



ALAMEDA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION  
DISTRICT

MEMBER AGENCIES:

Alameda  
Albany  
Berkeley  
Dublin  
Emeryville  
Fremont  
Hayward  
Livermore  
Newark  
Oakland  
Piedmont  
Pleasanton  
San Leandro  
Union City  
County of Alameda  
Alameda County Flood  
Control and Water  
Conservation District  
Zone 7 Water Agency

FISCAL YEAR  
2014-2015 ANNUAL  
REPORT OF  
STORMWATER  
PROGRAM  
IMPLEMENTATION

Submitted to:  
California Regional Water  
Quality Control Board, San  
Francisco Bay Region



September 14, 2015

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

SUBJECT: Annual Report for Fiscal Year 2014-2015 for the Alameda County Flood Control and Water Conservation District.

Dear Mr. Wolfe:

Enclosed herewith is the subject 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.

Yours truly,

*D* Daniel Woldesenbet, Ph.D., P.E.  
Director of Public Works

DW:SG  
Enc.

**FY 2014-2015 Annual Report**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

**ATTACHMENT B**

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Permittee Name: Alameda County Flood Control and Water Conservation District

Section 1 – Permittee Information

Background Information				
<b>Permittee Name:</b>	Alameda County Flood Control and Water Conservation District			
<b>Population:</b>	NA			
<b>NPDES Permit No.:</b>	CAS612008			
<b>Order Number:</b>	R2-2009-0074R			
<b>Reporting Time Period (month/year):</b>	July 2014 through June 2015			
<b>Name of the Responsible Authority:</b>	Daniel Woldesenbet	<b>Title:</b>	Director of Public Works	
<b>Mailing Address:</b>	399 Elmhurst Street			
<b>City:</b>	Hayward	<b>Zip Code:</b>	94544	<b>County:</b> Alameda
<b>Telephone Number:</b>	510-670-5455	<b>Fax Number:</b>	510-670-5541	
<b>E-mail Address:</b>	daniel@acpwa.org			
<b>Name of the Designated Stormwater Management Program Contact (if different from above):</b>	Sharon Gosselin	<b>Title:</b>	Stormwater Program Manager Associate ECS	
<b>Department:</b>	Engineering/Clean Water Unit			
<b>Mailing Address:</b>	399 Elmhurst Street			
<b>City:</b>	Hayward	<b>Zip Code:</b>	94544	<b>County:</b> Alameda
<b>Telephone Number:</b>	510-670-6547	<b>Fax Number:</b>	510-670-5262	
<b>E-mail Address:</b>	sharon@acpwa.org			

Permittee Name: Alameda County Flood Control and Water Conservation District

Section 2 - Provision C.2 Reporting Municipal Operations

**Program Highlights and Evaluation**  
 Highlight/summarize activities for reporting year:

Summary:  
 Staff continued to participate in the CWP M&O subcommittee. Eleven County/District staff attended the CWP Full-Day training "Innovations in Municipal Maintenance" workshop on October 29, 2014.

**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.

NA	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
NA	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.
NA	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.

NA	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
NA	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

Permittee Name: Alameda County Flood Control and Water Conservation District

**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:  **Yes**  **No**

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

Complete the following table for dry weather DO monitoring and inspection data for pump stations<sup>1</sup> (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
Roberts Landing – 15670 Anchorage, San Leandro	7/14/14	5.0	9/14/14	5.0
Belvedere – 2480 Belvedere, San Leandro	7/14/14	6.0	9/14/14	4.0
D-1 - 2048 Farrallon, San Leandro	7/14/14	8.0	9/14/14	6.0
F – 2603 Fairway Dr. San Leandro	7/14/14	8.0	9/14/14	5.0
H – 13203 Monarch Bay Dr. San Leandro	7/14/14	5.0	9/14/14	5.0
Alvarado – 31269 Veasy St. Hayward	7/14/14	4.0	9/14/14	8.0

<sup>1</sup> 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.

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Ameron – 1990 Industrial Parkway West, Hayward	7/14/14	6.0	9/14/14	5.0
Besco – 29950 Hesperian Blvd. Hayward	7/14/14	8.0	9/14/14	8.0
Eden Landing – 3599 Arden Rd. Hayward	7/14/14	8.0	9/14/14	6.0
Stratford – 1898 Pacheco Wy. Hayward	7/14/14	5.0	9/14/14	5.0
Ruus – 29560 Ruus Rd. Hayward	7/14/14	8.0	9/14/14	6.0
Industrial – 1200 Industrial Parkway West, Hayward	7/14/14	8.0	9/14/14	6.0
Sulphur Creek – 19105 Barrington Ct. Hayward	7/14/14	6.0	9/14/14	7.0
J-2 – 4588 Delores Dr. Union City	7/14/14	9.0	9/14/14	8.0
J-3 – 32000 Union City Blvd. Union City	7/14/14	7.0	9/14/14	8.0
Westview – 32110 Alvarado-Niles Rd. Union City	7/14/14	8.0	9/14/14	8.0
Eden Shores – 2690 Eden Park Pl. Union City	7/14/14	9.0	9/14/14	7.0
McKillop – no address – Ground water not a stromwater sta. - Oakland	7/14/14	8.0	9/14/14	8.0
Ettie - Street – 3455 Ettie Street - Oakland	7/18/14	8.0	9/14/14	7.0

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

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)
Alvarado -31269 Veasy St. Hayward	9/25/14	0.0 CY	No	Yes	Yes	No
Alvarado -31269 Veasy St. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Ameron – 1990 Industrial Parkway West, Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Ameron – 1990 Industrial Parkway West, Hayward	12/4/14	0.0 CY	No	Yes	Yes	No
Belvedere -2480 Belvedere, San Leandro	9/25/14	0.0 CY	No	Yes	Yes	No
Belvedere -2480 Belvedere, San Leandro	10/28/14	0.0 CY	Yes	Yes	Yes	No
Besco – 29950 Hesperian Blvd. Hayward	9/25/14	0.0 CY	No	Yes	Yes	No
Besco – 29950 Hesperian Blvd. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
D-1 – 2048 Farrallon, San Leandro	9/25/14	0.0 CY	No	Yes	Yes	No
D-1 – 2048 Farrallon, San Leandro	10/28/14	0.0 CY	No	Yes	Yes	No
Eden Landing – 3599 Arden Rd. Hayward	9/25/14	0.0 CY	No	Yes	Yes	No

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**C.2 – Municipal Operations**

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Eden Landing – 3599 Arden Rd. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Eden Landing – 3599 Arden Rd. Hayward	12/5/14	0.0 CY	No	Yes	Yes	No
Eden Shores- 2690 Eden Park Pl. Union City	9/25/14	0.0 CY	No	Yes	Yes	No
Eden Shores- 2690 Eden Park Pl. Union City	10/27/14	0.0 CY	No	Yes	Yes	No
Ettie Street -3455 Ettie St. Oakland	9/25/14	0.0 CY	No	Yes	Yes	No
Ettie Street -3455 Ettie St. Oakland	10/28/14	2.0 CY	No	Yes	Yes	No
Ettie Street -3455 Ettie St. Oakland	11/24/14	5.0 CY	No	Yes	Yes	No
F – 2603 Fairway Dr. San Leandro	9/25/14	0.0 CY	No	Yes	Yes	No
F – 2603 Fairway Dr. San Leandro	12/8/14	0.0 CY	No	Yes	Yes	No
H – 13203 Monarch Bay Drive, San Leandro	9/25/14	0.0 CY	No	Yes	Yes	No
H – 13203 Monarch Bay Drive, San Leandro	10/27/14	0.0 CY	No	Yes	Yes	No
Industrial – 1200 Industrial Parkway West, Hayward	10/29/14	0.0 CY	No	Yes	Yes	No
Industrial – 1200 Industrial Parkway West, Hayward	12/4/14	0.0 CY	No	No	Yes	No
J-2 – 4588 Delores Dr. Union City	9/25/14	8.0 CY	No	Yes	Yes	No
J-2 – 4588 Delores Dr. Union City	10/27/14	0.0 CY	No	Yes	Yes	No
J-3- 32000 Union City Blvd. Union City	9/25/14	0.0 CY	No	Yes	Yes	No
J-3- 32000 Union City Blvd. Union City	12/5/14	0.0 CY	No	Yes	Yes	No
Roberts Landing -15670 Anchorage, San Leandro	9/25/14	0.0 CY	No	Yes	Yes	No
Roberts Landing -15670 Anchorage, San Leandro	10/27/14	0.0 CY	No	Yes	Yes	No
Ruus - 29560 Ruus Rd. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Ruus - 29560 Ruus Rd. Hayward	12/4/14	0.0 CY	No	No	Yes	No
Stratford – 1898 Pacheco Wy. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Stratford – 1898 Pacheco Wy. Hayward	12/4/14	0.0 CY	No	Yes	Yes	No
Sulphur Creek – 19105 Barrington Ct. Hayward	10/27/14	0.0 CY	No	Yes	Yes	No
Sulphur Creek – 19105 Barrington Ct. Hayward	12/4/14	0.0 CY	No	Yes	Yes	No
Westview – 32110 Alvardao-Niles Rd. Union City	10/29/14	0.0 CY	No	No	No	No
Westview – 32110 Alvardao-Niles Rd. Union City	12/4/14	0.0 CY	No	No	Yes	No

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**C.2.e. ► Rural Public Works Construction and Maintenance**

Does your municipality own/maintain rural<sup>2</sup> roads:  Yes  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:

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

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**C.2.f. ► Corporation Yard BMP Implementation**

Place an **X** in the boxes below that apply to your corporations yard(s):

<input checked="" 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 checked="" type="checkbox"/>	We have a <b>Stormwater Pollution Prevention Plan (SWPPP)</b> 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:

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
Turner Court	July 7, 2014	No Violations Found	NA
Turner Court	May 15, 2015	No Violations Found	NA

**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 District does not have any green streets projects. However, 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.

Summary: No C3 Regulated Projects were approved within the District's jurisdiction during the reporting year.

**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.?

	<input checked="" type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>
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Comments (optional): Onsite treatment is the preferred method. However, there have not been any projects requiring C3 compliance within the District's jurisdiction.

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**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)?		<b>Yes</b>	X	<b>No</b>
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.		<b>Yes</b>	X	<b>No</b>
If you answered "Yes" to either question, N.A.				

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

(1) Fill in attached table <b>C.3.h.iv.(1)</b> 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: No Regulated Projects have been proposed, approved or constructed within the District's jurisdiction.
(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: To date, no Regulated Projects have been constructed within the District's jurisdiction. Therefore, no O&M inspections were conducted during the reporting year.
(4) During the reporting year, did your agency:

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<ul style="list-style-type: none"> <li>Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?</li> </ul>		Yes		No	X	Not applicable. No new facilities were installed.
<ul style="list-style-type: none"> <li>Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls?<sup>3</sup></li> </ul>		Yes		No	X	Not applicable. No treatment measures
<ul style="list-style-type: none"> <li>Inspect at least 20 percent of the total number of installed vault-based systems?</li> </ul>		Yes		No	X	Not applicable. No vault systems.
<p>If you answered "No" to any of the questions above, please explain:                  To date, no Regulated Projects have been constructed within the District's jurisdiction. Therefore, no O&amp;M inspections were conducted during the reporting year.</p>						

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

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

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

- BASMAA's site design fact sheets
- District forms: Stormwater Requirements Pre-Screening Checklist and Single Family Residential Lot Clean Water Site Measures

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

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**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 <sup>10</sup> , Street Address	Name of Developer	Project Phase No. <sup>11</sup>	Project Type & Description <sup>12</sup>	Project Watershed <sup>13</sup>	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft <sup>2</sup> ) <sup>14</sup>	Total Replaced Impervious Surface Area (ft <sup>2</sup> ) <sup>15</sup>	Total Pre- Project Impervious Surface Area <sup>16</sup> (ft <sup>2</sup> )	Total Post- Project Impervious Surface Area <sup>17</sup> (ft <sup>2</sup> )
<b>Private Projects</b>											
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Public Projects</b>											
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:											

<sup>10</sup>Include cross streets

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

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

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

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

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

<sup>16</sup>For redevelopment projects, state the pre-project impervious surface area.

<sup>17</sup>For 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 <sup>18</sup>	Application Final Approval Date <sup>19</sup>	Source Control Measures <sup>20</sup>	Site Design Measures <sup>21</sup>	Treatment Systems Approved <sup>22</sup>	Type of Operation & Maintenance Responsibility Mechanism <sup>23</sup>	Hydraulic Sizing Criteria <sup>24</sup>	Alternative Compliance Measures <sup>25/26</sup>	Alternative Certification <sup>27</sup>	HM Controls <sup>28/29</sup>
<b>Private Projects</b>										
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:										

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

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

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

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

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

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

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

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

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

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

<sup>28</sup>If HM control is not required, state why not.

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

Permittee Name: Alameda County Flood Control and Water Conservation District

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

Project Name Project No.	Approval Date <sup>30</sup>	Date Construction Scheduled to Begin	Source Control Measures <sup>31</sup>	Site Design Measures <sup>32</sup>	Treatment Systems Approved <sup>33</sup>	Operation & Maintenance Responsibility Mechanism <sup>34</sup>	Hydraulic Sizing Criteria <sup>35</sup>	Alternative Compliance Measures <sup>36/37</sup>	Alternative Certification <sup>38</sup>	HM Controls <sup>39/40</sup>
<b>Public Projects</b>										
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:										

<sup>30</sup>For public projects, enter the plans and specifications approval date.

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

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

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

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

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

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

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

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

<sup>39</sup>If HM control is not required, state why not.

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

Permittee Name: Alameda County Flood Control and Water Conservation District

**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) <sup>41</sup>	Party Responsible <sup>42</sup> For Maintenance	Date of Inspection	Type of Inspection <sup>43</sup>	Type of Treatment/HM Control(s) Inspected <sup>44</sup>	Inspection Findings or Results <sup>45</sup>	Enforcement Action Taken <sup>46</sup>	Comments/Follow-up
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

<sup>42</sup>State the responsible operator for installed stormwater treatment systems and HM controls.

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

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

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

<sup>46</sup>State 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 <sup>47</sup>	Status <sup>48</sup>	Description <sup>49</sup>	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category <sup>50</sup>	LID Treatment Reduction Credit Available <sup>51</sup>	List of LID Stormwater Treatment Systems <sup>52</sup>	List of Non-LID Stormwater Treatment Systems <sup>53</sup>
There were no Special Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>47</sup>Date that a planning application for the Special Project was submitted.

<sup>48</sup> 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.

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

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

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

<sup>52</sup>: 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.

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

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

**Program Highlights**

Provide background information, highlights, trends, etc.

Section 4 is N/A

**C.4.b.i. ► Business Inspection Plan**

Do you have a Business Inspection Plan?  Yes  No

If No, explain: N/A

**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.

N/A

**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.

N/A

Permittee Name: Alameda County Flood Control and Water Conservation District

**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 type="checkbox"/>	Permittee reports the total number of discrete violations on each site.

	Number	Percent
Number of businesses inspected		
Total number of inspections conducted		
Number of violations (excluding verbal warnings)		
Sites inspected in violation		
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner		
Comments: N/A		

**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)	
Potential discharge and other	
Comments: N/A	

Permittee Name: Alameda County Flood Control and Water Conservation District

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

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

	<b>Enforcement Action</b> (as listed in ERP) <sup>48</sup>	<b>Number of Enforcement Actions Taken</b>	<b>% of Enforcement Actions Taken<sup>49</sup></b>
Level 1			
Level 2			
Level 3			
Level 4			
<b>Total</b>		N/A	N/A

**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.

<b>Business Category<sup>50</sup></b>	<b>Number of Actual Discharge Violations</b>	<b>Number of Potential/Other Discharge Violations</b>
	N/A	N/A

**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:

N/A

<sup>48</sup>Agencies to list specific enforcement actions as defined in their ERPs.

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

<sup>50</sup>List your Program's standard business categories.

Permittee Name: Alameda County Flood Control and Water Conservation District

**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.		
			N/A	N/A

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

**Program Highlights**

Provide background information, highlights, trends, etc.  
 District staff participates in the CWP's I&IDC subcommittee. Refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 14-15 Annual Report for description of activities at the countywide or regional level.

**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
Public Works Agency	Maintenance and Operations Main Number	510-670-5500

**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:  
 NA for ACFC&WCD

**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:  
 NA for ACFC&WCD

**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))	19	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	2	10.5%
Discharges resolved in a timely manner (C.5.f.iii.(3))	19	100%

Permittee Name: Alameda County Flood Control and Water Conservation District

Comments:  
Complaints/Spill/Discharge incidents are tracked by Maintenance and Operations Department using Work Order software and "Mainstar" database. Service requests are given to Construction Inspection Division for inspection and follow-up and Construction Division staff are tracked using ACCESS database. Summary report is generated by sampling Mainstar database using activity code unique to spill and illicit discharges.

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

Provide a narrative or attach a table and/or graph.  
There were only 2 discharges that reached drains and/or receiving waters. Both incidents were regarding cooking oil that was dumped into the creek and one that had reached the pump station. In both incidents Environmental Logics crew cleaned up the spill without it spilling into any other water.

