rated Landscapes can no longer have decorative turf.

- **C.9** Incorporate quality, organic compost into the soil, at a rate of: 4CY/1000sf. (Changed to meet the 2015 WELO from 1" compost or bring soil organic matter to 3.5%).
- **D.6** Divert 50% of construction and demolition waste, and 100% of excavated soil and land-clearing debris. (Added: 100% excavated soil and land clearing debris).
- **E.6** Limit turf to recreational areas. (Changed from 25% decorative turf allowed to allowing turf only in recreational areas).
- **F.4** Install low volume irrigation in required areas. (Changed from no spray in areas less than eight feet by adding new required areas, such as all mulched planting areas, from the 2015 WELO).
- **F.6** Choose climate adapted plants to meet a water budget of 45% of reference ET. (Changed from install climate adapted plants for 75% of all non-turf plants).

Existing Required Credits

The four required credits listed below remain unchanged:

- **C.8** Protect all planting areas with a minimum of 3 inches of mulch.
- **E.1** Choose and locate plants to grow to their natural size.
- **E.2** Do not plant species listed as invasive in Cal IPC's Don't Plant a Pest brochure.
- **F.3** Install a weather based (evapotranspiration) or soil moisture irrigation controller including a rain shutoff device.

New Credits

Twenty-two new optional credits were added to the Scorecard. Some of these (such as Credit E.11— Provide adequate soil volumes to grow healthy trees) arose from Innovation credits. The rating system's Innovation process encourages project teams to earn points for high performance practices that are not yet addressed by the rating system.

- **A.5** Locate the project within walking distance of public transit.
- **A.6** Locate project 1 mile in bicycling distance from a bicycle path or route.

- **A.7** Provide parking for bicycles.
- **B.2** Decrease the total amount of impervious surface by 10% on previously developed sites.
- **B.4** Design self-retaining planting areas to detain and infiltrate runoff from adjacent impervious areas.
- **B.5** Install a green roof.
- **C.2** Complete the Bay-Friendly Soil Management Plan.
- **D.2** Use irrigation lines made from PVC alternatives.
- **D.4** Use alternatives to PVC or vinyl for 100% of fencing, decking and outdoor furniture.
- **D.7** Use an online C&D waste management tool.
- **D.8** Separate landscape construction and demolition waste streams.
- **D.9** Salvage, reuse or retain on site 50% of a single material.
- **D.10** Retain 25% of asphalt or concrete flatwork.
- **D.12** Do not use black mulch.
- **E.3** Do not plant species listed by Cal-IPC's Invasive Plant Inventory.
- **E.4** Eradicate existing invasive plant species.
- **E.7** Install turf alternatives for multiple use fields.
- **E.11** Provide adequate soil volumes to grow healthy trees.
- **E.13** Install plant material that is neonicotinoid free or third-party certified organic.
- **G.2** Include the Bay-Friendly Site Analysis in the maintenance manual.
- **G.7** Do not shear hedges.
- **H.2** Include a Bay-Friendly Qualified Professional on the design team.

The following pages provide a section-by-section summary of the changes to the Scorecard.

2015 WELO Compliance

In response to the drought conditions in California Governor Brown issued an Executive Order directing the Department of Water Resources (DWR) to update the 2010 State's Model Water Efficient Landscape Ordinance (WELO) through expedited regulation. The revised 2015 WELO broadens the intent of WELO from water efficiency to include a more comprehensive approach to sustainable landscaping as well as significantly reducing the amount of water allocated to each projects water budget.

Version 4 of the Bay-Friendly Rated Scorecard and Rating Manual underwent a thorough review and update to include the 2015 WELO requirements. It is not the intent of the Bay-Friendly Rating program to replace WELO, but instead to reinforce many of the state's requirements. In addition, the newly required Credit F.9: Meet your local CA WELO has been added to ensure that all Bay-Friendly Rated projects are in full compliance with the state's ordinance. In the spreadsheet below “WELO” denotes credits that meet or exceed the requirements of the 2015 WELO.

