



CITY OF EMERYVILLE

INCORPORATED 1896

1333 PARK AVENUE
EMERYVILLE, CALIFORNIA 94608-3517

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

September 15, 2015

Bruce Wolfe, Executive Officer
San Francisco Regional Water Quality Control Board
1515 Clay Street
Oakland, CA 94612

SUBJECT: Annual Report for Fiscal Year 2014-2015 for the City of Emeryville

Dear Mr. Wolfe:

Please find enclosed the Annual Report of Stormwater Program Implementation for the Fiscal Year 2014-2015 (months of July 2014 through June 2015). 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.

ATTACHMENT B

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Section 1 – Permittee Information

Background Information					
Permittee Name:	City of Emeryville				
Population:	10,777				
NPDES Permit No.:	CAS612008				
Order Number:	R2-2009-0074R				
Reporting Time Period (month/year):	July 2014 through June 2015				
Name of the Responsible Authority:	Carolyn Lehr			Title:	City Manager
Mailing Address:	1333 Park Avenue				
City:	Emeryville	Zip Code:	94608	County:	Alameda
Telephone Number:	(510) 596-4371		Fax Number:		
E-mail Address:	clehr@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 Avenue				
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, PCB 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:

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:

C.2.d. ► Stormwater Pump Stations						
Does your municipality own stormwater pump stations: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 stations ¹ (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.

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural ² roads:		<input type="checkbox"/>	<input checked="" type="checkbox"/> Yes
		<input checked="" type="checkbox"/>	<input 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:			

²Rural 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.

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	9/19/2015	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 three Green Streets Pilot Projects located in Alameda County (in Albany, Emeryville, Unincorporated Alameda County) have been completed. 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 included available information on the green street projects constructed within Alameda County, 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.?	Y	Yes	No
Comments (optional):			

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	<input checked="" type="checkbox"/>	No
2. Has your agency granted final discretionary approval of a project identified as a Special Project in the March 15, 2015 report? If yes, include the project in both the C.3.b.v.(1)Table, and the C.3.e.vi. Table.		Yes	<input checked="" type="checkbox"/>	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: The O&M inspections conducted showed excellent compliance with BMPs and with operator oversight and inspections.				
(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 program appears to be working well.				
(4) During the reporting year, did your agency:				
• Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
• Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls? ³	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
•	<input type="checkbox"/>		<input checked="" type="checkbox"/>	No
Not applicable. No vault systems.				

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

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 Program and BASMAA products for C.3.i implementation:

- BASMAA's site design fact sheets
- C.3 Technical Guidance Manual Appendix M
- City of Emeryville Water Efficient Landscape Ordinance (WELO) Worksheet used for site design. See attached.
- In Emeryville, C.3 has not been triggered for any small projects within the last reporting year. Small projects have been very small this past year, and have not triggered our WELO.

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											
ECCL	4727 San Pablo Avenue, San Pablo between 45 th and 53 rd Street	Emeryville USD	N/A	New and redevelopment, school and community complex	Temescal Creek	7.6	7.6	156,816	0	187,308	156,816
Shell station	1800 Powell Street at the Frontage Road	Shell Oil	N/A	Redevelopment of existing service station.	Historically part of bay	0.99	0.99	0	65,255	65,255	64,255
3900 Adeline	3900 Adeline Street at Yerba Buena	Madison Park Finance Corp.	N/A	Redevelopment of site for mixed use	Broadway Branch	1.46	1.46	0	45,910	48,950	45,910
Hyatt Place	5700 Bay Street at Christie Avenue	Ensemble Real Estate	1 of 2	Redevelopment of remediated site for hotel.	Temescal Creek	.99	.99	0	40,393	43,330	40,393
Public Projects											
None											
Comments:											

¹⁰Include cross streets

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

¹²Project 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.

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

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

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

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

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

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										
ECCL	October 2014	January 2015	Enclosed trash storage areas, storm drain stenciling, efficient landscape irrigation	Minimize impervious surfaces, maintain existing trees	Bioretention, flow-through planters, self-treating field	Recorded O&M plan	3	N/A	Yes	None. Project is in-fill development.
Shell station	June 2014	July 2014	Enclosed trash storage areas, storm drain stenciling, efficient landscape irrigation	Add C3 planters to formerly completely impervious site	Flow-through planters	Recorded O&M plan	3	N/A	Yes	None. Project is in-fill development.
3900 Adeline	September 2014	October 2014	Enclosed trash storage areas, storm drain stenciling, efficient landscape irrigation	Add C3 planters to formerly completely impervious site	Bioretention and flow-through planters	Recorded O&M plan	3	N/A	Yes	None. Project is in-fill development.
Hyatt Place	June 2014	June 2015	Enclosed trash storage areas, storm drain stenciling, efficient landscape irrigation	Add permeable pavers	Bioretention and flow-through planters	Recorded O&M plan	3	N/A	Yes	None. Project is in-fill development.
Comments:										

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

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

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

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

²¹List 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.

²²List 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.).

²³List 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.

²⁴See 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).

²⁵For 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.

²⁶For 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.

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

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

²⁹If 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).

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:										

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

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

³²List 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.

³³List 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.).

³⁴List 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.

³⁵See 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).

³⁶For 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.

³⁷For 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.

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

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

⁴⁰If 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).

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
AC Transit	1177 47 th Street	No	Wahid Amiri	6/24/15	Routine	Flow-through planter	Proper O&M	None	Monthly inspections performed by vendor and records on file. Proper O&M.
Hilton Garden Inn	1800 Powell Street	No	John Olson	6/22/15	Routine	Vegetated swale	Proper O&M	None	Landscaping conducts inspections 4 times per month, proper O&M.
Pixar	1200 Park Avenue	No	Patty Bonfillo	5/15/15	Routine	Flow-through planters	Proper O&M	None	Weekly inspections/maintenance conducted in all landscaped areas containing BMPs, proper O&M.
West Elm	5602 Bay Street	No	John Mix	3/19/15	Routine	Flow-through planters	Proper O&M	None	Monthly maintenance performed on green roof and flow-through planters, proper O&M.
Emme	64 th Street and Christie	Yes	Emme Management	4/16/15	45-day	Flow-through planters	Proper installation	None	Systems installed and maintained correctly
Shell station	1800 1/2 Powell Street	Yes	Station Operator	1/22/15	45-day	Flow-through planters	Proper installation	None	Systems installed and maintained correctly
Parc on Powell	Powell at Hollis	Yes	Parc on Powell Management	6/18/15	45-day	Flow-through planters	Proper installation	None	Systems installed and maintained correctly

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

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

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

⁴⁴State 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.

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

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

C.3.e.vi.Special Projects Reporting Table												
Reporting Period –January1 – June 30, 2015												
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

⁴⁷Date 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.

⁴⁹Type 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.

⁵¹For 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.

⁵³List 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 Controls, in the Alameda County Clean Water Program's FY 14-15 Annual Report for a description of county-wide activities. The City of Emeryville contracted with Amec Environment & Infrastructure, Inc. for fiscal year 14/15 annual inspections, and plans to do the same for FY 15/16. 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 Industrial & Illicit Discharge Committee meetings of the Clean Water Program.

C.4.b.i. ► Business Inspection Plan
Do you have a Business Inspection Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.
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.

Permittee Name: City of Emeryville

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	45	100
Total number of inspections conducted	38	78
Number of violations (excluding verbal warnings)	0	0
Sites inspected in violation	0	0%
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	N/A	N/A
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.

	Enforcement Action (as listed in ERP) ⁴⁸	Number of Enforcement Actions Taken	% of Enforcement Actions Taken⁴⁹
Level 1		0	0
Level 2		0	0
Level 3		0	0
Level 4		0	0
Total		0	0

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.

Business Category⁵⁰	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
No violations noted	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.

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

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

⁵⁰List your Program's standard business categories.