**Section 6 – Provision C.6 Construction Site Controls**

<b>C.6.e.iii.1.a, b, c ▶ Site/Inspection Totals</b>		
<b>Number of High Priority Sites (sites disturbing &lt; 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)</b>	<b>Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)</b>	<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)</b>
2	2	4
Comments: Construction of all four sites was completed in October.		

<b>C.6.e.iii.1.d ▶ Construction Activities Storm Water Violations</b>		
<b>BMP Category</b>	<b>Number of Violations<sup>51</sup> excluding Verbal Warnings</b>	<b>% of Total Violations<sup>52</sup></b>
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
<b>Total<sup>53</sup></b>	<b>0</b>	<b>100%</b>

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

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

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

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

	<b>Enforcement Action</b> (as listed in ERP) <sup>54</sup>	<b>Number Enforcement Actions Issued</b>	<b>% Enforcement Actions Issued<sup>55</sup></b>
Level 1 <sup>56</sup>	Verbal Warning	0	0
Level 2	Written Warning	0	0
Level 3	Notice of Violation	0	0
Level 4	Stop Notice	0	0
<b>Total</b>		<b>0</b>	<b>100%</b>

**C.6.e.iii.1.f, g ► Illicit Discharges**

	<b>Number</b>
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

<sup>54</sup>Agencies should list the specific enforcement actions as defined in their ERPs.

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

<sup>56</sup>For example, Enforcement Level 1 may be Verbal Warning.

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**C.6.e.iii.1.h, i ► Violation Correction Times**

	Number	Percent
<b>Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered</b> or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	0	0% <sup>57</sup>
<b>Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered</b> (C.6.e.iii.1.i)	0	0% <sup>58</sup>
<b>Total number of violations (excluding verbal warnings) for the reporting year<sup>59</sup></b>	0	100%
<b>Comments:</b> No violations were identified during any of the inspections.		

**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:  
During this reporting period, a total of four inspections were conducted at four different project sites within the District's jurisdiction. The tracking data shows that there were no BMP problem areas. This data differs slightly from previous data trends but shows that BMP compliance is increasing. In total, the significant decline in BMP violations could be attributed to projects all being completed in October (less construction activity), heightened stormwater awareness, a visible inspection presence and by incorporating project management into inspections.

**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:  
The District has been working with web based application vendors to digitalize its inspection forms as a way to streamline the report creation process and conserve paper resources. This effort will potentially allow for more legible and polished reports while reducing paper use and the time spent downloading and transcribing notes to create the final report. Currently our stormwater compliance program is very effective and running smoothly. The District has participated in the countywide program's subcommittee/work groups for BMP training. Please refer to the C.6

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

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

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

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Construction Site Control section of countywide program's FY 14-15 Annual Report for a description of activities at the countywide or regional level.

**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	<ul style="list-style-type: none"> <li>• Correct uses of specific BMPs</li> <li>• Proper installation and maintenance of BMPs</li> <li>• Permit requirements</li> <li>• Copper Architectural BMPs.</li> <li>• Field demonstration and display by product vendors</li> </ul>	3	100%

**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:

**Please refer to the Countywide Program’s Annual Report.**

**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:

**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:

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**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:

**Please refer to the countywide program report to publicize stormwater points of contact (e.g. program website, hotline, outreach materials, etc.).**

**Local Effort:**

The ACFC&WCD has completed a new section of the Alameda County Flood Control website called “Explore Watersheds” where the public can access a lot of information about the geography, creeks and flow, hydrology and geology, flora and fauna, and volunteer and recreational opportunities throughout Western Alameda County watersheds. A revised version of the Alameda County Creek and Watershed Map Version 2.0 (a KMZ file that is downloadable in Google Earth) was also completed during the 2014-15 fiscal year and is stored on the Explore Watersheds site as well. The new website can be found at <http://acfloodcontrol.org/resources/explore-watersheds>. This site includes an email address for public feedback on the program.

The ACFC&WCD is continuing to use a smart phone application called “Mobile Citizen” to make it easier for local residents to report illegal dumping and spills and send photos of the incident s. The application has GPS functionality, so it simultaneously maps the location and generates a work request for the Maintenance and Operations Department.

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**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>Provide event name, date, and location. Indicate if event is local, countywide or regional.</p>	<p>Identify type of event (e.g., school fair, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., pesticides, stormwater awareness)</p>	<p>Provide general staff feedback on the event (e.g., success at reaching a broad spectrum of the community, well attended, good opportunity to talk to gardeners etc.). Provide other details such as:</p> <ul style="list-style-type: none"> <li>• Estimated overall attendance at the event.</li> <li>• Number of people that visited the booth, comparison with previous years</li> <li>• Number of brochures and giveaways distributed</li> <li>• Results of any spot surveys conducted</li> </ul>
<p><b>Stormwater Exhibit at the Alameda County Fair:</b> 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 ACFC&amp;WCD played a major role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between Countywide and Fair Staff.</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>444,923 local residents attended the fair this year. A more detailed description of the exhibit is included in Section C.7 Public Information and Outreach of the Countywide Program's FY 14/15 Annual Report.</p>
<p><b>Stormwater Exhibit at the Alameda County Fair –</b> The ACFC&amp;WCD Staffed the Fair Booth on 7/4/14, 7/5/14, 7/6/2014, 6/20/15, 6/21/15 and 6/28/15.</p>	<p>County Fair, open to the general public. Outreach message focused on using less toxic methods to manage pests around the yard, and the negative consequences of using pesticides. This year an extra emphasis was put on how pesticides not only pollute our waterways, but can also</p>	<p>This year the Fair had 444,923 attendees, a 6.4% decrease from last year (possibly due to very hot temperatures). Very good opportunity to speak to homeowners about how they can reduce storm water pollution around their home and garden. A Luv the Bay Mosaic Photo Campaign activity was added each Fridays for</p>

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**C.7 – Public Information and Outreach**

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<p>The ACFC&amp;WCD played a major role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between Countywide and Fair Staff.</p>	<p>negatively affect native bee populations, and CA agriculture.</p>	<p>“Kids’ Day”, to increase the amount of children attending the booth, and to provide opportunities to speak to children and their families about our booth message, and ways that they can prevent litter from ending up in our waterways. Handout materials included Waterful World newsletters, stormwater activity guides, non-toxic pest control recipes label for water bottles, and mood pencils. The non-toxic recipe label was a great conversation piece to start the discussion on pesticides.</p>
<p><b>Solano Stroll</b>, 9/13/14 - Berkeley</p>	<p>Large street fair open to the general public.</p>	<p>Approximately 250,000 participants and event goers attend this fair every year. The ACFC&amp;WCD had a table at this year’s event, and gave away 150 CWP activity guides, 150 CWP brochures, 100 chico bags, 150 clean it/control its, and 200 pocket Our Water Our World guides with less toxic pest control alternatives.</p>
<p><b>Centennial Celebration/Harvest Festival –</b> 9/20/14- Fruitvale Village, Oakland</p>	<p>This event is Open to the public, and is geared toward urban farming.</p>	<p>The ACFC&amp;WCD’s urban farm program had a booth at this event, and spoke to the public about ways to prevent stormwater pollution with local urban farming. The following CWP outreach materials were also distributed: Detain the Rain, water bottle less toxic recipe labels, OWOW fact sheets, and grow-it pocket guides.</p>
<p><b>Alameda County Fall Home and Garden Show</b>, 10/3, 10/4 &amp; 10/5/14 – Alameda County Fairgrounds, Pleasanton</p> <p>The ACFC&amp;WCD created the booth concept, did all set-up and breakdown of the booth and staffed the event.</p>	<p>Event is open to the general public, focusing on homeowners and gardeners. Our booth message focused on reducing the amount of litter that ends up in our local creeks and the Bay.</p>	<p>Approx. 4000 Alameda County Residents attended event. Detain the Rain brochures, Keeping it all in Tune, and storm water pollution prevention brochures were featured at the booth. The booth message was focused on reducing litter that goes down the storm drain and ends up in the Bay. A life-sized, interactive storm drain model was featured at our booth to show the public how litter that goes down the storm drain ends up in the creek. Some interactive games were played with families,</p>

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		<p>including a "True or Rubbish" game, which focused on trash true and false questions. Native seed packets, CWP reusable bags, mood pencils and activity guides were given away to residents who interacted with us at the booth.</p>
<p><b>Alameda County Spring Home and Garden Show, 2/13, 2/14, 2/15/14</b> – Alameda County Fairgrounds, Pleasanton</p> <p>The ACFC&amp;WCD created the booth concept, did all set-up and breakdown of the booth and staffed the event.</p>	<p>Event is open to the general public, focusing on homeowners and gardeners. Our booth message focused on reducing pesticides in the yard and chemicals around the house by using less toxic alternatives.</p>	<p>Approximately 10,000 Alameda County Residents attended the event. Materials available to the public included: non-toxic pest control recipes label for water bottles, Keeping it all in Tune, native seed packets, mood pencils and storm water pollution prevention brochures. Our Clean Water booth utilized a bee theme in order to educate event participants about how pesticides not only get rid of insects we don't want in our garden, but also harm helpful insects like the bee.</p> <p>In order to communicate this message, staff engaged children with an interactive Bee-lieve it or Not game, with questions focusing on native bee knowledge, and making the connection between pesticide use and the negative effect on native bees and CA crops. Staff then finished the game by reminding players of main ways in which they could prevent contaminants from entering our storm drains.</p> <p>To promote the use of non-toxic methods in the home and garden to control pests in order to reduce stormwater pollution, CWP spray bottle sticker labels and fact cards were given out to event participants. The labels and fact cards contained recipes for non-toxic pest controls which could be used instead of store-bought chemicals.</p> <p>In order to further encourage the prevention of toxic chemicals being released into our storm drains, "Keeping it All in Tune" brochures were available for event participants which discuss</p>

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		keeping your car free from leaks and the proper way to dispose of automotive fluids. The ACF&WCD organizes and staffs the booth at this event.
<p><b>EarthEXPO</b>, Downtown Oakland – 4-8-15.</p> <p>This Event was Organized Through Oakland's Clean Creeks Program. The ACF&amp;WCD is a major funding source for this program, and provides on-going support through which many public outreach activities are conducted.</p>	<p>An environmental fair in downtown Oakland, open to the public.</p>	<p>The EXPO attracted about 2,000 attendees. Staff highlighted stormwater protection, volunteer creek and shoreline cleanups and ecological restoration. The overall theme of the event was environmental sustainability. Exhibitors presented various ways Oakland residents can be sustainable: alternative transportation, solar energy, local food supply, promoting urban nature, volunteering, recycling, composting, buying recycled goods, Bay-friendly landscaping, and many more.</p>
<p><b>Friends of San Leandro Creek (FSLC) Environmental Forum</b>, San Leandro Public Library, San Leandro – 11/8/14</p> <p>These booths and speakers drew people from the entire Bay Area.</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>Mini Environmental Expo: Representatives from local organizations are invited to present information to community members attendees regarding issues that impact the environment. The topic this year was <u>Sea Level Rise and How it will Affect the Bay Area Waters.</u></p>	<p>Approximately 80 people present. Booths and speakers made it easy for environmentalists present to make professional connections.</p>
<p><b>FSLC Earth Day/Watershed Festival</b>, Root Park, San Leandro – 3/28/15</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>Community outreach event. Part of this event was a creek cleanup at Root Park in San Leandro, (45 in attendance) along with 3 interpretive walks led by students from Merritt College in the Naturalist Program. The first walk identified and discussed Native vs Non-Native plant species. The second talk was regarding stories and myths/urban legends about creeks; the 3<sup>rd</sup> walk centered on the "Eucalyptus Problem" we are facing in San Leandro Creek.</p>	<p>Total number of participants was around 200 for the Clean Up and Festival. Creek Cleanup, 3 interpretive walks in creek, free bbq, informational information presented by community organizations. This included riparian animals, games, art projects, and information.</p>

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<p><b>FSLC Member Meetings</b>, San Leandro Library – 10/24/14 and 2/10/15.</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>Informational meetings for the public.</p>	<p>Friends group members invite guest speakers to talk about pertinent environmental issues for our members and the general public. Generally, about 20 members of the public attend each meeting. This fiscal year, EBMUD Fish Biologist, Bert Mulchaey presented information about fish populations in and around San Leandro Creek. EBRPD's Jeff Rasmussen and Matt Graul presented info about a joint grant between FSLC &amp; EBRPD to restore a portion of the upper watershed. Faye Clements (Cary Dr. resident) presented a petition she has drafted to have eucalyptus trees removed from above creek. And lastly, Lisa Owens-Viani, co-founder of Raptors Are the Solution ("RATS") discussed the epidemic of wildlife mortality caused by rat poison.</p>
<p><b>Please see Attachment C.7.4 for Additional Friends of San Leandro Creek Public Outreach Events Summary.</b></p> <p>The ACF&amp;WCD funds and provides on-going support to this program through which many public outreach activities are conducted.</p>	<p>Please see Attachment C.7.4 for Friends of San Leandro Creek Outreach Events Summary.</p>	<p>Please see Attachment C.7.4 for Friends of San Leandro Creek Outreach Events Summary.</p>
<p><b>Friends of Sausal Creek (FOSC) Public Outreach Events in Dimond Park, Oakland – 9/20/14, 9/27/14, 12/20/14 and 4/18/15</b></p> <p>The ACF&amp;WCD funds and provides on-going support to this program through which many public outreach activities are conducted.</p>	<p>Many outreach events held in Dimond Park open to the general public to educate community members on the efforts of the FOSC, as well as creek and watershed restoration efforts.</p>	<p>Please see Attachment C.7.3 for Friends of Sausal Creek Public Outreach Events Summary.</p>
<p><b>Tule Ponds at Tyson Lagoon, Fremont, Open House Events – 1/30/15, 2/27/15, 3/27/15, 4/10/15, 4/15/15, and 5/22/15.</b></p> <p>The ACFC&amp;WCD owns the facility and also provides additional funding for education.</p>	<p>Events are open to the general public. The theme this year for the large open house in April was, "Going Back Through Time." The rest of the open house events started as self-led tours, followed by a lecture to learn how the tule ponds help stormwater pollution prevention. Please see Attachment</p>	<p>Approximately 550 local residents attended these events. Please see Attachment C.7.2 for Tule Ponds Public Outreach Events Summary</p>

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	C.7.2 for Tule Ponds Public Outreach Events Summary	
<p><b>Environmental Education Workshops at Tule Ponds at Tyson Lagoon</b>, 8/4/14, 10/25/14, 10/27/14 and 1/22/15 – Fremont</p> <p>ACF&amp;WCD owns the Tule Ponds at Tyson Lagoon, and funds the programs and events that are held at the facility.</p>	<p>Open to teachers and community members involved in environmental service. Both of the workshops focused on the ecological and restoration benefits of the Tule Ponds at Tyson Lagoon. Please see Attachment C.7.2 for Tule Ponds Public Outreach Events Summary</p>	<p>An average of 12 teachers attended each workshop, for a total of 96 teachers in all. The feedback from attendees was very positive.</p>
<p><b>The Bringing Back the Natives Garden Tour</b> - held throughout Alameda and Contra Costa counties on 5/3/15. (The 38 gardens and nurseries showcased on the Tour were located in eighteen cities and unincorporated areas in Alameda and Contra Costa counties (Berkeley, Castro Valley, Concord, El Cerrito, El Sobrante, Hayward, Kensington, Lafayette, Livermore, Moraga, Oakland, Orinda, Pleasant Hill, Pleasanton, Richmond, San Lorenzo, Union City, and Walnut Creek)</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>This free tour was attended by gardeners, homeowners, landscape designers, and students.</p> <p>The tour enlists local residents to demonstrate by example that seasoned and novice gardeners can garden with good results without the use of synthetic chemicals, and with minimal supplemental water, while providing food, shelter, and nesting areas for wildlife. Garden hosts show that it is possible to implement sustainable garden practices and still have beautiful places for people to relax in and enjoy. The goals of the Bringing Back the Natives Garden Tour are to motivate attendees to eliminate pesticide use, reduce water use, generate less solid waste, and provide habitat for wildlife in their own gardens.</p>	<ul style="list-style-type: none"> <li>• 38 gardens and nurseries were showcased on the Tour</li> <li>• 50 + talks and demonstrations were given</li> <li>• 150 volunteers made the tour possible</li> <li>• nearly 6,000 registrants</li> <li>• \$44,000 worth of natives sold through the Native Plant Sale Extravaganzas</li> <li>• 12,724 garden visits were made</li> </ul> <p>Behavior Change: 84% of repeat registrants said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.</p>
<p><b>Science in the Park</b>, Union City -10/4/14</p> <p>The ACFC&amp;WCD's Hands-On Conservation Program created the booth concept, did all set-up and breakdown of the booth and staffed the event.</p>	<p>This event attracted students, their parents, and the general public. Many youth groups and organizations had hands-on activity tables at the event, along with environmental and community health agencies- nearly 60 in total. The Hands-On Conservation table focused on showing the impacts of litter on creeks, and table visitors</p>	<p>Approx. 300-400 people participated in the widely- publicized event, coming from several cities in the area, with approximately 125-150 event visitors stopping by the HOC table, with most writing anti-litter suggestions. Nearly 70 handouts were taken that listed the upcoming HOC stewardship workdays.</p>

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	<p>were asked to write down their suggestions for creative ways to reduce litter.</p>	<p>This event is a fantastic outreach opportunity that takes place every other year.</p>
<p><b>Community Service/ Volunteer Fair</b>, Logan High School, Union City – 4/2/15</p> <p>The ACFC&amp;WCD's Hands-On Conservation Program created the booth concept, did all set-up and breakdown of the booth and staffed the event.</p>	<p>High School lunchtime fair event for students, teachers: Hands-On Conservation staff tabled with "Creek Care" and anti-littering display for 1.5 hours during the school day lunchtime fair and discussed with interested students how to protect creek water quality and wildlife habitat. Urged students to sign up to volunteer for the nearby Hands-On Conservation 4/25 and 4/26/15 Earth Day cleanup events.</p>	<p>100-150 students visit the approximately 15 tables at the event. At the Hands-On Conservation table, interacted with 30-35 high schools students, two other environmental organization tablers, and several teachers. 60 mini flyers with details on nearby Hands-On Conservation stewardship activities for Earth Day were handed out. Excellent opportunity to connect with students directly and the school's student volunteer coordinator.</p>

**C.7.f. ► Watershed Stewardship Collaborative Efforts**

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

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

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

**Local Watershed Collaborative Efforts:**

The ACFC&WCD continues to provide major funding and support to The Friends of Sausal Creek and Friends of San Leandro Creek (please see section C.7 below for activities conducted by these groups with the help of ACFC&WCD fundng)

**Alameda Creek Watershed Forum**

The ACFC&WCD also fund, administers and serves on the steering committee for the Alameda Creek Watershed Forum, which is a group of stakeholders who are interested in protecting and enhancing water-related beneficial uses and resources within the Alameda Creek watershed. In addition to the efforts listed below, the ACFC&WCD presented on the Google Earth Creek and Watershed Map Program/Explore Watersheds website project at this year's conference.

