



CITY OF EMERYVILLE

INCORPORATED 1896

1333 PARK AVENUE
EMERYVILLE, CALIFORNIA 94608-3517

TEL: (510) 596-4300 FAX: (510) 450-7831

September 15, 2014

Bruce Wolfe, Executive Officer
San Francisco Regional Water Quality Control Board
1514 Clay Street
Oakland, CA 94612

SUBJECT: Annual Report for Fiscal Year 2013-2014 for the City of Emeryville

Dear Mr. Wolfe:

Please find enclosed the Annual Report of Stormwater Program Implementation for the Fiscal Year 2013-2014 (months of July 2013 through June 2014). This is being submitted in accordance with the requirements of our NPDES permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Best Regards,

Maurice Kaufman
Public Works Director
City of Emeryville

Enc.



ALAMEDA
COUNTYWIDE
CLEAN WATER
PROGRAM FISCAL
YEAR 2013/2014
ANNUAL REPORT

MEMBER AGENCIES:

Alameda
Albany
Berkeley
Dublin
Emeryville
Fremont
Hayward
Livermore
Newark
Oakland
Piedmont
Pleasanton
San Leandro
Union City

County of Alameda
Alameda County
FloodControl and Water
Conservation District

Zone 7 Water Agency

City of Emeryville



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Maurice Kaufman
Public Works Director
City of Emeryville

Enc.

FY 2013-2014 Annual Report

Permittee Name: _____

ATTACHMENT B

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Permittee Name: _____

Section 1 – Permittee Information

| Background Information | | | | |
|--|--|--------------------|-----------------------|------------------------|
| Permittee Name: | City of Emeryville | | | |
| Population: | 10,269 | | | |
| NPDES Permit No.: | CAS612008 | | | |
| Order Number: | R2-2009-0074R | | | |
| Reporting Time Period (month/year): | July 2013 through June 2014 | | | |
| Name of the Responsible Authority: | Sabrina Landreth | Title: | City Manager | |
| Mailing Address: | 1333 Park Ave. | | | |
| City: | Emeryville | Zip Code: | 94608 | County: Alameda |
| Telephone Number: | 510-596-4371 | Fax Number: | | |
| E-mail Address: | slandreth@emeryville.org | | | |
| Name of the Designated Stormwater Management Program Contact (if different from above): | Maurice Kaufman | Title: | Public Works Director | |
| Department: | Public Works | | | |
| Mailing Address: | 1333 Park Ave | | | |
| City: | Emeryville | Zip Code: | 94608 | County: Alameda |
| Telephone Number: | 510-596-4334 | Fax Number: | | |
| E-mail Address: | mkaufman@emeryville.org | | | |

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary: See Section C.2 - Municipal Operations - of the Alameda Countywide Clean Water Program's (ACCWP) FY 13-14 Annual Report for a summary of Program activities.

City staff regularly attend these CWP committees: New Development, Policy, Management, Trash Working Group, PIP and I&IDC.

C.2.a. ► Street and Road Repair and Maintenance

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

| | |
|----------|--|
| Y | Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater |
| Y | Control of concrete slurry and wastewater, asphalt, pavement cutting, and other street and road maintenance materials and wastewater from discharging to storm drains from work sites. |
| Y | Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work. |

Comments:

Permittee Name: _____

C.2.b. ► Sidewalk/Plaza Maintenance and Pavement Washing

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

| | |
|----------|---|
| Y | Control of wash water from pavement washing, mobile cleaning, pressure wash operations at parking lots, garages, trash areas, gas station fueling areas, and sidewalk and plaza cleaning activities from polluting stormwater |
| Y | Implementation of the BASMAA Mobile Surface Cleaner Program BMPs |

Comments:

C.2.c. ► Bridge and Structure Maintenance and Graffiti Removal

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

| | |
|----------|--|
| Y | Control of discharges from bridge and structural maintenance activities directly over water or into storm drains |
| Y | Control of discharges from graffiti removal activities |
| Y | Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities |
| Y | Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal |
| Y | Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities. |
| Y | Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities. |

Comments:

Permittee Name: _____

C.2.d. ► Stormwater Pump Stations

Does your municipality own stormwater pump stations: Yes No

If your answer is **No** then skip to **C.2.e.**

Complete the following table for dry weather DO monitoring and inspection data for pump stations¹ (add more rows for additional pump stations). If a pump station is exempt from DO monitoring, explain why it is exempt.

| Pump Station Name and Location | First inspection Dry Weather DO Data | | Second inspection Dry Weather DO Data | |
|--------------------------------|---|------|--|------|
| | Date | mg/L | Date | mg/L |
| | | | | |
| | | | | |
| | | | | |

Summarize corrective actions as needed for DO monitoring at or below 3 mg/L. Attach inspection records of additional DO monitoring for corrective actions:

Summary:

Attachments:

Complete the following table for wet weather inspection data for pump stations (add more rows for additional pump stations):

| Pump Station Name and Location | Date (2x/year required) | Presence of Trash (Cubic Yards) | Presence of Odor (Yes or No) | Presence of Color (Yes or No) | Presence of Turbidity (Yes or No) | Presence of Floating Hydrocarbons (Yes or No) |
|--------------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------------------------------|---|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |

¹ DO monitoring is exempted where all discharge from a pump station remains in a stormwater collection system or infiltrates into a dry creek immediately downstream.

Permittee Name: _____

| C.2.e. ► Rural Public Works Construction and Maintenance | | | |
|--|--|-------------------------------------|-----|
| Does your municipality own/maintain rural ² roads: | | <input type="checkbox"/> | Yes |
| | | <input checked="" type="checkbox"/> | No |
| If your answer is No then skip to C.2.f. | | | |
| Place a Y in the boxes next to activities where applicable BMPs were implemented. If not applicable, type NA in the box and provide an explanation in the comments section below. Place an N in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken. | | | |
| <input type="checkbox"/> | Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas | | |
| <input type="checkbox"/> | Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources | | |
| <input type="checkbox"/> | No impact to creek functions including migratory fish passage during construction of roads and culverts | | |
| <input type="checkbox"/> | Inspection of rural roads for structural integrity and prevention of impact on water quality | | |
| <input type="checkbox"/> | Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion | | |
| <input type="checkbox"/> | Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate | | |
| <input type="checkbox"/> | Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings | | |
| Comments including listing increased maintenance in priority areas: | | | |
| | | | |

² Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

Permittee Name: _____

| C.2.f. ► Corporation Yard BMP Implementation | | | |
|---|---|-----------------------------|-------------------|
| Place an X in the boxes below that apply to your corporations yard(s): | | | |
| <input type="checkbox"/> | We do not have a corporation yard | | |
| <input type="checkbox"/> | Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit | | |
| <input type="checkbox"/> | We have a Stormwater Pollution Prevention Plan (SWPPP) for the Corporation Yard(s) | | |
| Place an X in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type NA in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below: | | | |
| <input checked="" type="checkbox"/> | Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment | | |
| <input checked="" type="checkbox"/> | Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system | | |
| <input checked="" type="checkbox"/> | Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method | | |
| <input checked="" type="checkbox"/> | Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used | | |
| <input checked="" type="checkbox"/> | Cover and/or berm outdoor storage areas containing waste pollutants | | |
| Comments: The City's Corporation Yard is completely indoors or under cover and therefore does not need a SWPPP or NOI Permit. | | | |
| If you have a corporation yard(s) that is not an NOI facility, complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information: | | | |
| Corporation Yard Name | Inspection Date (1x/year required) | Inspection Findings/Results | Follow-up Actions |
| City of Emeryville Corp Yard | 8/19/14 | No problems found. | None needed. |

Section 3 - Provision C.3 Reporting New Development and Redevelopment

C.3.b.v.(2)(a) ► Green Streets Status Report

(All projects to be completed by December 1, 2014)

On an annual basis (if applicable), report on the status of any pilot green street projects within your jurisdiction. For each completed project, report the capital costs, operation and maintenance costs, legal and procedural arrangements in place to address operation and maintenance and its associated costs, and the sustainable landscape measures incorporated in the project including, if relevant, the score from the Bay-Friendly Landscape Scorecard.

Summary:

The C.3 New Development and Redevelopment section of the Countywide program’s FY 13-14 Annual Report includes a description of activities conducted at the countywide or regional level.

The Green Street Pilot Project Summary Report submitted by BASMAA, on behalf of the MRP permittees, in BASMAA’s MRP FY 12-13 Regional Supplement – New Development and Redevelopment includes available information on the green street project constructed in our jurisdiction, including capital costs, O&M costs, legal and procedural arrangements to address O&M and its associated costs, and sustainable landscape measures.

C.3.b.v.(1) ► Regulated Projects Reporting

Fill in attached table **C.3.b.v.(1)** or attach your own table including the same information.

C.3.e.v. ► Alternative or In-Lieu Compliance with Provision C.3.c.

(For FY 11-12 Annual Report and each Annual Report thereafter)

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?

| | | | |
|--|-----|---|----|
| | Yes | X | No |
|--|-----|---|----|

Comments (optional): **That option is available, but has to date not been requested by any applicant.**

Permittee Name: _____

C.3.e.vi ► Special Projects Reporting

| | | | | |
|--|--|------------|---|-----------|
| 1. Has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii(2) for any of the three categories of Special Projects (Categories A, B or C)? | | Yes | X | No |
| 2. Has your agency granted final discretionary approval of a project identified as a Special Project in the March 15, 2014 report? If yes, include the project in both the C.3.b.v.(1) Table, and the C.3.e.vi. Table. | | Yes | X | No |
| If you answered "Yes" to either question, 1) Complete Table C.3.e.vi . below. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project. | | | | |

C.3.h.iv. ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

| |
|--|
| (1) Fill in attached table C.3.h.iv.(1) or attach your own table including the same information. |
| (2) On an annual basis, provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year. |
| Summary: All City of Emeryville O&M sites were inspected in FY 12/13, so all projects are up to date. During FY 13/14, there was insufficient staff to conduct O&M verification inspections. Inspections will resume in FY 14/15, covering at least 25% of sites for each of the next four years, thereby keeping the program in compliance. |
| (3) On an annual basis, provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program). |
| Summary: The City's O&M program is deemed to be effective; even though no inspections were done this year, all systems were inspected last year. Systems are working correctly, are being maintained properly and when fixes are needed they are completed in a timely manner by the property owners. |
| (4) During the reporting year, did your agency: |

Permittee Name: _____

| | | | | | | |
|--|---|-----|---|----|--|---|
| <ul style="list-style-type: none"> Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation? | x | Yes | | No | | Not applicable. No new facilities were installed. |
| <ul style="list-style-type: none"> Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls?³ | | Yes | x | No | | Not applicable. No treatment measures |
| <ul style="list-style-type: none"> Inspect at least 20 percent of the total number of installed vault-based systems? | | Yes | x | No | | Not applicable. No vault systems. |
| <p>If you answered "No" to any of the questions above, please explain: All City of Emeryville O&M sites were inspected in FY 12/13, so all projects are up to date. During FY 13/14, there was insufficient staff to conduct O&M verification inspections. Inspections will resume in FY 14/15, covering at least 25% of sites for each of the next four years, thereby keeping the program in compliance.</p> | | | | | | |

C.3.i. ► Required Site Design Measures for Small Projects and Detached Single Family Home Projects

On an annual basis, discuss the implementation of the requirements of Provision C.3.i, including ordinance revisions, permit conditions, development of standard specifications and/or guidance materials, and staff training.

Summary:

BASMAA prepared standard specifications in four fact sheets regarding the site design measures listed in Provision C.3.i, as a resource for Permittees. We have modified local ordinances/policies/procedures and forms/checklists to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in Provision C.3.i. We are using the following products for C.3.i implementation:

- **BASMAA's site design fact sheets as appropriate and applicable**
- **City of Emeryville Water Efficient Landscape Ordinance (WELO) form used for site design. See attached.**
- **C.3.i guidance used, WELO Ordinance Worksheet (see attached).**

In Emeryville, C.3 has not been triggered for any small projects within the past fiscal year. Small projects have been very small this past year, and, due to the requirements in our Water Efficient Landscape ordinance, projects have increased pervious surfaces, but have not triggered our WELO.

³ If there is only 1 treatment measure in the jurisdiction, the agency must inspect it every year.

Permittee Name: _____

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

| Project Name Project No. | Project Location ¹⁰ , Street Address | Name of Developer | Project Phase No. ¹¹ | Project Type & Description ¹² | Project Watershed ¹³ | Total Site Area (Acres) | Total Area of Land Disturbed (Acres) | Total New Impervious Surface Area (ft ²) ¹⁴ | Total Replaced Impervious Surface Area (ft ²) ¹⁵ | Total Pre- Project Impervious Surface Area ¹⁶ (ft ²) | Total Post- Project Impervious Surface Area ¹⁷ (ft ²) |
|-----------------------------|--|----------------------|---------------------------------------|---|---------------------------------|-------------------------------|--|---|---|---|--|
| Private Projects | | | | | | | | | | | |
| 64 th & Christie | 6350 Christie, at 64 th Street | Essex Property Trust | N/A | Multi-Family | Derby Creek | 1.259 | 1.472 | 2,445 | 50,396 | 50,396 | 52,841 |
| Public Projects | | | | | | | | | | | |
| None | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Comments: | | | | | | | | | | | |

¹⁰ Include cross streets

¹¹ If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

¹² Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.

¹³ State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

¹⁴ All impervious surfaces added to any area of the site that was previously existing pervious surface.

¹⁵ All impervious surfaces added to any area of the site that was previously existing impervious surface.

¹⁶ For redevelopment projects, state the pre-project impervious surface area.

¹⁷ For redevelopment projects, state the post-project impervious surface area.

Permittee Name: _____

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (private projects)

| Project Name Project No. | Application Deemed Complete Date ¹⁸ | Application Final Approval Date ¹⁹ | Source Control Measures ²⁰ | Site Design Measures ²¹ | Treatment Systems Approved ²² | Type of Operation & Maintenance Responsibility Mechanism ²³ | Hydraulic Sizing Criteria ²⁴ | Alternative Compliance Measures ^{25/26} | Alternative Certification ²⁷ | HM Controls ^{28/29} |
|-----------------------------|---|--|---|---------------------------------------|--|---|--|--|--|--|
| Private Projects | | | | | | | | | | |
| 64 th & Christie | 8/13/2013 | 8/13/2013 | Enclosed trash storage areas, storm drain stenciling, efficient landscape irrigation | None | Flow-through planter | O&M agreement with private landowner | 2.c | None | Yes | None. Project is an in-fill development. |
| Comments: | | | | | | | | | | |

¹⁸ For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

¹⁹ For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

²⁰ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²¹ List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

²² List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

²³ List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

²⁴ See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

²⁵ For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

²⁶ For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

²⁷ Note whether a third party was used to certify the project design complies with Provision C.3.d.

²⁸ If HM control is not required, state why not.

²⁹ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

Permittee Name: _____

C.3.b.v.(1) ► Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (public projects)

| Project Name Project No. | Approval Date ³⁰ | Date Construction Scheduled to Begin | Source Control Measures ³¹ | Site Design Measures ³² | Treatment Systems Approved ³³ | Operation & Maintenance Responsibility Mechanism ³⁴ | Hydraulic Sizing Criteria ³⁵ | Alternative Compliance Measures ^{36/37} | Alternative Certification ³⁸ | HM Controls ^{39/40} |
|-----------------------------|--------------------------------|---|---|---------------------------------------|--|---|--|--|--|------------------------------|
| Public Projects | | | | | | | | | | |
| None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Comments: | | | | | | | | | | |

³⁰ For public projects, enter the plans and specifications approval date.

³¹ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

³² List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

³³ List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

³⁴ List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

³⁵ See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

³⁶ For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

³⁷ For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

³⁸ Note whether a third party was used to certify the project design complies with Provision C.3.d.

³⁹ If HM control is not required, state why not.

⁴⁰ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

Permittee Name: _____

C.3.h.iv. ► Table of Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Fill in table below or attach your own table including the same information.

| Name of Facility/Site Inspected | Address of Facility/Site Inspected | Newly Installed? (YES/NO) ⁴¹ | Party Responsible ⁴² For Maintenance | Date of Inspection | Type of Inspection ⁴³ | Type of Treatment/HM Control(s) Inspected ⁴⁴ | Inspection Findings or Results ⁴⁵ | Enforcement Action Taken ⁴⁶ | Comments/Follow-up |
|---------------------------------|------------------------------------|---|---|--------------------|----------------------------------|---|--|--|---|
| None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | All City of Emeryville O&M sites were inspected in FY 12/13, so all projects are up to date. During FY 13/14, there was insufficient staff to conduct O&M verification inspections. Inspections will resume in FY 14/15, covering at least 25% of sites for each of the next four years, thereby keeping the program in compliance. |

⁴¹ Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.