C.4.d.III ► Staff Training Summary				
Training Name	Training Dates	Topics Covered	No. of Inspectors In Attendance	Percent of Inspectors In Attendance
Stormwater Business Inspectors Workshop Honing Your Inspection Skills	6/3/15	C.4 Overview; IGP Update; Facility Sources of BMPs; Using and understanding CASQA BMP Handbook for businesses; Mock inspections Urban runoff pollution prevention Inspection procedures BMPs at Industrial and Commercial Facilities PCBs or PCB-containing equipment.	6 Five contracted inspectors from AMEC attended along with one City staff member.	100%

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 14/15. 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	0
Discharges resolved in a timely manner (C.5.f.iii.(3))	N/A	N/A
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	4
Comments:		

C.6.e.iii.1.d ▶ Construction Activities Storm Water Violations		
BMP Category	Number of Violations⁵¹ excluding Verbal Warnings	% of Total Violations⁵²
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%

⁵¹Count 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.

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

⁵³The 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.

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

	Enforcement Action (as listed in ERP) ⁵⁴	Number Enforcement Actions Issued	% Enforcement Actions Issued ⁵⁵
Level 1 ⁵⁶	Verbal Notice	2	67%
Level 2	Notice of Violation	1	33%
Level 3	Notice to Comply	0	0
Level 4	Administrative Action	0	0
Total	0	3	100%

C.6.e.iii.1.f, g ► Illicit Discharges

	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

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

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

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

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)	1	100 % ⁵⁸
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	N/A ⁵⁹
Total number of violations (excluding verbal warnings) for the reporting year⁶⁰	1	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 and notices to comply. 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: See the C.6 Construction Site Control section of Alameda County Clean Water Program's FY 14-15 Annual Report for a description of activities at the countywide or regional level. Emeryville's program has the advantage of being small and well organized, with good communication between City departments. In 14/15, the program accomplished all the necessary industrial inspections, construction and post-construction inspections, O&M inspections, and C3 plan reviews. Staff has participated in the CWP New Development Subcommittee 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.

⁵⁸Calculated 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.

⁵⁹Calculated 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.

⁶⁰The 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.

C.6.f ▶ Staff Training Summary				
Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
Inspecting C.6 BMPs & Installation Demonstration	3/5/15	Correct uses of specific BMPs Proper installation and maintenance of BMPs Permit requirements Copper Architectural BMPs.	2	67%

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 the Alameda County Clean Water Program's 2014-15 Annual Report, section C.7, for information on regional campaigns. The following separate report developed by BASMAA summarizes the activities of the Regional Youth Litter Campaign

- BASMAA Be the Street Campaign Report

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 survey for the BASMAA Regional Youth Litter Campaign was provided in the FY 11-12 Annual Report.

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

<input type="checkbox"/>	Survey report attached
<input checked="" type="checkbox"/>	Reference to regional submittal: Alameda County Clean Water Program's 2014-15 Annual Report, section C.7

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

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 14-15:

- BASMAA Media Relations Final Report FY 14-15

This report and any other media relations efforts conducted countywide is included within the C.7 Public Information and Outreach section of the Countywide Program's FY 14-15 Annual Report.

C.7.d ▶ Stormwater Point of Contact

Summary of any changes made during FY 14-15:

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><i>Grifols Earth Day</i> <i>Grifols Diagnostic Solutions Inc.</i> <i>4560 Horton Street</i> <i>Emeryville, CA 94608-USA</i></p> <p><i>Earth Day event staged by employer for employees at lunch time for 2 hours. Grifols invited various groups to participate, asking the City to provide environmentally relevant information and materials.</i></p>	<p>A lunch time Earth Day invitational event sponsored by Grifols for employees of Grifols. Grifols, a medical lab company invited the City of Emeryville to provide public education at this lunchtime event. Also e-waste disposal was made available for employees.</p> <p>City of Emeryville staff provided public education materials produced by Alameda County Clean Water Program, used Gigantic Idea's Match Game, each player 'winning' CWP re-usable grocery bag for playing.</p>	<ul style="list-style-type: none"> • An estimated 150 people attended • An estimated 150 people visited our table • At least 150 of multiple items including shopping bags, public education pieces, pencils, etc.. were distributed by City staff.

Permittee Name: City of Emeryville

<p>Stormwater Exhibit at the Alameda County Fair: July 1 through July 6, 2014 and June 17 through June 30, 2015. 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 14/15 Annual Report.</p>
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C.7.f. ► Watershed Stewardship Collaborative Efforts

All One Ocean has installed instructional boxes containing re-purposed 5 lb. mylar coffee bags that are used by volunteers to collect trash and replaced in the box. Box displays instructions for public use. One box was installed at both Shorebird Park and Point Emery, with permission of City of Emeryville. All One Ocean maintains these 2 boxes.

Summary: See Section C.7 (Public Outreach and Involvement) of the ACCWP FY 14/15 Annual Report for a summary of the *Bringing Back the Natives Garden Tours* that is sponsored by the Program.

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>City of Emeryville sponsored Earth Day Shoreline Clean Up, Saturday April 19, 2015, staged at parking lot above Emeryville's Shorebird Park. Shorebird Park, the City's hot spot, was the focus of clean up for this event, 9 a.m. to 12 noon.</p>	<p>Volunteers collected debris in bags and buckets. Clean Water Program materials were distributed. Short educational talk about debris starting at your door and importance of completing data cards.</p>	<p>Third year event was held, more targeted marketing and outreach for event this year. Event was well-received.</p> <ul style="list-style-type: none"> • 45 participants, including about 8 children. • Short shoreline of Shorebird Park. • Quantity of trash/recyclables collected .45 cubic yards. • Very similar volume of debris collected in past years

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

C.7 – Public Information and Outreach

<p>City of Emeryville sponsored Annual Coastal Clean Up Day event Saturday September 15, 2014 East Bay Regional Park property 2333 Powell St., staging area. 9 a.m. to 12 noon.</p>	<p>Local Emeryville event coinciding with and in coordination with regional and statewide Coastal Commission event. City of Emeryville Coastal Clean Up Day coincides with Statewide event coordinated by California Coastal Commission. Volunteers pick up debris along shoreline in accessible East Bay Regional Park District area, Emeryville Crescent and Point Emery, and other Emeryville shoreline.</p>	<ul style="list-style-type: none"> • About 100 people participated • .38 cubic yards of trash collected at our Shorebird Park hot spot, and an additional .45 cubic yards including other areas of shoreline. • Reusable shopping bags distributed as educational tool about disposable bags • Outcome very similar to past years, on average
<p>Community Stewardship Grants Program</p>	<p>The Countywide Program sponsors the Community Stewardship Grants (CSG) Program. The CSG Program provides approximately \$25,000 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 FY14/15 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.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
<p>See Section C.7 of the ACCWP FY 14/15 Annual Report for a summary of the Program's School-Age Outreach Program</p>			

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 14-15, we contributed through the countywide Program 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 14-15 Annual Report and the Integrated Monitoring Report.

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 Used⁶¹						
Pesticide Category and Specific Pesticide Used	Amount⁶²					
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15
Organophosphates	0	0	0	0	0	0
Product or Pesticide Type A	0	0	0	0	0	0
Product or Pesticide Type B	0	0	0	0	0	0
Pyrethroids	0	0	0	0	0	0
Product or Pesticide Type X	0	0	0	0	0	0
Product or Pesticide Type Y	0	0	0	0	0	0
Carbaryl	0	0	0	0	0	0
Fipronil	0	0	2 traps	0	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.	0
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.	N/A

⁶¹Includes all municipal structural and landscape pesticide usage by employees and contractors.

⁶²Weight 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.

C.9.d ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year?		<input checked="" type="checkbox"/> 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		
<input checked="" type="checkbox"/>	Copy of the contractors' IPM certification 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: During FY 14-15, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. For additional information, see the Regional Report submitted by BASMAA on behalf of all MRP Permittees.	

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: See the C.9 Pesticides Toxicity Control section of Program's FY 14-15 Annual Report for information on point of purchase public outreach conducted countywide and regionally.	