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**Forum Events:**

TECHNICAL SYMPOSIUM 11/6/14 *Restoration in the Alameda Creek Watershed: Challenges & Solutions*, @ Castro Valley Library

- Participation: 30 throughout the day. Attendees included acwForum signatory member agencies, agency staff, the public, local organizations, researchers, and students.
- Topics: Restoration project case studies, permitting, plant pathogen concerns, data sharing efforts and opportunities, and monitoring project outcomes. All speakers participated in a panel discussion moderated by acwForum coordinator Ian Howell.
- Informal walking tour of ACFC&WCD's Castro Valley Creek daylighting & restoration project adjacent to the library
- Information tables with copies of pertinent reports, handouts and other materials on the event theme. Sponsor-supported tables.
- Event planning conducted with Steering Committee members. Feedback received from participants via SurveyMonkey.

ANNUAL CONFERENCE 5/28/15 *The View Upstream: Water's Journey Across Managed Land in the Alameda Creek Watershed*, @ Zone 7 Water Agency

- Participation: 40 throughout the day; 17 during field tour. Attendees included acwForum signatory member agencies, agency staff, the public, local organizations, researchers, and students.
- Topics: California water supplies in drought context, local water supply availability & management, drought and long-term water supply planning, grazing management of watershed lands, climate and hydrologic modeling. All speakers participated in a moderated panel discussion.
- Field tour of two sites: (1) Riparian Restoration & Channel Repair Pilot Project on Arroyo Mocho; (2) Flood Protection & Trail Culvert Replacement Project on Arroyo Las Positas.
- Forum Highlights: two special presentations were provided: (1) Alameda Creek Alliance's stewardship program; (2) ACFC&WCD's Explore Watersheds Project.
- Tables for four event sponsors and for handouts/information.
- Planning, agenda development, and speaker outreach conducted by Steering Committee members. Feedback from stakeholders and participants received after previous two events reviewed and considered during planning.
- **Website:** [www.acwForum.org](http://www.acwForum.org)
- **Newsletter:** *Forum Highlights* e-newsletter released quarterly. Contents included: upcoming events, highlights of acwForum events, compilation of litter cleanup results within the watershed for Coastal Cleanup Day and Earth Day-related activities, tools and information for restoration and water conservation, and recognition of individuals making a difference in the watershed. Writing contributed by acwForum stakeholder agencies for some pieces.

**Google Earth Creek and Watershed Map Program for Western Alameda County – Version 2.0**

The ACFC&WCD sought to increase access and use of watershed information. Maps and information had only been available on paper or in for certain watersheds, some digital resources were online, but difficult to find and use.

To increase access, the ACFC&WCD took advantage of Google Earth technology to create a dynamic map of watersheds in Western Alameda County, featuring details on creeks, culverts, channels, storm drains, geographical features, roads and points of interest.

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To create the map, we engaged map professionals to design a layered file, giving users the ability to turn features on and off. Each mapped watershed is accompanied by information on the area; including lists of waterbodies, flora, fauna, restoration projects, recreation opportunities, and ways that volunteers can get involved. To support access, the map and the watershed information is hosted on the ACFC&WCD website, <http://acfloodcontrol.org/resources/explore-watersheds>. The content for each watershed is hosted on its own page, which increases search optimization.

Presentations of the Map have resulted in interest from environmental professionals, naturalists and educators. It will be used as part of an ACFC&WCD/Sulphur Creek Nature Center partnership Watershed Education Program. A Google Earth Station in the program allows students and visitors to use the map. Teachers can use it to perform simple lessons, such as locating their school on a map and finding the nearest creek and then its watershed.

The map provides access and improved learning about watersheds while exposing the public and students to current technology. The regional map has the ability to demonstrate the larger watershed picture. Students can easily make connections between their surroundings and the system of watersheds in which they live.

**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
Provide event name, date, and location. Indicate if event is local, countywide or regional	Describe activity (e.g., creek clean-up, storm drain marking etc.)	Provide general staff feedback on the event. Provide other evaluation details such as: <ul style="list-style-type: none"> <li>• Number of participants. Any change in participation from previous years.</li> <li>• Distance of creek or water body cleaned</li> <li>• Quantity of trash/recyclables collected (weight or volume).</li> <li>• Number of inlets marked.</li> <li>• Data trends</li> </ul>
<b>Community Stewardship Program (CSG)</b>  In addition to contributing grant funding, the ACFC&WCD also coordinates the CSG Program for the Countywide Group.	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	See Section C.7 of the ACCWP FY14/15 Annual Report for a summary.

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	improvement/outreach projects throughout the County.	
<p><b>Conservation at Urban Farms Mini-Grant Program.</b></p> <p>The following organizations received mini-grants (with a term of one year) for stormwater management and conservation improvements at their urban farm or garden sites</p> <ul style="list-style-type: none"> <li>• International Rescue Committee's New Roots Program, Oakland</li> <li>• Tennyson High School Farm and Community Garden, Hayward</li> <li>• West Oakland Woods Flower Farm</li> <li>• San Lorenzo High School Farm, San Lorenzo</li> <li>• Phat Beets Urban Fruit Forest at Dover Park and Temescal Library, Oakland</li> </ul>	<p>Mini-grant program funded installation of water quality improvement practices on urban farms and gardens with a focus on underserved communities. Practices included application of cover crops and mulch, planning and installation of bioswales, irrigation upgrades to minimize flooding, run-off and enhance efficiency, use of compost in lieu of fertilizer, installation or upgrades of rainwater catchment systems and construction of hedgerows and other native and insectary plantings to support integrated pest management in lieu of pesticide.</p>	<p>The following run-off prevention and conservation benefits were derived from these collaborations:</p> <ul style="list-style-type: none"> <li>• Collaborated with 5 farm/garden managers at 7 different sites throughout the ACFCWCD service area,</li> <li>• Engaged more than 250 volunteers at more than 8 different public events and numerous informal classes and workshops</li> <li>• Anticipated diversion of more than 4300 gallons of run-off water from streets or stormdrains to be used onsite.</li> <li>• Planted more than 677 primarily native plants as part of hedgerows, berms or other erosion-prevention mechanisms</li> <li>• Installation or improvement of drip irrigation systems to replace sprinkler or other less efficient and run-off inducing irrigation techniques.</li> <li>• Avoided use of more than 580 lbs of fertilizer/year</li> <li>• Extensive use of mulch, compost, cover crops, berms and straw wattles to assist with on-site infiltration and prevent erosion of 1000 cubic yards of topsoil.</li> <li>• Installed signage explaining conservation and stormwater management improvements at 3 sites.</li> </ul> <p>Other program partners included the USDA's Natural Resource Conservation Service</p>

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		(NRCS), UC California Cooperative Extension and Project EAT.
<p><b>Friends of San Leandro Creek Citizen Involvement Events, Root Park, San Leandro – 8/30/14, 10/25/14 and 1/24/15</b></p> <p>The ACF&amp;WCD funds and provides on-going support to this program through which many volunteer activities are conducted.</p>	<p>Cleaned up stretch of San Leandro Creek that runs through Root Park in San Leandro.</p>	<p>Please see Attachment C.7.4 for Friends of San Leandro Creek Citizen Involvement Events Summary.</p>
<p><b>Friends of Sausal Creek (FOSC) Volunteer Events, Many Different Locations Throughout the Watershed (Please see Attachment C.7.3 for details)</b></p> <p>The ACF&amp;WCD funds and provides on-going support to this program through which many volunteer clean up activities are conducted.</p>	<p>FOSC community volunteer events are held year-round at restoration sites throughout the watershed. Some of the workdays are led by FOSC staff and interns, others are led by neighborhood volunteers</p>	<p>Please see Attachment C.7.3 for Friends of Sausal Creek Citizen Involvement Events Summary.</p>
<p><b>Oakland Clean Creeks Program – Adopt a Spot Program, Creek to Bay Day and Earth Day, Oakland.</b></p> <p>The ACF&amp;WCD is a major funding source for this program, and provides on-going support through which many volunteer activities are conducted.</p>	<p>The ACFC&amp;WCD supports the 27-35 adopt a spot locations, and two large community clean up events that were coordinated through this program this year.</p>	<p>The City hosts two citywide cleanup events per year, Creek to Bay Day and Earth Day. Creek to Bay Day brought together 1,037 volunteers to clean up 34 creek and shoreline locations throughout Oakland. Oakland volunteered a total of 2,931 hours picking up 18,098 pounds of trash from Oakland's creeks, Lake Merritt and the estuary and removing 252 cubic yards of non-native greenwaste to allow native plants to flourish.</p> <p>On Earth Day, over 3,366 volunteers participated in this citywide beautification effort, putting in a combined 14,747 volunteer hours at 89 volunteer sites throughout Oakland. Thirty-five of the volunteer sites were at creeks and shorelines. 2,054 volunteers assisted in cleanup and beautification activities at creek sites and Lake Merritt.</p>

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		<p>Volunteers picked up <b>63,927 pounds of trash</b> from Oakland's creeks, Lake Merritt, estuary and streets and removed <b>466 cubic yards of greenwaste</b> including invasive weeds that prevent native plant growth. Please see Attachment C.7.5 for a full description of the program.</p>
<p><b>Tule Ponds at Tyson Lagoon Community Service Days and Eagle Scout Projects</b> - Many On-Going Projects from 7/1/14 – 6/30/15 (Every Saturday)</p> <p>The ACFC&amp;WCD owns the facility and also provides additional funding for education.</p>	<p>Conducted community service every Sat from 9:30-12:30 and had approximate 1500 students provide 3 hours of community service (4500 hours). Also hosted "special days" for community groups including 10 weeks with California State University East Bay, Freshman Day of Service with 20 students for 4 hours each with a total of 800 hours. In addition, a Chinese service group with a total of 80 students with 320 hours total.</p> <p>9 Eagle projects were completed with a total of 120 helpers with an approximate total of 1000 hours (see attached report C.7.2). We had 2 Silver Award projects with 40 hours per girl with approximately 320 hours.</p>	<p>Please see Attachment C.7.2 for the Tule Ponds Citizen Involvement Events Summary.</p>
<p><b>Union City Civic Center Park, Union City- "Creek Care"</b> stewardship activities with ACFC&amp;WCD's Hands-On-Conservation</p> <ul style="list-style-type: none"> <li>-Earth Day creek and park trails clean up 4/26/15</li> <li>-Make A Difference Day conducted with Union City Parks –tree planting workday and park litter cleanup on 10/25/14</li> <li>-Martin Luther King National Day of Service- creek cleanup on 1/19/15</li> </ul>	<p>Hands-On Conservation "Creek Care" volunteer workdays included riparian vegetation planting and maintenance, invasive plant removal, and extensive trash cleanups along the flood control channel and adjacent walking trail, and along park trails.</p> <p>"Creek Care" practices were discussed informally with volunteers to engage them in the process of helping improve water quality in their neighborhood creeks. The duck pond in the park and adjacent flood control channel provide opportunities for pointing out stormwater pollution impacts and some</p>	<p>1200' linear feet of creek banks along park trails cleaned (3 times =3600') of litter and debris. 24 native trees planted on Make A Difference Day along park trails.</p> <p>Earth Day attracted 8 volunteers. Make a-Difference Day attracted 40+, and MLK Day had 14 volunteers and also Union City Parks staff and a City Council member. Volunteers included high school students and local residents, several teachers, and members of a youth group.</p> <p><b>Trash total volume: 1.5 cu yds</b></p>

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	mitigating efforts to improve the water quality for the wildlife that live there year round.	All volunteers received CWP re-usable shopping bags.
<p><b>Alameda Creek Cleanup, Niles</b></p> <p>“Creek Care” stewardship activities with the ACFC&amp;WCD’s Hands-On Conservation program in coordination with the Alameda Creek Alliance</p> <p>-Coastal Cleanup Day 9/20/14</p> <p>-Invasive plant removal workdays with Irvington High School, Fremont students (11/16/14, 12/14/14, 2/14/15)</p> <p>-Earth Day-Alameda Creek Cleanup 4/25/15</p>	At these workdays, activities included creek and trailside litter cleanups and invasive plant removal. Held in conjunction with the Alameda Creek Alliance watershed group at their adopted spot along Alameda Creek. Typically HOC staff led the creek cleanup and ACA led the invasives removal in the riparian corridor. ACA provided education to volunteers as to protecting creek habitat for native fish in Alameda Creek. Very large turnout for coastal Cleanup Day (55) necessitated having a number of leaders who could take smaller groups along the creek to clean up.	<p>1/2 mile of creek bank was thoroughly cleaned up twice (Earth Day and Coastal Cleanup Day) with 70 total volunteers. 6 Irvington High School Students came to the other workdays, each coming at least twice. Several American High School students came to the Earth Day event with their leader from Earth Team.</p> <p>Volunteers received CWP reusable shopping bags.</p> <p><b>Debris/homeless site trash approx. 2 cu yds</b></p> <p><b>Litter and trash (in bags) total volume: 1.5 cu yds</b></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
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.
<b>See the Section C.7 of the Countywide Program’s FY 14/15 Annual Report for a summary of the Program’s School-Age Outreach Program.</b>	See the Section C.7 of the Countywide Program’s FY 14/15 Annual Report.	See the Section C.7 of the Countywide Program’s FY 14/15 Annual Report.	See the Section C.7 of the Countywide Program’s FY 14/15 Annual Report.