A. SITE PLANNING

Version 1.1 July 2011	Version 4.0 April 2016	Action
A.1.a. Submit the completed Bay-Friendly Site Analysis Form before completion of 100% design development documents. (5 points)	A.1 Complete the Bay-Friendly Site Analysis before beginning construction documents. (2 points)	Simplified credit title. Reduced points.
A.1.b. The site is located within an urban growth boundary and avoids environmentally sensitive sites. (3 points)	A.2 Locate the project within an infill, urban growth boundary, TOD or designated redevelopment site. (3 points)	Split credit, see A.3.
	A.3 Avoid prime farmland and environmentally sensitive sites. (3 points)	Split credit, see A.2.
A.1.c. The site development results in the clean-up of a contaminated site (i.e. Brownfield) or is in a designated redevelopment area. (3 points)	A.4 Clean up a brownfield site. (3 points)	Split, see A.2, increased points.
A.2.a. For sites adjacent to fire sensitive open space or wildlands only: Submit a Fire Mitigation Plan. (5 points)		Deleted credit.
	A.5 Locate the project within walking distance of public transit. (2 points)	New credit.
	A.6 Locate project 1 mile in bicycling distance from a: 6.1 Class I bike path. (2 points) 6.2 Class II or Class III bicycle route. (1 point)	New credit.
	A.7 Provide parking for bicycles. (2 points)	New credit.
A.3.a.i. Design documents specify areas under tree & shrub canopies and at least 10 feet away from storm drains, to be used as a leaf repository for mulch. (1 point)	A.8 Designate areas for mulch storage and/or leaf repositories. (1 point)	Removed 10 feet requirement at storm drain.
A.3.a.ii. Construction documents specify that of the trees identified for removal, some are chipped for use as mulch onsite. (1 point)	A.9 Reuse trees that are identified for removal on site. (2 points)	Clarified credit title, increased points.

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<p>A.3.b. Produce compost from plant debris:</p> <p>i. A site for composting is included in landscape plans. Systems for composting up to and including 3 cubic yards at one time (1 point) OR</p> <p>ii. Systems for composting more than 3 and up to 10 yards at one time. (total 2 points) OR</p> <p>iii. Systems 10 cubic yards or larger. (total 3 points)</p>	<p>A.10 Compost plant debris on-site with the capacity of:</p> <p>10.1 1-3 cubic yards. (1 point)</p> <p>10.2 More than 3 cubic yards. (total 2 points)</p>	Clarified credit title and reduced thresholds.
<p>A.4.a. An easily accessible area(s) is dedicated to the collection and storage of materials for recycling. (2 points)</p>	<p>A.11 Install covered recycling collection receptacles. (2 points)</p>	Removed building, added covered requirements.
<p>A.5.a. On greenfield sites, limit site disturbance to protect topography, vegetation and hydrology. (3 points) OR</p>		Deleted credit.
<p>A.6. Provide water and/or shelter for wildlife such as birdhouse, bathhouse, boulders, logs, wood piles, large native shrubs or trees. (1 point)</p>	<p>A.12 Provide water and/or shelter for wildlife. (1 point)</p>	Removed large native shrubs or trees.
<p>A.7.a. The landscape is designed to protect 80% of existing mature healthy trees and penalties for destruction of protected trees are included in construction contract. (2 points)</p>	<p>A.13 Preserve and protect 80% of existing mature, healthy, non-invasive trees. (2 points)</p>	Revised practice description.
<p>A.5.b. On previously developed sites, restore vegetation and hydrology. (3 points)</p>	<p>A.14 On previously developed sites, restore vegetation and hydrology. (3 points)</p>	Added native requirement to practice description.
<p>A.7.b. The landscape is designed to increase open space compared to its previous use and/or to connect it to other open space or wildlife corridors. (2 points)</p>	<p>A.15 Increase open space by 30% or connect to adjacent open space. (2 points)</p>	Added 30% 2,500sf minimum.
<p>A.7.c. Create or protect a diverse plant buffer of dense vegetation next to monocultures or along creeks, shorelines or monocultured landscaped areas. (2 points)</p>	<p>A.16 Create or protect a diverse, low-maintenance plant buffer along all creeks, shorelines and monoculture areas. (2 points)</p>	Revised practice description.
<p>Total Required= 0</p>	<p>Total Required=0</p>	
<p>Total Points= 33</p>	<p>Total Points= 35</p>	