⁴² State the responsible operator for installed stormwater treatment systems and HM controls.

⁴³ State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).

⁴⁴ State the type(s) of treatment systems inspected (e.g., bioretention facility, flow-through planter, infiltration basin, etc...) and the type(s) of HM controls inspected, and indicate whether the treatment system is an onsite, joint, or offsite system.

⁴⁵ State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).

⁴⁶ State the enforcement action(s) taken, if any.

Permittee Name: _____

| C.3.e.vi.Special Projects Reporting Table | | | | | | | | | | | | |
|--|-----------|---------|--|----------------------|---------------------------|--------------------|-----------------|-------------|---|---|--|--|
| Reporting Period – January 1 – June 30, 2013 | | | | | | | | | | | | |
| Project Name & No. | Permittee | Address | Application Submittal Date ⁴⁷ | Status ⁴⁸ | Description ⁴⁹ | Site Total Acreage | Density DU/Acre | Density FAR | Special Project Category ⁵⁰ | LID Treatment Reduction Credit Available ⁵¹ | List of LID Stormwater Treatment Systems ⁵² | List of Non-LID Stormwater Treatment Systems ⁵³ |
| None | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Category A: Category B: Category C: Location: Density: Parking: N/A | Category A: Category B: Category C: Location: Density: Parking: N/A | Indicate each type of LID treatment system and the percentage of total runoff treated N/A | Indicate each type of non-LID treatment system and the percentage of total runoff treated. Indicate whether minimum design criteria met or certification received N/A |

⁴⁷ Date that a planning application for the Special Project was submitted.

⁴⁸ Indicate whether final discretionary approval is still pending or has been granted, and provide the date or version of the project plans upon which reporting is based.

⁴⁹ Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

⁵⁰ For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁵¹ For each applicable Special Project Category, state the maximum total LID Treatment Reduction Credit available. For Category C Special Projects also list the individual Location, Density, and Minimized Surface Parking Credits available.

⁵² List all LID stormwater treatment systems proposed. For each type, indicate the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area.

⁵³ List all non-LID stormwater treatment systems proposed. For each type of non-LID treatment system, indicate: (1) the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area, and (2) whether the treatment system either meets minimum design criteria published by a government agency or received certification issued by a government agency, and reference the applicable criteria or certification.

Section 4 – Provision C.4 Industrial and Commercial Site Controls

Program Highlights

Provide background information, highlights, trends, etc.

See Section C.4 – Industrial and Commercial Site Control – of the ACCWP FY 13-14 Annual Report for a summary of Program activities. Please see attached 2013-2014 Inspection Summary Report and AMEC contract. **The City of Emeryville contracted with AMEC ENVIRONMENT & INFRASTRUCTURE, INC. for fiscal year 13/14 annual inspections, and plans to do the same for FY 14/15. Facilities list has been updated to include new businesses. No other changes or updates needed. Close relationship with and monitoring of inspections done with a new contractor has enabled the City to build a better, City-tailored inspection program, including accurate data useful for City MRP compliance reporting. City staff attends regularly scheduled I&IDC meetings of the Clean Water Program.**

C.4.b.i. ► Business Inspection Plan

Do you have a Business Inspection Plan? Yes No

If No, explain:

C.4.b.iii.(1) ► Potential Facilities List

List below or attach your list of industrial and commercial facilities in your Inspection Plan to inspect that could reasonably be considered to cause or contribute to pollution of stormwater runoff.

Please see attached.

C.4.b.iii.(2) ► Facilities Scheduled for Inspection

List below or attach your list of facilities scheduled for inspection during the current fiscal year

See attached.

C.4.c.iii.(1) ► Facility Inspections

Fill out the following table or attach a summary of the following information. Indicate your violation reporting methodology below.

| | | |
|-------------------------------------|--|----------------|
| <input type="checkbox"/> | Permittee reports multiple discrete violations on a site as one violation. | |
| <input checked="" type="checkbox"/> | Permittee reports the total number of discrete violations on each site. | |
| | | |
| | Number | Percent |
| Number of businesses inspected | 49 | |

Permittee Name: _____

| | | |
|---|----|------|
| Total number of inspections conducted | 49 | |
| Number of violations (excluding verbal warnings) | 0 | |
| Sites inspected in violation | 0 | 100% |
| Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner | 0 | 100% |
| Comments: | | |

C.4.c.iii.(2) ► Frequency and Types/Categories of Violations Observed

Fill out the following table or attach a summary of the following information.

| Type/Category of Violations Observed | Number of Violations |
|---|----------------------|
| Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge) | 0 |
| Potential discharge and other | 0 |
| Comments: | |

C.4.c.iii.(2) ► Frequency and Type of Enforcement Conducted

Fill out the following table or attach a summary of the following information. **Do not leave any cells blank.**

| | Enforcement Action (as listed in ERP) ⁴⁸ | Number of Enforcement Actions Taken | % of Enforcement Actions Taken ⁴⁹ |
|--------------|--|--|---|
| Level 1 | None | 0 | 0 |
| Level 2 | None | 0 | 0 |
| Level 3 | None | 0 | 0 |
| Level 4 | None | 0 | 0 |
| Total | None | 0 | 0 |

⁴⁸ Agencies to list specific enforcement actions as defined in their ERPs.

⁴⁹ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

Permittee Name: _____

C.4.c.iii.(3) ▶ Types of Violations Noted by Business Category

Fill out the following table or attach a summary of the following information. **Do not leave any cells blank.**

| Business Category ⁵⁰ | Number of Actual Discharge Violations | Number of Potential/Other Discharge Violations |
|---------------------------------|---------------------------------------|--|
| None | 0 | 0 |

C.4.c.iii.(4) ▶ Non-Filers

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:

No businesses were identified as non-filers during this fiscal year.

C.4.d.iii ▶ Staff Training Summary

| Training Name | Training Dates | Topics Covered | No. of Inspectors in Attendance | Percent of Inspectors in Attendance |
|--|-------------------|---|--|-------------------------------------|
| ACCWP Stormwater Business Inspectors Workshop: Enforcement Tools | November 14, 2013 | <ul style="list-style-type: none"> Using the Enforcement Response Plan Enforcement Case Scenarios BMPs for Businesses Controlling Pre-production Plastics | Contract agent, AMEC's inspectors did not attend training this fiscal year but plans to at the next opportunity. | 0 |

⁵⁰ List your Program's standard business categories.

Section 5 – Provision C.5 Illicit Discharge Detection and Elimination

Program Highlights

Provide background information, highlights, trends, etc.

See Section C.5 – Illicit Discharge Detection and Elimination – of the ACCWP FY 13-14 Annual Report for a summary of Program activities.

The City of Emeryville has had very few problems with illicit discharges in FY 13/14. The City’s Fire Department, Police Department and Public Works department continue to work well together to report violations and provide response. The City participates in the countywide IIDC committee. The City has one screening point at the outfall pipe to the Emeryville Crescent on the south side of the intersection of Powell Street and Frontage Road. There were no illicit discharges detected at that location during the reporting period.

C.5.c.iii ► Complaint and Spill Response Phone Number and Spill Contact List

List below or attach your complaint and spill response phone number and spill contact list.

| Contact | Description | Phone Number |
|--------------------|--|--------------|
| Fire Department | Non-emergency phone number | 596-3750 |
| Emergency Dispatch | Oakland dispatch, which connects to Emeryville | 911 |

C.5.d.iii ► Evaluation of Mobile Business Program

Describe implementation of minimum standards and BMPs for mobile businesses and your enforcement strategy. This may include participation in the BASMAA Mobile Surface Cleaners regional program or local activities.

Description:

See Section C.5 – Illicit Discharge Detection and Elimination – of the ACCWP FY 13-14 Annual Report for a summary of related Program and BASMAA activities.

The City of Emeryville responds to complaints and calls regarding illicit discharges. The City requires surface cleaners to use BMPs recommended by the BASMAA Mobile Surface Cleaners regional program. The City of Emeryville does not hire certified Mobile Surface Cleaners at this time.

C.5.e.iii ► Evaluation of Collection System Screening Program

Provide a summary or attach a summary of your collection screening program, a summary of problems found during collection system screening and any changes to the screening program this FY.

Description:

City Municipal crews are out on the street checking illegal dumping locations and collecting litter with litter collection crews every day. We have a very proactive program and Emeryville is a small city, so discharges are discovered quickly.

C.5.f.iii.(1), (2), (3) ▶ Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)

| | Number | Percentage |
|--|--------|------------|
| Discharges reported (C.5.f.iii.(1)) | 0 | |
| Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2)) | 0 | |
| Discharges resolved in a timely manner (C.5.f.iii.(3)) | 0 | |
| Comments: | | |

C.5.f.iii.(4) ▶ Summary of major types of discharges and complaints

Provide a narrative or attach a table and/or graph.

None.

Section 6 – Provision C.6 Construction Site Controls

| C.6.e.iii.1.a, b, c ▶ Site/Inspection Totals | | |
|--|--|---|
| Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a) | Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b) | Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more) (C.6.e.iii.1.c) |
| 0 | 2 | 12 |
| Comments: All necessary construction sites were inspected as required. | | |

| C.6.e.iii.1.d ▶ Construction Activities Storm Water Violations | | |
|--|---|-------------------------------------|
| Guidance: Do not leave any cells blank. | | |
| BMP Category | Number of Violations ⁵¹ excluding Verbal Warnings | % of Total Violations ⁵² |
| Erosion Control | 0 | 0 |
| Run-on and Run-off Control | 0 | 0 |
| Sediment Control | 0 | 0 |
| Active Treatment Systems | 0 | 0 |
| Good Site Management | 0 | 0 |
| Non Stormwater Management | 0 | 0 |
| Total⁵³ | 0 | 100% |

⁵¹ Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category. For example, if during one inspection at a site, there are 2 erosion control violations, only 1 violation would be counted for this table.

⁵² Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

⁵³ The total number of violations may count more than one violation per inspection, since some inspections may result in violations in more than one category. For example, during one inspection of a site, there may have been both an erosion control violation and a sediment control violation. For this reason, the total number of violations in this table may not match the total number of enforcement actions reported in Table C6.e.iii.1.e.

Permittee Name: _____

C.6.e.iii.1.e ► Construction Related Storm Water Enforcement Actions

Guidance: Do not leave any cells blank.

| | Enforcement Action (as listed in ERP) ⁵⁴ | Number Enforcement Actions Issued | % Enforcement Actions Issued ⁵⁵ |
|-----------------------|--|--------------------------------------|---|
| Level 1 ⁵⁶ | 0 | 0 | 0 |
| Level 2 | 0 | 0 | 0 |
| Level 3 | 0 | 0 | 0 |
| Level 4 | 0 | 0 | 0 |
| Total | 0 | 0 | 100% |

C.6.e.iii.1.f, g ► Illicit Discharges

Guidance: Do not leave any cells blank.

| | Number |
|--|--------|
| Number of illicit discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.f) | 0 |
| Number of sites with discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.g) | 0 |

⁵⁴ Agencies should list the specific enforcement actions as defined in their ERPs.

⁵⁵ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

⁵⁶ For example, Enforcement Level 1 may be Verbal Warning.

Permittee Name: _____

| C.6.e.iii.1.h, i ► Violation Correction Times | | |
|--|---------------|-----------------|
| | Number | Percent |
| Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h) | 0 | % ⁵⁷ |
| Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i) | 0 | % ⁵⁸ |
| Total number of violations (excluding verbal warnings) for the reporting year⁵⁹ | 0 | 100% |
| Comments: | | |

| C.6.e.iii.(2) ► Evaluation of Inspection Data |
|---|
| Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.). |
| Description: Inspection data show only minor violations, all of which were easily corrected with verbal warnings. Performance issues related to BMP were due to carelessness, misinformation or ignorance and easily corrected. No trends have been noted. |

| C.6.e.iii.(2) ► Evaluation of Inspection Program Effectiveness |
|---|
| Describe what appear to be your program's strengths and weaknesses, and identify needed improvements, including education and outreach. |
| Description: Emeryville's program has the advantage of being small and well organized, with good communication between City departments. In 13/14, the program faced the challenge of operating with drastically reduced staff, but still managed to accomplish all the necessary industrial inspections, construction and post-construction inspections, and C3 plan reviews. No O&M inspections were done in 13/14, but since 100% were done in 12/13, and there is a plan to do 25% for each of the next four years, compliance has been maintained for that program as well. This fiscal year the program is back up to full staffing. Staff has participated in the CWP NDS meetings. Typically projects are easily inspected, no need to change forms or the process. Violations are related to "housekeeping" such as lunchtime food being left on the ground and inlet protection equipment needing more frequent upkeep. Verbal reminders are all that's needed. |

⁵⁷ Calculated as number of violations fully corrected in a timely period after the violations are discovered divided by the total number of violations for the reporting year.

⁵⁸ Calculated as number of violations not fully corrected within 30 days after the violations are discovered divided by the total number of violations for the reporting year.

⁵⁹ The total number of violations reported in the table of Violation Correction Times equals the number of initial enforcement actions. I.e., This assumes one violation is issued for several problems during an inspection at a site. The total number of violations in the table of Violation Correction Times may not equal the total number of enforcement actions because one violation issued at a site may have a second enforcement action for the same violation at the next inspection if it is not corrected.

Permittee Name: _____

| |
|--|
| |
|--|

C.6.f ▶ Staff Training Summary

| Training Name | Training Dates | Topics Covered | No. of Inspectors in Attendance | Percent of Inspectors in Attendance |
|--|----------------|----------------|---------------------------------|-------------------------------------|
| Training is required to be conducted every other year. ACCWP C.6 Training Workshop conducted in June 2013. Additional ACCWP C.6 Training planned for FY 14-15. | | | | |
| | | | | |
| | | | | |

Permittee Name: _____

Section 7 – Provision C.7. Public Information and Outreach

C.7.b.ii.1 ▶ Advertising Campaign

Summarize advertising efforts. Include details such as messages, creative developed, and outreach media used. The detailed advertising report may be included as an attachment. If advertising is being done by participation in a countywide or regional program, refer to the separate countywide or regional Annual Report.

Summary: **See Section C.7 – Public Information and Outreach – of the ACCWP FY 13-14 Annual Report and the BASMAA FY 2013-2014 Regional Supplement for Training and Outreach for a summary of related Program and BASMAA activities.**

C.7.b.iii.1 ▶ Pre-Campaign Survey

(For the Annual Report following the pre-campaign survey) Summarize survey information such as sample size, type of survey (telephone survey, interviews etc.). Attach a survey report that includes the following information. If survey was done regionally, refer to a regional submittal that contains the following information:

Information on the pre-campaign surveys was included in previous annual reports.

Place an **X** in the appropriate box below: N/A

| | |
|-------------------------------------|---|
| <input type="checkbox"/> | Survey report attached |
| <input checked="" type="checkbox"/> | Reference to regional submittal: Alameda Countywide Clean Water Program FY 13-14 Annual Report |

C.7.b.iii.2 ▶ Post-Campaign Survey

(For the Annual Report following the post-campaign survey) Discuss the campaigns and the measureable changes in awareness and behavior achieved. Provide an update of outreach strategies based on the survey results. If survey was done regionally, refer to a regional submittal that contains the following information:

Information on the post-campaign survey for the BASMAA Regional Youth Litter Campaign was provided in the BASMAA FY 13-14 Annual Report.

Place an **X** in the appropriate box below:

| | |
|-------------------------------------|--|
| <input type="checkbox"/> | Survey report attached |
| <input checked="" type="checkbox"/> | Reference to regional submittal: Regional Youth Litter Campaign report in the BASMAA FY 2013-2014 Regional Supplement for Training and Outreach |

Permittee Name: _____

C.7.c ► Media Relations

Summarize the media relations effort. Include the following details for each media pitch in the space below, AND/OR refer to a regional report that includes these details:

- Topic and content of pitch
- Medium (TV, radio, print, online)
- Date of publication/broadcast

Summary:

The following separate report developed by BASMAA summarizes media relations efforts conducted during FY 13-14: BASMAA FY 2013-2014 Regional Supplement for Training and Outreach

Other media relations efforts conducted countywide are included within the C.7 Public Information and Outreach section of the ACCWP FY 13-14 Annual Report.

C.7.d ► Stormwater Point of Contact

Summary of any changes made during FY 13-14:

Local Emeryville Contact: Nancy Humphrey, Environmental Programs Analyst. Email from website goes to whoever is current staff.