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<p><b>Hands-On Conservation Program. Grades 6-College Age Students.</b></p> <p>The ACF&amp;WCD is a major funding source for this program.</p>	<p>The Hands-On Conservation Program provides opportunities for outdoor stewardship activities to increase students' knowledge of natural resources and the protection of watersheds. Please see <i>Attachment C.7.1</i> for a full program summary.</p>	<p>Please see Attachment C.7.1 for a full program summary.</p>	<p>Please see Attachment C.7.1 for a full program summary.</p>
<p><b>Tule Ponds at Tyson Lagoon Education Programs, Grades 1-6.</b></p> <p>In addition to owning and funding the Tule Ponds facility, the ACF&amp;WCD provided additional funding for 110 free Tule Pond Center education programs to schools throughout Alameda County during the 2014-15FY.</p>	<p>Schools visit the Center for a hands-on education program focusing on the following topics: Stormwater and Wetland Chemistry, Exploring Wetlands, Plant and Animal Environments, Plant and Animal Life Cycles, Tule Pond Changes Through Time, Earth Quakes and Ecology (and how they have affected the Tule Ponds). The curriculums provide students with background information on each topic, and include science lab work and nature walks for each program.</p>	<p>3000 children and 650 adults that attended the free programs funded by the ACFC&amp;WCD. 250 college students with 5 teachers also visited the center for field trips, as well as an additional 3 student interns at the Tule Ponds Center. Please see Attachment C.7.2 for a full program summary.</p>	<p>A survey (example included in attached report) conducted with 100 teacher s gave a very good to excellent rating of the overall content and tour that the Math Science Nucleus staff provided. Many pointed out the ability to touch and feel nature in a closed and safe environment. All felt the classes fulfilled their science requirements.</p>
<p><b>Friends of Sausal Creek School-Age Education Programs.</b></p> <p>The ACF&amp;WCD is a major funding source for this program.</p>	<p>FOSC hosted 31 field trips groups this past school year. Youth activities included a discussion of the Sausal Creek Watershed, stormwater pollution prevention, stream restoration strategies, and native and nonnative plant identification. The programs also included a hands-on restoration component such as removal of invasive, nonnative plants; vegetation monitoring; and planting of native plants propagated at our nursery.</p>	<p>Please see Attachment C.7.3 for Friends of Sausal Creek School-Age Education Summary</p>	<p>Please see Attachment C.7.3 for Friends of Sausal Creek School-Age Education Summary</p>

Permittee Name: Alameda County Flood Control and Water Conservation District

<p><b>Friends of San Leandro Creek Chabot Day Camp, Sulphur Creek Day Camp, and Local School Field Trips.</b></p> <p>The ACF&amp;WCD is a major funding source for this program.</p>	<p>Age appropriate hand-on science lessons on insects and watershed care.</p>	<p>Please see Attachment C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>	<p>Please see Attachment C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>
<p><b>Oakland Clean Creeks Program.</b> Please see Attachment C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.</p>

Permittee Name: Alameda County Flood Control and Water Conservation District

**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.

Permittee Name: Alameda County Flood Control and Water Conservation District

**Section 9 – Provision C.9 Pesticides Toxicity Controls**

<b>C.9.b ► Implement IPM Policy or Ordinance</b>						
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.						
<b>Trends in Quantities and Types of Pesticides Used<sup>60</sup></b>						
<b>Pesticide Category and Specific Pesticide Used</b>	<b>Amount<sup>61</sup></b>					
	<b>FY 09-10</b>	<b>FY 10-11</b>	<b>FY 11-12</b>	<b>FY 12-13</b>	<b>FY 13-14</b>	<b>FY 14-15</b>
<b>Organophosphates</b>						
<b>Product or Pesticide Type A</b>	0	0	0	0	0	0
<b>Product or Pesticide Type B</b>	0	0	0	0	0	0
<b>Pyrethroids</b>						
<b>Product or Pesticide Type X</b>	0	0	0	0	0	0
<b>Product or Pesticide Type Y</b>	0	0	0	0	0	0
<b>Carbaryl</b>	0	0	0	0	0	0
<b>Fipronil</b>	0	0	0	0	0	0

<b>C.9.c ► Train Municipal Employees</b>	
Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	6
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	6
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.	100%

<sup>60</sup>Includes all municipal structural and landscape pesticide usage by employees and contractors.

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

Permittee Name: Alameda County Flood Control and Water Conservation District

**C.9.d ▶ Require Contractors to Implement IPM**

Did your municipality contract with any pesticide service provider in the reporting year?				<input type="checkbox"/>	Yes	<input checked="" 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 type="checkbox"/>	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR						
<input type="checkbox"/>	Equivalent documentation.						
If <b>Not attached</b> , explain: NA							

**C.9.e ▶ Track and Participate in Relevant Regulatory Processes**

Summarize participation efforts, information submitted, and how regulatory actions were affected <b>OR</b> 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); <b>OR</b> 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 and Section C.7 of this report.	

**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.

Permittee Name: Alameda County Flood Control and Water Conservation District

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
<b>Total for all Types</b>						
<b>Required by Permit</b>						NA

**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).

Full trash capture is NA for ACFC&WCD

The ACFC&WCD operates/maintains partial trash capture devices at 18 of its 22 pump stations.

Permittee Name: Alameda County Flood Control and Water Conservation District

**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 that are.

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		
ala_sem_1 Rainbow Rec. Cntr 5800 International Blvd. Oakland 94621	8/6/14 5/8/15	22cy	7cy	29cy	38cy	3cy 8cy	Typical household garbage, paper, plastic bags and bottles, Styrofoam and household furniture	Illegal dumping from landlords and evicted tenants
ala_per_1 5401 Coliseum Way. North side Oakland 94601	8/6/14 5/8/15	24cy	8cy	32cy	43cy	4cy 5cy	Paper, glass, plastic bags, Styrofoam, concrete pieces, lumber and construction debris	Littering from pedestrians, motorists illegal dumping, and homeless.
ala_sem_2 5401 Coliseum Way. South side, Oakland 94601	8/6/14 5/8/15	14cy	14cy	22cy	64cy	8cy 10cy	Paper, plastic bags and Styrofoam	Illegal dumping and Neighboring business.
ala_san_1 u/s and d/s of Hegenberg er, Rd Oakland	8/6/14 5/8/15	16cy	80cy	14cy	68cy	5cy 8cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans /lumber	Littering from pedestrians, motorists illegal dumping, and homeless.

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C.10 – Trash Load Reduction

Permittee Name: Alameda County Flood Control and Water Conservation District

ala_san_2 U/s and d/s of 98th Ave., Oakland.	8/6/14 5/8/15	18cy	99cy	139cy	24cy	5cy 4cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans, and lumber.	Littering from pedestrians, Motorists, trespassers, & illegal dumping.
ACF Zone 3 A 300ft upstream of 20 tide gate structure Veasyst Union city.	11/20/14 12/18/14 12/29/14 2/20/15	9cy	10cy	5cy	10cy	4cy 12cy 3cy 50cy	Woody debris, household garbage furniture, plastic, paper, toys, balls cans, bottles, Styrofoam, tires	Illegal dumping From upstream reaches abutting schools and apartmen
ACF Zone 3A downstre am Folsom Ave Hayward	9/15/14 10/8/14 12/18/14 12/29/14 2/3/15	11cy	15cy	4cy	6cy	5cy 3cy 10cy 3cy 5cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans	Littering from pedestrians, motorists, trespassers, & illegal dumping
ACF Zone 5 Upstream Logan Dr Fremont	2/10/15 6/4/15	2cy	6cy	4cy	9cy	3cy 2cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans food wrappers	Littering from pedestrians, motorists and illegal dumping,
ACF Zone 5 Upstream of Line B, Mowry Ave Fremont	7/1/14 2/10/15 6/4/15	10cy	10cy	10cy	3cy	4cy 10cy 3cy	Typical household garbage, paper, plastic bags and bottles, Styrofoam, etc.	Littering from pedestrians, motorists, and illegal dumping.

**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.

**NA for ACFC&WCD**

Description of Significant Revision	Associated TMA

Permittee Name: Alameda County Flood Control and Water Conservation District

<b>C.10.d ► PART A - Trash Control Measure Implementation and Assessment (Jurisdictional-wide Actions)</b>				
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.				
<b>NA for ACFC&amp;WCD</b>				
<b>Control Measure</b>	<b>Summary Description of Control Measure &amp; Dominant Trash Sources and Types</b>	<b>Assessment Method(s)</b>	<b>Summary of Assessment Results To-date</b>	<b>Estimated % Trash Reduced</b>
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: <a href="http://reusablebagsac.org/ordinancetext.html">http://reusablebagsac.org/ordinancetext.html</a>	See Section C.10 of the ACCWP FY 14-15 Annual Report.	See Section C.10 of the ACCWP FY 14-15 Annual Report.	
Expanded Polystyrene Food Service Ware Ordinance or Policy		For those with Polystyrene Food Service Ware bans, insert: “See Section C.10 of the ACCWP FY 14-15 Annual Report.” Add text regarding any additional assessment as appropriate. If you do not have a ban in place, delete this row.	For those with Polystyrene Food Service Ware bans, insert: “See Section C.10 of the ACCWP FY 14-15 Annual Report.” Add text regarding any additional assessment results as appropriate. If you do not have a ban in place, delete this row.	
Other Source Control Actions with sufficient documentation and supporting assessment				

**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

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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	
NA for District				Baseline Generation Areas (2009)					
Full Capture Devices	Area Treated by Full Trash Capture Devices (Acres)	Quantity and Type of Full Trash Capture Devices			Area Treated by <u>Full Capture Devices</u>				
Actions other than Full Capture Devices	Summary Description of Other Actions Implemented in the TMA Since MRP Adoption			Area <u>Not</u> Treated by Full Capture Devices					
	NA for ACFC&WCD				Area after Accounting for Other Actions (based on assessment results)				
	Assessment Methods for Control Measures Other than Full Capture Devices								
	Summary of Assessment Results								
Area After Taking into Account Full Capture Devices AND Other Actions									
Estimated % Trash Reduction in this TMA									

Permittee Name: Alameda County Flood Control and Water Conservation District

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

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.

**NA for ACFC&WCD**

**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)	
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)	
<b>SubTotal for Above Actions</b>	
Estimated % Trash Reduction due to Receiving Water Cleanups (All TMAs)	
<b>Total Estimated % Trash Reduction FY 14-15</b>	

**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.

The ACFC&WCD promotes ongoing events and service of Alameda County Waste Management Authority through [stopwaste.org](http://stopwaste.org).

**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.

Permittee Name: Alameda County Flood Control and Water Conservation District

- 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 again noncompliance

NA for ACFC&WCD

**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

NA for ACFC&WCD

**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 <b>No</b> , skip to C.15.b.vi.(2):				
If <b>Yes</b> , Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below.				
Comments:				

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

<p>Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:</p> <ul style="list-style-type: none"> <li>• Promote conservation programs</li> <li>• Promote outreach for less toxic pest control and landscape management</li> <li>• Promote use of drought tolerant and native vegetation</li> <li>• Promote outreach messages to encourage appropriate watering/irrigation practices</li> <li>• Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.</li> </ul>
<p>Summary: Refer C.7. Public Information and Outreach and C.9. Pesticide Toxicity Control sections of Program's FY14-15 Annual Report and Section C.7 of this report.</p>

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

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity <sup>62</sup> (NTU)	Implemented BMPs & Corrective Actions
NA										

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

C.15.b.iii.(2) ► Unplanned Discharges of the Potable Water System <sup>63</sup>														
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) <sup>64</sup>	pH (standard units) <sup>52</sup>	Discharge Turbidity (Visual) <sup>52</sup> ,	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time <sup>65</sup>	Inspector arrival time	Responding crew arrival time
NA														

<sup>63</sup>This table contains all of the unplanned discharges that occurred in this FY.

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

<sup>65</sup>. 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.

## **Alameda County Flood Control and Water Conservation District – Section C.7 PIP Attachments**

C.7.1 Alameda County Resource Conservation District  
FY14/15 Final Report

C.7.2 Tule Ponds at Tyson Lagoon FY 14/15 Annual Activities  
Report

C.7.3 Friends of Sausal Creek Annual Activities Report  
FY14/15

C.7.4 Friends of San Leandro Annual Activities Report  
FY14/15

C.7.5 Oakland Clean Creeks FY14/15 Summary

C.7.6.a Native Garden Tour FY14/15 Summary

C.7.6.b Native Garden Tour FY 14/15 Statistics Summary

July 30, 2015

**Final Report for Fiscal Year 2014/15**  
**ACRCD Contract C-5013 and C-11979**

Submitted by Amy Evans, Resource Conservationist,  
Alameda County Resource Conservation District

The Alameda County RCD contracted with the Alameda County Flood Control and Water Conservation District during FY 2014/15 for work to be accomplished on a number of tasks, including:

- Task 1- Hands-On Conservation, an ongoing program of the ACRCD that supports on-the-ground stewardship/education activities for middle school through college age youth, and additional community volunteers.
- Task 2- A ongoing multi-faceted, creek-based watershed education program at Palomares Elementary School in Castro Valley that serves the school and wider community.
- Task 3- Support for the annual Bringing Back the Natives garden tour (subcontract with Kathy Kramer, originator and operator of the tour).
- Task 6- Support for the Alameda Creek watershed Forum, a watershed group in Alameda County that works to improve the health of the watershed through an informative website, information sharing and enhanced partnerships.
- Task 9- Administration of the Community Stewardship Grants program for the Alameda Countywide Clean Water Program
- Task 10- Cynthia Butler, RCD staff, works in conjunction with Sharon Gosselin to coordinate the Clean Water Program's Public Information and Outreach Program for the ACFC&WCD and the Unincorporated Area.
- Task 12- Cynthia Butler serves as project manager and reports to Sharon for the update and enhancement of the Google Earth Watershed Map Program for Western Alameda County. This included managing subcontracts, overseeing the research needed for this task, and launching and publicizing the program.
- Task 14- Conservation at Urban Farms Mini-Grant Program, a new project was successfully implemented in FY15 by Susan Ellsworth, AC RCD staff member.

The activities undertaken for these tasks have been organized into the following four sections, which are the same as those in the MRP Section C.7 report:

- Public Outreach Events
- Watershed Stewardship Collaborative Efforts
- Citizen Involvement Events
- School-Age Children Outreach

## **Public Outreach Events**

### ***Watershed Science Expo at Palomares School (Task 2)***

The Watershed Science Expo was held at Palomares School, Castro Valley, on Friday 5/15/14, from 8:30-2:30 PM. Local schools in the San Lorenzo Creek watershed attended, along with teachers, principals and many parent volunteers. Students in 41 3<sup>rd</sup> grade classes from 13 schools in Castro Valley, Hayward and San Lorenzo participated. 1,134 students, 2 principals, 44 teachers, 273 chaperones, and 52 parent/community and PTA members attended and assisted with the event. Sherry Johnson, a retired credentialed science teacher from the school who originated the watershed education program at the school, once again expertly organized and oversaw the Expo.

The watershed education-focused day featured 22 watershed/hands-on science -focused activity stations for 3<sup>rd</sup> grade students from schools in the San Lorenzo Creek watershed, which includes Palomares Creek. The 17 Expo exhibitors, representing agencies, special districts, colleges and non-profit organizations throughout the East Bay, donated their time to run hands-on activity stations on natural resources and watershed science themes, and learning activities at the creek. Groups of students rotated through the exhibitors' stations during the course of the day. ACRCDD staff hosted a "creek critters" station alongside the creek at which students could practice identifying aquatic insects that are typically found in Palomares Creek, and also learn about watersheds and water quality protection by interacting with a watershed diorama.

A highlight of the Expo was the presentation of three consecutive Wildlife Associates outdoor assemblies which feature trained naturalists introducing several wild animals that are native to the area. Every class attending the Expo got to experience the program, which really engages the students in understanding the importance of healthy habitats needed to support the animals.

Another important element of the Expo were the 72 creek tours conducted by the 28 Palomares 3<sup>rd</sup>-5<sup>th</sup> grade students who were trained as "Creek Tour Guides" by Sherry Johnson during the Palomares School afterschool program. The Tour Guides also devised and ran 3 water-themed activity stations at the Expo. This is described further in the School Age Children Outreach section below. Palomares teachers also led 3 additional mini-stations at the Expo, as did 4<sup>th</sup> and 5<sup>th</sup> grade students, with simple, hands-on science activities, to alleviate crowding at peak hours of the Expo.

Students from all six grade levels from Palomares Elementary participated in the Expo activities. Also, all students at the Expo helped pick up litter in the immediate areas surrounding each of the activity stations, and also throughout the campus during the course of the Expo. This effort, developed and led by ACRCDD staff as part of their work at the Expo, is described below under Citizen Involvement Events.

Donations of materials for the Expo came from the Castro Valley Sanitary District, stores, small businesses, adult school, and Palomares Parent Club. The Palomares Parent Club

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organized and presented a lunch for the exhibitors, with most of the food donated. Classes attending the Expo donated a total of \$750 towards the cost of the event. The Alameda County Flood Control and Water Conservation District provide road closure materials and assistance, and once again, parking on an adjacent property was generously allowed by the landowner.

Evaluation: the teachers who received funding from the program to cover the cost of their classes being bussed to the Expo were especially appreciative, saying that they and their classes would not have been able to attend without that support. All 14 teacher responses were positive and cited the hands-on learning, science & creek education, and the fact that the activities were linked to the 3<sup>rd</sup> grade science standards.

(Unincorporated Area)

***Castro Valley Parent University- Resource Fair, a Castro Valley Unified School District-sponsored event (Task 1)***

The Hands-On Conservation program was featured at an outreach table at the Saturday 10/11/14 Parent University- an annual parent education and resource fair for Castro Valley parents. Display materials depicted the stewardship efforts of the HOC program at creekside areas in the Castro Valley area at which litter cleanups and habitat enhancement plantings are done. The resource fair takes place as one busy hour within the full day event that offers multiple workshops and talks for local parents.

Perhaps 70-80 parents attended the resource fair, with approximately 30 parents and youth group leaders visiting the HOC table, and actively inquiring about local stewardship opportunities for youth, youth groups and parents. 45-50 copies of handouts for the upcoming HOC workdays at nearby Bay trees Park were taken. This event is an excellent opportunity to make contacts with Scout and other youth organization leaders for involving their groups in HOC workdays in the Castro Valley area. Definitely worth attending annually, as these are engaged parents who live in the community near our HOC workday sites.