B. STORMWATER AND SITE DRAINAGE

Version 1.1 July 2011	Version 4.0 April 2016	Action
<p>B.1.a. Permeable paving, gravel or other porous surfaces are installed for :</p> <p>i. 25% OR</p> <p>ii. 33% (total 3 points) OR</p> <p>iii. 50% of the paved area. (total 5 points)</p>	<p>B.1 Install permeable paving for:</p> <p>1.1 33% of total paved area. (2 points)</p> <p>1.2 50% of total paved area. (total 4 points)</p> <p>1.3 75% of total paved area. (total 6 points)</p>	<p>Increased thresholds. Revised definition of permeable paving.</p>
<p>B.1.b. No impervious surfaces directly connect to the storm drain. (2 points)</p>		<p>See credit B.3 below.</p>
	<p>B.2 Decrease the total amount of impervious surface by 10% on previously developed sites. (1 point)</p>	<p>New credit.</p>
<p>B.2.a. Capture and filter runoff from parking lots into landscape beds, vegetated swales or other landscape stormwater BMP's. (2 points)</p>		<p>See B.3 below.</p>
<p>B.2.b. Incorporate landscape measures, including vegetated swales, infiltration planters, detention basins and/or stormwater wetlands, that are designed to capture and filter</p> <p>i. 85% of average annual stormwater runoff. (2 points) OR</p> <p>ii. Incorporate landscape measures, including vegetated swales, infiltration planters, detention basins and/or stormwater wetlands that are designed to capture and filter 100% of average annual runoff. (total 4 points)</p>	<p>B.3 Capture and treat stormwater runoff from:</p> <p>3.1 Biotreatment for entire roof area. (3 points)</p> <p>3.2 Biotreatment for all impervious paved areas, excluding driveway entrances and roads. (4 points)</p> <p>3.3 Biotreatment for 10,000 sf of road area. (2 points)</p> <p>3.4 Infiltration of at least 80% of the average runoff water quantity generated on site. (3 points)</p>	<p>New thresholds and revised practice description.</p>

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	B.4 Design self-retaining planting areas to detain and infiltrate runoff from adjacent impervious areas for: 4.1 15% of planting areas. (1 point) 4.2 25% of planting areas. (total 2 points)	New credit.
B.2.c. Bioswales specify flat bottoms of at least 18 inches across and/or rock cobble at points of concentrated flow. (1 point)		Deleted credit.
B.2.d. Turf is not specified in bioswales. (1 point)		Deleted credit.
B.2.e. Direct rain water from all down spouts to planters, swales or landscaped areas. (1 point)		Added to credit B.3.
	B.5 Install a green roof on: 5.1 25% of roof area. (1 point) 5.2 50% of roof area. (total 2 points) 5.3 75% of roof area. (total 3 points)	New credit.
Total Required=0	Total Required=0	
Total Points= 16	Total Points= 24	

C. EARTHWORK AND SOIL HEALTH

Version 1.1 July 2011	Version 4.0 April 2016	Action
C.1.a. Submit laboratory soil analysis results and recommendations for compost and natural fertilizers. (3 points)	C.1 Submit laboratory soil analysis results and recommendations for compost and organic fertilizers. (3 points)	Revised credit title to organic *WELO
	C.2 Complete the Bay-Friendly Soil Management Plan. (3 points)	New credit.*WELO
C.2.a. The removal, temporary storage, and re-spreading of topsoil is specified in the landscape design documents AND specifications include a maximum topsoil pile height of 6 feet, as well as measures to protect the stored topsoil from erosion. (2 points)	C.3 Remove, store and replace topsoil before grading. (3 points)	Simplified credit title, increased points.
C.3.a. Grading specifications or construction plans call for the installation and maintenance of fencing to prohibit parking or materials staging in areas identified for protection. (2 points)	C.4 Install and maintain fencing to protect soils from compaction: 4.1 Under trees to remain. (2 points) 4.2 For 50% of new planting areas. (1 point)	Revised practice description and added new thresholds.
C.3.b. Design documents specify that soil is not worked when wet. (1 point)	C.5 Install protective covering to limit soil compaction during the rainy season. (1 point)	Clarified credit title and revised practice description.
C.4.a. Design documents include specification to alleviate compacted soils to a depth of at least 8 inches, before planting, for all landscaped areas that cannot be protected during construction. (1 point)	C.6 Alleviate compaction in soils to a depth of at least: 6.1 8 inches. (1 point) 6.2 12 inches. (total 2 points)	Consolidated credit.
C.4.b. Design documents include specification to alleviate compacted soils to a depth of at least 12 inches, before planting, for all landscaped areas that cannot be protected during construction. (1 point)		Consolidated see C.6 above.
C.5.a. Fertilizers or soil amendment materials prohibited by OMRI in its generic materials list are prohibited in construction of the project. (1 point)	C.7 Use only organic fertilizers and soil amendments. (1 point)	Revised fertilizers to organic only.