C.7.e ► Public Outreach Events

Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed.

Use the following table for reporting and evaluating public outreach events

| Event Details | Description (messages, audience) | Evaluation of Effectiveness |
|--|---|---|
| <p>1) Earth Day Shoreline Clean Up, Saturday, April 19, 2014, at City “hot spot”, Shorebird Park on Frontage Rd. Event was announced on City website, and San Francisco “fun cheap” website, and via City e-news and regular City event announcement media (paper and electronic).</p> <p>_____</p> | <p>1)</p> <ul style="list-style-type: none"> ○ This clean-up was limited to our “hot spot”, Shorebird Park on Frontage Rd. ○ Audience included a team from the local “Target” store, parents with children and assorted small groups and individuals. ○ Message was clearly conveyed about sources of litter, ways to reduce it, <p>_____</p> | <p>1)</p> <ul style="list-style-type: none"> • About 20 people attended. City Events staff plans better outreach next year. • This was a new collaborative event for Environmental Programs, will build attendance for FY 14/15. • Gave away re-usable shopping bags from the Clean Water Program and City of Emeryville, CWP seed packets and brochures, pencils, erasers, etc. • Collected: Trash: 64 gallons; Recycling: 25 gallons = 89 gallons total. <p>_____</p> |

Permittee Name: _____

| | | |
|--|---|--|
| <p>2) Earth Day Outreach tabling by invitation at Towers Emeryville Thursday April 24, 2014 Event sponsored by Property Manager. Invitation to City to participate. (Not City-sponsored.) Other organizations participating related to climate action, in areas of waste, energy, stormwater/litter.</p> <hr/> <p>3) Coastal Clean Up Day Saturday Sept. 21, 2013 9:00 a.m. to 12 noon Annual event held in conjunction and coordination with California Coastal Commission Clean Up Day, using supplies from that agency. Sited at 2333 Powell St. , next to the Fire Station, on East Bay Regional Park land, by permit.</p> | <p>2) Lunch time for office workers. Messages: litter reduction, avoid harmful chemical use, plant natives.</p> <hr/> <p>3) Open to public: community, businesses, school attendees. Messages/materials about litter sources and prevention; Company teams: IKEA, National Holistic Institute, others. Distribution of CWP, OWOW and other Pub Ed materials; re-usables message by requesting participants bring their own re-usables, such as coffee mug, water bottle, collection bags, buckets and gloves and distribution of re-usable grocery shopping bags. (see attached flyer/posters) Orientation talk suggesting participants consider other clean-up activities in their own neighborhoods or with co-workers.</p> | <p>2) About 100-150 attendees. Well attended and received. Gave away 100+ re-usable shopping bags, seed packets, brochures.</p> <hr/> <p>3) Normally an effective event but this one disrupted by significant rain in 2013. Reduced the average attendance from 120 people down to about 63, and trash collection was cut short.</p> <p>Attendees: 55 adults, 6-8 children</p> <p>Company Teams: IKEA, Four Points Sheraton, NHI</p> <p>25- 32 gallon bags of trash= approximately 175 lbs. 64 gallon cart-full of recyclables= 46 lbs.</p> <p>Miles covered: 1 mile (approximate)</p> |
| <p>Stormwater Exhibit at the Alameda County Fair: July 1 through July 7, 2013 and June 18 through June 30, 2014. Setting up the exhibit and producing the outreach materials are Countywide Program efforts. Staffing the exhibit is an effort conducted by individual Permittees.</p> | <p>The County Fair is attended by a wide range of residents from throughout the County. The primary message of the exhibit and outreach materials is to encourage residents to reduce their use of pesticides or when necessary use less-toxic pesticides. The exhibit also illustrates the basic watershed awareness/stormwater pollution message.</p> | <p>Several hundred thousand residents attend the fair each year. A more detailed description of the exhibit is included in Section C.7 Public Information and Outreach of the ACCWP FY 13/14 Annual Report.</p> |

Permittee Name: _____

C.7.f. ► Watershed Stewardship Collaborative Efforts

Summarize watershed stewardship collaborative efforts and/or refer to a regional report that provides details. Describe the level of effort and support given (e.g., funding only, active participation etc.). State efforts undertaken and the results of these efforts. If this activity is done regionally refer to a regional report.

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary: See Section C.7 (Public Outreach and Involvement) of the ACCWP FY 13-14 Annual Report for a summary of the *Bringing Back the Natives Garden Tours* that is sponsored by the Program. See also the attachment mentioned in C.7.e. above.

C.7.g. ► Citizen Involvement Events

List the types of events conducted (e.g., creek clean up, storm drain inlet marking, native gardening etc.). Use the following table for reporting and evaluating citizen involvement events.

| Event Details | Description | Evaluation of effectiveness |
|--|--|---|
| <p>Citizen Involvement Events include Earth Day Shoreline Clean Up and Coastal Clean Up events listed in Public Outreach above, and again, listed here:</p> <p>1) Earth Day Shoreline Clean Up, Saturday, April 19, 2014, at City “hot spot”, Shorebird Park on Frontage Rd. Event was announced on City website, and San Francisco “fun cheap” website.</p> <p>2) Coastal Clean Up Day Saturday September 20, 2013</p> | <p>1)</p> <ul style="list-style-type: none"> ○ This clean up was limited to our “hot spot”, Shorebird Park on Frontage Rd. ○ Audience included a team from “Target” store, parents with children and assorted small groups and individuals. ○ Messages include litter reduction, re-use instead of disposables, reduction of chemical use. <p>2)</p> <p>Message about litter sources and prevention, reduction of disposables, re-usables encouraged and distributed. Community, businesses, school attendees included Company teams: IKEA, National Holistic Institute, others. Use re-usables, see attached flier/poster.</p> | <p>1) About 20 people attended. Not well enough publicized by City Events staff. New event for Environmental Programs, will build attendance for fy 14/15. Gave away re-usable shopping bags from the Clean Water Program and City of Emeryville, CWP seed packets and brochures.</p> <p>2) Summary of Coastal Clean Up Day Sat. Sept. 21, 2013 9:00 a.m. to 12 noon RAIN! Reduced the average attendance from 120 people down to about 63, and trash collection was cut short.</p> <p>Attendees: 55 adults, 6-8 children; Company Teams: IKEA, Four Points Sheraton, NHI</p> |
| | | |

Permittee Name: _____

| | | |
|--|---|--|
| <p>Community Stewardship Grants Program</p> | <p>The Countywide Program sponsors the Community Stewardship Grants (CSG) Program. The CSG Program provides approximately \$20,000 annually in \$1,000 to \$5,000 increments to individuals and community groups to support stormwater improvement/outreach projects throughout the County.</p> | <p>See Section C.7 of the ACCWP FY13/14 Annual Report for a summary.</p> |
|--|---|--|

C.7.h. ► School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment. Use the following table for reporting school-age children outreach efforts.

| <p>Program Details</p> | <p>Focus & Short Description</p> | <p>Number of Students/Teachers reached</p> | <p>Evaluation of Effectiveness</p> |
|---|--|---|---|
| <p>City of Emeryville distributes notices (posters and fliers) to both Anna Yates Elementary School and Emery Secondary School for the City's Coastal Clean Up Day.</p> | <p>Anti-litter and waste reduction message, Literature and reusables encouraged and given away (shopping bags, coffee mugs, water bottles, etc..) from Clean Water Program and City's own program.</p> | <p>Varies from year to year. Several teachers and both elementary and secondary students attend annually.</p> | <p>This continues to be an effective program that teachers use in varying degrees annually. Some teachers require students to attend, for class or community service hours.</p> |
| <p>See the Section C.7 of the ACCWP FY 13/14 Annual Report for a summary of the Program's School-Age Outreach Program</p> | | | |

Permittee Name: _____

Section 8 - Provision C.8 Water Quality Monitoring

C.8 ► Water Quality Monitoring

State below if information is reported in a separate regional report. Municipalities can also describe below any Water Quality Monitoring activities in which they participate directly, e.g. participation in RMP workgroups, fieldwork within their jurisdictions, etc.

Summary

During FY 13-14, we contributed through ACCWP to the BASMAA Regional Monitoring Coalition (RMC). In addition, we contributed financially to the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP) and were represented at RMP committees and work groups. Monitoring efforts and results are documented in a separate report submitted March 15 of each year, as required in Provision C.8. For additional information on monitoring activities conducted by the Program, BASMAA RMC and the RMP, see the C.8 Water Quality Monitoring section of the Program's FY 13-14 Annual Report and the Integrated Monitoring Report.

Permittee Name: _____

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.b ► Implement IPM Policy or Ordinance

Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbaryl, and fipronil. A separate report can be attached as evidence of your implementation.

| Trends in Quantities and Types of Pesticides Used⁶⁰ | | | | | |
|---|----------------------------|-----------------|-----------------|-----------------|-----------------|
| Pesticide Category and Specific Pesticide Used | Amount⁶¹ | | | | |
| | FY 09-10 | FY 10-11 | FY 11-12 | FY 12-13 | FY 13-14 |
| Organophosphates | 0 | 0 | 0 | 0 | 0 |
| Product or Pesticide Type A | 0 | 0 | 0 | 0 | 0 |
| Product or Pesticide Type B | 0 | 0 | 0 | 0 | 0 |
| Pyrethroids | 0 | 0 | 0 | 0 | 0 |
| Product or Pesticide Type X | 0 | 0 | 0 | 0 | 0 |
| Product or Pesticide Type Y | 0 | 0 | 0 | 0 | 0 |
| Carbaryl | 0 | 0 | 0 | 0 | 0 |
| Fipronil | 0 | 0 | 2 traps | 0 | 0 |

C.9.c ► Train Municipal Employees

| | |
|--|----|
| Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year. | 1 |
| Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years. | 0 |
| Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years. | 0% |

⁶⁰ Includes all municipal structural and landscape pesticide usage by employees and contractors.

⁶¹ Weight or volume of the product or preferably its active ingredient, using same units for the product each year. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: allethrin, bifenthrin, beta-cyfluthrin, bioallethrin, cyfluthrin, cypermethrin, cyphenothrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, gamma-cyhalothrin, imiprothrin, lambda-cyhalothrin, metofluthrin, permethrin, phenothrin, prallethrin, resmethrin, sumithrin (d-phenothrin), tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, cis-permethrin, and zeta-cypermethrin.

Permittee Name: _____

| C.9.d ▶ Require Contractors to Implement IPM | | | | | | |
|---|---|--|---|-----|--------------------------|----|
| Did your municipality contract with any pesticide service provider in the reporting year? | | | x | Yes | <input type="checkbox"/> | No |
| If yes, attach one of the following: | | | | | | |
| <input type="checkbox"/> | Contract specifications that require adherence to your IPM policy and standard operating procedures, OR | | | | | |
| x | Copy(ies) of the contractors' IPM certification(s) or equivalent, OR | | | | | |
| <input type="checkbox"/> | Equivalent documentation. | | | | | |
| If Not attached , explain: | | | | | | |

| C.9.e ▶ Track and Participate in Relevant Regulatory Processes | |
|--|--|
| Summarize participation efforts, information submitted, and how regulatory actions were affected OR reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected. | |
| Summary: | |
| <p>During FY 13-14, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. See the CASQA Pesticides Subcommittee Annual Report 2013-14: Preventing Urban Pesticide Pollution in Stormwater for a summary of CASQA activities.</p> | |

| C.9.f ▶ Interface with County Agricultural Commissioners | | | | | | |
|--|--|--|--------------------------|-----|-------------------------------------|----|
| Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year? | | | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary. | | | | | | |

| C.9.h.ii ▶ Public Outreach: Point of Purchase | |
|---|--|
| Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); OR reference a report of a regional effort for public outreach in which your agency participates. | |
| Summary: | |
| <p>See the C.9 Pesticides Toxicity Control section of the ACCWP FY 13-14 Annual Report and the BASMAA FY 2013-2014 Regional Supplement for Training and Outreach for information on point of purchase public outreach conducted countywide and regionally.</p> | |

Permittee Name: _____

C.9.h.vi ► Public Outreach: Pest Control Operators

Provide a summary of public outreach to pest control operators and landscapers and reduced pesticide use (here or in a separate report); **OR** reference a report of a regional effort for outreach to pest control operators and landscapers in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 13-14 Annual Report for a summary of outreach to pest control operators and landscapers to reduce pesticide use.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.iii ► Minimum Full Trash Capture

Provide the following:

- 1) Descriptions of actions/tasks completed towards achieving the Minimum Full Trash Capture requirement in provision C.10.a.iii. Include the:
 - Total number and types of full capture devices (publicly and privately-owned) installed to-date;
 - Total land area (acres) and land areas within each trash generation category (i.e., very high, high, moderate and low) treated by full capture devices (or other types of devices for non-population based Permittees), in comparison to the MRP-required full capture requirements in Attachment J to the MRP; and,
 - Percentage of jurisdictional land areas with very high, high, moderate and low trash generation rates treated by full capture devices.
- 2) A narrative summary of maintenance activities implemented for each device, group of devices, or device type, including descriptions of typical maintenance frequencies and issues associated with maintaining these devices.

48 trash full-capture devices (pipe connector screens) have been installed in the City of Emeryville. They cover a total approximate acreage of 22.09, in Treatment Areas 1, 2, 3 and 4. (See attached map). They are all located in or directly adjacent to very high trash areas in those TMAs. See below, showing coverage percentages for TMA and generation areas.

| TMA # | Area Treated by Full Capture (Acres) | % of VH/H/M Treated by Full Capture | Total % of TMA Treated by Full Capture |
|-------|--------------------------------------|-------------------------------------|--|
| 1 | 13 | 9% | 9% |
| 2 | 3 | 3% | 2% |
| 3 | 4 | 2% | 2% |
| 4 | 1 | 2% | 1% |
| 5 | 0 | 0% | 0% |

These devices are cleared out at least once a year in the fall and monitored to see if they are trapping leaves before and after rain event.

C.10.b.iii ► Trash Hot Spot Assessment

Provide the volume of material removed during each MRP-required Trash Hot Spot cleanup during each fiscal year, and the dominant types of trash (e.g., glass, plastics, paper) removed and their sources in FY 2013-14 to the extent possible.

| Trash Hot Spot | FY 13-14 Cleanup Date | Volume of Trash Removed (cubic yards) | | | | Dominant Type(s) of Trash in FY 2013-14 | Trash Sources in FY 2013-14 (where possible) |
|----------------|----------------------------------|---------------------------------------|-----------------------|-----------------------|-----------------|---|---|
| | | FY 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | | |
| Shorebird Park | 9/2/13 (Coastal Clean Up Day) | Not available | .08 cubic yards trash | .07 cubic yards trash | .88 cu. yards | Cigarette butts, plastic and foam items and pieces; food wrappers, bottle caps. | Outdoor smoking, convenience stores, to-go food service, freeway on/off ramps (cars). |
| Shorebird Park | 4/19/14 (Earth Day) | Not available | Not available | Not available | .44 cubic yards | 64 gallons trash, 25 gallons recyclables. Dominant trash: cigarette butts, restaurant to-go disposables; plastics | Restaurant to-go ware; illegal waste-dumping; outdoor smoking. |

C.10.c ► Long-Term Trash Load Reduction Plan

Installation of trash capture devices as described above and below.