(Unincorporated Area)

***Community Service and Volunteer Fair, Logan High School, Union City (Task 1)***

ACRCD staffed one of about 15 tables at the Fair, a high school lunchtime event for 100-150 students and teachers, on 4/2/15. Display materials focused on Hands-On Conservation "Creek Care" and anti-littering messages. Two HOC program staff talked informally with 30 - 35 students about volunteer opportunities at the nearby Union City Civic Center Park, a HOC adopted spot in Union City. Students were encouraged to sign up to volunteer for the HOC 4/25 and 4/26 Earth Day cleanup events nearby, and about 60 mini-flyers for the events were handed out to interested students. HOC staff also talked with other environmental organization tablers, and several school staff members who were interested in the program for their students. 60 mini flyers announcing the nearby Hands-On Conservation stewardship activities for Earth Day were handed out. This event is an effective venue for publicizing the close-by stewardship opportunities available to students and to inform teachers of the program. Students need to earn Community Service hours and the HOC programs near the school help students with meeting these requirements; the

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school staff person who manages the Community Service Program also manages the event, so it is an opportunity to pitch the program directly to her.

(Flood Control District)

***Science in the Park, a biannual event coordinated by several cities and held at the Union City Sports Park (Task 1)***

This widely-publicized outdoor event held 10/4/14, attracted 300-400 students, their parents, and the general public from several surrounding cities. Many youth groups and organizations had hands-on activity tables at the event, along with environmental and community health agencies- nearly 60 in total. The Hands-On Conservation table focused on showing the impacts of litter on creeks, and table visitors were asked to write down their suggestions for creative ways to reduce litter. Approximately 125-150 event visitors stopping by the HOC table, with most writing anti-litter suggestions. Nearly 70 handouts were taken that listed the upcoming HOC stewardship workdays. This event is a fantastic outreach opportunity that takes place every other year.

(Flood Control District)

***Sunol AgPark- on-farm events for the public (Task 1)***

The Sunol AgPark hosted two large- scale events open to the public, the Harvest Festival on 10/5/14 and the Plant Sale/ Farm Tours event on 4/18/15. The AgPark is an organic farm on SFPUC watershed land in Sunol, operated by Sustainable Agriculture Education. The Hands-On Conservation program staffed an activity table at each event, which attracted event participants who learned about suitable native and edible plants for hedgerows, made custom wildflower seed packets and learned how to protect the beneficial insects that visit the hedgerow. The HOC program works with SAGE during the school year, helping to lead service-learning hedgerow planting and monitoring activities to students and community members who visit the farm.

The AgPark Harvest Festival attracted almost 600 people, with the HOC activity table staffed by HOC having 35-40 visitors, including a number of children, who enjoyed the seed packet project. The AgPark Plant Sale event attracted nearly 300 people, with 30-35 visitors to the HOC table. CWP Wildflower seed packets were given out at both events. 15-20 spray bottle labels with non-toxic pest repellent recipes (a CWP give-away) were popular at the Plant Sale event, and next year will take more to each event.

***Kathy Kramer's Bringing Back the Natives Garden Tour (Task 3)***

This project is a subcontract through ACRC. The annual native plant garden tour for the public was held on 5/3/15. Gardens featuring drought tolerant and wildlife-friendly plants were showcased. Kathy provided an annual report to Cynthia Butler with details of the tour and results.

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**Watershed stewardship Collaborative Efforts**

***Alameda Creek Watershed Forum (ACWForum) (Task 6)***

The objective of this task is to enhance partner coordination, knowledge, and effectiveness, in ways that help improve Alameda Creek watershed conditions.

Work under Task 6 supported the activities of the ACWForum, a watershed group in Alameda County. The group has a new website, developed in late 2014, [www.acwForum.org](http://www.acwForum.org), through which ACWForum members can post project and stewardship event information and from which a quarterly e-newsletter is sent.

Two major acwForum events were planned and facilitated in FY2015:

-A technical symposium "*Restoration in the Alameda Creek Watershed: Challenges & Solutions*" was held on 11/6/14, at the Castro Valley Library. 30 participants, including acwForum signatory member agencies, agency staff, local organizations, researchers, and students. Topics covered included restoration project case studies, permitting, plant pathogen concerns, data sharing efforts and opportunities, and monitoring project outcomes. All speakers participated in a panel discussion moderated by acwForum coordinator Ian Howell. An informal walking tour of ACFC&WCD's Castro Valley Creek daylighting & restoration project adjacent to the library was offered. Information tables with copies of pertinent reports, handouts and other materials on the event theme were made available. A number of symposium sponsors paid to have tables with display space and some were staffed during the lunch break. Stakeholders were encouraged to give brief updates on their activities; this information-sharing facilitated communication among stakeholders in regard to their watershed programs and stewardship projects. Event planning was conducted with Steering Committee members. Feedback was requested and received from participants via SurveyMonkey, in order to assess topics for the annual conference.

- The annual conference "*The View Upstream: Water's Journey Across Managed Land in the Alameda Creek Watershed*", was held 5/28/15 at the Zone 7 Water Agency offices. 40 participants total attended the event, with 17 attending the field tours. Attendees included acwForum signatory member agencies, agency staff, members of local organizations, researchers, students and members of the public.

Topics covered included California water supplies in drought context, local water supply availability & management, drought and long-term water supply planning, grazing management of watershed lands, climate and hydrologic modeling, with reference to the Alameda Creek watershed. All speakers participated in a moderated panel discussion.

A field tour of two nearby sites was held: (1) the Riparian Restoration & Channel Repair Pilot Project on Arroyo Mocho; (2) the Flood Protection & Trail Culvert Replacement Project on Arroyo Las Positas. Two special presentations were provided: (1) Alameda Creek Alliance's stewardship program; (2) ACFC&WCD's Explore Watersheds Project. Tables for four event sponsors and for handouts/information were made available.

Planning, agenda development, and speaker outreach was conducted by acwForum Steering Committee members. Feedback from stakeholders and participants received after previous two events was reviewed and considered during planning.

Email communication was maintained throughout the year; two in-person meetings were held, and additional engagement provided logistical assistance at the symposium and conference. Active participation in the committee increased from previous years.

The website [www.acwForum.org](http://www.acwForum.org) was used for calendar updates & information sharing. The website thoroughly reviewed for functionality, and then planning and outreach were conducted to prioritize upgrades and improvements. GreenInfo Network was retained to implement improvements and correct glitches. The *Forum Highlights* e-newsletter was released quarterly. Contents included: upcoming events, highlights of acwForum events, compilation of litter cleanup results within the watershed for Coastal Cleanup Day and Earth Day-related activities, tools and information for restoration and water conservation, and recognition of individuals making a difference in the watershed. Writing was contributed by acwForum stakeholder agencies for some pieces. The e-mail list was updated a minimum of two times (after events) to add new contacts.

acwForum activities were utilized as match/leverage for ACRCDD's USEPA Healthy Watersheds grant, which focuses on application of BMPs in the Alameda Creek Watershed to reduce non-point source pollution.

## **Citizen Involvement Events**

### ***Conservation at Urban Farms Mini-Grant Program (Task 14)***

The new mini-grant program, conceived, developed and implemented in FY2015 by RCD staff member Susan Ellsworth, funded installation of water quality improvement practices on urban farms and gardens with a focus on underserved communities in west Alameda County. The new program included the development of the grant application with web-based information on allowable conservation practices, development of a selection committee and the grant agreements, and provision of technical assistance to the grantees. Other program partners included the USDA's Natural Resource Conservation Service (NRCS), UC California Cooperative Extension and Project EAT in Alameda County. Practices installed or implemented at the farm sites included application of cover crops and mulch, planning and installation of bioswales, irrigation upgrades to minimize flooding, run-off and enhance efficiency, use of compost in lieu of fertilizer, installation or upgrades of rainwater catchment systems and construction of hedgerows and other native and insectary plantings to support integrated pest management in lieu of pesticide.

The following organizations received mini-grants (with a term of one year) for stormwater management and conservation improvements at their urban farm or garden sites

- International Rescue Committee's New Roots Program, Oakland
- Tennyson High School Farm and Community Garden, Hayward
- West Oakland Woods Flower Farm
- San Lorenzo High School Farm, San Lorenzo
- Phat Beets Urban Fruit Forest at Dover Park and Temescal Library, Oakland

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The following run-off prevention and conservation benefits were derived from these

collaborations:

- Collaborated with 5 farm/garden managers at 7 different sites throughout the ACFCWCD service area,
- Engaged more than 250 volunteers at more than 8 different public events and numerous informal classes and workshops
- Anticipated diversion of more than 4300 gallons of run-off water from streets or stormdrains to be used onsite.
- Planted more than 677 primarily native plants as part of hedgerows, berms or other erosion-prevention mechanisms
- Installation or improvement of drip irrigation systems to replace sprinkler or other less efficient and run-off inducing irrigation techniques.
- Avoided use of more than 580 lbs of fertilizer/year
- Extensive use of mulch, compost, cover crops, berms and straw wattles to assist with on-site infiltration and prevent erosion of 1000 cubic yards of topsoil.
- Installed signage explaining conservation and stormwater management improvements at 3 sites.

(Flood Control District)

#### **Community Stewardship Grants Program (Task 9)**

Alameda County RCD administers the Alameda Countywide Clean Water Program's Community Stewardship Grant program. Work began in March 2015 on the 2015 grant cycle, with \$25,000 in grant funding being awarded to six grantees. RCD tasks included developing the updated RFP and flyer, publicizing the grant, preparing grant summaries and materials for the workgroup, developing the agreements, making payments, providing reports to the PIP committee and answering grantee questions; all of these activities were done in close coordination with the CSG workgroup. Projects from the 2014 cycle were mostly completed, with several needed time extensions into spring 2015 to complete the projects. As of 6/30/15 only one grant project from the 2014 cycle was not yet complete.

#### **Youth Stewardship - Hands-On Conservation (HOC) (Task 1 )**

The Hands-On Conservation Program provides opportunities for outdoor stewardship activities for young adults of middle school through college age to increase knowledge of natural resources and protection of watersheds through hands-on activities that include water quality improvement activities at local creeks, stewardship education and creek side habitat restoration. Activities include age-appropriate elements of watershed education and career development; these are described in the School-Age Children Outreach section.

Hands On Conservation workdays are publicized at the [www.handsonconservation.org](http://www.handsonconservation.org) website, which also features event registration and liability waiver form downloads. The HOC workday sites at which plantings have been installed and trash cleanups done have been formally adopted through the ACFC&WCD Adopt A Creek/Spot program. In addition to the workdays with volunteers, the adopted spots are maintained by HOC staff on a regular basis, and coordination with the site landowner occurs on a regular basis. Over the past two years, however, the ongoing drought has impacted the habitat planting portion of the program. Part time HOC staff members help with HOC program events and

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workdays when a large turnout of the public is expected.

HOC staff continued to develop and maintain partnerships and co-host events with other groups such as Earth Team, the Friends of San Lorenzo Creek, the Alameda Creek Alliance, Sustainable Agriculture Education, agency landowners and others, in order to enhance the offerings of the HOC program.

Activities during 2014/15 included these events:

***Union City Civic Center Park, Union City (Task 1)***

This is an adopted spot through the ACFC&WCD Adopt A Creek/Spot program. The park features a flood control channel with an adjacent paved walking trail that extends beyond the park, following the channel 1/8 mile to Alameda Creek. The site is very close to Logan High School, which is a primary source of volunteers for the Hands-On Conservation workdays.

Workday activities included trash removal from creek banks, planting and maintaining irrigation for native plants in a creek side trail area, invasive plant removal, litter and trash cleanup along the creek trail and throughout the park. Students from Logan High School and other community volunteers participated. At the start of each workday, HOC staff briefed the volunteers on safety measure and the importance of reducing litter and other pollutants that impact local creeks.

Coordination was maintained with Union City Parks staff to maintain tools in the shed at the site and to provide plants and wildflower seed for planting at the site. Previous plantings continue to be maintained with weeding, mulching and irrigation gel replacement. Coordination was maintained with Logan High School teachers and the school volunteer/career center to notify students of volunteer opportunities and to confirm student volunteer credits.

Workdays at the adopted spot in 2014/15 include:

- An Earth Day event was held with the Hands-On Conservation program on 4/26/15, with 8 volunteers collecting litter from the creek banks, creek trail and park trails. A photo of some of the group holding the I Won't Litter pledge sign was submitted to the CWP's Luv the Bay campaign, and some of the volunteers took selfies and submitted them.
- Make a Difference Day was held at the park on 10/25/14 with at more than 40+ volunteers participating in conjunction with the City of Union City Parks Department, which supplied many native trees that were planted in the park by volunteers, in addition to a litter cleanup in the vicinity of the tree planting effort. Invasive plants were also removed in the planted areas.
- A Martin Luther King National Day of Service creek cleanup day was held at the park on 1/19/15 with 14 volunteers, most from Logan High School.

"Creek Care" measures were introduced informally to volunteers as they worked to engage them in the process of helping improve water quality in their neighborhood creeks. The duck pond in the park and adjacent flood control channel in the park provide opportunities for pointing out stormwater pollution impacts and some mitigating efforts to improve the water quality for the wildlife that live there year round.

Volunteers each received reusable CWP shopping bags

**Trash total: A total of approximately 1.5 cubic yards of trash, litter and recyclables were gathered at this site. Recyclables that were not muddy or contaminated were recycled, and Union City parks hauled the trash away. In addition to the bags there was approximately 1 cu yd of bulky items gathered between the three cleanup events.**

All volunteers were given reusable trash bags provided by the Clean Water Program; they were well-received by the volunteers.

(Flood Control District)

***Sunol Agpark Hedgerows, Sunol (Task 1)***

Stewardship workdays were held in Sunol at the Sunol AgPark, an organic farm located along the edge of the Arroyo de la Laguna. Students and community volunteers planted native and drought tolerant flowering plants in the hedgerows, wildflowers in the hedgerows and grass filter strip, and removed invasive plants and weeds in the grass filter strip and native plant hedgerow. The hedgerows provide habitat for pollinators and beneficial insects. The grass filter strip prevents sediment from the farm fields from entering the creek corridor.

- Hands-On Conservation participated in a Sunol community workday that was led by Sustainable Agriculture Education (SAGE) with HOC tools and staff to help the four hardworking volunteers with planting, on 2/21/15. Native flowering plants and grasses were planted in the hedgerow.
- HOC staff assisted with service learning hedgerow planting workdays for three Oakland schools: 30 Castlemont High School students on 10/31/14, 20 Head-Royce School students on 3/6/15 and 20 International High School students on 6/5/15. A total of 8 teachers/chaperones also assisted. SAGE (Sustainable Agriculture Education) led the project, with educational focus being the role of hedgerows in supporting beneficial insects and pollinators which are needed for the farm's organic program. Volunteers also helped with creating and installing plant signage and with mulching the plantings. RCD staff assisted with the planting workdays as well as explaining the connection between farm and creek and the stewardship practices that are applied. About 12 plants were installed in each of the three 100' sections of hedgerow.

-The HOC program tabled at two AgPark events, the Harvest Festival in October 2014 and the Plant Sale/Farm tours event in April 2015. These are described under Public Outreach Events.

(Unincorporated and Flood Control District)

***Bay Trees Park "Creek Care" workdays, Castro Valley, Hands-On Conservation***

"Creek Care" workdays continued in Bay Trees Park, an adopted spot of the Hands-On Conservation program; stewardship activities reflected the actions that residents can take to protect creeks and enhance wildlife habitat around them. High School students and community volunteers worked to repair bender board at the site, planted and monitored

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native plants, removed weeds, and cleaned up trash along the creek banks in the park. Approximately 50' of bender board was installed and 200' repaired, 16 drought-tolerant native plants were installed with irrigation gel, mulch and plant caging. Litter, trash, debris and recyclables were collected from creek side areas and the park trail. The ongoing drought has reduced the ability to continue planting at the site, hence fewer plants installed this year.

-On Saturday 1/24/15 a group of 16 students and 2 EarthTeam leaders from San Lorenzo High School worked with HOC at Bay Trees adopted spot and planted native plants, and cleaned up litter and debris along the creek. They publicized their efforts on their website and through their social media outlets. The Earth Team organization provided the bus for the students and helped lead the students in the planting and creek cleanup effort.

-On 9/27/14, National Public Lands Day, a HOC community workday was held at Bay Trees but the turnout was low- two volunteers, most likely because it was the week after Coastal Cleanup Day, so this event will not be offered again. The two volunteers did work hard with HOC staff on bender board repair, invasive plant and weed removal, and an extensive litter cleanup along the creek and pathways in the park; many spray paint cans were picked up from the creek channel in addition to the trash.

On 3/28/15 the flowering plants at the site were monitored for beneficial insect visitation by a California Naturalist program volunteer for the 2<sup>nd</sup> consecutive year.

On 11/15/14 a "Creek Care" workday was held with several Castro Valley residents and park neighbors, who enjoyed planting in their neighborhood park. One of the volunteers was a well-known steward of Castro Valley creeks, who picks up litter regularly from creek trails.

CWP reusable trash bags were given to volunteers.

The Bay Trees adopted spot site was maintained and monitored an additional five times during the year by staff in order to maintain irrigation for plants in drought conditions, to repair broken bender board and weed in order to reduce fire hazard. The bender board is increasingly becoming a tripping hazard, due to park users running down the slopes and not following the trails. Next fall the bender board will be replaced by straw wattles.