Permittee Name: City of Emeryville

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 14-15 Annual Report for a summary of our participation in and contributions towards countywide and regional public 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) Total number and types of full capture devices (publicly and privately-owned) installed to-date;
- 2) 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); and, compare with the total required in the permit.
- 3) 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. Describe, in particular, any devices that have trash or debris overflowed, bypassed or are not functioning properly in any other manner. Describe corrective actions.

Type of Device	# of Devices	Acres Treated in FY 14-15 by Trash Generation Category				
		Low	Moderate	High	Very High	Total
Full capture	48	1	1	6	29	37
Low Impact Development (LID)	5	0	0	4	0	4
Total for all Types	53	1	1	10	29	41
Required by Permit						21

Maintenance Summary (Describe, in particular, any devices that have trash or debris overflowed, bypassed or are not functioning properly in any other manner. Describe corrective actions).

All inlets, including those with trash capture devices, are cleaned at least annually in September/October. In addition, trash capture devices are cleared during rain events if/when flooding occurs due to clogging – typically the clogging is from organic material during the first rains of the season.

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 2014-15 to the extent possible. Also, provide additional information on creek cleanups conducted beyond those required.

Trash Hot Spot	FY 14-15 Cleanup Date(s)	Volume of Trash Removed (cubic yards)					Dominant Type(s) of Trash in FY 2014-15	Trash Sources in FY 2014-15 (where possible)
		FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15		
Shorebird Park (Part of annual Coastal Clean Up Day)	9/20/14	Not available	.08 cubic yard	.07 cubic yards	.88 cubic yards	.38 cubic yards	Plastic foam pieces, plastic pieces, cigarette butts.	
Shorebird Park Earth Day event	4/18/15	Not available	Not available	Not available	.44 cubic yards	.45 cubic yards	Plastic pieces, plastic foam pieces, cigarette butts.	

Additional Receiving Water Cleanups – If claimed as load reductions described in C.10.d – part C, describe the number and frequency of receiving water cleanups conducted in addition to those reported above. Include locations, cleanup dates, and the total volume of trash removed. Describe the overall plan, if any, associated with these additional cleanups if meant to change the trash condition of certain reaches of creeks or shorelines.

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

Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), trash generation maps, control measures, or time schedules identified in your plan.

Description of Significant Revision	Associated TMA
<p>In FY 14-15 the City conducted a preliminary analysis of trash generation categories that were originally depicted on our Trash Generation Map included in our Long-Term Trash Load Reduction Plan. The City used a combination of desktop evaluations and field observations. Trash generation categories were reclassified for areas where information indicated that errors had occurred during initial/preliminary trash generation category assignments. Reclassifications to trash generation categories were used for the purposes of calculating baseline (2009) trash generation included in this report (i.e., as an input parameter to the formula used to calculate load reductions reported in section C.10.d - Parts B and C). Additional reclassifications may occur in FY 15-16, as a result of the City's efforts to make our Baseline Trash Generation Map as accurate as possible. Our final map will be submitted consistent with the schedule included in the reissued MRP, tentatively set for adoption in late 2015.</p>	<p>1-5</p>

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
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 14-15 Annual Report.	See Section C.10 of the ACCWP FY 14-15 Annual Report.	4%
Expanded Polystyrene Food Service Ware Ordinance or Policy		"See Section C.10 of the ACCWP FY 14-15 Annual Report."	"See Section C.10 of the ACCWP FY 14-15 Annual Report."	4%
Other Source Control Actions with sufficient documentation and supporting assessment				N/A

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 generated very high (VH), high (H), moderate (M), or low (L) levels of trash in 2009, as depicted on trash generation maps;
- Identify the dominant trash source(s) and dominant type(s) of trash addressed or to-be addressed in the TMA;
- Provide the area currently treated by full capture devices, the quantity and type of devices installed to-date, and the % and acres of jurisdictional area in very high (VH), high (H), moderate (M), and low (L) generation categories that are currently treated by full capture devices in the TMA;
- 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 acres of jurisdictional area in very high (VH), high (H), moderate (M), and low (L) generation categories in areas associated with actions other than full capture devices in the TMA;
- 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.
- Provide the acres in VH, H, M or L generation categories after accounting for reduction associated with control measures other than full capture devices;
- Provide the acres in VH, H, M or L generation categories after accounting for reductions associated with ALL control measures (i.e., full capture and other actions) implemented to-date in the TMA
- Provide an estimate of the % of trash reduced in the TMA as a result of ALL control measures implemented to-date in the TMA. using the following formula:

$$\% \text{ Reduction} = 100 [(12A_{VH(2009)} + 4A_{H(2009)} + A_{M(2009)}) - (12A_{VH} + 4A_H + A_M)] / (12A_{VH2009} + 4A_{H2009} + A_{M2009})$$

where:

- $A_{VH(2009)}$ = total amount of the 2009 very high trash generation category in jurisdictional area
- $A_{H(2009)}$ = total amount of the 2009 high trash generation category in jurisdictional area
- $A_{M(2009)}$ = total amount of the 2009 moderate trash generation category in jurisdictional area
- A_{VH} = total amount of very high trash generation category in jurisdictional area in the reporting year
- A_H = total amount of high trash generation category in jurisdictional area in the reporting year
- A_M = total amount of moderate trash generation category in jurisdictional area in the reporting year
- 12 = Very High to Moderate weighing ratio
- 4 = High to Moderate weighing ratio
- 100 = fraction to percentage conversion factor

C.10 – Trash Load Reduction

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)								
TMA ID	TMA Area (Acres)	Dominant Sources	Dominant Types	Area (Acres) in Each Trash Generation Category				
				VH	H	M	L	
1	151	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 Areas (2009)	20	3	46	83
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices		Area Treated by Full Capture Devices	15	0	1	0
	16	This TMA has 27 connector pipe Screens/filters						
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption			Area Not Treated by Full Capture Devices	5	3	45	83
	<p>On-land cleanup covers most of the city 7 days a week year-round. City staff supervise a crew of 5-10 workers each day from the Sheriff's Work Opportunity Program. While the on-land cleanup itself has been ongoing since before 2009, crews are periodically re-directed to address areas of higher concern or new use/condition.</p> <p>Street sweeping was not being done in 2009, but this program has been re-started; all residential streets are swept monthly, and commercial areas are swept twice per month.</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>			Area after Accounting for Other Actions (based on assessment results)	5	3	45	83
	Assessment Methods for Control Measures Other than Full Capture Devices							
	<p>Visual assessments were physically conducted at thirteen times/locations in 2014-15 in TMA 1, with results shown in the attached table. These assessments were conducted using the methodology described in the document titled "Visual On-land Trash Assessment for Stormwater."</p>							
	Summary of Assessment Results							
Thirteen individual visual assessments conducted in 2014-15 in this TMA showed low and medium trash conditions.								
Area After Taking into Account Full Capture Devices AND Other Actions					5	3	45	83
Estimated % Trash Reduction in this TMA					62%			

C.10 – Trash Load Reduction

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)								
TMA ID	TMA Area (Acres)	Dominant Sources	Dominant Types	Area (Acres) in Each Trash Generation Category				
				VH	H	M	L	
2	147	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 Areas (2009)	6	8	20	113
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices		Area Treated by Full Capture Devices	2	6	0	1
	10	This TMA has 8 connector pipe screens/filters						
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption			Area Not Treated by Full Capture Devices	4	2	20	112
	<p><u>On-land cleanup</u> covers most of the city 7 days a week year-round. City staff supervise a crew of 5-10 workers each day from the Sheriff's Work Opportunity Program. While the on-land cleanup itself has been ongoing since before 2009, crews are periodically re-directed to address areas of higher concern or new use/condition.</p> <p><u>Street sweeping</u> was not being done in 2009, but this program has been re-started; all residential streets are swept monthly, and commercial areas are swept twice per month.</p> <p><u>Four new full trash capture devices</u> were installed in TMA 2 in 2014-15.</p> <p><u>Container management</u> 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><u>Alameda County Bag Ban</u> represents 4% drop in plastic bags found in storm drains.</p> <p><u>City of Emeryville Eco Food-ware Ordinance</u> (polystyrene banned in favor of reusable, recyclable or compostable to-go ware) represents another 4% drop in observable to-go ware litter.</p> <p><u>Storm drain clean out</u> is conducted annually in summer, before the rainy season; and additionally during the rainy season as needed.</p> <p><u>Hauler (WMAC) Franchise Contract requires covered loads</u> for trash trucks. No other truck disposal activity is based in our jurisdiction.</p>							
	Assessment Methods for Control Measures Other than Full Capture Devices							
	<p><u>Visual assessments</u> were physically conducted at eleven locations/times in 2014-15 in TMA 2, with results shown in the attached table. These assessments were conducted using the methodology described in the document titled "Visual On-land Trash Assessment for Stormwater."</p>							
	Summary of Assessment Results							
	Eleven individual visual assessments conducted in 2014-15 in this TMA showed uniformly low trash conditions.							
Estimated % Trash Reduction in this TMA				39%				