| Description of Significant Revision | Associated TMA |
|---|----------------|
| 48 total Trash full capture devices have been installed, as listed in our Long Term Plan and detailed elsewhere in this report. | 1, 2, 3,4 |
| | |

| C.10.d ► PART A - Trash Control Measure Implementation and Assessment (Jurisdictional-wide Actions) | | | | |
|--|--|---|--|----------------------------------|
| Provide a description of each jurisdictional-wide trash control measure implemented to-date. Identify the dominant trash source(s) and dominant type(s) of trash addressed by each control measure. For each jurisdictional-wide measure, identify the trash assessment method(s) used to demonstrate on-going reductions, summarize the results of the assessment(s), and estimate the associated reduction of trash within your jurisdictional area. | | | | |
| Control Measure | Summary Description of Control Measure & Dominant Trash Sources and Types | Assessment Method(s) | Summary of Assessment Results To-date | Estimated % Trash Reduced |
| Sheriff's Work Alternative Program (SWAP) Litter Pick-up Crews | Crew sizes vary and are about 5-8 people per day. They work 350 days/year (daily except holidays) and collect an average of 728 gallons of trash per day City-wide. All types of trash are found; the trash is concentrated near retail, food outlets, and schools, deposited by pedestrians and vehicle occupants. | -Bags of litter collected daily, counted and logged by staff. (See sample logs, attached) -Photos taken of very high trash area before and after SWAP collection crew bagged trash. -Photos taken of very high trash area before and after SWAP collection crew bagged trash. | Very effective and economical method of removing on-land litter. By bag count, approximately 254, 916.7 gallons of litter are collected annually; by roll-off bin sample, 346.66 cubic yards of litter are collected annually. | 20% |
| Single-use Plastic Bag Ordinance or Policy | The Alameda County Waste Management Authority adopted the Single-Use Bag Ban. As of January 1, 2013, all grocery stores, supermarkets, mini-marts, convenience stores, liquor stores, pharmacies, drug stores or other entities that sell milk, bread, soda and snack foods (all four items) and/or alcohol (Type 20 or 21 license) in Alameda County must comply with the Single-Use Bag Ban Ordinance. Affected stores may no longer provide customers with single-use bags at check-out. A copy of the Ordinance is available on the Alameda County Waste Management Authority's website: http://reusablebagsac.org/ordinancetext.html | See Section C.10 of the ACCWP FY 13-14 Annual Report. | See Section C.10 of the ACCWP FY 13-14 Annual Report. | 4% |
| Expanded Polystyrene Food Service Ware Ordinance or Policy | 2008 implementation of City of Emeryville's Eco food-ware ordinance, requiring to-go ware be either recyclable or compostable. | By complaint. | Most food-generating businesses are now aware of the ordinance and have been in compliance. No Styrofoam found in inlets during EOA study. | 4% |

Permittee Name: _____

C.10.d ► PART A - Trash Control Measure Implementation and Assessment (Jurisdictional-wide Actions)

Provide a description of each jurisdictional-wide trash control measure implemented to-date. Identify the dominant trash source(s) and dominant type(s) of trash addressed by each control measure. For each jurisdictional-wide measure, identify the trash assessment method(s) used to demonstrate on-going reductions, summarize the results of the assessment(s), and estimate the associated reduction of trash within your jurisdictional area.

| | | | | |
|--|--|--|--|--|
| <p>Public Education and Outreach Programs Targeted at Trash Reduction and Implemented post-MRP Adoption</p> | <p>Outreach is conducted at events, as described in Section 7 e, g.</p> | | | |
|--|--|--|--|--|

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)

Complete the following trash control measure implementation and assessment summary for each primary trash management area (TMA) identified in your Long-term Plan. Include the following information:

- Identify the total jurisdictional area and the % of that area that generates very high (VH), high (H), moderate (M), or low (L) levels of trash;
- Identify the dominant trash source(s) and dominant type(s) of trash addressed or to-be addressed in the TMA;
- Include the area currently treated by full capture devices, the quantity and type of devices installed to-date, and the % of jurisdictional area that generates very high (VH), high (H), moderate (M), and low (L) levels of trash after accounting for reductions via full capture devices;
- Summarize control measures other than full capture devices implemented to-date, distinguishing between implementation that began pre- and post-MRP effective date. If not implemented in the entire TMA, describe generation category targeted and % of TMA addressed;
- Provide the % of the jurisdictional area that generates very VH, H, M or L levels of trash after accounting for all control measures implemented to-date;
- Describe the methods used to evaluate the effectiveness of control measures other than full capture devices, and any assessment results to-date. If the method was not implemented in the entire TMA, describe generation category targeted and % of TMA addressed; and
- Provide an estimate of the % of trash reduced in the TMA and jurisdiction-wide.

| C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions) | | | | | | | | | |
|---|------------------|--|--|-------------------------------|--|------------|--------------|--------------|--------------|
| TMA ID | TMA Area (Acres) | Dominant Sources | Dominant Types | | % TMA in Each Trash Generation Category | | | | |
| | | | | | VH | H | M | L | |
| 1 | 151.2 | Pedestrians, vehicles | Retail packaging, food wrappers, cigarette butts, to-go ware not covered by food-ware ordinance, such as straws, hot cup lids, plastic bags from retail other than covered by ordinance. | Baseline Generation (Pre-MRP) | 34.1% | 5.7% | 56.7% | 3.5% | |
| 2 | 146.5 | Pedestrians, vehicles | Retail packaging, food wrappers, cigarette butts, to-go ware not covered by food-ware ordinance, such as straws, hot cup lids, plastic bags from retail other than covered by ordinance. | | 14.3% | 11.8% | 59.8% | 14.0% | |
| 3 | 227.2 | Pedestrians, vehicles; waste collection vehicles. Occasional illegal dumping. | Retail packaging, food wrappers, cigarette butts, to-go ware not covered by food-ware ordinance, such as straws, hot cup lids, plastic bags from retail other than covered by ordinance. | | 20.5% | 40.7% | 36.3% | 2.5% | |
| 4 | 101.5 | Pedestrians, vehicles | All types. | | 4.7% | 21.7% | 48.9% | 24.7% | |
| 5 | 88.5 | Waste Collection vehicles, pedestrians Occasional illegal dumping. | All types. | | 0.8% | 34.5% | 51.4% | 13.4% | |
| Trash Full Capture Devices | | Summary Descriptions of Full Trash Capture Devices (Quantity and Type) | | | After taking into account Full Capture Devices | 16% | 22.7% | 48.7% | 12.6% |
| Total Area (Acres) | 22.09 | 48 connector pipe screens have been installed in storm drains in very high trash generating areas. 6% total trash reduction is calculated for these devices. | | | | | | | |
| % of TMA | | | | | | | | | |
| % of VH/H/M | | | | | | | | | |
| Summary Descriptions of Control Measures Implemented Since MRP Adoption, Other than Full Capture Devices | | | | | After taking into account all New or Enhanced (post-MRP) Control Measures | 16% | 22.7% | 48.7% | 12.6% |
| <p>Sheriff's Work Alternative Program (SWAP): Despite the fact that this activity has been going on since before implementation of the MRP in 2009, we feel that the impact on trash load reduction this activity has cannot be ignored. These individuals remove litter, on land, 7 days a week. A 6-8 person crew, led by City staff covers the entire City daily, picking up trash on public rights-of-way and parks. Before and after photos of a sample very-high trash area are attached. During a sample period in 2013, approximately 20 cubic yards of litter was collected during a 3 week period. Extrapolating this to a full year, 346.66 cubic yards of litter is removed from land surfaces before it reaches inlets annually.</p> <p>It is obvious to us that the amount of trash picked up daily far exceeds the amount of trash found in full-trash capture devices. From daily collection logs, we found that average daily collection varies (conservatively) from a low of 420 gallons per day, to a high of 1200 gallons per day. Taking the average of 11 separate non-continuous days during the months of August 2014 and March 2014 (Months were chosen for immediately post rainy season and summer samples; data collection used a different system before March 2014) Crews pick up, on land, an average 728 bags of about 20 gallons each per day. Eliminating holidays, for a total of 350 days/year, a total of 245,916 gallons of trash is collected annually. Due to this program, very high trash areas look</p> | | | | | | | | | |

FY 2013-2014 Annual Report

Permittee Name: _____

C.10 – Trash Load Reduction

| | | | | | |
|--|-----|----|----|-----|----|
| <p>more like medium trash areas (see attached photos). Over the next year, we plan to implement a couple more clean-up activities to bring our very high trash areas into the low –or green- range. At this time, a conservative estimate is that this SWAP accounts for at least a 20% reduction in on-land trash.</p> <p>Hotspot clean-ups average 1.32 cubic yards of trash and litter is removed from the City's shoreline.</p> <p>Container management is a collaborative effort by the City's hauler (WMAC) and our Public Works crews. City Cans that are observed by residents, public works employees or WMAC employees as overflowing are reported and proper servicing ensured. Private containers with overflow issues are identified by WMAC, reported to customer and addressed with fees and recommendations for increased service.</p> <p>Alameda County Bag Ban represents 4% drop in plastic bags found in storm drains.</p> <p>City of Emeryville Eco Food-ware ordinance (polystyrene banned in favor of reusable, recyclable or compostable to-go ware) represents another 4% drop in observable to-go ware litter.</p> <p>Storm drain clean out is conducted annually in summer, before the rainy season; and additionally during the rainy season as needed.</p> <p>Hauler (WMAC) Franchise Contract requires covered loads for trash trucks. No other truck disposal activity is based in our jurisdiction.</p> <p>Five Partial Capture devices were installed in TMA #3, 1 in very high, 4 in high trash generation areas.</p> | | | | | |
| <p>Assessment Methods for Control Measures Other than Full Capture Devices</p> | | | | | |
| <p>Assessment methods have included:</p> <p>Sheriff's Work Alternative Program Litter Collection crews</p> <ol style="list-style-type: none"> 1) Sample roll-off bin full in 3 weeks of litter collected, bagged and emptied into bin 2) Data from bags filled, collected and recorded in daily logs (see copy, attached) 3) Field monitoring as reflected in the attached photos taken before and after crews pick up litter in a very high trash area. <p>Hot Spot Clean-Ups measured by collected, bagged litter (as above under Outreach)</p> <p>Container management is coordinated and assessed by City Environmental staff, using feedback reporting loops including collection crews and public works crews.</p> <p>Alameda County Bag Ban assessed by EOA study of inlets</p> <p>Storm drain clean out reported to PW Crew Chief.</p> <p>Partial Capture devices effectiveness assessed by clean out observation.</p> <p>Street sweeping assessment uses County numbers provided to jurisdictions</p> | | | | | |
| <p>Summary of Assessment Results To-date</p> | | | | | |
| <p>By all measures, our trash reduction methods are very successful, removing more trash that estimates indicate we should have, and removing it before it reaches waterways. We will continue our current methods and add clean-up activities in very high generation areas in the next period, to bring our reduction up to 70%.</p> | | | | | |
| <p>Estimated % Trash Reduction in TMA due to New or Enhanced Post-MRP actions</p> | 15% | 3% | 1% | 10% | 0% |
| <p>Estimated % Trash Reduction Jurisdiction-wide due to New or Enhanced Post-MRP actions</p> | 6% | | | | |

Permittee Name: _____

C.10.d ► PART C – Estimated Overall Trash Load Reduction

All of our trash reduction activities are jurisdiction wide, except for our 48 full-trash capture devices (TMAs 1, 2, 3 and 4) and our partial trash capture devices (TMA 3). See Part B of C.10.d for percentages claimed for those capture devices in each area, VH, H, M, and L, as well as TMAs.

Overall trash reduction is shown below.

Creek and Shoreline Clean-up activities are measured by bags of litter collected.

Discussion of Trash Reduction Estimate:

We are confident in our trash reduction estimate. We have assessed it and calculated it in 2 different ways and have been conservative in our methods. The City of Emeryville is known as a clean city because of our on-going, long term efforts to keep it clean, removing litter on-land, before it reaches the MS4 or the water ways.

| | |
|--|---------------|
| Estimated % Trash Reduction due to Jurisdictional-wide Actions | 36.83% |
| Estimated % Trash Reduction due to Trash Full Capture Devices (All TMAs) | 6% |
| Estimated % Trash Reduction due to Other Control Measures (All TMAs) | - |
| SubTotal for Above Actions | 42.83% |
| Estimated % Trash Reduction due to Creek/Shoreline Cleanups (All TMAs) | 4% |
| Total Estimated % Trash Reduction in FY 13-14 | 42.83% |

Section 11 - Provision C.11 Mercury Controls

C.11.a.i ► Mercury Recycling Efforts

List below or attach lists of efforts to promote, facilitate, and/or participate in collection and recycling of mercury containing devices and equipment at the consumer level (e.g., thermometers, thermostats, switches, bulbs).

See Section C.11 of the ACCWP FY 13-14 Annual Report for a summary of countywide recycling efforts.

C.11.a.ii ► Mercury Collection

Provide an estimate of the mass of mercury collected through these efforts, or provide a reference to a report containing this estimate.

Please refer to the ACCWP FY 13-14 Annual Report for an estimate of the mass of mercury collected through collection and recycling efforts in the

Permittee Name: _____

Countywide Program area.

- C.11.b ▶ Monitor Methylmercury**
- C.11.c ▶ Pilot Projects to Investigate and Abate Mercury Sources in Drainages**
- C.11.d ▶ Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices**
- C.11.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit**
- C.11.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs**
- C.11.g ▶ Monitor Stormwater Mercury Pollutant Loads and Loads Reduced**
- C.11.h ▶ Fate and Transport Study of Mercury In Urban Runoff**
- C.11.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region**
- C.11.j ▶ Develop Allocation Sharing Scheme with Caltrans**

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

Summary

A summary of ACCWP and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of Program's FY 13-14 Annual Report, and the March 2014 Integrated Monitoring Report.

Permittee Name: _____

Section 12 - Provision C.12 PCBs Controls

C.12.a.ii,iii ▶ Ongoing Training

(For FY 10-11 Annual Report and Each Annual Report Thereafter) List below or attach description of ongoing training development and inspections for PCB identification, including documentation and referral to appropriate regulatory agencies (e.g. county health departments, Department of Toxic Substances Control, California Department of Public Health, and the Water Board) as necessary.

Description:

See the FY 13-14 ACCWP Annual Report for a description of PCB related training.

C.12.b ▶ Conduct Pilot Projects to Evaluate Managing PCB-Containing Materials and Wastes during Building Demolition and Renovation Activities

C.12.c ▶ Pilot Projects to Investigate and Abate On-land Locations with Elevated PCB Concentrations

C.12.d ▶ Conduct Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices

C.12.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit

C.12.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs

C.12.g ▶ Monitor Stormwater PCB Pollutant Loads and Loads Reduced

C.12.h ▶ Fate and Transport Study of PCBs In Urban Runoff

C.12.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of Program's FY 13-14 Annual Report, and the March 2014 Integrated Monitoring Report.

Permittee Name: _____

Section 13 - Provision C.13 Copper Controls

C.13.a.iii.(2) ▶ Training, Permitting and Enforcement Activities

(FY 11-12 Annual Report and each Annual Report thereafter) Provide summaries of activities implemented to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction including. :

- Development of BMPs on how to manage the water during and post construction
- Requiring the use of appropriate BMPs when issuing building permits
- Educating installers and operators on appropriate BMPs
- Enforcement actions taken again noncompliance

The use of architectural copper is discouraged, and no projects have used it.

C.13.c ▶ Vehicle Brake Pads

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary

During FY 13-14, we participated in implementation of the California Brake Friction Material Law through contributions to the countywide Program, BASMAA and CASQA. For additional information, see the C.13 Copper Controls section of Program's FY 13-14 Annual Report.

C.13.d.iii ▶ Industrial Sources Copper Reduction Results

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary

No projects involved potential users or sources of copper.

Permittee Name: _____

Section 14 - Provision C.14 PBDE, Legacy Pesticides and Selenium Controls

Note: There are no reporting requirements in the FY 13-14 Annual Report for Section C.14.

Permittee Name: _____

Section 15 - Provision C.15 Exempted and Conditionally Exempted Discharges

C.15.b.iii.(1), C.15.b.iii.(2) ► Planned and Unplanned Discharges of Potable Water

| | | | | |
|---|--------------------------|------------|-------------------------------------|-----------|
| Is your agency a water purveyor? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| If No , skip to C.15.b.vi.(2): | | | | |
| If Yes , Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below. | | | | |
| Comments: | | | | |

C.15.b.vi.(2) ► Irrigation Water, Landscape Irrigation, and Lawn or Garden Watering

| |
|---|
| <p>Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:</p> <ul style="list-style-type: none"> • Promote conservation programs • Promote outreach for less toxic pest control and landscape management • Promote use of drought tolerant and native vegetation • Promote outreach messages to encourage appropriate watering/irrigation practices • Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff. |
| <p>Summary: The City of Emeryville promotes, and in some cases requires, the use of best management practices from the Bay Friendly Landscaping and Gardening program, which includes water conservation as one of its key principles.</p> |

C.15.b.iii.(1) ► Planned Discharges of the Potable Water System

| Site/ Location | Discharge Type | Receiving Waterbody(ies) | Date of Discharge | Duration of Discharge (military time) | Estimated Volume (gallons) | Estimated Flow Rate (gallons/day) | Chlorine Residual (mg/L) | pH (standard units) | Discharge Turbidity ⁶² (NTU) | Implemented BMPs & Corrective Actions |
|----------------|----------------|--------------------------|-------------------|---------------------------------------|----------------------------|-----------------------------------|--------------------------|---------------------|---|---------------------------------------|
| None | None | None | None | None | None | None | None | None | None | N/A |

C.15.b.iii.(2) ► Unplanned Discharges of the Potable Water System⁶³

| Site/ Location | Discharge Type | Receiving Waterbody(ies) | Date of Discharge | Discharge Duration (military time) | Estimated Volume (gallons) | Estimated Flow Rate (gallons/day) | Chlorine Residual (mg/L) ⁶⁴ | pH (standard units) ⁵² | Discharge Turbidity (Visual) ⁵² | Implemented BMPs & Corrective Actions | Time of discharge discovery | Regulatory Agency Notification Time ⁶⁵ | Inspector arrival time | Responding crew arrival time |
|----------------|----------------|--------------------------|-------------------|------------------------------------|----------------------------|-----------------------------------|--|-----------------------------------|--|---------------------------------------|-----------------------------|---|------------------------|------------------------------|
| None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |

⁶² Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

⁶³ This table contains all of the unplanned discharges that occurred in this FY.