Coordination with the park manager was maintained and park maintenance staff provided improved access to irrigation water for the project.

**Trash total: A total of approximately 1.5 cubic yards of trash, litter, spray paint cans/paint trays and recyclables were gathered at this site. Recyclables that were not muddy or contaminated were recycled, and park staff took the trash and the bulky trash items.**

(Unincorporated Area)

***Castro Valley Creek, "Creek Care" workdays, Castro Valley- (Task 1)***

Workdays at this location, a highly visible daylighted and restored urban creek adjacent to the community library, which features a widely used creekside trail with interpretive signage and native plantings attract many community members who appreciate the small but beautiful riparian corridor in the heart of downtown Castro Valley. It also appears that repeat cleanups, at least four 4 per year are needed in order to effectively handle the load

of litter and accumulation of homeless belongings which gradually build up in the creek channel and along the trail.

Two cleanups were held in FY2015, but there will most likely be an increase in this number next year.

-The annual Earth Day creek/trail cleanup event was held at Castro Valley Creek along the trail that extends from the Castro Valley Library to Castro Valley Blvd. on 4/25/15. The creek trail was cleaned up, invasive plants removed and native riparian plants along creek side trail were maintained. Approximately 1000 linear feet of creek bank and trail was cleaned up by 25-30 student and community volunteers and 10 citizens doing community service under county supervision. Bags of litter and recyclables were collected as well as bulky items from small homeless encampment spots. Many large bags of invasive plant material were also removed from the creek banks. Two cubic yards of wood chips were brought in for the event and applied as mulch on the planted areas paralleling the creek trail, which were also weeded.

The Earth Day event was primarily a project of other involved agencies, especially County Supervisor Nate Miley's office, Castro Valley Sanitary District, the local group Friends of San Lorenzo Creek; and Alameda County Flood Control and Water Conservation District, which picked up the bags of trash. A pre-cleanup informal presentation was given by the Friends group on the creek restoration that had taken place at that spot. The Hands-On conservation program provided tools and equipment and lead one of the groups of volunteers in weeding the plantings. The Earth Day cleanup at this spot is the Friends of San Lorenzo Creek's primary annual service project, and they express appreciation for the help from the Hands-On Conservation program.

-Another creek trail cleanup was held on 9/7/14 with 10 volunteers from a local church, at which the creek trail and bioswale areas around the library were cleaned up and weeded.

**Trash total: approximately 3.0 cubic yards of trash, litter, recyclables and bulky items were gathered at the site. Recyclables that were not muddy or contaminated were recycled, and Alameda County Flood Control and Water Conservation District hauled the trash, bulky items and plant material away immediately after the event. Plant material was composted.**

(Unincorporated Area)

***Earth Day Cleanup at Palomares Creek and School, Castro Valley (Task 2)***

A school campus, creek and trail maintenance day was held as part of the Castro Valley Earth Day event on 4/25/15. 53 parent volunteers, students, teachers and community members worked at the school to clean up the campus, apply mulch, to clear debris and provide erosion control along the trail, remove invasive plants and poison oak in preparation for the school's 5/15/15 Watershed Expo event. Approx. 400-500 linear feet of creek area/ trail was improved.

**Trash total: 1 cubic yard. Recyclable materials were gathered separately and placed in recycling bins on campus.**

(Unincorporated Area)

***Alameda Creek, Niles "Creek Care" stewardship workdays (Task 1)***

Hands-On Conservation program works in collaboration with the local non-profit Alameda

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Creek Alliance at their adopted spot along Alameda Creek in Niles, near the East Bay Regional Park District's Niles Staging Area parking lot. Both invasive plant removal and litter cleanups are done by volunteers, which include neighbors of the area, high school students and members of Alameda Creek Alliance.

- An Earth Day event was held on 4/25/15 and a Coastal Cleanup Day event was held on 9/20/14, which attracted a total for the two events of 70 volunteers. The Hands-On Conservation program helps with event publicity, providing tools and equipment and leading small groups of volunteers primarily doing litter cleanup. ¼ mile of creek bank was cleaned up by volunteers at these events. Volunteers also worked with ACA staff Ralph Boniello on invasive plant removal. He also talks with the group about the Alameda Creek fisheries that the Alliance has been working hard to restore with the cooperation of local agencies. The Niles Staging Area is an excellent spot for cleanups, as it has the necessary facilities and good access to both the Alameda Creek flood control channel and the natural creek upstream.

- HOC staff led several workdays in conjunction with a group of students from Irvington High School in Fremont, who were engaging in a study of the impacts of invasive plants on riparian areas; workdays held on 11/16/14, 12/14/14 and 2/14/15). They also picked up litter and debris in the area where they worked.

**Trash total: at least 2.5 cubic yards of trash, litter and recyclables were collected by volunteers at the site. Recyclables that were not muddy or contaminated were recycled, and Alameda County Flood Control and Water Conservation District hauled the trash, bulky items and plant material away from a pickup spot along Old Canyon Rd. Plant material was composted by the county.**

*(Flood Control District)*

#### ***School-wide Trash Cleanup at Palomares School Watershed Science Expo (Task 2)***

A school wide Campus Trash Cleanup was held during the Palomares Watershed Science Expo on 5/15/15 (Expo described above under Public Outreach Event). The trash pickup activity was done by groups of students, exhibitors, teachers and volunteers at each of the 22 stations during the day. Each activity station was given a trash bag with instructions for the exhibitor to have each group of students pick up trash from the area surrounding their station on the campus. Trash was collected at the end of the day from each station and recycled by a team of Jr. Naturalists. The campus and creek area was left clean at the end of the Expo. A storm drain is situated in the schoolyard, which leads directly via a short pipeline to Palomares Creek, so cleanup is critical. The storm drain pipe outfall at the creek was pointed out to students at the "Creek Critters" activity station alongside the creek.

**Trash total: .015 cubic yards of litter and recyclables was gathered by all in attendance at the Expo**

*(Unincorporated Area)*

## **School-Age Children Outreach**

### ***Hands-On Conservation (Task 1)***

The Hands-On Conservation Program provides opportunities for outdoor stewardship

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activities for young adults of middle school through college age to increase knowledge of natural resources and protection of watersheds through hands-on activities that include water quality improvement activities at local creeks, stewardship education and creek side habitat restoration. Activities include age appropriate elements of watershed education and career development.

See the above sections of this report for specific information on 2014/15 HOC workdays and outreach events.

The education-related aspects of the Hands-On Conservation program include:

- HOC and partner organization staff communicate with volunteers during the workdays, in two different ways: at the start and conclusion of each workday volunteers are educated in the goals and reasons for undertaking the stewardship project, the watershed protection strategies being employed, and the positive impact that the day's work will have. Throughout the events, more informal conversations are had with volunteers to discuss these themes and also the particulars of the stewardship practices being employed during the project. The impacts of litter on creeks, lakes and wetlands is a topic that greater attention is given to, which is reinforced as the litter is being picked up during stewardship workdays. Career and education information is also passed on in relation to the level of interest of the group or individual volunteers.

***Palomares School Watershed Education, Castro Valley (Task 2)***

Through this program, hands-on, site- specific creek and watershed lessons are taught to Palomares students and to classes from schools in the San Lorenzo Creek watershed. Palomares Creek, which flows along the edge of the school campus, was restored by the Alameda County Flood Control District and other partners in 2000-2001. A creek side trail and outdoor classroom area was also developed at that time. A curriculum that met state standards was developed for the program, and it continues to be utilized by Sherry Johnson, a credentialed teacher and ACRCDD staff member. Biweekly creek science lessons are taught at the school, and after-school programs include Junior Naturalists and Palomares Creek Tour Guides; these are discussed below.

One of the elements of the program that involves public participation, the campus-wide cleanup on Earth Day, is covered in that section above. The Palomares School Watershed Expo event is discussed under the Public Outreach Event section above.

(Unincorporated Area)

***Bi-Weekly watershed and creek science lessons during the school day at Palomares School (Task2)***

-Creek and watershed lessons were conducted between October and June in the 2014/15 school year for Palomares students in K-5<sup>th</sup> grades. 108 watershed-based lessons were taught to classes of 24-32 students (1<sup>st</sup>-5<sup>th</sup> grades) at the school campus by the credentialed teacher and watershed educator Sherry Johnson. Creek lessons are part of regular science instruction during the school day and meet state standards. Numerous visits are made to the creek for hands-on lessons to reinforce classroom learning. Topics cover water quality studies, creek ecology, soil/geology, wildlife and plants, and bird life in relation to the creek and larger San Lorenzo creek watershed.

-Hands-on stewardship activities, including installation of campus plantings of native shrubs and grasses, bioswale maintenance (4<sup>th</sup> and 5<sup>th</sup> grades), invasive plant removal (4<sup>th</sup> and 5<sup>th</sup> grades), and pollinator garden planting (1<sup>st</sup> grade) continued to be done at the Palomares campus by the students, led by Sherry. 5<sup>th</sup> graders monitored water quality and reported results.

-A CA Dep't. of Fish and Wildlife "Trout In the Classroom" program again took place this year at the school; 1<sup>st</sup> and 2<sup>nd</sup> grade students raised and released (at Shadow Cliffs lake) fingerling trout; other classes at the school visited the fish in the classroom and learned about their care and ecology. The program engaged 147 Palomares students and 5 teachers.

-The Palomares School principal and teachers consider creek lessons to be a part of their regular science instruction, since creek lessons meet state standards. The creek lessons are featured at an annual presentation to the Castro Valley School Board by the school's teachers, and for the Palomares Open House. Many parents have their children attend this school because of the creek studies program.

(Unincorporated Area)

***Palomares School after-school programs***

A Junior Naturalists after school program for 46 1<sup>st</sup>-5<sup>th</sup> grades and a Creek Tour Guides program for 28 3<sup>rd</sup>-5<sup>th</sup> graders was held between April and June 2015. They are open to Palomares School students and other schools in the watershed. The program is conducted at Palomares Creek on the school campus at the end of the school day and features hands-on activities that cover water quality studies, creek ecology, conservation activities and stewardship. Tour Guides learn content and methods for leading creek tours at the annual Watershed Expo- and this year led 72 tours. The Tour guides also staffed 3 activity tables with a creeks theme at the Expo, and the Jr. Naturalists helped with separating the recyclables at the Expo campus litter cleanup.

Two Palomares teachers lead the two after-school programs, and 6 parent volunteers assisted them. The Jr. Naturalist and Tour Guides programs were highlighted at the Palomares Elementary Open House event in May and at an annual presentation to the Castro Valley Unified School District Board of Directors.

(Unincorporated Area)

***Palomares School –creek program outreach to community (Task 2)***

Sherry Johnson utilizes creek studies materials and expertise from the Palomares program to share with other entities in the watershed who wish to do hands-on learning about creek life and restoration. This is an efficient and appreciated use of the learning resources that have been developed over the years.

Activities included:

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-12 Palomares Tour Guides and Sherry Johnson demonstrated creek activity stations for a team of visiting summer school teachers on 5/27/15. The tour guides were able to share what they had learned about the watershed and the plants and animals that live there. Visiting teachers were able to determine how to better develop their lessons.

-The science program at Washington Middle School (San Lorenzo) borrowed and utilized Palomares creek program materials during the week of May 4<sup>th</sup> for a field trip to Samuel Taylor State park; water quality testing and other creek investigations were done by students there. 300 students participated in the field trip, along with 6 teachers.

(Unincorporated Area)

### ***Additional information on Contract Tasks 10, 12***

#### **Task 10 Storm Water Information and Outreach Assistance**

Cynthia Butler, RCD storm water outreach coordinator, works in conjunction with Sharon Gosselin as the Alameda County Clean Water Program Outreach and Public Information Coordinator.

Cynthia's activities include coordination and leadership activities with the PIP subcommittee, coordination of outreach events and materials, local media and communications activities and event planning, and involvement and leadership with a regional program for BASMA. Cynthia is responsible for reporting on Public outreach and Education for the MRP; her activities are covered in those reports. Cynthia collaborates with various RCD staff in implementing her projects.

#### **Task 12 Interactive Watershed Maps**

Cynthia Butler also manages Task 12. In FY15 she worked to complete the task, which involved the development of an interactive watershed map based on Google Earth, two subcontracts to assist with the project, coordination with partners who prepared the documents for posting on the county website, and hiring and overseeing staff who wrote and edited watershed information for the map and website. The interactive watershed map project was successfully launched and publicized. Work on integrating the use of the map program with existing youth environmental education programs is underway and will continue into FY16.

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Report submitted by:  
Amy Evans, Resource Conservationist  
Alameda County RCD  
3585 Greenville Rd., Suite 2, Livermore, CA 94550  
(925) 371-0154 x 112  
Amy.evans@acrcd.org

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**Tule Ponds at Tyson Lagoon**  
Summary July, 2014 – June, 2015  
submitted by Math Science Nucleus

**School-Age Education Programs**

**FIELD TRIPS**

Throughout this time period 110 field trips of schools throughout Alameda County were conducted for a total of approximately 3000 children and 650 adults that attended in the field trip. The classes ranged from Kindergarten to sixth grade. We also had 5 college classes with a total of 150 students and 5 teachers.

A survey (two examples included page2,3) conducted with the 100 teacher gave a very good to excellent rating of overall content and tour that Math Science Nucleus staff provided. Many pointed out the ability to touch and feel nature in a closed and safe environment. All felt the classes fulfilled their science requirements in each of their particular grade. All classes sign in with a teacher signature and a copy is provided to Alameda County Flood Control and Water Conservation District.

The goal of each lesson is listed on our website  
(<http://msnucleus.org/classes/fieldtyson.htm>)

**COLLEGE CLASSES**

Ohlone College ( Dr. Rahman) and California State Univeristy East Bay (Dr. Stronk, Dr. Mary Fortune, and Dr. Mike Massey) took a total of 5 classes with about 250 total students for various water, environmental, or educational themes.

**INTERNSHIPS**

We also had 3 scientific internships this year on plants and chemical analysis of water. The Plants group was headed by Stanley Gu, a senior at Mission San Jose High School. He supervised about 10 interns. They took care of restoration and butterfly plants. He also taught volunteers about butterfly plants. Samantha Yi (Irvington HS Senior) and Bharvee Patel (Kennedy HS Senior) supervised the chemical testing during the year. Their data was provided to the District (attached as Appendix II)



### 2014-15 Tule Ponds Field Trip Program Survey Teacher Form

Please help us continue to improve our educational programs and services by taking a few minutes to complete this survey.

1. Which program did you participate in?

- 1<sup>st</sup> Grade Plant and Animal Environments       2nd Grade Plant and Animal Changes  
 3<sup>rd</sup> Grade Exploring Wetlands                       4<sup>th</sup> Grade Changes Through Time  
 5<sup>th</sup> Grade Stormwater and Wetlands Chemistry     6<sup>th</sup> Grade Earthquakes and Ecology  
 Other

2. Rate the Presentation:

	Excellent	Very Good	Good	Fair	Poor	N/A
a. Electronic Storybook	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Outdoor Hike	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Materials and Activities	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Rate the Program:

	Excellent	Very Good	Good	Fair	Poor	N/A
a. Educational value for your students	<input checked="" type="radio"/>	<input type="radio"/>				
b. Overall quality of lesson and activities	<input checked="" type="radio"/>	<input type="radio"/>				
c. Age appropriate materials and activities	<input checked="" type="radio"/>	<input type="radio"/>				

4. How likely are you to request a future field trip to Tule Ponds? (circle)  Yes  No  Not Sure *can we do it now for next year?*

5. How likely are you to recommend the Tule Ponds Field Trip to another teacher? (circle)  Yes  No  Not Sure

6. How did you hear about us? BaySci

Optional:

Teacher Name: Delight Evans-Vesquez

Email: devans@newarkuni.fied.org

School: James Graham

*M*

Questions? Comments?  
 Please contact: [msn@msnucleus.org](mailto:msn@msnucleus.org)  
 (510)790-6284



## 2014-15 Tule Ponds Field Trip Program Survey Teacher Form

Please help us continue to improve our educational programs and services by taking a few minutes to complete this survey.

1. Which program did you participate in?

- 1<sup>st</sup> Grade Plant and Animal Environments      2nd Grade Plant and Animal Changes  
 3<sup>rd</sup> Grade Exploring Wetlands                      4<sup>th</sup> Grade Changes Through Time  
 5<sup>th</sup> Grade Stormwater and Wetlands Chemistry    6<sup>th</sup> Grade Earthquakes and Ecology  
 Other

2. Rate the Presentation:

	Excellent	Very Good	Good	Fair	Poor	N/A
a. Electronic Storybook	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Outdoor Hike	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Materials and Activities	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Rate the Program:

	Excellent	Very Good	Good	Fair	Poor	N/A
a. Educational value for your students	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Overall quality of lesson and activities	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Age appropriate materials and activities	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How likely are you to request a future field trip to Tule Ponds? (circle)  Yes    No    Not Sure
5. How likely are you to recommend the Tule Ponds Field Trip to another teacher? (circle)  Yes    No    Not Sure

6. How did you hear about us? *We've come to Tule Ponds every year for 5 years or more. We value this outdoor learning opportunity.*

Optional:

Teacher Name: Mrs. Dale Lew      Email: dlew@slusd.us

School: James Madison San Leandro

Questions? Comments?  
 Please contact: [msn@msnucleus.org](mailto:msn@msnucleus.org)  
 (510)790-6284

## TEACHER WORKSHOPS

Staff conducted 4 workshops throughout the Academic calendar 2014-15.