C.10 – Trash Load Reduction

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)								
TMA ID	TMA Area (Acres)	Dominant Sources	Dominant Types	Area (Acres) in Each Trash Generation Category				
				VH	H	M	L	
3	227	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.	Baseline Generation Areas (2009)	36	57	2	132
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices		Area Treated by Full Capture Devices	10	3	0	0
	13	This TMA has 10 connector pipe screens/filters and 5 LID devices						
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption			Area Not Treated by Full Capture Devices	26	54	2	132
	<p>On-land cleanup covers most of the city 7 days a week year-round. City staff supervise a crew of 5-10 workers each day from the Sheriff's Work Opportunity Program. While the on-land cleanup itself has been ongoing since before 2009, crews are periodically re-directed to address areas of higher concern or new use/condition.</p> <p>Street sweeping was not being done in 2009, but this program has been re-started; all residential streets are swept monthly, and commercial areas are swept twice per month.</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; these are rain gardens in the right-of-way, maintained by the property owner as part of the O&M Agreement for the stormwater devices on their properties.</p>			Area after Accounting for Other Actions (based on assessment results)	26	54	2	132
	Assessment Methods for Control Measures Other than Full Capture Devices							
	Visual assessments were physically conducted at eleven locations/times in 2014-15 in TMA 3, with results shown in the attached table. These assessments were conducted using the methodology described in the document titled "Visual On-land Trash Assessment for Stormwater."							
	Summary of Assessment Results							
	Eleven individual visual assessments conducted in 2014-15 in this TMA showed a mix of conditions ranging from low to high.							
Area After Taking into Account Full Capture Devices AND Other Actions				26	54	2	145	
Estimated % Trash Reduction in this TMA				20%				

C.10 – Trash Load Reduction

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)								
TMA ID	TMA Area (Acres)	Dominant Sources	Dominant Types	Area (Acres) in Each Trash Generation Category				
				VH	H	M	L	
4	102	Pedestrians, vehicles.	All types.	Baseline Generation Areas (2009)	2	8	11	81
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices		Area Treated by Full Capture Devices	2	0	0	0
	2	This TMA has 3 connector pipe screens/filters						
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption			Area Not Treated by Full Capture Devices	0	8	11	81
	<p><u>On-land cleanup</u> covers most of the city 7 days a week year-round. City staff supervise a crew of 5-10 workers each day from the Sheriff's Work Opportunity Program. While the on land cleanup itself has been ongoing since before 2009, crews are periodically re-directed to address areas of higher concern or new use/condition.</p> <p><u>Street sweeping</u> was not being done in 2009, but this program has been re-started; all residential streets are swept monthly, and commercial areas are swept twice per month.</p> <p><u>Hotspot clean-ups</u> average .83 cubic yards of trash and litter removed from the City's shoreline.</p> <p><u>Container management</u> 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><u>Alameda County Bag Ban</u> represents 4% drop in plastic bags found in storm drains.</p> <p><u>City of Emeryville Eco Food-ware Ordinance</u> (polystyrene banned in favor of reusable, recyclable or compostable to-go ware) represents another 4% drop in observable to-go ware litter.</p> <p><u>Storm drain clean out</u> is conducted annually in summer, before the rainy season; and additionally during the rainy season as needed.</p> <p><u>Hauler (WMAC) Franchise Contract requires covered loads</u> for trash trucks. No other truck disposal activity is based in our jurisdiction.</p>			Area after Accounting for Other Actions (based on assessment results)	0	8	11	81
	Assessment Methods for Control Measures Other than Full Capture Devices							
	<p><u>Visual assessments</u> were physically conducted at six locations/times in 2014-15 in TMA 4, with results shown in the attached table. These assessments were conducted using the methodology described in the document titled "Visual On-land Trash Assessment for Stormwater."</p>							
	Summary of Assessment Results							
	Six visual assessments in 2014-15 in this TMA showed low conditions throughout the area with the exception of medium and low/medium conditions near the Watergate Market and high conditions at Shorebird Park, mostly due to deposits at the high tide line. This is a hot spot for us.							
Area After Taking into Account Full Capture Devices AND Other Actions				0	8	11	81	
Estimated % Trash Reduction in this TMA				31%				

C.10 – Trash Load Reduction

C.10.d ► PART B - Trash Control Measure Implementation and Assessment (TMA Specific Actions)									
TMA ID	TMA Area (Acres)	Dominant Sources	Dominant Types		Area (Acres) in Each Trash Generation Category				
					VH	H	M	L	
5	89	Waste collection vehicles, pedestrians, occasional illegal dumping.	All types.	Baseline Generation Areas (2009)	0	17	0	71	
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices			Area Treated by Full Capture Devices	0	0	0	0
	0	There are no full capture devices installed in this TMA							
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption				Area Not Treated by Full Capture Devices	0	17	0	71
	<p>On-land cleanup covers most of the city 7 days a week year-round. City staff supervise a crew of 5-10 workers each day from the Sheriff's Work Opportunity Program. While the on-land cleanup itself has been ongoing since before 2009, crews are periodically re-directed to address areas of higher concern or new use/condition.</p> <p>Street sweeping was not being done in 2009, but this program has been re-started; all residential streets are swept monthly, and commercial areas are swept twice per month.</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>				Area after Accounting for Other Actions (based on assessment results)	0	17	0	71
	Assessment Methods for Control Measures Other than Full Capture Devices								
	<p>Visual assessments were physically conducted at six locations/times in 2014-15 in TMA 5, with results shown in the attached table. These assessments were conducted using the methodology described in the document titled "Visual On-land Trash Assessment for Stormwater."</p>								
	Summary of Assessment Results								
	Six visual assessments in 2014-15 in this TMA showed consistently low conditions throughout.								
Area After Taking into Account Full Capture Devices AND Other Actions					0	17	0	71	
Estimated % Trash Reduction in this TMA					0%				

C.10.d ► PART C – Estimated Overall Trash Load Reduction	
<p>For Population-based Permittees, provide an estimate of the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the estimate on the information presented in C.10.d – Parts A and B and receiving water cleanups not reported in C.10.b.iii.</p>	
Discussion of Trash Reduction Estimate (including Receiving Water Cleanups):	
Estimated % Trash Reduction due to Jurisdictional-wide Actions (as Reported in C.10.d – Part A)	8%
Estimated % Trash Reduction in All TMAs due to Trash Full Capture Devices (as Reported in C.10.d. – Part B)	
Estimated % Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Devices in All TMAs) (as Reported in C.10.d. – Part B)	32%
SubTotal for Above Actions	
Estimated % Trash Reduction due to Receiving Water Cleanups (All TMAs)	
Total Estimated % Trash Reduction FY 14-15	40%

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 14-15 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 FY 14-15 Countywide Program Annual Report for an estimate of the mass of mercury collected through collection and recycling efforts in the 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 countywide Program and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of Program's FY 14-15 Annual Report, Integrated Monitoring Report

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 14-15 Program Annual Report for a description of training conducted by the Program.

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 14-15 Annual Report, Integrated Monitoring Report.