⁶⁴ Monitoring data is only required for 10% of the unplanned discharges. If you monitored more than 10% of your unplanned discharges, report all of the data collected.

⁶⁵ Notification to Water Board staff is required for unplanned discharges where the chlorine residual is >0.05 mg/L and total volume is ≥ 50,000 gallons. Notification to State Office of Emergency Services is required after becoming aware of aquatic impacts as a result of unplanned discharge or when the discharge might endanger or compromise public health and safety.

**2013-2014 Inspections Summary
City of Emeryville Stormwater Inspections
Emeryville, California**



| Total | | Facilities with: | | | | | Priority for Reinspection: | | |
|-----------------------|-------------------|------------------|---------------|----------------|-------------------|--------------------|----------------------------|-----------------|----------------|
| Inspections Completed | Closed Facilities | No Enforcement | Verbal Notice | Warning Notice | Other Enforcement | Discharge Observed | First Priority | Second Priority | Third Priority |
| 49 | 6 | 46 | 2 | 1 | 0 | 3 | 5 | 6 | 32 |

| Facilities with Enforcement | | | | | | | | |
|-----------------------------|------------------------------|-------------------|---------------|---------------|----------------|--------------------|------------------------------|---|
| Name of Facility | Site Address | Contact Name | Contact Phone | Business Type | Enforcement | Discharge Observed | Action Required ¹ | Summary of Violation |
| Chevys | 1890 POWELL ST | Scott Devros | 5106538210 | Food Service | Verbal Notice | x | x | Grease storage and dumpsters uncovered; patio area is power washed and wash water discharges directly into the bay. |
| Grifols Bldg F | 1403 STANFORD AVE Building F | Karl Huntzicker | 5109233568 | Laboratory | Verbal Notice | x | x | Soapy brown liquid from plastic recycling dumpster discharged into storm drain when dumpster was emptied. |
| Honor Kitchen & Cocktails | 1411 Powell | Joseph Drouillard | 5106538667 | Food Service | Warning Notice | x | x | Kitchen mats washed outdoors and wash water flows to storm drain. Received warning notice previously on 8/24/2010. |

| Facilities with First Priority for Reinspection | | | | | | | |
|---|------------------------------|-------------------|---------------|------------------|----------------|--------------------|-----------------|
| Name of Facility | Site Address | Contact Name | Contact Phone | Business Type | Enforcement | Discharge Observed | Action Required |
| AC Transit Emeryville | 1177 47TH ST | Rick Watson | 5108914981 | Fleet Operations | | | |
| Bacchus Press, inc. | 1287 66TH ST | Jerry Blueford | 5104205800 | Commercial | | | |
| Grifols Bldg F | 1403 STANFORD AVE Building F | Karl Huntzicker | 5109233568 | Laboratory | Verbal Notice | x | x |
| Honor Kitchen & Cocktails | 1411 Powell | Joseph Drouillard | 5106538667 | Food Service | Warning Notice | x | x |
| Pak-N-Save Store #3125 | 3889 SAN PABLO AVE | Steve Peters | 5104501200 | Grocery Store | | | |

| Facilities with Second Priority for Reinspection | | | | | | | |
|--|-------------------|------------------|---------------|------------------|---------------|--------------------|-----------------|
| Name of Facility | Site Address | Contact Name | Contact Phone | Business Type | Enforcement | Discharge Observed | Action Required |
| Boyd's Body Shop | 1245 POWELL ST | Bob Ghaziani | 5106540925 | Vehicle Service | | | |
| Burger King | 5701 CHRISTIE AVE | Isauro Campos | 5104201295 | Food Service | | | |
| Chevys | 1890 POWELL ST | Scott Devros | 5106538210 | Food Service | Verbal Notice | x | x |
| Emery Bay 76 | 1700 POWELL ST | Ken tabrizi | 5106550909 | Gas Station | | | |
| Federal Express Corp. | 1600 63RD ST | Jonathan Mickens | 5105478503 | Fleet Operations | | | |
| Hong Kong East Ocean | 3199 POWELL ST | Edith Lu | 5106553388 | Food Service | | | |

**2013-2014 Inspections Summary
City of Emeryville Stormwater Inspections
Emeryville, California**



| Facilities with Third Priority for Reinspection | | | | | | | |
|---|----------------------------|--------------------|---------------|-----------------|-------------|--------------------|-----------------|
| Name of Facility | Site Address | Contact Name | Contact Phone | Business Type | Enforcement | Discharge Observed | Action Required |
| Admac Pre-Press Company | 1464 67TH ST | Katie McGlynn | 5106532695 | Commercial | | | |
| At Printing | 5515 DOYLE ST | Johnny Ng | 5106539363 | Commercial | | | |
| Baskin Robbins | 1199 40TH ST | Abby Ganzon | 5104201681 | Food Service | | | |
| City of Emeryville Senior Center | 4321 SALEM ST | Brad helfenberger | 5105963730 | Food Service | | | |
| Coulter Forge Technology | 1494 67TH ST | Joseph Holmes | 5104203500 | Commercial | | | |
| Courtyard by Marriott | 5555 SHELLMOUND ST | Alfredo Domingo | 5106528777 | Food Service | | | |
| Doyle Street Cafe | 5515 Doyle Street | George Masarweh | 5105473552 | Food Service | | | |
| Engine World | 1489 67TH ST | Parviz Jabbari | 5106534444 | Vehicle Service | | | |
| Grifols Bldg 12A | 5353 Horton Street | Karl Huntzicker | 5109233568 | Laboratory | | | |
| Grifols Bldg D | 4510 HORTON ST BLDG D | Karl Huntzicker | 5109233568 | Laboratory | | | |
| Grifols Bldg E | 4560 HORTON ST | Karl Huntzicker | 5109233568 | Food Service | | | |
| Grifols Bldg N | 4560 HORTON St. Building N | Karl Huntzicker | 5109233568 | Laboratory | | | |
| I Hop | 4101 SAN PABLO AVE | Juan Garcia | 5106010310 | Food Service | | | |
| Ikea | 4400 SHELLMOUND ST | Chris Schaefer | 5104207004 | Retail | | | |
| Lanesplitter | 3645 San Pablo Ave | Andy Palmer | 5105949400 | Food Service | | | |
| Los Cantaros Taqueria #2 | 4115 San Pablo Ave | Arcadio | 5106018545 | Food Service | | | |
| Novartis, Bld G&T | 1400 53rd ST Building MGT | Kristine M. Muller | 5109238089 | Laboratory | | | |
| Paulding & Co. | 1410 62ND ST | Terry Paulding | 5105941104 | Food Service | | | |
| Perfection Ltd. Body Shop | 1355 PARK AVE | Michael Jordan | 5104200176 | Vehicle Service | | | |
| Plum Screen Printing | 1308 63RD ST | David Smith | 5106587438 | Commercial | | | |
| R & L Warehouse | 1490 66TH ST | Michael Sullivan | 5106531040 | Commercial | | | |
| Robas Pizza Cafe | 2320 Powell Street | Abraham Roba | 5105477773 | Food Service | | | x |
| Roller Press, Inc. | 6647 HOLLIS ST | John Hui | 5106542426 | Commercial | | | |
| Ruby's Café | 6233 HOLLIS ST | Albert Repola | 5106010622 | Food Service | | | |
| Rudys Cant Fail Cafe | 4081 Hollis Street | Betty Nesbitt | 5105941221 | Food Service | | | |
| Specialtys | 1900 Powell Street | Brianne Bruce | 4153622052 | Food Service | | | |
| Taco Bell | 3839 EMERY ST | Sukhwinder Kaur | 5108877260 | Food Service | | | |
| Townhouse Bar and Grill | 5862 DOYLE ST | Mazin Nasser | 5106526151 | Food Service | | | |
| Trader Joes | 5700 CHRISTIE AVE | Winston Wong | 5106588091 | Grocery Store | | | |
| Trader Vics | 9 ANCHOR DR | Jonathan Roman | 5106533400 | Food Service | | | |
| Wallys Cafe | 3900 San Pablo Ave | Andreas Nikitaras | 5106524381 | Food Service | | | |
| Watergate Market | 2390 POWELL ST | Hung Nguyen | 5106552550 | Grocery Store | | | |

| Closed Facilities | |
|-------------------|-------------------|
| Name of Facility | Site Address |
| Emery Bay Deli | 1400 Powell St |
| Ofoto | 1399 64TH ST |
| Pictopia Inc. | 1300 66TH ST |
| United Artists | 6330 CHRISTIE AVE |
| Uptown Cafe & Bar | 4336 San Pablo |
| Wilson Associates | 1501 POWELL ST |

Notes:

1. "Action Required" selected if a remark written on the inspection form is a requirement. See facility's inspection form for details.



www.ecowisecertified.org



Integrated Pest Management

CERTIFICATE OF COMPLETION

Randal Williams

has successfully completed the requirements for

EcoWise Certified Practitioner

on

October 28, 2013

Certificate Expires on October 28, 2016

Certificate No. **C-143**

(verify at www.ecowisecertified.org)



Cell Scandone
Senior Regional Planner
Association of Bay Area Governments



Administered by
Association of Bay Area Governments
www.abag.ca.gov

William Quarles
Program Manager
EcoWise Certified

SHORELINE CLEAN-UP
Here! Sat. 9-12, Sept. 21



Start Here
Registration

CITY OF EMERYVILLE
ENVIRONMENTAL SERVICES



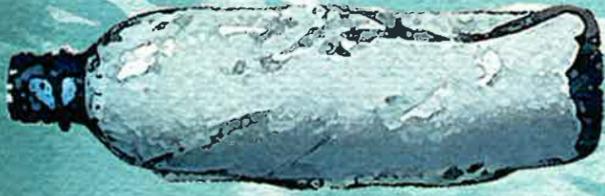
**City of Emeryville
Coastal Clean Up
Saturday, September 21st, 2013
9:00 a.m. – 12 noon**

Enjoy raffle prizes, refreshments, chair massage and hand puppets from these local businesses: Los Cantaros, Wally's, Rotten City Pizza, Arizmendi, Café Aquarius, Farley's, Bucci's, Hong Kong East Ocean, Summer Summer Thai, Townhouse Bar & Grill, National Holistic Institute, Folkmanis Puppets, AND, a free re-usable shopping bag for all adults.



**Come on down to: 2333 Powell St.
(next to the Fire Station, across from Watergate Market)
Bring your own re-usable collection bucket or bag, garden gloves, garden digging tool, water bottle, coffee mug.**

BRINY VESSELS
OF CALIFORNIA



Plasticus vulgaris



Aqualus crinkelus



Beerus americanus



Liquorus partibus



Emptinae canteenis



Floater and sinker



Crackedus enshardus



Cuttano yourfootae



Brokenus bottleis



Kickonme and stubto

LET'S MAKE TRASH

EXTINCT



CALIFORNIA COASTAL CLEANUP DAY
SATURDAY, SEPTEMBER 21, 9AM-NOON

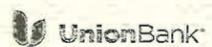
2013

SUPPORT US



Let's make this year's cleanup even greener. Bring your own reusable cleanup supplies and try to use alternative transportation when traveling to the event.
For more info visit CoastalCleanupDay.org or call 1.800.COAST.4U

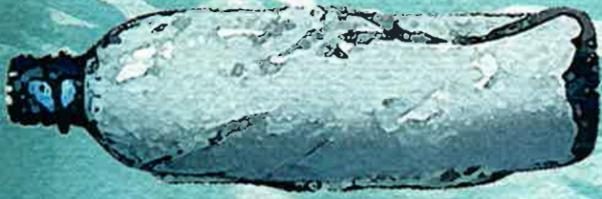
BUY A NEW WHALE TAIL PLATE AND SUPPORT OUR CONSERVATION PROGRAMS



Emeryville location & info: 2333 Powell St., next to the Fire Station, across the street from Watergate Market.
Bring your own re-usable coffee mug, water bottle, collection bag or bucket and gloves. For more event info, or for ADA reasonable accommodation, please contact Marcy Greenhut 510-596-3795 mgreenhut@emeryville.org

Special thanks to Mike Brenner and Greg Collins

BRINY VESSELS
of CALIFORNIA



Plasticus vulgaris



Aquabus crinkelus



Beerus americanus



Liquorus partibus



Emptinae canteenis



Floater andsinker



Crackedus ensbardus



Cuttano yourfootae



Brokenus bottelus



Kickonme andstubbo

EXTINGAMOS

LA BASURA



CALIFORNIA
COASTAL
COMMISSION

DÍA DE LA LIMPIEZA DE LA COSTA DE CALIFORNIA
SÁBADO, SEPTIEMBRE 21, 9:00 AM-12:00 PM

2013

APÓYANOS!



Trae tu propia bolsa reutilizable y trata de utilizar el transporte público para llegar al evento. Desde las montañas hasta la costa, todos podemos remover estas especies de nuestro planeta.
Para más información visita CoastalCleanupDay.org o llama al 1.800.COAST.4U

COMPRA UNA PLACA CON EL NUEVO DISEÑO DE LA COLA DE LA BALLENA Y APOYA NUESTROS PROGRAMAS DE CONSERVACION.



ORACLE



Ocean Conservancy



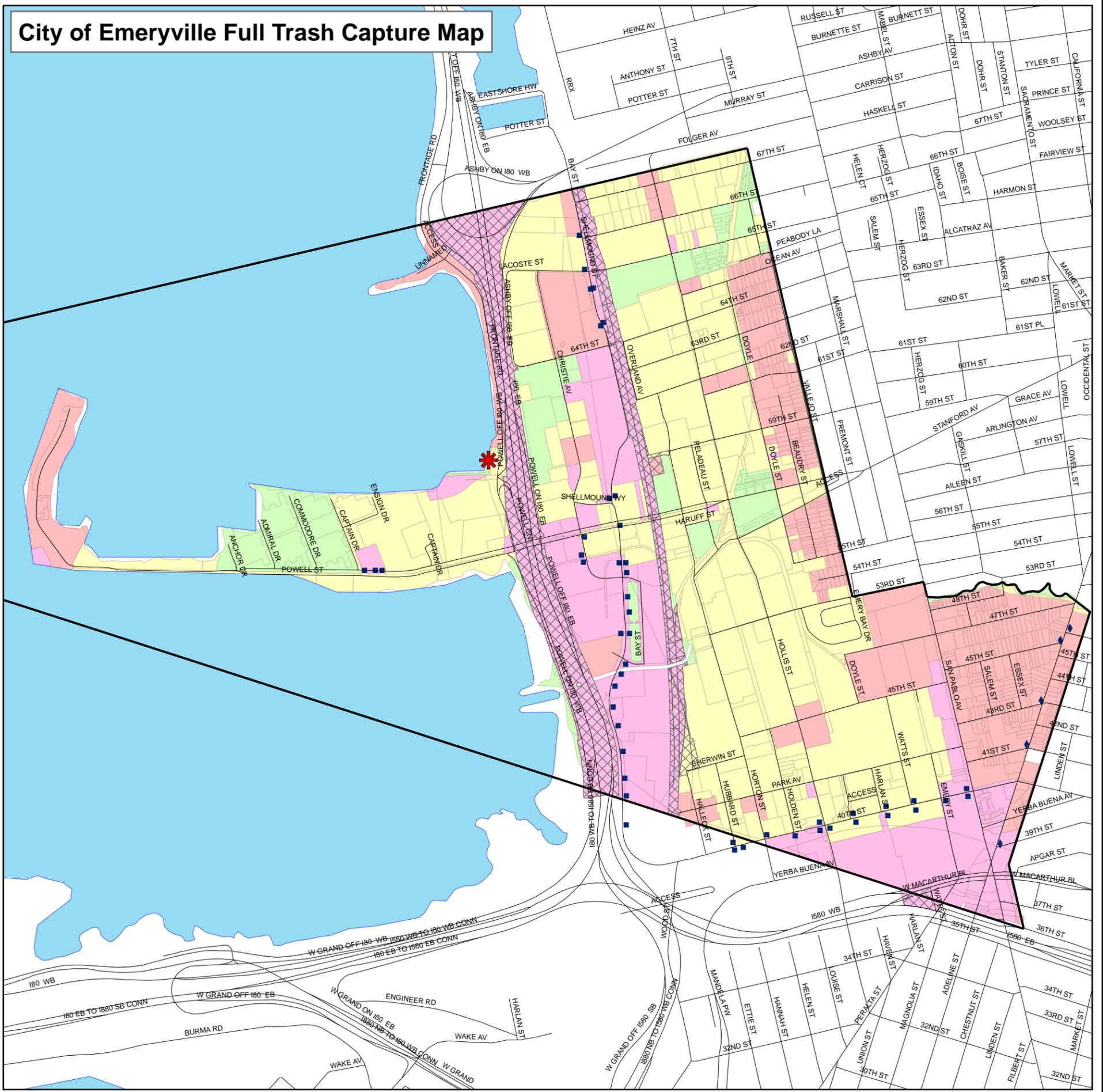
UnionBank



See's CANDIES

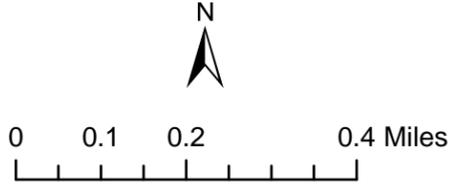
Emeryville location & info: 2333 Powell St., next to the Fire Station, across the street from Watergate Market.
Bring your own re-usable coffee mug, water bottle, collection bag or bucket and gloves. For more event info, or for ADA reasonable accommodation, please contact Marcy Greenhut 510-596-3795 mgreenhut@emeryville.org

City of Emeryville Full Trash Capture Map



Legend

- | | | |
|----------------------------------|--------------------------------|--------------------|
| Trash Generation Category | Creek/Shoreline Hotspot | Streets |
| Low | Partial Capture Location | City Limits |
| Medium | Proposed Full-Capture Location | Non-Jurisdictional |
| High | Full-Capture Location | |
| Very High | | |



Data Sources:
Trash Generation: EOA, Inc.
Roads: Alameda County
ALC_FC_Points: EOA, Inc.