August 4, 2014 30 Teachers 9-3:30 (6.5 hours)  
October 27, 2014 25 teachers 5:30-8:30 (3 hours)  
October 25, 2014 25 teachers 9-3:30 (6.5 hours)  
January 22, 2015 20 teachers 2-4:30 (2.5 hours)

A total of 18.5 hours with 100 teachers attending. Most of the workshop centered on the field trips that we provide to help teachers have a better experience when they bring their students. Workshops were open to all teachers in Alameda County, but almost 90% are from the southern Alameda Schools.

**Open House - Going Back through Time** April 15. Times open to the public was 11-5 and included tours of the facility including basic overview and 2 separate bird tours led by Phil and Pat Gordon, noted bird watchers. We had about 350 people walk through the facility including children's activities where students learned about native plants and how the Ohlone Indians lived long ago.

**Lecture Series** - Walk throughout Tule Ponds and enjoy the quiet of this unbelievable treasure in Fremont. Either go on a guided tour with Naturalist James Link or walk on your own. See how the flora and fauna changes throughout the spring. Tour started at 3:30 and goes until 5:00. See the changing of the seasons.

A total of 5 days (Jan 30, Feb 27, March 27, April 10, and May 22), a lecture followed by a tour attracted a variety of people to attend, especially girl and boy scout groups. Average informational packets were provided, was about 35-40 people each event day (approximately 200 people)

## **Citizen Involvement Events (Community Service/Service Learning)**

We conducted community service every Sat from 9:30-12:30 and had approximate 1500 students provide 3 hours of community service (4500 hours). We also had "special days" for community groups including 10 weeks with California State University East Bay, Freshman Day of Service with 20 students for 4 hours each with a total of 800 hours. We also had a Chinese service group for Make a Difference Day with a total of 80 students with 320 hours total.

We also had 4 Eagle projects complete with a total of 120 helpers with an approximate total of 1000 hours (report below). We had 1 Gold Award project project with a total of 150 hours for the entire project (report below – Appendix I).

**APPENDIX I**

**EAGLE PROJECTS July 1,2014- June 30, 2015**

<a href="#"><u>Jerry Lin</u></a>	<b>Troop 449</b>	<b>Sign and landscaping in Butterfly Meadow</b> (complete, September, 2014)
<a href="#"><u>James Weiland</u></a>	<b>Troop 102</b>	<b>Erosion Control at Station 6</b> (complete, October,2014)
<a href="#"><u>Daniel Chen</u></a>	<b>Troop 449</b>	<b>Picnic Benches in Butterfly Meadow</b> (complete, November, 2014)
<a href="#"><u>Joseph Wiebe</u></a>	<b>Troop 102</b>	<b>Retaining walls and Landscaping facing Pond C</b> (complete, November, 2014)

**GOLD AWARD (GIRL SCOUTS)**

<a href="#"><u>Jane Doan</u></a> (Troop 60280, Fremont)	<b>Designing Flower Boxes for Monarch Butterflies</b> (complete March, 2015)
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# Sign and landscaping in Butterfly Meadow

*by  
Jerry Lin  
Troop , Fremont*



For my Eagle Project, I created and installed a sign post surrounded by a log retaining wall. The sign was routed and is located in the Butterfly Meadow. I held multiple short workdays to paint the letters and apply multiple layers of varnish onto the sign, and then installed and built the log retaining wall around it on the last day at Tule Ponds.



*area before terracing*



*clearing area*

I would like to thank **Dale Hardware, McIvor's Ace Hardware, Hulbert Lumber, and Ghodspeed Woodcraft** for donating and supplying the materials for this project.

I would like to thank the following scouts and adults for coming to the workdays to show their support: **Hugh Smith, Sheng-Hao Huang, Evan Nusaputra,**

**Jonathan Nguyen, Vineet Advani, Shrey Vasavada, Patrick Rivera, Steven Wilson, Viet Nguyen, Surrender Goli, and Di Hsu.** I would also like to give a special thanks my counselor **Mr. Wilson**, who spent so much of his time to help guide me through this entire learning process, **Dr. Blueford**, who always gave me helpful feedback promptly, and my parents who supported me the whole time. This project could not have succeeded without everyone's help.



*terracing area*

# Erosion Control at Station 6

*by  
James Weiland  
Troop 102,  
Fremont*



I lead people in building 3 retaining walls out of logs. The walls were needed to support the tree's in the area, and prevent them from falling over because of erosion. On the first work day, I lead boys in digging 3 trenches for the walls. Then we set the logs in place for 2 of the retaining walls, filled it in with dirt, and packed the dirt together with a tamper, so that they were sturdy. Then we took all the leftover dirt and filled in the retaining wall. On the 2nd work day, I led people in re-digging the 3rd trench (it was filled back in while working on the other 2). Then we set the logs in place for the 3rd wall, filled it in with dirt, and used the tamper to pack it all together. Then we used the leftover dirt to fill in the retaining wall. During the third workday, I led people in extending 2 of the retaining walls, to prevent erosion from pulling the dirt away from the retaining walls. Then we pulled out all the weeds around the wall. After that, we laid down mulch to make the area good for planting, and to make it look nice.



*terracing*

*compacting area*

Thanks to the following people who helped in the project: Joshua Pabst, Joseph Wiebe, Zachary Genthner, Jonathan Weiland, Ares Gonzales, Bryce W. Jung, Michael Wiebe, Jim Colvin, Mayra Colvin, Christopher Colvin, Thomas Colvin, Lisa Weiland, Jeremy Vasquez, Bryce W. Jung, Preston Stevens, Vince Milani, Joe Ballard, Alex Makhratchev, Peter Gordon, Nick Milani, Dino Milani, Lisa Weiland, Joanna Weiland, and Leonor Martinez.



*preparing retaining walls*



*finished area*

# Picnic Benches for Butterfly Meadow

*by  
Daniel Chen  
Troop 449,  
Fremont*



For my Eagle project, I built 2 picnic tables to be put in the Butterfly Garden of Tule Ponds as well as cleaning up the area where the tables would be placed. These tables were to be used by students that come to Tule Ponds to eat lunch at, as well as providing a place where they can learn about the environment around them. For the first work party, I lead my team to stain all the lumber pieces that would need to be used to build the picnic tables. During my second work party, my team worked on assembling the picnic tables together. For my last work party, I lead my team in the transportation of the tables from my house to Tule Ponds, as well as leading them to clean up the area where the tables would be placed.



*building benches*

*moving benches to Tule Ponds*

I am very thankful for all the help that I had received during this project. I would like to thank my parents for encouraging me along the way, as well as Mr. Seymour and Mr. Hunt for all their helpful advice and tools they let me borrow. I would also like to thank my neighbors Joe and Ernie for letting me borrow their tools, which without this project would not have been possible. I'm thankful for all the help I received from my troop members as well as my friends. During my first work party I had help from Tyler Hunt and my parents. My second work party I had help from Huy Nguyen, Henry Gu, and Raymond Kao and my parents.. For my final work party I had help from the Hunt family, my family, Jeffrey Zhang, and Jeffrey Galloway. Finally I would like to thank Hulbert Lumber for their generous discounts, and Dr. Blueford for this opportunity to make a difference in my community.



*clearing area*



*leveling and installing*

# Retaining Walls and landscapin g across from Pond

**C**

*by*

*Joseph Wiebe*

*Troop 102,*

*Fremont*



I led a group of boys in installing 10 retaining wall sections in the slope behind the Tule Ponds building. First I contacted log companies and found places willing to donate logs to my eagle project. Then I, along with help from some scouts, collected these logs and transported them to the Tule Ponds worksite. Then we prepared the slope for the digging of trenches. Next we dug trenches in which to place the logs. While some boys were digging trenches, others were preparing the logs for placement in trenches (i.e. selecting logs, trimming logs, cutting logs, etc.). Then I led them in placing logs into the trenches and backfilling the log retaining wall sections with dirt before tamping the dirt down. Next we planted a native plant behind each retaining wall. Last of all, we collected wood chips through donation and spread them across the whole of the slope.



*clearing area*



*selecting logs*

**Volunteers:**

On October 25, 2014: Carol Wiebe, Michael Wiebe, Mayra Colvin, John Ball, Bryce Jung, Jim Colvin, Chris Colvin, Zachary Genthner, and James Weiland

On October 28, 2014: Carol Wiebe, Michael Wiebe

On November 1, 2014: Carol Wiebe, Michael Wiebe, Mayra Colvin, Bruce Pabst, Joshua Pabst, Preston Stevens, Sara Colvin, Thomas Colvin, John Ball, Bryce Jung, Jim Colvin, Noah Koep, Brian Walker, Don Gordon, Peter Gordon, Deano M., Nick M., Joshua Cardenas, and Martin Cardenas

On November 7, 2014: Carol Wiebe, James Weiland

On November 8, 2014: Carol Wiebe, Michael Wiebe, Mayra Colvin, Bruce Pabst, Joshua Pabst, Preston Stevens, Sara Colvin, Thomas Colvin, Chris Colvin, Zachary Genthner, Noah Koep, Keith Wiebe, Joe Ballard, Jacob Weiland, John Clinton, Joseph Clinton, and Elijah Koep

**Donations:**

Arbortech and Kelly Tree Services.



*creating retaining walls*



*a job well done*

# Designing Flower Boxes to attract Monarch Butterflies at Tule Ponds

**Jane Doan**  
GOLD AWARD  
*Troop 60280, Fremont*



The community issue I have chosen before was the barren area of Tule Ponds and how that area disrupts the ecosystem of the reservation but I've narrowed down the issue to the declining numbers of the monarch butterflies. On a small

and local scale, the monarch butterflies are a huge part of Tule Ponds reservation as they pollinate the flora in the area. On a larger scale, these organisms are a major component of the biodiversity of the Earth are indicators of the environment. Without them, the environmental tasks of pollination and pest control would be left unsupervised. If their existence was no longer here, the effects will be rippling; immediate effects would be the pollination and pest control loss which then disrupts the ecosystem and in turn affecting us. In my community issue, the amount of butterflies at Tule Ponds has been declining. This affects the overall ecosystem of the area because without the butterflies, the plants would not have any other organisms to pollinate them, other than bees.



*building the frame*



*filling up the boxes*

To resolve the issue, my project uses the barren area. In place of the barren area, I built two plant boxes and retaining walls to support the boxes. The area could not sustain any plant for long because the slope of the area was too steep. Dr. Blueford said she could build another habitat for these butterflies was whenever she tried to plant milkweed ( the butterflies' only food source) the plants would not hold. To eliminate the problem, I built the boxes to hold milkweed for the butterflies and the retaining wall to makes sure the boxes don't slide down. There's also an edge where the boxes meet the retaining wall, which Dr. Blueford said would be a great area for the butterflies to hang in their metamorphosis stage.



*leveling area to get ready to plant*



*planting milkweed for a finished flower box area*

APPENDIX II  
MATH SCIENCE NUCLEUS

# 2014-2015 Data Research Report

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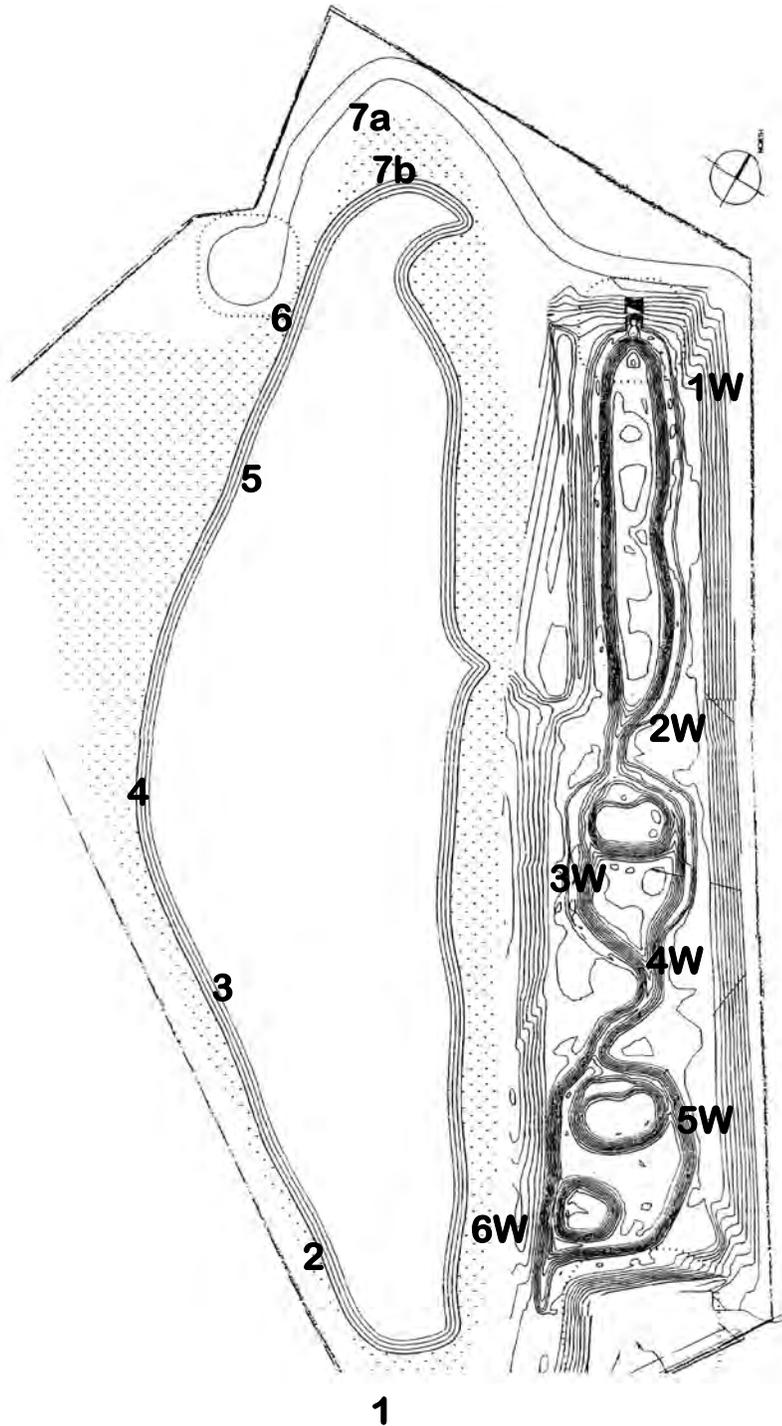
## Tule Ponds at Tyson Lagoon

**By: Samantha Yi and Bharvee Patel**

**Technicians: Jocelyn Luu**

During the 2014-2015 school year, the chemistry interns met up a total of 9 weeks to collect data. We tested Nitrates, Phosphates, pH, Sulfates, and Water Temperature. This data was used with a special program at Mattos Science Magnet School for the 5<sup>th</sup> graders to work with chemical data and compare with high school students.