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C.6.a. REQUIRED: Planting plans indicate that after construction, all soil on site is protected with a minimum of 3 inches of mulch.	C.8 REQUIRED: Protect all planting areas with a minimum of 3 inches of mulch.	Simplified credit title *WELO
C.7.a. Compost is specified as the soil amendment, at the rates indicated by a soil analysis, to bring the soil organic matter content to a minimum of: i. REQUIRED: 3.5% by dry weight OR 1" of quality compost. OR ii. 5% by dry weight. (total 2 points) AND/OR iii. Specify the use of compost from processors that participate in the US Composting Council's Standard Testing Assurance program.	C.9 Incorporate quality, organic compost into the soil, at a rate of: 9.1 REQUIRED: 4CY/1000sf. 9.2 6CY/1000sf. (3 points)	Added organic compost requirements removed STA threshold and revised to 4CY to meet *WELO
C.8.a. Sheet mulch is specified for weed control. (3 points)	C.10 Install sheet mulch for weed control or lawn conversion. (3 points)	Reworded credit title to include lawn conversion increased from 3" to 4.5" compost and mulch to meet *WELO
C.8.b. Synthetic chemical pre-emergents are avoided (2 points)	C.11 Prohibit synthetic chemical pre-emergent herbicides. (2 points)	Clarified credit title.
C.9.a. Compost berms or blankets or socks are specified for controlling erosion. (2 points)	C.12 Install compost blankets, berms, or socks for controlling erosion. (3 points)	Clarified credit title, increased points.
Total Required= 2	Total Required:2	
Total Points= 21	Total Points= 27	

D. MATERIALS

Version 1.1 July 2011	Version 4.0 April 2016	Action
<p>D.1.a. Non-plant landscape materials are salvaged or made from recycled content materials or FSC certified wood</p> <p>i. Decking. (100% of non-structural materials)(1 point)</p> <p>ii. Fencing. (100% of non-structural materials) (2points)</p> <p>iii. Outdoor furniture such as bike racks, benches, tables and chairs. (50% minimum) (2 points)</p> <p>iv. Planters or retaining walls (100% of either or both.) (1 point)</p> <p>v. Parking stops or lighting/sign posts (100% of either or both.) (1 point)</p> <p>vi. Play structures or surfaces (100% of either or both) (2 points)</p> <p>vii. Edging or decorative glass mulch (100% of either or both.) (1 point)</p>	<p>D.1 Use environmentally preferable materials for:</p> <p>1.1 Decking. (2 points)</p> <p>1.2 Fencing. (2 points)</p> <p>1.3 Site furnishings such as bike racks, benches, tables and chairs. (2 points)</p> <p>1.4 Planters or seat/retaining walls. (1 point)</p> <p>1.5 Lighting and/or sign posts. (1 point)</p> <p>1.6 Eliminate or use environmentally preferable parking stops. (1 point)</p> <p>1.7 Play structures. (2 points)</p> <p>1.8 Play surfaces. (1 point)</p> <p>1.9 Edging. (1 point)</p> <p>1.10 Decorative glass mulch. (1 point)</p>	<p>Revised credit breakdown. Revised environmentally preferable material thresholds in practice description.</p>
	<p>D.2 Use irrigation lines made from PVC alternatives for:</p> <p>2.1 100% of mainlines. (1 point)</p> <p>2.2 100% of laterals. (1 points)</p>	<p>New credit.</p>
<p>D.1.b. A minimum 25% of recycled aggregate (crushed concrete) is specified for walkway, driveway, roadway base and other uses. (2 points)</p>	<p>D.3 Use recycled aggregate for walkway, driveway, roadway base and other uses. (2 point)</p>	<p>Increased from 25% to 100% recycled aggregate.</p>
<p>D.1.c. Replace Portland cement in concrete with flyash or slag:</p> <p>i. 20%. (1 point) OR</p> <p>ii. 25%. (2 points total)</p>		<p>Deleted credit.</p>
	<p>D.4 Use alternatives to PVC or vinyl for 100% of fencing, decking and outdoor furniture. (1 point)</p>	<p>New credit.</p>
<p>D.1.d. Purchased compost and/or mulch is recycled from local, organic materials such as plant or wood waste</p> <p>i. 100% of compost OR 100% of mulch. (1 point)</p> <p>ii. 100% of both. (2 points total)</p>	<p>D.5 Install local and recycled:</p> <p>5.1 Compost. (1 point)</p> <p>5.2 Mulch. (1 point)</p>	<p>Practice description clarifies definitions of local and recycled.</p>