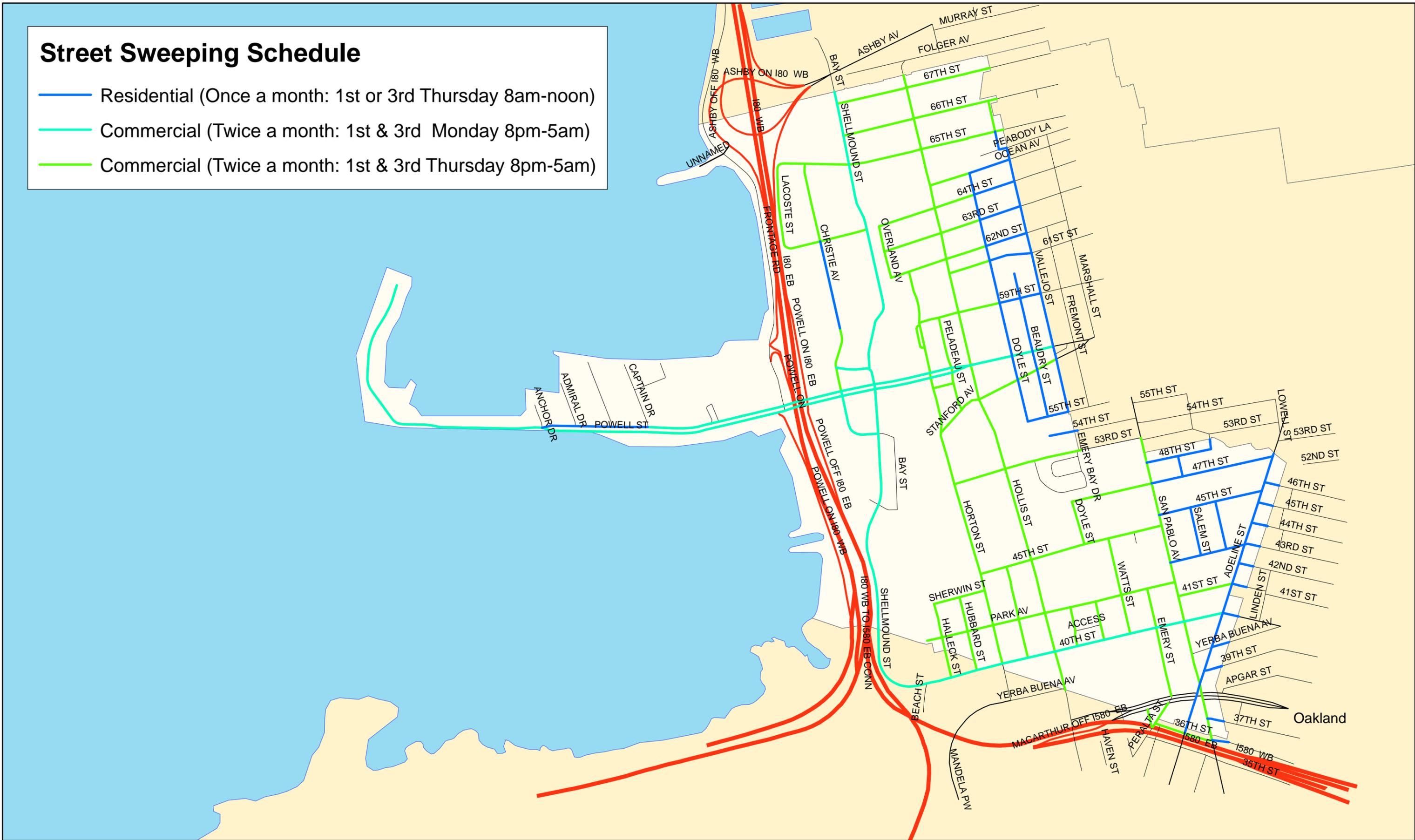
Map Created By:
 Katie Miller
Date:
 May 15th, 2014

SHORELINE CLEAN-UP
Here! Sat. 9-12, Sept. 21



Street Sweeping Schedule

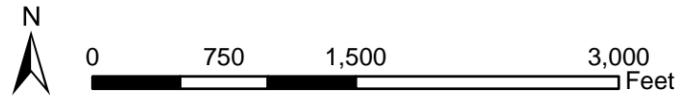
- Residential (Once a month: 1st or 3rd Thursday 8am-noon)
- Commercial (Twice a month: 1st & 3rd Monday 8pm-5am)
- Commercial (Twice a month: 1st & 3rd Thursday 8pm-5am)



EMERYVILLE STREET SWEEPING

DEPARTMENT OF PUBLIC WORKS
1333 PARK AVENUE
EMERYVILLE, CALIFORNIA

Author: K Miller
Date Saved: 2/14/2014 3:38:21 PM



| No. | Name | Address | Last Inspection | Next Inspection Due | Inspection Frequency | Category |
|-----|--|----------------------------|-----------------|---------------------|----------------------|---------------------|
| 1 | Hyatt House | 5800 SHELLMOUND ST | 20-Sep-11 | 19-Sep-14 | 1 insp. / 3 yrs. | Property Management |
| 2 | EMERY BAY/EMERYVILLE PUBLIC MARKET | 5959 SHELLMOUND ST | 3-Oct-11 | 2-Oct-14 | 1 insp. / 3 yrs. | Food Service |
| 3 | NOVARTIS - BLDG H | 5301 HORTON St. Building H | 14-Dec-11 | 13-Dec-14 | 1 insp. / 3 yrs. | Laboratory |
| 4 | EMERY BAY CAFÉ | 5857 CHRISTIE AVE | 29-Dec-11 | 28-Dec-14 | 1 insp. / 3 yrs. | Food Service |
| 5 | ACCESS PRINT | 1306 65th Street | 25-Feb-10 | 24-Feb-15 | 1 insp. / 5 yrs. | Commercial |
| 6 | ACRYLIC ART INC | 1290 45TH ST | 29-Mar-10 | 28-Mar-15 | 1 insp. / 5 yrs. | Commercial |
| 7 | CUSTOM WOODCRAFT & PLASTICS | 4514 HOLLIS ST | 29-Mar-10 | 28-Mar-15 | 1 insp. / 5 yrs. | Commercial |
| 8 | GASKET SPECIALISTS | 6200 HOLLIS ST | 29-Mar-10 | 28-Mar-15 | 1 insp. / 5 yrs. | Commercial |
| 9 | BAYER - BLDG Z | 5650 HOLLIS ST Building Z | 1-Apr-10 | 31-Mar-15 | 1 insp. / 5 yrs. | Food Service |
| 10 | CALIFORNIA CONTRACT COMPANY | 1468 66TH ST | 22-Apr-10 | 21-Apr-15 | 1 insp. / 5 yrs. | Property Management |
| 11 | JULIE HOLCOMB PRINTERS | 1601 63RD ST | 27-Apr-10 | 26-Apr-15 | 1 insp. / 5 yrs. | Commercial |
| 12 | DENNYS | 1776 POWELL ST | 30-Jun-13 | 30-Jun-15 | 1 insp. / 2 yrs. | Food Service |
| 13 | HOME DEPOT | 3838 HOLLIS ST | 30-Jun-13 | 30-Jun-15 | 1 insp. / 2 yrs. | Retail |
| 14 | COULTER STEEL AND FORGE | 1494 67TH ST | 4-Jun-13 | NA | 1 insp. / 1 yrs. | |
| 15 | IHOP | 4101 SAN PABLO AVE | 4-Jun-13 | NA | 1 insp. / 1 yrs. | Food Service |
| 16 | BAYER HEALTHCARE PHARMACEUTICAL - BLDG D (Novartis or Grifols) | 4510 HORTON ST BLDG D | 5-Jun-13 | NA | 1 insp. / 1 yrs. | Laboratory |
| 17 | TRADER VICS | 9 ANCHOR DR | 24-Jun-13 | NA | 1 insp. / 1 yrs. | Food Service |

| |
|---------------------------|
| Re-inspection List |
|---------------------------|

| |
|---|
| Facilities with Priority for re-inspection |
|---|

| | | | | |
|----|---------------------------|------------------------------|-------------------|------------|
| 18 | AC Transit Emeryville | 1177 47TH ST | Rick Watson | 5108914981 |
| 19 | Bacchus Press, inc. | 1287 66TH ST | Jerry Blueford | 5104205800 |
| 20 | Grifols Bldg F | 1403 STANFORD AVE Building F | Karl Huntzicker | 5109233568 |
| 21 | Honor Kitchen & Cocktails | 1411 Powell | Joseph Drouillard | 5106538667 |
| 22 | Pak-N-Save Store #3125 | 3889 SAN PABLO AVE | Steve Peters | 5104501200 |

| | | | | |
|----|---|---------------------|---------------------|----------------------|
| | Facilities with 2nd Priority for re-inspection | | | |
| | Name of Facility | Site Address | Contact Name | Contact Phone |
| 23 | Boyd's Body Shop | 1245 POWELL ST | Bob Ghaziani | 5106540925 |
| 24 | Burger King | 5701 CHRISTIE AVE | Isauro Campos | 5104201295 |
| 25 | Chevys | 1890 POWELL ST | Scott Devros | 5106538210 |
| 26 | Emery Bay 76 | 1700 POWELL ST | Ken Tabrizi | 5106550909 |
| 27 | Federal Express Corp. | 1600 63RD ST | Jonathan Mickens | 5105478503 |
| 28 | Hong Kong East Ocean | 3199 POWELL ST | Edith Lu | 5106553388 |

| | New Businesses | Address | Business type | Open date |
|----|------------------------|----------------------|---|-----------|
| 29 | SCARLET CITY, LLC | 3960 ADELINE ST | ESPRESSO BAR | 6/1/14 |
| 30 | WILD, WILD SALMON | 6043 CHRISTIE AVE | PROCESSING AND SELLING FRESH FISH COMMERCIALY | 6/1/14 |
| 31 | BAY AREA BOAT SPA | 3310 POWELL STREET | BOAT CLEANING & DETAILING | 6/25/14 |
| 32 | ELECTROSAIL, LLC | 3300 POWELL ST | BOAT CHARTER | 6/7/13 |
| 33 | RADIANT GENOMICS, INC. | 5858 HORTON ST, #335 | BASIC RESEARCH BIOTECH | 6/15/13 |
| 34 | MOJO'S MOTORS, LLC | 1316 67TH ST, #6 | BUY AND SELL USED VEHICLES | 4/3/13 |
| 35 | AA GLASS SHOP | 1487 67TH ST | WHOLESALE GLASS | 8/18/13 |

| | | | | |
|----|-----------------------------------|-----------------------|-----------------------|----------|
| 36 | KYU EXPRESS | 6485 HOLLIS ST | SUSHI RESTAURANT | 9/1/13 |
| 37 | THE MOTO DOJO | 1052 WATTS ST | MOTORCYCLE REPAIR | 11/15/13 |
| 38 | RUBICON YACHTS, LLC | 3300 POWELL ST, #105 | USED BOAT SALES | 11/8/13 |
| 39 | PAN PACIFIC COMMERCIAL LINK, INC. | 1900 POWELL ST, #6044 | WHOLESALE AUTO DEALER | 5/1/14 |
| 38 | SEAWARD COASTAL VENTURES, INC. | 3300 POWELL ST | YACHT CHARTER | 10/1/12 |

Reason

| | |
|-----------|----------|
| Discharge | Action |
| Observed | Required |

| | | | |
|------------------|----------------|---|---|
| Fleet Operations | | | |
| Commercial | | | |
| Laboratory | Verbal Notice | x | x |
| Food Service | Warning Notice | x | x |
| Grocery Store | | | |

| Business Type | Enforcement | Discharge Observed | Action Required |
|------------------|---------------|--------------------|-----------------|
| Vehicle Service | | | |
| Food Service | | | |
| Food Service | Verbal Notice | x | x |
| Gas Station | | | |
| Fleet Operations | | | |
| Food Service | | | |











WHEEL OF FORTUNE
THE ORIGINAL TV GAME SHOW
A CBS TELEVISION PRODUCTION
Presented by Mark Goodson
Produced by Mark Goodson
Hosted by Pat Sajak
Contestants: [unreadable]
Sponsored by [unreadable]

[unreadable text on red and white container]















City of Emeryville

Water Efficient Landscape Requirements

Larger Landscapes

This document defines the water efficient landscape design, construction and documentation standards referred to in Section 9-4.70.4 of the Emeryville Municipal Code.

Applicability and Exceptions 2

Landscape Design Package

Submitted as Part of the Design Review Application: 2

- I. Project information form 2
- II. Soil management report 2
- III. Landscape design plan 3
- IV. Water efficient landscape worksheet 5
- V. Grading design plan 8
- VI. Bay-Friendly Landscape Scorecard 8
- VII. Copies of transmittals 8

Irrigation Design Package

Submitted as Part of the Grading or Building Permit Application 8

- I. Updated landscape design package 8
- II. Irrigation design plan 9
- III. Irrigation schedule 11
- IV. Copies of transmittals 11

Project Completion Package

Submitted Prior to Issuance of Certificate of Occupancy or Final Inspection 11

- I. Final landscape inspection 11
- II. Certificate of completion 12
- III. As-built drawings 12
- IV. Landscape and irrigation maintenance schedule 12
- V. Irrigation audit report and implementation 13
- VI. Copies of transmittals 13

FORMS 14

Water Efficient Landscape Project Information Form 14

Water Efficient Landscape Worksheet 15

Water Efficient Landscape Certificate of Completion 16

DEFINITIONS 17

Applicability and Exceptions

New and rehabilitated landscapes with a landscape area equal to or greater than 2,500 square feet are subject to this section.

These requirements do not apply to the following:

- registered historical sites;
- ecological restoration projects that do not require a permanent irrigation system;
- plant collections, as part of botanical gardens and arboretums open to the public; or
- cemeteries.

For projects subject to these requirements, planting and irrigation shall be designed, installed, maintained, and operated to result in total annual applied water use less than or equal to the maximum applied water allowance calculated as specified in these requirements. These projects are required to obtain Design Review, a Building or Grading Permit, and a Certificate of Occupancy, and to meet the design, construction and documentation standards described in this document. Projects must also comply with stormwater and recycled water provisions of the Emeryville Municipal Code and Stopwaste.org's Bay-Friendly Landscape Guidelines.