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 against noncompliance

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

C.13.c ▶ Vehicle Brake Pads

The Permittees shall engage in efforts to reduce the copper discharged from automobile brake pads to surface waters via urban runoff.

Summary

See the FY 14-15 Program Annual Report for a description of activities conducted by the Program and BASMAA.

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

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 Countywide Program area.

C.13.e. Studies to Reduce Copper Pollutant Impact Uncertainties

The Permittees shall conduct or cause to be conducted technical studies to investigate possible copper sediment toxicity and technical studies to investigate sub-lethal effects on salmonids.

Summary

See the FY 14-15 Program Annual Report for a description of activities conducted by the Program and BASMAA.

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

Note: There are no reporting requirements in the FY 14-15 Annual Report for Section C.14.

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

Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:

- 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.

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. In addition, the City reduced its irrigation usage in 2014-15 ceasing irrigation in all medians and by reducing irrigation in parks and other areas by a minimum of 25%. These measures are accompanied by signage that states "Brown is the New Green." Countywide efforts are described in sections C.7 and C.9 of the ACCWP Annual Report.

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 ⁶³ (NTU)	Implemented BMPs & Corrective Actions
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

C.15.b.iii.(2) ► Unplanned Discharges of the Potable Water System⁶⁴

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) ⁶⁵	pH (standard units) ⁵²	Discharge Turbidity (Visual) ⁵²	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time ⁶⁶	Inspector arrival time	Responding crew arrival time
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁶³Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

⁶⁴This table contains all of the unplanned discharges that occurred in this FY.

⁶⁵Monitoring 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.

⁶⁶ 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.

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

Attachment A: City of Emeryville Water Efficient Landscape Ordinance and Worksheet

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)			

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

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.

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

Attachment B: Facilities Requiring Inspections

Emeryville Facilities for Industrial Inspection

Name	Address	Inspection Frequency	Category
4th Street Woodworking Company	1266 45th St	1 insp. / 3 yrs.	Manufacturing
AA Glass Shop	1487 67th St	1 insp. / 3 yrs.	Manufacturing
AC Transit Emeryville	1177 47th St	1 insp. / 1 yrs.	Fleet Operations
Acrylic Art Inc	1290 45th St	1 insp. / 5 yrs.	Commercial
Admac Pre-Press Company	1464 67th St	1 insp. / 3 yrs.	Commercial
AMC Bay Street 16 Theater	5614 Bay St	1 insp. / 5 yrs.	Commercial
Amtrak Train Station	5885 Horton St	1 insp. / 3 yrs.	Fleet Operations
Arizmendi Bakery & Pizzeria	4801 San Pablo Ave	1 insp. / 5 yrs.	Food Service
At Printing	5515 Doyle St	1 insp. / 5 yrs.	Commercial
Bacchus Press, Inc	1287 66th St	1 insp. / 3 yrs.	Commercial
Bank Club Café	3900 San Pablo Ave	1 insp. / 5 yrs.	Food Service
Baskin Robbins	1199 40th St	1 insp. / 3 yrs.	Food Service
Bay Area Boat Spa	3310 Powell St	1 insp. / 1 yrs.	Boat Cleaning and Detailing
Bay Street Emeryville	5616 Bay St	1 insp. / 5 yrs.	Commercial
Bayer - Bldg Z	5650 Hollis St Building Z	1 insp. / 5 yrs.	Food Service
Bayer Health Care Pharmaceuticals, PDU	4595 Horton St.	1 insp. / 1 yrs.	Laboratory
Bayer Healthcare Pharmaceutical - Bldg D	4510 Horton St Bldg D	1 insp. / 1 yrs.	Laboratory
Bayer VN/VS	4225 Horton St	1 insp. / 3 yrs.	Laboratory
Bienvenidos	1320 65th St	1 insp. / 5 yrs.	Food Service
Boyds Body Shop	1245 Powell St	1 insp. / 1 yrs.	Vehicle Service
Burger King	5701 Christie Ave	1 insp. / 3 yrs.	Food Service
Cabuccis	5858 Horton St	1 insp. / 5 yrs.	Food Service
Café Aquarius	1298 65th St	1 insp. / 5 yrs.	Food Service
Carrie Dove Catering	1552 Beach St #C	1 insp. / 3 yrs.	Food Service
Chevron	1400 Powell St	1 insp. / 3 yrs.	Gas Station
Chevys	1890 Powell St	1 insp. / 1 yrs.	Food Service
City of Emeryville Senior Center	4321 Salem St	1 insp. / 5 yrs.	Food Service
Coffee and Snack Shop	5980 Horton St	1 insp. / 5 yrs.	Food Service
Come Back Café	6009 Christie Ave	1 insp. / 5 yrs.	Food Service
Co-Op Kitchen	6613 Hollis St	1 insp. / 5 yrs.	Food Service
Coulter Steel And Forge	1494 67th St	1 insp. / 1 yrs.	Commercial
Courtyard By Marriot	5555 Shellmound St	1 insp. / 3 yrs.	Food Service
Denny's	1776 Powell St	1 insp. / 2 yrs.	Food Service
Diversified Properties	5890 Christie Ave	1 insp. / 5 yrs.	Property Management
Doyle Street Cafe	5515 Doyle St	1 insp. / 3 yrs.	Food Service
Electrosail, LLC	3300 Powell St	1 insp. / 1 yrs.	Boat Charter
Emery Bay 76	1700 Powell St	1 insp. / 5 yrs.	Gas Station
Emery Bay Café	5857 Christie Ave	1 insp. / 3 yrs.	Food Service
Emery Bay Deli	1400 Powell St	1 insp. / 5 yrs.	Food Service
Emery Bay/Emeryville Public Market	5959 Shellmound St	1 insp. / 3 yrs.	Food Service
Emeryville Market Office Towers	6001 Shellmound St	1 insp. / 5 yrs.	Property Management
Emeryville Market Place Tower	6001 Shellmound St	1 insp. / 5 yrs.	Property Management
Emeryville Shell	1800 Powell St	1 insp. / 5 yrs.	Gas Station
Emeryville Sportfishing	3310 Powell St	1 insp. / 3 yrs.	Commercial
Engine World	1489 67th St	1 insp. / 3 yrs.	Vehicle Service
European Auto Salvage	4060 Harlan St	1 insp. / 5 yrs.	Vehicle Service
Federal Express Corp	1600 63rd St	1 insp. / 1 yrs.	Fleet Operations
Four Points Hotels By Sheraton	1603 Powell St	1 insp. / 3 yrs.	Property Management
Gasket Specialists	6200 Hollis St	1 insp. / 5 yrs.	Commercial
Hilton Garden Inn	1800 Powell St	1 insp. / 5 yrs.	Property Management
Home Depot	3838 Hollis St	1 insp. / 2 yrs.	Retail