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<p>D.2.a.b.c. REQUIRED: Divert 50% of landscape Construction and demolition waste.</p> <p>b. Divert 100% of asphalt concrete and Portland cement concrete and 65% of remaining materials. (2 points) OR</p> <p>c. Divert 100% of asphalt concrete and Portland cement concrete and 80% or more of remaining materials. (Total 4 points)</p>	<p>D.6 REQUIRED: Divert 50% of construction and demolition waste, and 100% of excavated soil and land-clearing debris.</p>	Revised diversion thresholds.
<p>D.1.d. Donate unused materials. (1 point)</p>		Deleted credit.
	<p>D.7 Use an online C&D waste management tool. (1 point)</p>	New credit.
	<p>D.8 Separate landscape construction and demolition waste streams. (2 points)</p>	New credit.
	<p>D.9 Salvage, reuse or retain on site 50% of a single material. (1 point per material, maximum 5 points)</p>	New credit.
	<p>D.10 Retain 25% of asphalt or concrete flatwork. (2 points)</p>	New credit.
<p>D.3.a. At least 50% of the paved site area includes cool site techniques. (2 points)</p>	<p>D.11 Use cool site techniques in at least 50% of the paved site area. (2 points)</p>	Reworded credit title.
	<p>D.12 Do not use black mulch. (1 point)</p>	New credit.
<p>D.4.a. Low energy fixtures are specified for all site lighting. (2 points)</p>	<p>D.13 Specify low-energy fixtures for all site lighting. (2 points)</p>	Reworded credit title.
<p>D.4.b. Photovoltaic is specified for site lighting.</p> <p>i. All path lighting is solar powered. (1 point)</p> <p>ii. 50% of all other site lighting. (2 points) OR</p> <p>iii. 100% of all other site lighting. (4 points total)</p>	<p>D.14 Power site lighting with photovoltaics covering:</p> <p>14.1 25% of all site demand. (1 point)</p> <p>14.2 50% of all site demand. (total 3 points)</p> <p>14.3 100% of all site demand. (total 5 points)</p>	Revised credit thresholds.
<p>D.4.c. Reduce light pollution and trespass: exterior luminaries emit no light above horizontal or are Dark Sky certified. (1 point)</p>	<p>D.15 Reduce light pollution and trespass. (1 point)</p>	Simplified credit title.
<p>D.4.d. The site and exterior building lighting does not cast direct beam illumination onto adjacent properties or right of ways. (1 point)</p>	<p>D.16 Do not cast direct beam illumination onto adjacent properties. (1 point)</p>	Revised allowed lighting levels in practice description.

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D.5.a. Specify solar powered pump(s) for water features. (1 point)		Deleted credit.
D.6.a. 100% of any stone and non-concrete hardscape materials are produced within 500 miles of the project site. (2 points)	D.17 Use stone and non-concrete hardscape materials that are mined/ produced within 200 miles of the project site. (2 points)	Decreased mileage to 200 miles.
D.7.a. Design documents include construction specifications that require integrated pest management. (2 points)	D.18 Use integrated pest management during construction. (1 point)	Simplified credit title.
D.8.a. Design documents include construction specifications that prohibit the use of pesticides that are not allowed by OMRI in its generic materials list for the maintenance of the landscape. (2 points)	D.19 Use organic pest management during construction. (2 points)	Simplified credit title.
Total Required= 1	Total Required= 1	
Total Points= 39	Total Points= 48	