Landscape Design Package

Submitted as Part of the Design Review Application

The Landscape Design Package shall include project information, a soil management report, a landscape design plan, a water efficient landscape worksheet, a grading design plan, and a copy of a letter or e-mail sending documents to the water purveyor. This package shall be submitted as part of the Design Review Application for the project.

I. Project Information Form

Use the Water Efficient Landscaping Project Information Form on Page 14 to provide contact and project information.

II. Soil Management Report

In order to create drought resistant soil, reduce runoff and encourage healthy plant growth, submit a soil management report addressing soil attributes of the project site, including the following elements:

A. Soil Areas. Identify areas of quality topsoil to be protected during construction, and critical soil limitations such as compaction, water logged soils or wetlands, and thin, eroded or erosion prone soils.

B. Soil Analysis. Sample and analyze the soil(s) into which plantings are to be made. If all plantings will be in new imported soil, City staff may waive this requirement.

1. The soil analysis must be performed by a laboratory certified by the United States Composting Council (USCC) under the Seal of Testing Assurance (STA) Program.
2. Sample soils in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended plants.

3. Provide the soil laboratory with information about the types of plantings intended (such as turf, perennial bed, annual bed, swale, etc.).
4. At a minimum the soil analysis shall include:
 - a. soil texture;
 - b. infiltration rate determined by laboratory test or soil texture infiltration rate table;
 - c. pH;
 - d. total soluble salts;
 - e. sodium;
 - f. essential nutrients
 - g. percent organic matter; and
 - h. recommendations for soil amendments or nutrient applications to ameliorate the soil limitations identified by the analysis and the amount of compost required to bring the soil organic matter content to a minimum of 3.5% by dry weight or a minimum application of at least 1 inch . The required practice of adding compost is waived if the plant palette primarily includes California native species that are adapted to soils with little or no organic matter as documented by a published plant reference.
5. The soil report shall include the following types of recommendations:
 - a. recommendations based on an ‘organic’ approach to soil and landscape management that specifies natural and non-synthetic fertilizers to rectify any soil deficiencies.
 - b. if the soils are to be irrigated with recycled water, recommendations tailored to recycled water.
 - c. management actions to remediate limiting soil characteristics, such as ripping the soil to alleviate compaction.

C. Soil Specifications. Submit specifications for protecting topsoil, ameliorating soil limitations, and incorporating compost and/or amendments as per recommendations in the soil analysis report. If all planting soil is to be imported, submit information on the composition of the new soil and any amendments. If the imported soil does not contain adequate compost, then a minimum of 6 cubic yards of compost, with a composition according to City standards, per 1,000 square feet of landscape area shall be incorporated into the top 6 inches of soil.

D. Use in Design. Provide the soil management report to the landscape and irrigation designers in time to be used in the design.

III. Landscape Design Plan

Submit a landscape design plan meeting the following criteria as part of the Design Review Application. For the efficient use of water, carefully design the landscape for the intended function of the project.

A. Plants. Use the following criteria in plant selection.

1. The Estimated Total Water Use (ETWU) of the plant material selected must not exceed the Maximum Applied Water Allowance (MAWA).
2. Generally, each hydrozone shall have plant materials with similar water use. Hydrozones may include a mix of plants of moderate and low water use, or moderate and high water use.
3. At least 80% of the total number of plants in non-turf areas shall require occasional, little or no summer water. All species should be adapted to the climate in which they will be planted, as documented by a published plant reference. If plants are given a range of water needs from “occasional to moderate” for example, the landscape designer must determine if the plant will require either occasional or moderate watering based on site, soil, and climate conditions and

categorize the plant appropriately. Sources used to determine climate adaptation and watering requirements may include:

- a. Bornstein, Carol, David Fross and Bart O'Brien, *California Native Plants for the Garden*.
Qualifying irrigation designation: "occasional", "infrequent", or "drought tolerant"
 - b. East Bay Municipal Utility District, *Plants and Landscapes for Summer Dry Climates*.
Qualifying irrigation designation: "occasional", "infrequent" or "no summer water"
 - c. Sunset, *Western Garden Book*.
Qualifying irrigation designation: "little or no water"
 - d. University of California Cooperative Extension and Department of Water Resources, *A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California: The Landscape Coefficient Method and WUCOLS III- the Water Use Classification of Landscape Species* Qualifying irrigation designation: "Low" or "Very Low"
4. Turf is not allowed on slopes greater than 25% where the toe of the slope is adjacent to an impermeable hardscape; 25% means 1 foot of vertical elevation change for every 4 feet of horizontal length (rise divided by run x 100 = slope percent).
 5. Limit total irrigated areas specified as turf to a maximum of 25% with recreational areas exempted. Exceptions may be granted when using drought-tolerant grasses requiring limited irrigation and mowing or for grassy swales designed and maintained to treat stormwater runoff.
 6. Do not use species identified by the California Invasive Plant Council's "Don't Plant a Pest! San Francisco Bay Area" and "Don't Plant a Pest! Trees in California" brochures.
 7. The architectural guidelines of a common interest development, which include community apartment projects, condominiums, planned developments, and stock cooperatives per Civil Code Section 1351, shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.
 8. Select and plant plants appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site. To encourage the efficient use of water and other resources, the following are highly recommended:
 - a. protect and preserve native species and natural vegetation;
 - b. select plants based on disease and pest resistance;
 - c. select California native plants;
 - d. use the Sunset *Western Garden Book's* Climate Zone System, which takes into account temperature, humidity, elevation, terrain, latitude, and varying degrees of continental and marine influence on local climate;
 - e. select and locate plants considering invasive surface roots, to minimize damage to buildings, pavement, utility lines, and other property and infrastructure;
 - f. consider the solar orientation for plant placement to maximize summer shade and winter solar gain;
 - g. avoid specifying turf in street medians, traffic islands or bulb-outs of any size unless irrigated with subsurface or low volume irrigation; and
 - h. avoid installing turf on slopes exceeding 10:1 (horizontal to vertical) or 10%.
 9. Select and space plants based on mature plant size, so they can grow to mature size within the space allotted to them, to avoid shearing and topping.

B. Water Features. Features such as pools, fountains and spas have two criteria:

1. Use re-circulating water systems for water features.
2. Design water features to minimize water loss. Outdoor swimming pools and spas (hot tubs) must have covers.

C. Amendments and Mulch. Include the use of mulch to retain moisture and minimize runoff.

1. Incorporate compost and soil amendments according to recommendations of the soil report and what is appropriate for the plants selected, or incorporate 6 cubic yards per 1,000 square feet of compost, with a composition according to City standards, into the top 6 inches of soil.
2. Apply a minimum 3-inch layer of mulch on all exposed soil surfaces of planting areas except in turf areas, or direct seeding applications where mulch is contraindicated. Do not place nonporous material under the mulch.
3. Use stabilizing mulching products on slopes. It is highly recommended that bio-based products are used and petroleum-based products are avoided.
4. The mulching portion of the seed/mulch slurry in hydro-seeded applications shall meet the mulching requirement.
5. It is highly recommended that:
 - a. compost and mulch is recycled from local organic materials such as plant or wood waste,
 - b. compost is purchased from processors who participate in the US Composting Council's Standard Testing Assurance Program, and
 - c. Ongoing maintenance includes regular reapplication of mulch to 3 inches.
6. Required trees shall have adequate rootable soil volume (600 cubic feet for small trees, 900 cubic feet for medium-size trees, and 1200 cubic feet for large trees) and good drainage. Tree sizes refer to sizes of trees at maturity.

D. The Landscape Design Plan Document. Draw the landscape design plan clearly on project base sheets, to a scale that is adequate to identify each component of the plan, at least 1 inch equals 20 feet. The plan shall include the following elements:

1. Project base sheet including dimensioned property lines, building footprints, and pervious and non-pervious hardscape areas including parking, paving and sidewalks;
2. Existing trees and shrubs and whether each will be kept or removed;
3. Hydrozone delineation and water use as low, moderate, high water, or mixed water use;
3. Recreational areas (turf used as a play surface);
4. Edible plant areas that are permanently and solely dedicated to edible plants;
5. Recycled-water irrigated areas, indicating whether recycled water is available now or not;
6. Soil amendments, type, and quantity;
7. Mulch type and application depth;
8. Water features, indicating type and surface area;
9. Stormwater retention and infiltration facilities, with location and depth;
10. Rain harvesting facilities;
11. Location of plants indicating each species of tree, shrub, groundcover, turf and vine using a unique symbol for each;
12. Table of plants including botanical name, common name, container size, spacing, quantity and water use level for each species of plant;
13. Tree staking and soil preparation details including planting specifications;
14. Statement: "I have complied with the criteria of the Water Efficient Landscape Ordinance and applied them for the efficient use of water in the Landscape Design Plan"; and
15. Signature of a licensed landscape architect, licensed landscape contractor, or any other person authorized to design a landscape.

IV. Water Efficient Landscape Worksheet

The Water Efficient Landscape Worksheet shows the Maximum Applied Water Allowance and the Estimated Total Water Use for the proposed landscape project. The Water Efficient

Landscape Worksheet form is on page 15 of this document. Instructions for completing the worksheet are shown below.

A. Hydrozone Information Table. A hydrozone is a portion of the landscape area having plants with similar water needs.

1. For hydrozones that include a mix of plants of moderate and low water use, or moderate and high water use, the plant factor calculation is based on the proportions of the respective plant water uses or the highest water using plant.

| Water Needs of Plants in Hydrozone | Plant Factor Range | Plant Factor Average |
|------------------------------------|--------------------|----------------------|
| Low Water Use | 0 to 0.3 | 0.2 |
| Medium Water Use | 0.4 to 0.6 | 0.5 |
| High Water Use | 0.7 to 1.0 | 0.8 |
| Special Landscape Area | Up to 1.0 | Varies |

2. To determine if a plant’s water use is low, medium or high, refer to *A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California: The Landscape Coefficient Method and WUCOLS III- the Water Use Classification of Landscape Species* (WUCOLS) published by the University of California Cooperative Extension and the Department of Water Resources in 2000, or a more recent version. This publication is available at <http://water.ca.gov/wateruseefficiency/publications/> or by writing to:

California Department of Water Resources, Bulletins and Reports
 P.O. Box 942836, Sacramento CA 94236-0001

3. Include all water features in the high water use hydrozone, and temporarily irrigated areas in the low water use hydrozone. Exclude non-irrigated rain gardens from the hydrozone table.

4. Special Landscape Areas (SLA) are areas of the landscape dedicated solely to edible plants, areas or water features using recycled water, or active play (such as parks, sports fields and informal play areas) where turf provides a playing surface.

5. Enter the Plant Water Use Factor for each hydrozone. If you are not sure which Plant Water Use Factor number to cite within a range, use the average number.

6. Enter the method of irrigation, such as spray, rotor, bubbler or drip, for each hydrozone.

B. Maximum Applied Water Allowance

The Maximum Applied Water Allowance is calculated using the following equation, which assumes average irrigation efficiency of 0.71:

$$MAWA = (41.8) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

Where:

MAWA = Maximum Applied Water Allowance (gallons per year)

41.8 = Emeryville’s Reference Evapotranspiration (inches per year)

0.62 = Conversion Factor (to gallons)

0.7 = Evapotranspiration Adjustment Factor (ETAF)

LA = Landscape Area including SLA (square feet of landscape project)

0.3 = Additional Water Allowance for Special Landscape Areas
 SLA = Special Landscape Area (square feet)

Example MAWA calculation: a hypothetical landscape project with landscape area of 15,000 square feet with a 1,000 square foot Special Landscape Area (edible plants, recreational areas, or use of recycled water).

$$MAWA = (41.8)(0.62) [(0.7 \times 15,000) + (0.3 \times 1,000)]$$

$$MAWA = 279,893 \text{ gallons per year}$$

C. Estimated Total Water Use

The Estimated Total Water Use is calculated using the equation below. The sum of the Estimated Total Water Use calculated for all hydrozones shall not exceed the MAWA.

$$ETWU = (41.8)(0.62) \left(\frac{\sum (PF \times HA)}{IE} + SLA \right)$$

Where:

- ETWU = Estimated Total Water Use per year (gallons)
- 41.8 = Emeryville’s Reference Evapotranspiration (inches)
- PF = Plant Factor based on WUCOLS
- HA = Hydrozone Area (square feet of landscape project)
- SLA = Special Landscape Area (square feet)
- 0.62 = Conversion Factor (to gallons)
- IE = Irrigation Efficiency (minimum 0.71)

Example ETWU calculation: landscape area is 15,000 square feet; with a 1,000 square foot Special Landscape Areas (recreational area, edible plants, or use of recycled water).

| Hydrozone | Plant Water Use Type(s) | Plant Factor (PF) | Hydrozone Area (HA) (square feet) | PF x HA (square feet) |
|-----------|-------------------------|-------------------|-----------------------------------|-----------------------|
| 1 | High | 0.8 | 1,000 | 800 |
| 2 | High | 0.7 | 2,000 | 1,400 |
| 3 | Medium | 0.5 | 3,000 | 1,500 |
| 4 | Low | 0.3 | 4,000 | 1,200 |
| 5 | Low | 0.2 | 4,000 | 1,000 |
| | | | Sum | 5,900 |
| 6 | SLA | 1.0 | 1,000 | 1,000 |

$$ETWU = (41.8)(0.62) \left(\frac{5,900}{0.71} + 1,000 \right)$$

$$ETWU = 241,125 \text{ gallons per year.}$$

D. Comparison. Compare MAWA and ETWU. ETWU must be less than MAWA.

V. Grading Design Plan

Submit a grading plan as part of the Landscape Documentation Package. A comprehensive grading plan prepared by a civil engineer for other local agency permits satisfies this requirement, but is not necessary for all projects. For the efficient use of water, grading of a project site shall be designed to minimize soil erosion, runoff, and water waste.

A. Preventing Erosion and Runoff. To prevent excessive erosion and runoff, it is highly recommended that project applicants:

1. Grade so that all irrigation and normal rainfall remains within property lines and does not drain on to non-permeable hardscapes;
2. Avoid disruption of natural drainage patterns and undisturbed soil; and
3. Avoid soil compaction in landscape areas.

B. The Grading Design Plan Document. Draw the grading design plan clearly on project base sheets, to a scale that is adequate to identify each component of the plan, at least 1 inch equals 20 feet. The plan shall indicate finished configurations and elevations of the landscape, and shall include the following elements:

1. Height of graded slopes;
2. Contour elevations with spacing shown at no greater than 5 feet;
3. Drainage patterns;
4. Pad elevations;
5. Finish grade;
6. Stormwater retention improvements, if applicable;
7. Statement: "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the grading design plan;" and
8. Signature of a licensed professional as authorized by law.

VI. Bay-Friendly Landscape Scorecard

Include a filled-in copy of the attached Bay-Friendly Landscape Scorecard.

VII. Copies of Transmittals

Include copies of a letters or emails sending the Landscape Design Package to the East Bay Municipal Utility District and the property owner or developer.

Irrigation Design Package**Submitted as Part of the Grading or Building Permit Application**

The Irrigation Design Package shall include an updated Landscape Design Package, an irrigation design plan, an irrigation schedule, and a copy of a letter or e-mail sending documents to the water purveyor. This package shall be submitted as part of the Building Permit or Grading Permit application for the project.

I. Updated Landscape Design Package

During and after the design review process, the project information, water efficient landscape worksheet, soil management report, landscape design plan and/or grading design plan may be

revised. Submit the final versions of these documents, or resubmit the design review documents if they have not been changed.

II. Irrigation Design Plan

Submit an irrigation design plan meeting the irrigation design criteria as part of the application for a Building Permit or a Grading Permit. For the efficient use of water, an irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. Design the irrigation system and its related components to allow for proper installation, management, and maintenance.