Emeryville Facilities for Industrial Inspection

Hong Kong East Ocean	3199 Powell St	1 insp. / 1 yrs.	Food Service
Hyatt House	5800 Shellmound St	1 insp. / 3 yrs.	Property Management
IHOP	4101 San Pablo Ave	1 insp. / 1 yrs.	Food Service
Ikea	4400 Shellmound St	1 insp. / 3 yrs.	Retail
Jamba Juice	5761 Christie Ave	1 insp. / 5 yrs.	Food Service
Julie Holocomb Printers	1601 63rd St	1 insp. / 5 yrs.	Commercial
KFC	4501 San Pablo Ave	1 insp. / 3 yrs.	Food Service
Kyu Express	6485 Hollis St	1 insp. / 1 yrs.	Food Service
Lanesplitter	3645 San Pablo Ave	1 insp. / 3 yrs.	Food Service
Los Cantaros Taqueria #2	4115 San Pablo Ave	1 insp. / 3 yrs.	Food Service
Mediterraneo	1552 Beach St #D	1 insp. / 3 yrs.	Food Service
Metalco	1475 67th St	1 insp. / 5 yrs.	Manufacturing
Mojo's Motors, Llc	1316 67th St, #6	1 insp. / 1 yrs.	Vehicle Service
Novartis - Bldg 12a	5353 Horton St	1 insp. / 1 yrs.	Property Management
Novartis - Bldg H	5301 Horton St. Building	1 insp. / 3 yrs.	Laboratory
Novartis - Bldg N	4560 Horton St. Building	1 insp. / 1 yrs.	Laboratory
Novartis, Bldg E (Chiron Circle Café)	4560 Horton St	1 insp. / 5 yrs.	Food Service
Novartis, Bldg G&T	1400 53rd St Building Mgt	1 insp. / 3 yrs.	Laboratory
Oaks Corner/Oaks Club	4099 San Pablo Ave	1 insp. / 3 yrs.	Food Service
O'oto	1399 64th St	1 insp. / 3 yrs.	Commercial
Pak-N-Save Store #3125	3889 San Pablo Ave	1 insp. / 1 yrs.	Grocery Store
Pan Pacific Commercial Link, Inc.	1900 Powell St, #6044	1 insp. / 5 yrs.	Exporter
Paula Le Duc Catering	1350 Park Ave	1 insp. / 5 yrs.	Food Service
Paulding & Co.	1410 62nd St	1 insp. / 3 yrs.	Food Service
Perfection Ltd. Body Shop	1355 Park Ave	1 insp. / 3 yrs.	Vehicle Service
PF Chang	5633 Bay St	1 insp. / 3 yrs.	Food Service
PG&E - Emeryville Repair Shop	4525 Hollis St	1 insp. / 5 yrs.	Utility
Pictopia Inc	1300 66th St	1 insp. / 3 yrs.	Commercial
Pixar	1200 Park Ave	1 insp. / 5 yrs.	Commercial
Plum Screen Printing	1308 63rd St	1 insp. / 1 yrs.	Commercial
R & L Warehouse (Rypins Lipinski Assoc)	1490 66th St	1 insp. / 3 yrs.	Commercial
Radiant Genomics, Inc.	5858 Horton St, #335	1 insp. / 3 yrs.	Laboratory
Robas Pizza Cafe	2320 Powell St	1 insp. / 3 yrs.	Food Service
Roller Press, Inc	6647 Hollis St	1 insp. / 3 yrs.	Commercial
Rotten City Pizza	6613 Hollis St	1 insp. / 3 yrs.	Food Service
Rubicon Yachts, LLC	3300 Powell St, #105	1 insp. / 3 yrs.	Commercial
Rubys CAFÉ	6233 Hollis St	1 insp. / 3 yrs.	Food Service
Rudys Can't Fail Cafe	4081 Hollis St	1 insp. / 3 yrs.	Food Service
Scarlet City, LLC	3960 Adeline St	1 insp. / 3 yrs.	Food Service
Scends Restaurant	3627 San Pablo Ave	1 insp. / 3 yrs.	Food Service
Seaward Coastal Ventures, Inc.	3300 Powell St	1 insp. / 3 yrs.	Commercial
Soup Freaks	1900 Powell St	1 insp. / 3 yrs.	Food Service
Star Machining	5835 Doyle St	1 insp. / 3 yrs.	Vehicle Service
Starbucks #8912	1405 65th St	1 insp. / 5 yrs.	Food Service
Starbucks Coffee #5601	5767 Christie Ave	1 insp. / 5 yrs.	Food Service
Subway #25529	5858 Horton St	1 insp. / 5 yrs.	Food Service
Subway #36635	6475 Hollis St	1 insp. / 5 yrs.	Food Service
Summer Summer Thai	5885 Hollis St	1 insp. / 3 yrs.	Food Service
Taco Bell	3839 Emery St	1 insp. / 5 yrs.	Food Service
The Chalet	1411 Powell	1 insp. / 1 yrs.	Food Service
The Moto Dojo	1052 Watts St	1 insp. / 5 yrs.	Dojo
TNTS	1552 Beach St #A	1 insp. / 3 yrs.	Commercial
Togos Eatery	5751 Christie Ave	1 insp. / 5 yrs.	Food Service
Townhouse Bar And Grill	5862 Doyle St	1 insp. / 5 yrs.	Food Service

Emeryville Facilities for Industrial Inspection

Trader Joes	5700 Christie Ave	1 insp. / 5 yrs.	Grocery Store
Trader Vics	9 Anchor Dr	1 insp. / 1 yrs.	Food Service
United Artists	6330 Christie Ave	1 insp. / 3 yrs.	Commercial
Uptown Cafe & Bar	4336 San Pablo	1 insp. / 3 yrs.	Food Service
Wallys Cafe	3900 San Pablo Ave	1 insp. / 3 yrs.	Food Service
Watergate Market	2390 Powell St	1 insp. / 1 yrs.	Mini-Market
Wild, Wild Salmon	6043 Christie Ave	1 insp. / 1 yrs.	Commercial Food Service
Wilson Associates	1501 Powell St	1 insp. / 1 yrs.	Property Management

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

Attachment C: Facilities Inspected in FY 2014-15

**2014-2015 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
45	10	45	0	0	0	0	1	0	38

Facilities with Enforcement											
Name of Facility	Date	Time	Site Address	Contact Name	Contact Phone	Business Type	Enforcement	Discharge Observed	Action Required ¹	Summary of Violation	
--	--	--	--	--	--	--	--	--	--	--	--

Facilities with First Priority for Reinspection									
Name of Facility	Date	Time	Site Address	Contact Name	Contact Phone	Business Type	Enforcement	Discharge Observed	Action Required
Coulter Forge Technology	6/29/2015	9:53 AM	1494 67th Street	Joseph Holmes	5104203500	Commercial			

Facilities with Second Priority for Reinspection									
Name of Facility	Date	Time	Site Address	Contact Name	Contact Phone	Business Type	Enforcement	Discharge Observed	Action Required
--	--	--	--	--	--	--	--	--	--