E. PLANTING

Version 1.1 July 2011	Version 4.0 April 2016	Action
E.1.a. REQUIRED: No species will require shearing .	E.1 REQUIRED: Choose and locate plants to grow to their natural size.	Clarified credit title. Revised spacing requirements in practice description.
E.1.b. Plants specified can grow to mature size within space allotted them. (1 points)		Consolidated see E1 above
E.2.a. REQUIRED: None of the species listed by Cal-IPC as invasive in the San Francisco Bay Area are included in the planting plan.	E.2 REQUIRED: Do not plant species listed by Cal-IPC's Don't Plant a Pest brochure.	Clarified credit title. *WELO
	E.3 Do not plant species listed by Cal-IPC's Invasive Plant Inventory. (2 points)	New credit.
	E.4 Eradicate existing invasive plant species. (2 points)	New credit.
	E.5 REQUIRED Install climate adapted plants in street medians.	New credit. *WELO
E.3.a. Specify drought tolerant California native, Mediterranean or other climate adapted plants that require occasional, little or no summer water for i. REQUIRED: 75% of all non-turf plants. ii. 100% of all non-turf plants. (2 points)		Deleted credit, credit surpassed with F.6. *WELO
E.3.b. 100% of the non-turf plant palette needs no irrigation once established.		Deleted credit.
E.4.a. Turf is not specified in areas less than 8 feet wide or in medians, unless irrigated with subsurface or low volume irrigation. (2 points)		Consolidated with credit F.4.
E.4.b. Turf shall not be installed on slopes exceeding 10%. (2 points)		Consolidated with credit F.4.

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<p>E.4.c. Total irrigated area specified as turf is limited to:</p> <p>i. REQUIRED: A maximum of 25% of total irrigated area, with sports or multiple use fields exempted.</p> <p>ii. A maximum of 15%, with sports or multiple use fields exempted. (total 2 points)</p> <p>iii. No turf is specified. (total 5 points)</p>	<p>E.6 REQUIRED: Limit turf to recreational areas.</p>	<p>Revised requirement for no decorative lawn, removed thresholds. *WELO</p>
	<p>E.7 Install turf alternatives for:</p> <p>7.1 10% of multiple use fields. (2 points)</p> <p>7.2 25% of multiple use fields. (total 4 points)</p> <p>7.3 100% of multiple use fields. (total 6 points)</p>	<p>New credit.</p>
<p>E.5.a. Group plants by water requirements and sun exposure. (2 points)</p>	<p>E.8 REQUIRED: Group plants in hydrozones.</p>	<p>Clarified practice description and made credit required. *WELO</p>
<p>E.6.a. Protect existing shade and/or specify new trees such that 50% or more of west facing glazing and walls. (2 points)</p>	<p>E.9 Shade at least 50% of west-facing building with deciduous trees. (3 points)</p>	<p>Simplified credit title and increased points.</p>
<p>E.7.a. At least 50% of the paved site area is shaded by trees or other vegetation. (2 points)</p>	<p>E.10 Shade at least 50% of paved site area with vegetation excluding drive aisles of parking lots and roads. (3 points)</p>	<p>Revised credit to exclude roads and drive aisles.</p>
	<p>E.11 Provide adequate soil volumes to grow healthy trees. (3 points)</p>	<p>New credit.</p>
<p>E.7.b. At least one tree species is a large stature species. (2 points)</p>	<p>E.12 Plant large-stature tree(s). (2 points)</p>	<p>Revised practice description for # of trees and large-stature definition.</p>
	<p>E.13 Install plant material that is neonicotinoid free. (2 points)</p>	<p>New credit.</p>

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<p>E.8. Diversify a. Landscapes less than 20,000 square feet shall have a minimum of: 20 distinct species (1 point) OR 30 distinct plant species. (total 3 points) b. Landscapes with 20,000 to 43,560 square feet (1 acre) shall include a minimum of 30 distinct species (1 point) OR 40 distinct species (total 2 points) OR 50 distinct plant species. (total 4 points) c. Landscapes of greater than 1 acre shall include a minimum of 40 distinct plant species AND one additional species per acre over 1 acre (2 points) OR two additional species per acre over 1 acre. (total 4 points)</p>	<p>E.14 Plant a diverse palette of distinct species. (3 points)</p>	<p>Simplified credit thresholds.</p>
<p>E.9.a. CA natives are specified for 50% of non-turf plants. (2 points)</p>	<p>E.15 Plant CA natives for: 15.1 50% of non-turf plants. (3 points) 15.2 75% of non-turf plants. (total 4 points) 15.3 100% of non-turf plants. (total 5 points)</p>	<p>Added credit thresholds.</p>
<p>Total Required= 4</p>	<p>Total Required= 5</p>	
<p>Total Points= 36</p>	<p>Total Points= 31</p>	