A. System. The system shall meet the criteria described below.

1. Provide a dedicated landscape water meter separate from indoor water.
2. Automatic irrigation controllers are required, and shall utilize soil moisture sensor data or current reference evapotranspiration data, such as from the California Irrigation Management Information System (CIMIS), other equivalent data.
3. Design the irrigation system to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance.
 - a. During design, measure static water pressure, dynamic or operating pressure, and flow of the water supply at the point of connection. If the measurements are not available at the design stage, conduct the measurements prior to installation.
 - b. If the static pressure is above or below the required dynamic pressure of the irrigation system, install pressure-regulating devices such as inline pressure regulators, booster pumps, or other devices to meet the required dynamic pressure of the irrigation system.
4. Use rain, freeze and wind sensors, either integral or auxiliary, that suspend or alter irrigation operation during rain or windy or freezing weather.
5. Install a manual shut-off valves (such as a gate valve, ball valve, or butterfly valve) as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency (such as a main line break) or routine repair.
6. Install a backflow prevention device to protect the potable water supply from contamination by the irrigation system.
7. Flow meters that detect and report high flow conditions created by system damage or malfunction are recommended.
8. Design the irrigation system to prevent irrigation runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas, such as adjacent property, non-irrigated areas, hardscapes, roadways, or structures.
9. Use information from the soil management plan, such as soil type and infiltration rate, when designing the irrigation system.
10. The design of the irrigation system shall conform to the hydrozones of the landscape design plan.
11. Design and install the irrigation system to meet or exceed an average irrigation efficiency of 0.71.
12. In mulched planting areas, use low volume irrigation to maximize water infiltration into the root zone.
13. Sprinkler heads and other emission devices shall have matched precipitation rates, unless otherwise directed by the manufacturer's recommendations.
14. Head to head coverage is recommended. In any case, sprinkler spacing shall be designed to achieve the highest possible distribution uniformity using the manufacturer's recommendations.
15. Swing joints or other riser-protection components are required on all risers subject to damage that are adjacent to high traffic areas.

16. Check valves or anti-drain valves are required for all irrigation systems.
17. Do not use overhead spray to irrigate narrow or irregularly shaped areas, including turf, less than eight (8) feet in width in any direction.
18. Overhead irrigation is not permitted within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low flow non-spray technology. The setback area may be planted or unplanted. The surfacing of the setback may be mulch, gravel, or other porous material. These restrictions may be modified if:
 - a. the landscape area is adjacent to permeable surfacing and no runoff occurs; or
 - b. the adjacent non-permeable surfaces are designed and constructed to drain entirely to landscaping; or
 - c. the irrigation designer specifies an alternative design or technology and clearly demonstrates strict adherence to irrigation system design criteria. Prevention of overspray and runoff must be confirmed during the irrigation audit.
19. Slopes greater than 25% shall not be irrigated with an irrigation system with a precipitation rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology and clearly demonstrates that no runoff or erosion will occur. Prevention of runoff and erosion must be confirmed during the irrigation audit.

B. Hydrozones.

1. Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use.
2. Select sprinkler heads and other emission devices based on what is appropriate for the plant types within that hydrozone.
3. Where feasible, place trees on separate valves from shrubs, groundcovers, and turf.
4. Designate hydrozone areas by number, letter, or other designation. Designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in the Hydrozone Information Table. This table can also assist with the irrigation audit and programming the controller.

C. The Irrigation Design Plan Document. Draw the irrigation design plan clearly on project base sheets, to a scale that is adequate to identify each component of the plan, at least 1 inch equals 20 feet. The plan shall include the following elements:

1. Designated hydrozones and area irrigated by each valve;
2. Location and size of the water meter for the landscape area;
3. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices;
4. Static water pressure at the point of connection to the public water supply;
5. Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station;
6. Recycled water irrigation systems if recycled water is available or projected to be available in the foreseeable future, as specified in Article 9-4.68, Water Reuse;
7. Statement: “I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan”; and
8. Signature of a licensed landscape architect, certified irrigation designer, licensed landscape contractor, or any other person authorized to design an irrigation system.

III. Irrigation Schedule

For the efficient use of water, develop the irrigation schedules to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:

A. Controllers. Irrigation scheduling shall be regulated by automatic irrigation controllers.

B. Overhead Hours. Overhead irrigation shall be scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it. Operation of the irrigation system outside the normal watering window is allowed for auditing and system maintenance.

C. Meeting MAWA. Specify run times, emission devices, and flow rates so that applied water meets the Estimated Total Water Use. Total annual applied water shall be less than or equal to Maximum Applied Water Allowance (MAWA). Actual irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data.

D. Parameters. Parameters used to set the automatic controller shall be developed and submitted for each of the following:

1. The plant establishment period;
2. The established landscape; and
3. Temporarily irrigated areas.

E. Factors. Each irrigation schedule shall consider for each station all of the following that apply:

1. Irrigation interval (days between irrigation);
2. Irrigation run times (hours or minutes per irrigation event to avoid runoff);
3. Number of cycle starts required for each irrigation event to avoid runoff;
4. Amount of applied water scheduled to be applied on a monthly basis;
5. Application rate setting;
6. Root depth setting;
7. Plant type setting;
8. Soil type and mulch depth;
9. Slope factor setting;
10. Shade factor setting; and
11. Irrigation uniformity or efficiency setting.

IV. Copies of Transmittals

Include copies of letters or emails sending the Irrigation Design Package to the East Bay Municipal Utility District and the property owner.

Project Completion Package

Submitted Prior to Issuance of Certificate of Occupancy or Final Inspection

I. Final Landscape Inspection

Call the project planner and the Public Works Environmental Analyst to arrange for a final landscape inspection. They will check to see that the plants and irrigation system have been

installed as specified and there is no or minimal irrigation runoff or overspray. Submit a record of an approved final inspection.

II. Certificate of Completion

Use the form on page 16 to provide contact information and certification that the landscape project for the property has been installed according to the approved Landscape Design Plan and the Irrigation Design Plan.

III. As-Built Drawings

Where any changes have been made in the field during construction, these “as-built” or record drawings shall be submitted.

IV. Landscape and Irrigation Maintenance Schedule

Landscapes shall be maintained to ensure water use efficiency. A regular maintenance schedule shall be submitted prior to issuance of Certificate of Occupancy.

A. Schedule elements. The regular maintenance schedule shall include:

1. Routine inspection,
2. Adjustment and repair of the irrigation system and its components,
3. Aerating and dethatching turf areas,
4. Replenishing mulch,
5. Fertilizing,
6. Pruning,
7. Weeding in all landscape areas,
8. Replacing failed plants with the same or equivalent plants,
9. Removing and obstruction to emission devices, and
10. Annual transmittal of total annual irrigation water use to the City Environmental Coordinator.

B. Auditing and Maintenance. Operation of the irrigation system outside the normal watering hours is allowed for auditing and system maintenance.

C. Replacement Parts. Repair of all irrigation equipment shall be done with the originally installed components or their equivalents.

D. Environmentally Friendly Practices. The project applicant is encouraged to implement sustainable or environmentally friendly practices for overall landscape maintenance. The following is highly recommended:

1. use the “Bay-Friendly Landscape Model Maintenance Specifications” and the most recent “Bay-Friendly Landscape Guidelines” as official reference documents in the landscape maintenance contract and/or with on-site landscape staff ;
2. at least one landscaping staff member or contractor to be trained in the use of Integrated Pest Management (IPM) or is a “Bay-Friendly Qualified Landscape Professional;”
3. irrigation audit report by a certified landscape irrigation auditor, including inspection, system tune-up, system test with distribution uniformity, reporting overspray or irrigation runoff that causes overland flow, and an irrigation schedule; and
4. documentation verifying implementation of soil report recommendations.

E. Model Homes. In projects with private yards that will be maintained by individual home owners, landscaped model homes shall use signs and written information to demonstrate the principles of water efficient landscapes described in this ordinance.

1. Use signs to identify the model as an example of water efficient landscape featuring elements such as hydrozones, irrigation equipment and others that contribute to the water efficient theme.
2. Provide information about designing, installing, managing and maintaining water efficient landscapes.

V. Irrigation Audit Report and Implementation

The irrigation audit report shall be prepared by a certified landscape irrigation auditor, and shall include inspection, system tune-up, system test with distribution uniformity, reporting overspray or irrigation runoff that causes overland flow, evaluation of Irrigation Efficiency, and comments on the irrigation schedule. The applicant shall also submit information on how any overspray and irrigation runoff have been eliminated, how Irrigation Efficiency has been improved to at least 0.71 if necessary, and where the irrigation schedule will be kept on site and who will implement it.

VI. Copies of Transmittals

Include copies of letters or emails sending the Completion Package to the East Bay Municipal Utility District and the property owner.

**WATER EFFICIENT LANDSCAPE
PROJECT INFORMATION FORM**

Project Name _____ Planning Project Number _____

Project Address _____ APN _____

Applicant's Name and Affiliation _____

Applicant's Address _____

Applicant's City/State/Zip _____

Applicant's Phone _____ E-Mail _____

Landscape Architect or Designer's Name _____

Landscape Architecture or Design Firm _____

Designer's Address _____

Designer's Phone _____ E-Mail _____

Property Owner's Name _____

Owner's Address _____

Owner's Phone _____ E-Mail _____

Total Landscape Area (Sq. Ft.) _____ Irrigated Landscape Area (Sq. Ft) _____

Landscape Type (check one): New Rehabilitated

Land Use Type (check one):
 Multi-Family Single-Family Commercial Other (specify) _____

Irrigation Water Supply (check one):
 Potable Recycled (Reclaimed) Gray Water Other (specify) _____

Documents Included:
 Worksheet Soil Report Landscape Plan Grading Plan Letter to EBMUD

I agree to comply with the requirements of the Water Efficient Landscape Ordinance.

Applicant Signature Date

WATER EFFICIENT LANDSCAPE WORKSHEET

Project Address _____ Date _____

Hydrozone Information Table

| Hydrozone | Hydrozone or Valve Number | Irrigation Method** | Hydrozone Area (Sq. Ft.) | Percent of Landscape Area |
|-----------|---------------------------|---------------------|--------------------------|---------------------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| Total | | | | 100% |

* Indicate the method of irrigation such as spray, rotor, bubbler, drip, etc.

If project has more than 6 hydrozones, duplicate this table on a separate sheet.

Maximum Applied Water Allowance Calculation

$$MAWA = 41.8 \times 0.62 \times [(0.7 \times LA) + (0.3 \times SLA)]$$

Insert your MAWA calculation in the space below:

Maximum Applied Water Allowance: _____ gallons per year.

Estimated Total Water Use Calculation

| Hydrozone Number | Plant Water Use Type | Plant Factor (PF) | Hydrozone Area (HA) (Sq. Ft.) | PF x HA (Sq. Ft) |
|------------------|----------------------|-------------------|-------------------------------|------------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| | | | Sum of PF x HA: | |
| 6 | SLA (if applicable) | | | |

$$ETWU = 41.8 \times 0.62 \times [(\text{Sum of (PF x HA)} / \text{IE}) + \text{SLA}]$$

Insert your ETWU calculation in the space below:

Estimated Total Water Use: _____ gallons per year.

Comparison Between MAWA and ETWU

Difference between Maximum Applied Water Allowance and

Estimated Total Water Use (MAWA – ETWU): _____ gallons per year.

DEFINITIONS

as-built drawings A set of reproducible drawings which show significant changes in the work made during construction and which are usually based on drawings marked up in the field and other data furnished by the contractor.

automatic controller An automatic timing device used to remotely control valves that operate an irrigation system, using either evapotranspiration (weather-based) or soil moisture data.

backflow prevention device A safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.

certified irrigation designer A person certified to design irrigation systems by an accredited academic institution a professional trade organization or other program such as the US Environmental Protection Agency's WaterSense irrigation designer certification program and Irrigation Association's Certified Irrigation Designer program.

certified landscape irrigation auditor A person certified to perform landscape irrigation audits by an accredited academic institution, professional trade organization or other program such as the US Environmental Protection Agency's WaterSense irrigation auditor certification program or Irrigation Association's Certified Landscape Irrigation Auditor program.

check valve A valve located under a sprinkler head, or other location in the irrigation system, to hold water in the system to prevent drainage from sprinkler heads when the sprinkler is off.

compost The product of controlled biological decomposition of organic materials, often including urban plant debris and food waste. It is an organic matter resource that has the unique ability to improve the chemical, physical and biological characteristics of soils or growing media. It contains plant nutrients but is typically not characterized as a fertilizer.

drip irrigation Any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

drought resistant soil Soil that has been managed, by amending with compost and covering with mulch, for example, to maximize rainfall infiltration, increase the soil's capacity to hold water, and allow for plant roots to penetrate and proliferate such that the landscape can survive with less than optimal water (i.e. less than the Maximum Applied Water Allowance).

ecological restoration project A project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

emitter A drip irrigation emission device that delivers water slowly from the system to the soil.

established landscape The point at which plants in the landscape have developed significant root growth into the soil. Typically, most plants are established after one or two years of growth.

Estimated Total Water Use (ETWU) The total water used for the landscape as described in Section 9-4.70.7.

Evapotranspiration Adjustment factor (ETAF) A factor of 0.7, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape.

evapotranspiration rate The quantity of water evaporated from soil and other surfaces and transpired by plants during a specified time.

hardscape Any durable material (pervious and non-pervious).

hydrozone A portion of the landscaped area having plants and/or water with similar water needs, classified as high, medium, low or very low water use. A hydrozone may be irrigated or non-irrigated.

infiltration rate The rate of water entry into the soil expressed as a depth of water per unit of time (e.g., inches per hour).

Irrigation Efficiency (IE) The amount of water beneficially used divided by the amount of water applied. Not all water applied to landscapes is used by plants. Some water is lost due to runoff, wind spray, or deep percolation. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The minimum average irrigation efficiency for purposes of this ordinance is 0.71. Greater irrigation efficiency can be expected from well designed and maintained systems.

irrigation runoff Applied water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area. For example, runoff may result from water that is applied at too great a rate (application rate exceeds infiltration rate) or where there is a slope.

landscape architect A person who holds a license to practice landscape architecture in the state of California Business and Professions Code, Section 5615.

landscape area All the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, or other non-planted areas.

landscape contractor A person licensed by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

lateral line The water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

low volume irrigation The application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

main line the pressurized pipeline that delivers water from the water source to the valve or outlet.

Maximum Applied Water Allowance (MAWA) The upper limit of annual applied water for the established landscaped area. It is based upon Emeryville's Evapotranspiration Adjustment Factor and the size of the landscape area, including the Special Landscape Area.

mulch Any organic material such as leaves, arbor or wood chips, recycled wood waste, straw, compost, or inorganic mineral materials such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.

operating pressure The pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

overhead sprinkler irrigation system A system that delivers water through the air (e.g., spray heads and rotors).

overspray Irrigation water which is delivered beyond the target area.

plant factor A factor that, when multiplied by an evapotranspiration rate, estimates the amount of water needed by plants. For purposes of this ordinance the plant factor range for low water use plants is 0 to 0.3, the plant factor range for moderate water use plants is 0.4 to 0.6, and the plant factor range for high water use plants is 0.7 to 1.0. Plant factors cited in this ordinance are derived from WUCOLS.

precipitation rate The rate of application of water measured in inches per hour.

rain shutoff device A component which automatically suspends irrigation when it rains.

recreational area Areas dedicated to active play such as parks, sports fields, or informal play areas where turf provides a playing surface.

recycled water Reclaimed, treated or recycled waste water of a quality suitable for non-potable uses such as landscape irrigation and water features. This water is not intended for human consumption.

reference evapotranspiration An estimate of the evapotranspiration of a large field of four- to seven-inch tall, cool-season grass that is well watered, expressed in inches per year. Reference evapotranspiration is used as the basis of determining the Maximum Applied Water Allowance.

rehabilitated landscape Any re-landscaping project in which more than 50 percent of the existing landscape material is replaced or modified within a 12-month period in more than 50 percent of the planting area.

rootable soil volume The volume of soil in and around tree wells and planting islands that tree roots can easily utilize.

soil moisture sensor A device that measures the amount of water in the soil. The device may also suspend or initiate irrigation.

soil texture The classification of soil based on its percentage of sand, silt, and clay.

Special Landscape Area (SLA) An area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, water features using recycled water, and areas dedicated to active play such as parks, sports fields, golf courses, and informal play areas where turf provides a playing surface.

sprinkler head A device which delivers water through a nozzle.

static water pressure The pipeline or municipal water supply pressure when water is not flowing.

station An area served by one valve or by a set of valves that operate simultaneously.

swing joint an irrigation component that provides a flexible, leak-free connection between the emission device and lateral pipeline to allow movement in any direction and to prevent equipment damage.

turf A ground cover surface of mowed grass. Annual bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are cool-season grasses. Kikuyugrass, Seashore Paspalum, St. Augustinegrass, Zoysiagrass, and Buffalo grass are warm-season grasses.

valve A device used to control the flow of water in the irrigation system.

water feature A design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydrozone of the landscape area. Constructed wetlands used solely for on-site wastewater treatment or stormwater best management practices that are not irrigated are not water features and, therefore, are not subject to the water budget calculation.

WUCOLS *A Guide to Estimating Irrigation Water Needs of Landscape Plantings in California: The Landscape Coefficient Method and WUCOLS III- the Water Use Classification of Landscape Species* published by the University of California Cooperative Extension and the Department of Water Resources in 2000, or a more recent version.