Facilities with Third Priority for Reinspection									
Name of Facility	Date	Time	Site Address	Contact Name	Contact Phone	Business Type	Enforcement	Discharge Observed	Action Required
AC Transit Emeryville	6/24/2015	10:30 AM	1177 47th Street	Wahid Amiri	5108914981	Fleet Operations	None	--	--
Acrylic Art, Inc.	4/20/2015	10:36 AM	1290 45th Street	Jeff Schnur	5106540953	Commercial	None	--	--
Bacchus Press, Inc.	5/13/2015	11:44 AM	1287 66th Street	Jerry Blueford	5104205800	Commercial	None	--	--
Boyd's Body Shop	5/11/2015	11:53 AM	1245 Powell Street	Bob Ghaziani	5106540925	Vehicle Service	None	--	--
Burger King	5/13/2015	11:17 AM	5701 Christie Avenue	Isauro Campos	5104201295	Food Service	None	--	--
Chevys	5/11/2015	11:32 AM	1890 Powell Street	Scott Devros	5106538210	Food Service	None	--	--
Dennys	4/20/2015	2:27 PM	1776 Powell Street	Sherry Schmidt	5106587950	Food Service	None	--	--
Emery Bay 76	4/20/2015	2:01 PM	1700 Powell Street	Ken Tabrizi	5106550809	Gas Station	None	--	--
Emery Bay Cafe	5/11/2015	10:23 AM	5857 Christie Avenue	Richard Lee	5106529269	Food Service	None	--	--
Emery Bay/Emeryville Public Market	4/20/2015	1:31 PM	5959 Shellmound Street	Kathy Dowdall	5106525852	Food Service	None	--	--
Federal Express Corp	4/20/2015	9:42 AM	1600 63rd Street	Jonathan Mickens	5105478503	Fleet Operations	None	--	--
Gasket Specialists	4/22/2015	1:52 PM	6200 Hollis Street	Luis Caratachae	5105477955	Commercial	None	--	--
Grifols, Bldg 12A	4/22/2015	11:10 AM	5353 Horton Street	Ann Marie Madera	5109235635	Laboratory	None	--	--
Grifols, Bldg D	4/22/2015	11:12 AM	4510 Horton Street, Building D	Ann Marie Madera	5109235735	Laboratory	None	--	--
Grifols, Bldg F	4/22/2015	11:15 AM	1403 Stanford Avenue, Building F	Ann Marie Madera	5109235635	Laboratory	None	--	--
Grifols, Bldg N	4/22/2015	10:26 AM	4560 Horton Street, Building D	Ann Marie Madera	5109235635	Laboratory	None	--	--
Home Depot	4/21/2015	10:31 AM	3838 Hollis Street	Joe McCauley	5106019400	Retail	None	--	--
Hong Kong East Ocean	5/13/2015	2:11 PM	3199 Powell Street	Edith Lu	5106553388	Food Service	None	--	--
Honor Kitchen & Cocktails	6/25/2015	10:19 AM	1411 Powell	Mike Jarrette	5106538667	Food Service	None	--	--
Hyatt House	4/20/2015	11:34 AM	5800 Shellmound Street	Jacob Clark	5106015880	Property Management	None	--	--
IHOP	5/14/2015	10:48 AM	4101 San Pablo Avenue	Juan Garcia	5106010310	Food Service	None	--	--
Julie Holcomb Printers	5/11/2015	10:56 AM	1601 63rd Street	Drew Ocon	4158817386	Commercial	None	--	--
KYU Express	5/14/2015	1:57 PM	6485 Hollis Street	Nongnuch Salack	5107359439	Food Service	None	--	--
Mojos Motors, LLC	5/13/2015	12:16 PM	1316 67th Street, #6	Phillip Tran	5105166567	Auto Dealer	None	--	--
Novartis, Bldg H	4/22/2015	11:44 AM	1400 53rd Street, Building MGT	Kristine M. Muller	5109238089	Laboratory	None	--	--
Pak-N-Save #3125	4/21/2015	11:29 AM	3889 San Pablo Avenue	Angelina Green	5104501200	Grocery Store	None	--	--
Pan Pacific Commercial Link, Inc.	5/14/2015	11:07 AM	1900 Powell Street, #6044	Jing Feng Zhu	5105888836	Auto Dealer	None	--	--
Plum Screen Printing	5/11/2015	12:20 PM	1308 63rd Street	David Smith	5106587438	Commercial	None	--	--
Radiant Genomics, Inc.	5/14/2015	11:42 AM	5858 Horton Street, #335	Oliver Liu	6464507332	Research	None	--	--
Rubicon Yachts, LLC	5/11/2015	1:49 PM	3300 Powell Street, #105	Mic Melger	5106015010	Boat Dealer	None	--	--
Scarlet City, LLC	4/21/2015	1:21 PM	3960 Adeline Street	Susana Handow	5105935301	Food Service	None	--	--
Seaward Coastal Ventures, Inc.	5/11/2015	1:58 PM	3300 Powell Street	Paul Records	4159062888	Boat Charters	None	--	--
Trader Vics	5/13/2015	1:50 PM	9 Anchor Drive	Jonathan Roman	5106533400	Food Service	None	--	--
Watergate Market	5/11/2015	1:31 PM	2390 Powell Street	Hung Nguyen	5106552550	Grocery Store	None	--	--

**2014-2015 Inspections Summary
City of Emeryville Stormwater Inspections
Emeryville, California**

Closed Facilities			
Name of Facility	Date	Time	Site Address
AA Glass Shop	5/13/2015	1:16 PM	1487 67th Street
Access Print	5/11/2015	10:35 AM	1306 65th Street
Bay Area Boat Spa	5/13/2015	11:05 AM	3310 Powell Street
Bayer Health Care Pharmaceutical, Cmf	4/22/2015	12:12 PM	5327 Horton Street
Bayer, Bldg Z	4/22/2015	12:24 PM	5650 Hollis Street, Building Z
California Contract Company	5/11/2015	10:46 AM	1468 66th Street
Custom Woodcraft & Plastics	4/20/2015	10:28 AM	4514 Hollis Street
Electrosail, LLC	6/25/2015	9:52 AM	3300 Powell Street
The Moto Dojo	4/21/2015	12:01 PM	1052 Walls Street
Wild, Wild Salmon	5/14/2015	1:42 PM	6043 Christie Avenue

Notes:

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

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Permittee Name: City of Emeryville

Attachment D: Planned Inspections for FY 2015-16

**City of Emeryville
Planned Inspections 2015-16**

Facility	Address	Business Category
4th Street Woodworking	1266 45th St	Manufacturing
AC Transit Emeryville	1177 47th St	Fleet Operations
Amtrak Train Station	5885 Horton Street	Fleet Operations
Bayer Healthcare Pharmaceutical - Bldg D	4510 Horton St Bldg D	Laboratory
Bayer Healthcare Pharmaceutical - Bldg D	4510 Horton St Bldg D	Laboratory
Bayer VN/VS	4225 Horton Street	Laboratory
Boyd's Body Shop	1245 Powell St	Vehicle Service
Chevron	1400 Powell St	Gas Station
Chevy's	1890 Powell St	Food Service
Coulter Steel And Forge	1494 67th St	Commercial
Emeryville Sportfishing	3310 Powell St	Commercial
Federal Express Corp	1600 63rd St	Fleet Operations
Four Points Hotels By Sheraton	1603 Powell St	Property Management
Grifos (Novartis) - Bldg 12A	5353 Horton Street	Property Management
Grifos (Novartis) - Bldg F	1403 Stanford Ave Building F	Laboratory
Grifos (Novartis) - Bldg N	4560 Horton St. Building N	Laboratory
Hong Kong East Ocean	3199 Powell St	Food Service
IHOP	4101 San Pablo Ave	Food Service
KFC	4501 San Pablo Ave	Food Service
Oaks Corner/Oaks Club	4099 San Pablo Ave	Food Service
PF Chang	5633 Bay St	Food Service
Pak-N-Save Store #3125	3889 San Pablo Ave	Grocery Store
Plum Screen Printing	1308 63rd St	Commercial
Rotten City Pizza	6613 Hollis Street	Food Service
Scends Restaurant	3627 San Pablo Ave	Food Service
Star Machining	5835 Doyle St	Vehicle Service
Summer Summer Thai	5885 Hollis Street	Food Service
The Chalet	1411 Powell	Food Service
Trader Vics	9 Anchor Dr	Food Service
Watergate Market	2390 Powell St	Mini-Market

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

Attachment E: Integrated Pest Management Certification for Contractor, New Image Landscaping

CITY OF PLEASANT HILL BUSINESS LICENSE

ISSUED: 10/15/14
EXPIRES: 10/15/15

PEST IN A CONSPICUOUS PLACE

NOT TRANSFERABLE

1047 PALMS VERDES MALL #409
WALNUT CREEK, CA 94597

dpr CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION
1901 STREET
SACRAMENTO, CALIFORNIA 95814

ISSUED: January 01, 2015
EXPIRES: December 31, 2016

PEST CONTROL-BUSINESS MAIN LICENSE
LICENSE NO. 53224

BEST INDOOR/OUTDOOR PEST SOLUTIONS
1047 PALMS VERDES MALL #409
WALNUT CREEK, CA 94597

BEST INDOOR/OUTDOOR PEST SOLUTIONS
1047 PALMS VERDES MALL #409
WALNUT CREEK, CA 94597

dpr California Department of Pesticide Regulation

Structural Pest Control Board

ORIGINAL CERTIFICATE

Company Registration
General Pest and Termites

REGISTRATION PN 9138
ISSUE DATE: SEPTEMBER 15, 2006

BEST INDOOR OUTDOOR PEST SOLUTIONS
1047 PALMS VERDES MALL #409
WALNUT CREEK, CA 94597

www.ecowisecertified.org **eco wise** 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
(only at www.ecowisecertified.org)

Cell Stranded
Senior Regional Director
Association of Bay Area Governments

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

William Gorder
William Gorder
Program Manager
EcoWise Certified

Structural Pest Control Board

Operator
GENERAL PEST
TERMITES

LICENSE NO. DPR 8855
ISSUE DATE: APRIL 20, 1999

RANDAL JEAN WILLIAMS
PO BOX 2454
WALNUT CREEK, CA 94595

This certificate shall be issued to the individual named above as limited to operate in accordance with the provisions of Chapter 14 of Division 4 of the Statutes and Regulations Code.