F. IRRIGATION

Version 1.1 July 2011	Version 4.0 April 2016	Action
F.1.a. Irrigation systems and/or all ornamental uses of water (ponds, fountains, etc.) are plumbed for delivering recycled water where it is available from a municipal source. (3 points)	F.1 Plumb irrigation systems water features for recycled water. (2 points)	Simplified credit title. *WELO
F.1.b. Design a system that can store and use rainwater or graywater to satisfy a percentage of the landscape irrigation i. 10%. (3 points) OR ii. 50%. (4 points total) OR iii. 100% of dry season landscape water satisfied with harvested rainwater. (5 points total)	F.2 Use rainwater and/or graywater to satisfy: 2.1 10% of the site's water requirements. (3 points) 2.2 50% of the site's water requirement. (total 5 points)	Simplified credit title and revised thresholds.
F.2.a. REQUIRED: Specify weather based (automatic, self-adjusting) irrigation controller(s) that includes a moisture and/or rain sensor shutoff.	F.3 REQUIRED: Install a weather-based (evapotranspiration) or soil moisture based controller including a rain shut off device.	Clarified credit title. *WELO
F.2.b. REQUIRED: Sprinkler and spray heads shall not be permitted in areas less than 8 feet wide.	F.4 REQUIRED: Install low volume irrigation in required areas.	Revised credit to add additional requirements per *WELO.
F.2.c. Specify and install irrigation equipment with an operational distribution uniformity of 80% or greater, such as drip or bubblers for: i. 75% or greater of non-turf irrigated areas. (2 points) OR ii. 100% of non-turf irrigated areas. (5 points total)		Consolidated with F.4
F.2.d. For all turf areas: Specify and install equipment with a precipitation rate of 1 inch or less per hour and an operational distribution uniformity of 70% or greater. (2 points)	F.5 Limit precipitation rates of overhead sprinklers. (3 points)	Revised credit to include all spray areas.
F.3.3. Design and install irrigation system that will be operated at 70% of reference ET.	F.6 Choose climate adapted plants to meet a water budget of: 6.1 REQUIRED: 45% of reference ET. 6.2 35% of reference ET. (3 points)	Clarified credit title and added additional thresholds per *WELO.

Version 1.1 July 2011	Version 4.0 April 2016	Action
F.3.a. A dedicated irrigation meter or submeter is specified. (2 points)	F.7 REQUIRED: Install a dedicated landscape water meter for projects with an irrigation area greater than 1,000 sf.	Credit now required. *WELO
	F.8 REQUIRED: Conduct an irrigation audit.	New required credit *WELO
	F.9 REQUIRED Meet your local CA WELO.	New required credit. *WELO
Total Required= 2	Total Required=6	
Total Points= 20	Total Points= 13	

G. MAINTENANCE

Version 1.1 July 2011	Version 4.0 April 2016	Action
G.6.a. At least one landscaping staff member or contractor is trained in the use of IPM or is a Bay-Friendly Qualified Professional.	G.1 Include a Bay-Friendly Qualified Professional on the maintenance team. (3 points)	Clarified credit title.
	G.2 Include the Bay-Friendly Site Analysis in the maintenance manual. (2 points)	New credit.
G.1.a. Grasscycle. (2 points)	G.3 Grasscycle. (2 points)	No change.
G.1.b. Produce mulch from plant debris. (2 points)	G.4 Produce mulch on-site from plant trimmings. (2 points)	Clarified credit title.
G.1.c. Produce compost from plant debris. (3 points)	G.5 Produce compost on-site from plant trimmings. (3 points)	Clarified credit title and practice description.
G.2.a. Ongoing maintenance requires all exported plant debris be separated from other refuse and taken to a facility where it will be used to produce compost or mulch. (3 points)	G.6 Do not dispose of plant trimmings in the landfill. (3 points)	Clarified credit title and practice description.
	G.7 Do not shear hedges. (2 points)	New credit.
G.3.a. Ongoing maintenance requires that soil is not worked when wet, generally between October and April. (1 points)	G.8 Protect soil from compaction. (1 point)	Clarified credit title.
G.4.a. Ongoing maintenance includes topdressing turf with finely screened quality compost after aeration and/or 1-4 times per year. (1 point)	G.9 Use quality, organic compost to support plant and soil health. (2 points)	Revised credit to encompass all planting, added organic requirement to compost.
G.4.b. Ongoing maintenance uses compost, compost tea or other naturally occurring, non-synthetic fertilizers for all landscape areas. (1 point)		Consolidated in G.9.
G.5.c. Ongoing maintenance prohibits fertilizers that are not allowed by Organic Materials Review Institute. (1 point)	G.10 Use only organic fertilizers. (2 points)	Simplified credit title.
G.5.a. Ongoing maintenance requires regular reapplication of organic mulch, to a minimum depth of 3 inches. (2 points)	G.11 Reapply mulch regularly. (2 points)	Simplified credit title.