This license is non-transferable and shall remain the property of the Structural Pest Control Board and shall be surrendered as and stored at any time upon demand pending final action as to suspension, revocation, or renewal of same. It is not refundable.

Structural Pest Control Board
2000 Serrano Blvd., Suite 100
Sacramento, CA 95825

OPERATOR
Randal Jean Williams
1047 PALMS VERDES MALL #409
WALNUT CREEK, CA 94597

REGISTRATION PN 9138

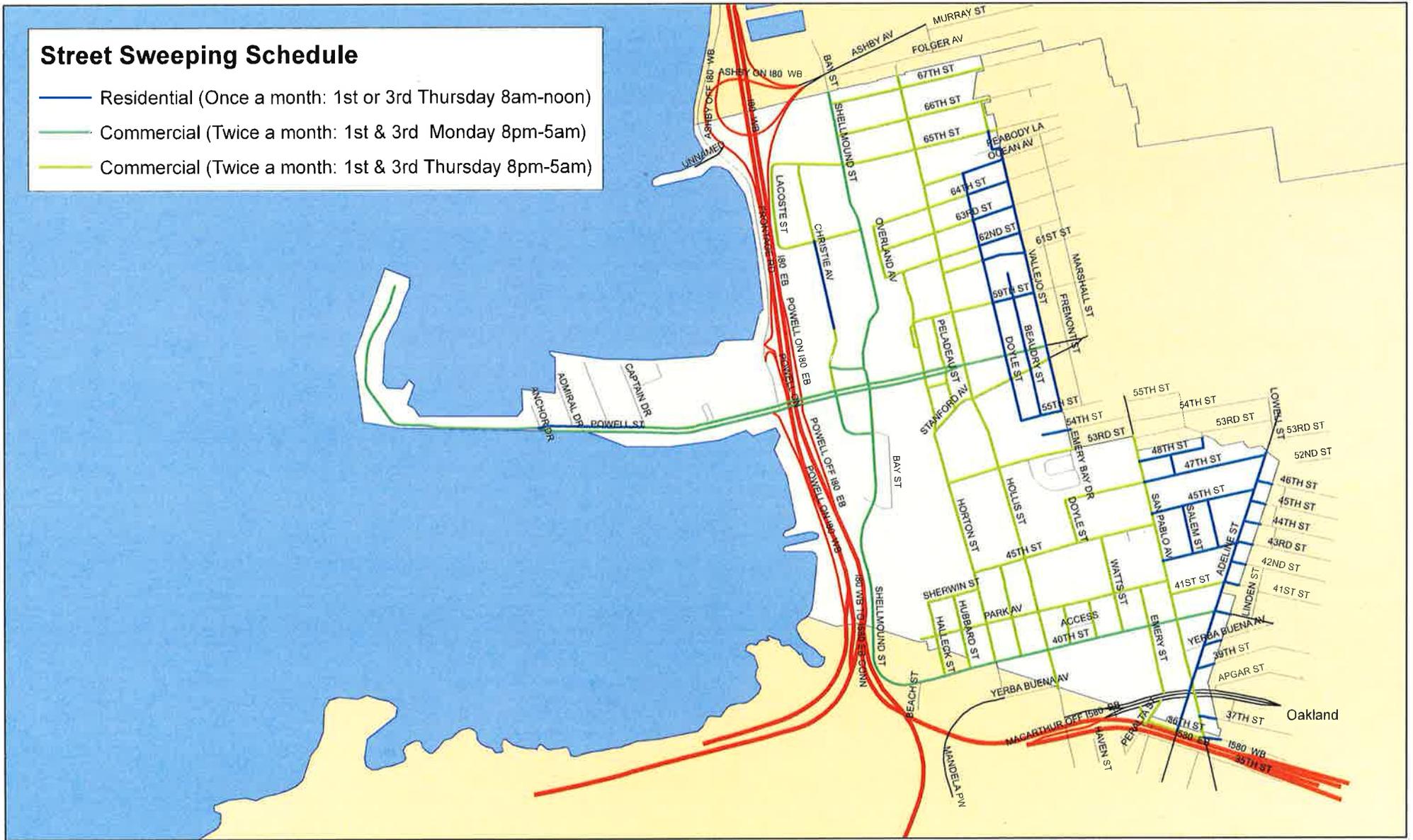
FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

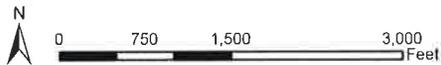
Attachment F: Street Sweeping Route Map

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)



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



EMERYVILLE STREET SWEEPING

DEPARTMENT OF PUBLIC WORKS
 1333 PARK AVENUE
 EMERYVILLE, CALIFORNIA

FY 2014-2015 Annual Report

Permittee Name: City of Emeryville

Attachment G: Visual Assessment Findings

Visual Trash Assessments 2014-15

Agency Name City of Emeryville

Assessment Date	Assessment Area Description	TMA	Assessment 1	Rating 1	Assessment 2	Rating 2	Assessment 3	Rating 3	Assessment 4	Rating 4
Jan-15	40th Street at Hollis	1	1/15/2015	Medium (B)	4/16/2015	Medium (B)	6/23/2015	Low/Medium (A/B)		
Jan-15	Halleck between Park and Sherwin Streets	1	1/15/2015	Low (A)	3/19/2015	Low (A)	6/23/2015	Low (A)		
Jan-15	Shellmound Street/Volvo Site	1	1/15/2015	Medium (B)	3/19/2015	Medium (B)	4/16/2015	Medium/High (B/C)	6/23/2015	Medium (B)
Jan-15	Sherwin between Halleck and Horton Streets	1	1/15/2015	Low (A)	3/19/2015	Low (A)	6/23/2015	Medium (B)		
3/19/2015	5900 Hollis Street	2	3/19/2015	Low (A)	6/23/2015	Low (A)				
3/19/2015	6100 Hollis Street	2	3/19/2015	Low (A)	6/23/2015	Low (A)				
Jan-15	67th Street from Shellmound to Hollis	2	1/15/2015	Low (A)	3/19/2015	Low (A)	6/23/2015	Low (A)		
Jan-15	Hollis Street from Park to 45th	2	1/15/2015	Low (A)	4/16/2015	Low (A)	6/23/2015	Low (A)	6/23/2015	Low (A)
Jan-15	40th Street at San Pablo Avenue	3	1/15/2015	High (C)	4/16/2015	High (C)	6/23/2015	High (C)		
Jan-15	45th at San Pablo	3	1/15/2015	Medium (B)	6/23/2015	High (C)				
Jan-15	45th between Hollis and San Pablo (except within 100' of SP)	3	1/15/2015	Low (A)	6/23/2015	Low (A)				
Jan-15	45th east of San Pablo	3	1/15/2015	Medium (B)	6/23/2015	High (C)				
Jan-15	San Pablo near 47th Street	3	1/15/2015	Medium (B)	6/23/2015	Medium (B)				
4/16/2015	Powell Street at Captain Drive	4	4/16/2015	Medium (B)	6/23/2015	Low/Medium (A/B)				
Not documented	Powell Street near frontage road	4	9/17/2014	Medium (B)						
6/23/2015	Powell Street near Marina	4	6/23/2015	Low (A)						
Not documented	Shorebird Park	4	9/17/2014	High (C)	4/22/2015	High (C)				
3/19/2015	5900 Hollis Street	5	3/19/2015	Low (A)	6/23/2015	Low (A)				
3/19/2015	6100 Hollis Street	5	3/19/2015	Low (A)	6/23/2015	Low (A)				
Jan-15	Hollis Street from Park to 45th	5	1/15/2015	Low (A)	4/16/2015	Low (A)	6/23/2015	Low (A)	6/23/2015	Low (A)