Version 1.1 July 2011	Version 4.0 April 2016	Action
G.6.a. Ongoing maintenance includes a schedule for reading the dedicated meter or submeter and reporting water Use. (1 point)	G.12 Read the dedicated irrigation meter or sub-meter and report water use a minimum of once a month. (1 point)	Clarified credit title.
G.6.b. At completion of the installation, the contractor shall provide the property owner with 1. precipitation rate for each valve zone, 2. area calculations for each irrigation zone and the irrigation plans which include the location of irrigation supply shut off, 3. internet address for watering index information.		Deleted credit.
G.6.c. Ongoing maintenance includes regular checking of irrigation equipment, and/or checking soil moisture content with soil probes before watering AND/OR immediate replacement of broken equipment with equal or superior materials (1 point)	G.13 Check irrigation equipment regularly and immediately replace broken equipment. (1 point)	Simplified credit title.
G.7.a. Ongoing maintenance includes integrated pest management specifications. (2 points)	G.14 Use integrated pest management during maintenance. (2 points)	Simplified credit title.
G.8.a. Ongoing maintenance requires that all oil leaks are repaired immediately and that repairs are not done at the landscape site. (1 point)		Deleted credit.
G.8.b. Landscape maintenance equipment uses biobased lubricants and/or alternative fuels. (2 points)		Deleted credit.
G.9.a. Ongoing maintenance prohibits the use of pesticides that are not allowed by OMRI in its generic materials list. (2 points)	G15 Use organic pest management during maintenance. (2 points)	Clarified credit title.
Total Required= 0	Total Required= 0	
Total Points= 29	Total Points= 30	

H. INNOVATION

Version 1.1 July 2011	Version 4.0 April 2016	Action
H.1. Bay-Friendly Landscape Guidelines and Principles are defined and referenced in the Construction Bid Documents. (3 points)	H.1 Include Bay-Friendly Rated Landscape requirements in the bid documents. (2 points)	Revised credit to include required contractor documentation.
	H.2 Include a Bay-Friendly Qualified Professional on the design team. (2 points)	New credit
H.2.a. Provide instructional signs and other educational materials to describe the landscapes Bay-Friendly design, construction and maintenance practices. (4 points)	H.3 Install educational signage. (4 points)	Simplified credit title and reduce points
H.3.a. Provide a detailed Bay-Friendly maintenance task list and/or use the BF Maintenance Specification Guidelines as an official reference document in the landscape maintenance contract and/or with on site landscape staff. (7 points)		Deleted credit.
H.4.a. Site analysis is submitted AND 65% of landscape construction waste is diverted AND planting plan includes a diverse palette AND 50% of non-turf plants are California native species AND none of the landscape area is in turf AND compost is specified for amending the soil during installation AND natural fertilizers are specified as the exclusive source of nutrients AND integrated OR organic pest management is specified. (7 points)	H.4 Employ a holistic approach. (5 points)	Simplified credit description and revised credits needed to earn points, also reduced points.
H.5. Design your own Bay-Friendly innovation. (up to 4 points)	H.5 Implement your own Bay-Friendly innovation. (4 points)	Simplified credit title.
Total Required= 0	Total Required=0	
Total Points= 25	Total Points= 17	
Grand Total Required= 9	Grand Total Required=14	
Grand Total Points =219	Grand Total Points= 225	