### COLLECTION LOCATIONS



	1	2	3	4	5	6	7A	7B
1-Nov	1	0.7	0.3	0.4	0.3	0.3	1.1	1.1
24-Nov	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4
13-Dec	0.8	0.6	0.3	0.3	0.3	0.3	0.5	0.5
24-Jan	0.4	0.3	0.2	0.3	0.3	0.3	0.5	0.5
21-Feb	1.2	0.1	0.1	0.1	0	0.1	0.2	0.2
28-Mar	0.3	0.6	0.1	0.1	0.2	0.2	0.4	0.3
1-May	0.9	0.2	0.3	0.3	0.3	0.2	0.5	0.3
29-May	1.7	0.1	0.2	0.1	0.1	0.1	0.3	0.1
6-Jun	0.5	0.2	0.2	0.3	0.2	0.1	0.6	0.4

### Nitrates

### Phosphorous

	1	2	3	4	5	6	7A	7B
1-Nov								
24-Nov	0.19	1.73	1.77	1.76	1.77	1.77	0.1	0.08
13-Dec	0.63	0.88	0.48	0.49	0.56	0.59	0.11	0.18
24-Jan	0.61	1.4	1.03	1	1	0.98	0.03	0.04
21-Feb	0.46	1.03	1.07	1.04	1.05	1.02	0.02	0.06
28-Mar	0.13	1.34	1.22	1.19	1.31	1.3	0.12	0.08
1-May	0.07	1.35	1.36	1.37	1.32	1.31	0.04	0.05
29-May	0.13	1.07	1.09	1.12	1.06	0.1	0.03	0.06
6-Jun	0.08	0.86	0.85	0.94	0.87	0.96	0.01	0.08

## Sulfate

	1	2	3	4	5	6	7A	7B
1-Nov								
24-Nov	52	18	20	20	20	20	55	55
13-Dec	67	37	-1	-1	0	-1	47	43
24-Jan	56	13	14	13	14	12	59	61
21-Feb	55	9	11	10	13	12	>75	>75
28-Mar	47	16	17	17	17	17	64	66
1-May	50	10	12	11	12	9	>75	74
29-May	60	13	13	14	15	13	>75	75
6-Jun	67	13	12	13	14	14	63	62

## pH

1-Nov	7.5	6.1	7.1	7.4	7.4	7.4	7.2	7.3
24-Nov	7.6	7.5	7.4	7.4	7.3	7.3	7.4	7.5
13-Dec	7.1	7.12	7.29	7.09	6.82	6.95	6.83	7
24-Jan	7	6.5	6.82	6.81	6.77	6.82	7.12	7.17
21-Feb	7.18	7.24	7.15	7.08	7.04	7.03	7.56	7.61
28-Mar	7.44	7.35	7.23	7.28	7.23	7.21	7.65	7.65
1-May	7.38	7.01	7.05	7.23	7.17	7.25	7.85	7.66
29-May	7.16	7.12	7.12	7.16	7.14	7.1	7.69	7.54
6-Jun	7.16	7.01	7.33	7.55	7.58	7.63	8.02	7.57

## Temperature (Water)

1-Nov	17.6	16.8	16.6	17.1	16.9	17.2	17.3	17.2
24-Nov	15.4	15.6	15.3	15.2	15.4	15	16.1	15.9
13-Dec	14.1	12.1	12.7	12.8	12.2	13	14.6	13.3
24-Jan	11	9.6	10.8	11.7	11.4	12.3	13.3	13.8
21-Feb	13.8	14.8	15.1	15.9	15.7	16.8	14.8	15.9
28-Mar	15.5	18.2	18.6	19.2	19.2	19.8	15.6	15.9
1-May	16.7	20.4	20.2	21.2	21.3	22.3	16.5	16.4
29-May	15.5	18.9	18	18.1	20.4	19.2	16.8	15.1
6-Jun	16.9	21	21.2	21.8	22.2	24.2	17.4	17.1

FY 2014-2015 Annual Report

Permittee Name: Alameda County Flood Control and Water Conservation District

Attachment C.7.2

Temp(Air)

1-Nov	rain all day yesterday and today, sunny afternoon	
24-Nov		
13-Dec	16 (stormy weather all week)	
24-Jan		21
21-Feb	NONE RECORDED	
28-Mar		18
1-May		19
29-May	15, overcast	
6-Jun	18, sunny	



## **Annual Program Summary Report for Watershed Awareness Program July 1, 2014 – June 30, 2015**

### **PUBLIC OUTREACH - EVENTS AND PUBLICATIONS**

**Friends of Sausal Creek Member Meetings** were held in September, November, January, March, and May at the Dimond Library. For July, we continued our new tradition of a Meet & Greet potluck, this year at Beaconsfield Canyon. In January we held the fourth annual State of the Creek meeting; this year's meeting served as a community meeting for FOSC's Sausal Creek Erosion Control Restoration Project in Dimond Canyon funded by the Department of Water Resources Urban Streams Restoration Program. Topics for the other indoor bimonthly meetings covered butterflies; raptors, rats, and riparian areas; iNaturalist.org; and mushrooms. We averaged 37 attendees per indoor meeting this past fiscal year.

Enthusiastic volunteers continued to represent FOSC by **tabling at community events**. FOSC tabled at Pawfest 2014 in Dimond Park, We Love Water in Berkeley, Dimond Oaktobertfest, and Dimond Night Out; Piedmont Pines Neighborhood Association annual meeting; and Friends of San Leandro Creek's Environmental Forum. As part of Peet's Coffee & Tea week-long Holiday Giving campaign, we had a display in the Dimond store and had volunteers present each day to interface with the public. FOSC also had informational tables at our annual Dimond Park events that draw the largest numbers of volunteers: Creek to Bay Day (123 volunteers), Winter Solstice Planting Day (45 volunteers), and Earth Day (122 volunteers). Our 9<sup>th</sup> annual Native Plant Sale and Open House (292 attendees) included a FOSC informational table as well as tablers on raptors, arachnids, pollinators, gardening, and urban farming; face painting; and live music.

We also **presented** about FOSC and the Sausal Creek Erosion Control Restoration Project to the Walnut Creek Watershed Council and at the Alameda Creek Watershed Forum Fall Technical Symposium.

We led a **tour** in the watershed for Court Appointed Special Advocates and hosted a **history walk** along the waterfront during the "king tide" in January 2015.

We had a month-long **display** at the Dimond Library in October 2014 on butterflies.

We **distributed information** on the New Zealand mudsnail to the neighborhood listservs and posted informational signage at trailheads.

Other forms of public outreach included FOSC's **bi-monthly newsletter, listserv, website** ([www.sausalcreek.org](http://www.sausalcreek.org)), **Facebook** page ([www.facebook.com/FriendsOfSausalCreek](http://www.facebook.com/FriendsOfSausalCreek)), **Instagram** account ([friends\\_of\\_sausal\\_creek](https://www.instagram.com/friends_of_sausal_creek)), and **Twitter** account (FOSC\_Field). We purged our newsletter email list to remove old email addresses, thus reducing monthly Constant Contacts costs; for the final newsletter of the year, circulation was 2,132 recipients. Listserv membership increased from 508 to 548 members. Outreach for member meetings and volunteer events was

also done through announcements in digital and print publications, posts on neighborhood listservs, and flyers at trailheads and at tabling events.

We added **signs** with QR codes to the Sausal Creek Watershed trails map to trail map boxes so trail users can access the map with their cell phones and other personal electronic devices. We are in the process of reprinting the *Trails and Tributaries of the Sausal Creek Watershed* map brochure, which will include an updated map and new photographs.

We assisted the Oakland Fire Department with the update of the **Goat Grazing Plan** so that grazing could be best timed with removal of invasive plants prior to seeding and so that native plants could be protected from grazing.

FOSC continues to maintain relationships with **community partners** including 4-H, AmeriCorps Reading Partners, Boy Scouts of America, buildOn, Chabot Space and Science Center, Civicorps, College of Alameda, EarthTeam, East Bay Academy for Young Scientists, Fremont High School, Girl Scouts of the USA, Hands on Bay Area, Holy Names University, KIDS for the BAY, Laney College, Merritt College, Oakland High School's Green Academy, Piedmont High School Key Club, Skyline High School's Eco Club, Student Conservation Association, and UC Berkeley. Partnerships with other local community groups include Bicycle Trails Council of the East Bay, Diablo Firesafe Council, Dimond Business and Professional Association, Dimond Improvement Association, Friends of Joaquin Miller Park, Friends of Montclair Railroad Trail, Friends of Wood Park, Glenview Neighborhood Association, Jingletown Arts & Business Community, Keep Oakland Beautiful, Montclair Village Association, Nomadic Press, Oakmore Homes Association, Piedmont Pines Neighborhood Association, and Shepherd Canyon Homeowners Association.

## CITIZEN INVOLVEMENT EVENTS

FOSC community volunteer events are held year-round at restoration sites throughout the watershed. Some of the workdays are led by FOSC staff, while others are led by neighborhood volunteers. Volunteer-led worksites receive support from FOSC staff in multiple ways: assistance with workday outreach and volunteer recruitment; tools; consultation on site restoration plans; and contribution of native plants grown at our native plant nursery. In addition to an executive director and restoration and nursery manager, FOSC hired a summer intern and an intern to assist during the school year (September-May).

- Three (3) workdays at Austin Square, plus one (1) site tour for Skyline High School Y-PLAN students
- Three (3) workdays at Barry Place
- Eleven (11) workdays at Beaconsfield Canyon plus many hours of thistle removal by dedicated park stewards
- One (1) monitoring day at the Big Trees Trail pallid manzanita colony
- Twenty-five (25) public workdays at Bridgeview Trailhead and three (3) private corporate workdays at Bridgeview Trailhead for Chevron's Week of Caring
- One (1) workday at Castle Canyon

- One (1) workday at Chabot Space and Science Center pallid manzanita colony to clean up after 100 large trees were removed to allow light into the struggling manzanita colony
- Seven (7) public workdays in Dimond Park and Dimond Canyon and (3) private workdays (AmeriCorps Reading Partners, buildOn, and Student Conservation Association)
- Two (2) trail maintenance workdays in Dimond Canyon Park
- Four (4) private corporate workdays at Fern Ravine with The North Face, JanSport, and Google (through a partnership with Hands On Bay Area), AmeriCorps Reading Partners, and Thermo Fisher Scientific
- Thirty-three (33) public workdays at the FOSC Native Plant Nursery; volunteers included groups from All Saints Catholic Church, Americorps, buildOn, Church of Santa Maria in Orinda, CSU-East Bay, KIPP King Collegiate, Oakland High School, Oakland Technical High School, Piedmont High School, and Skyline High School; three (3) private corporate workdays with The North Face, JanSport, and Google (through a partnership with Hands On Bay Area) and with Apple; and one (1) private workday for members of the American Library Association
- Two (2) workdays at Fruitvale Bridge Park
- Two (2) workdays led by Jingletown Arts & Business Community
- One (1) broom removal workday in Joaquin Miller Park (part of Rebuilding Together Oakland project days)
- Fourteen (14) workdays at Marj Saunders Park plus additional hours watering and removing graffiti by park stewards
- Twelve (12) workdays at Montclair Railroad Trail led by Friends of Montclair Railroad Trail
- One (1) workday at Monterey Redwoods led by EarthTeam's intern team from Skyline High School
- Three (3) groups at Sanborn Triangle in Joaquin Miller Park plus many additional stewardship hours by site adopter
- Three (3) workdays at Shepherd Canyon Park
- Sixteen (16) workdays at William D. Wood Park
- Eleven (11) propagule collection hikes
- One (1) botany walk
- One (1) seed cleaning workday
- Three (3) creek clean ups in Sausal Creek working upstream from the El Centro Trailhead
- Seven (7) aquatic insect monitoring events and four (4) field trips on benthic macroinvertebrates for college classes (College of Alameda and Merritt College)
- Three (3) bird monitoring events
- Nine (9) water quality monitoring days

- One (1) observation hike of burn sites in Dimond Canyon to assess and map vegetation, in partnership with California Native Plant Society's East Bay Chapter
- Three (3) Eagle Scout projects completed, yielding eight new benches at the FOOSC nursery and two picture posts at the Fern Ravine Restoration Area (<http://picturepost.unh.edu/> > List of All Posts > Joaquin Miller Park Fern Ravine – Redwood Understory and Wetland)

**Board of Directors:** We had a board and staff retreat in January 2015 consisting of a tour of all FOOSC sites in the lower watershed. Our 14-member board of directors and executive director met every other month. Board of directors meetings are open to the public, and the agenda and staff report are posted on the FOOSC listserv.

## SCHOOL-AGE CHILDREN OUTREACH

Our activities with school-age children include leading environmental education field trips for school classes and restoration workdays for student community service groups. Youth activities include a discussion of the Sausal Creek Watershed, stormwater pollution prevention, stream restoration strategies, and native and nonnative plant identification. The programs also include a hands-on restoration component such as removal of invasive, nonnative plants; vegetation monitoring; and planting of native plants propagated at our nursery. FOOSC staff led thirty-one (31) field trips this past school year, and FOOSC volunteers led an additional eight (8) field trips. In addition to these field trips, student service organizations volunteered for weekend workdays year-round.

During summer of 2014, we partnered again with Oakland Parks and Recreation to work with their Touch the Earth and Shake, Rattle & Roll day camp programs in the Joaquin Miller Park redwood area. Nineteen groups of campers learned about the Sausal Creek Watershed, discussed stormwater pollution prevention, and participated in restoration activities including removal of invasive, nonnative plants. This partnership is continuing during the summer of 2015.

Ten students participated in our 2014 summer high school intern program. The 10-day program included a variety of habitat restoration projects throughout the watershed, special projects at our native plant nursery, educational and leadership activities, and explorative hikes. The summer 2015 summer intern program has seven students participating.

## FUNDING

Additional funding in 2014-15 came from the Alameda County Fish and Game Commission, Alameda Countywide Clean Water Program Community Stewardship Grant Program, Bill Graham Supporting Foundation of the Jewish Community Federation and Endowment Fund, Bonita Garden Club, California Department of Water Resources Urban Streams Restoration Program (Proposition 84 grant), City of Oakland (for trees and shrubs for the Sausal Creek Restoration Project in Dimond Park), The Clorox Company Foundation, East Bay Community Foundation (prizes from East Bay Gives), East Bay Municipal Utility District, Hillside Gardeners of Montclair, JiJi Foundation, National Oceanic & Atmospheric Administration Ocean Guardian School Program (procured by Joaquin Miller Elementary), Peet's Coffee and Tea, Rose

Foundation, Thomas J. Long Foundation, organization donations, business contributions and employee matches, and individual contributions. FOOSC continues to work to identify other potential funding sources for our programs.

#### SUMMARY

Volunteer visits: 3,706

Volunteer service hours: 9,610

Students participating in field trips or summer service learning projects: 748

Plants planted by FOOSC: 3,097

Plants donated for school and city projects: 453



C/O RHSD  
835 East 14<sup>th</sup> Street  
San Leandro, CA 94577

#### Board of Directors

Michael Gregory, President  
Dave Owen, Vice President  
Jan Woycheshin, Secretary  
Paul Woycheshin, Treasurer  
Claudia Taurean, Membership Coordinator  
Maureen Forney, Member at Large

## Annual Report Summary 7-1-2014 – 6-30-2015

### Public Outreach Events

**Environmental Forum** –Annually, representatives from local organizations are invited to present information to community members and attendees regarding issues that impact the environment. The topic this year was “Sea Level Rise and how it will affect the Bay Area Waters”. Approximately 80 members of the public attended this annual event. The event was located at San Leandro Library from 10:30 - 2:30 on November 8, 2014.

From 10:30-11:30 Mini Environmental Expo - “View and Chew” Public view exhibits from local environmental and community groups while enjoying coffee & refreshments. Groups included; EBRPD, Merritt College, Sausal Creek, California Coastal Commission, StopWaste, 350 Bay Area, Hayward Shoreline Interpretive Center and Alameda Creek Alliance.

11:30-12:30 Guest Speakers: Jennifer Koney with HARD presented and showed her artwork, Maggie Wenger from Bay Conservation Development Commission (BCDC), Mark Spencer, Senior Program Manager with StopWaste, and Frances Aubrey with 350 Bay Area. Each speaker talked/presented for 20-30 minutes and used Power Point, showed art work and did demonstrations.

12:30 Audience “Q & A” to presenters.

1:00-2:30 FSLC cooked and provided lunch to FSLC Board, guest speakers and dignitaries, Doug Siden Director EBRPD, San Leandro Mayor Stephen Cassidy, and City Council Members Jim Prola and Michael Gregory.

**Earth Day/Watershed Festival** – This annual event brings local residents to San Leandro Creek to learn more about the watershed and ecological issues. A variety of organizations host display tables for public education. On March 28, 2015 we held our last Watershed/Earth Day Festival. Part of this event was a creek cleanup at Root Park in San Leandro, (45 in attendance) along with 3 interpretive walks led by students from Merritt College in the Naturalist Program. The first walk identified and discussed Native vs Non-Native plant species. The second talk was regarding stories and myths/urban legends about creeks; the 3<sup>rd</sup> walk centered on the “Eucalyptus Problem” we are facing in San Leandro Creek.

For the festival we had booths with the following groups: Art in the Heart, who had a recycled art project for kids and adults; StopWaste weighed all the garbage brought up from creek cleanup (674 lbs.) and announced total to the public; Merritt College; Oakland Zoo and Sulphur Creek brought displays and local animals; Alameda County Mosquito Abatement and EBMUD had water conservation tables; CESC (Community Energy Services Corp who help businesses implement energy efficient lighting; free solar assessment of commercial or residential property and help with installation; free home improvements for low income residents in the Bay Area) had information and handouts. EBRPD, 350 Bay Area, and FSLC had booths with handouts and information. Vicki Brodie displayed and sold her handmade “Nature Art”. Davis St. Center and San Leandro Historical Society had tables with information and handouts. Jr Girl Scout Troop 33009 from Roosevelt School in San Leandro presented the projects they had completed regarding climate change. The Mayor and four City Council Members presented winners of the raffle prizes of: a one year subscription to Bay Nature magazine; a gift basket donated by neighbors Carlton Plaza –senior independent living facility; FSLC -a hat, t-shirt and sweat shirt; jewelry from Vicki Brodie; and a Bay Friendly Gardening Book from EBMUD. We also had a free bbq lunch sponsored by FSLC, with 100% beef or veggie hotdogs, fruit juice and apples or oranges for dessert. Total number of participants was around 200 people.

**Friends of San Leandro Creek Members Meetings** - Quarterly, Friends invite guest speakers to talk about pertinent environmental issues for our members and the general public. We generally have about 20 members of the public join us. We serve

complimentary coffee and snacks. This fiscal year, EBMUD Fish Biologist, Bert Mulchaey presented information about fish populations in and around San Leandro Creek. EBRPD's Jeff Rasmussen and Matt Gaul presented info about a joint grant between FSLC & EBRPD to restore a portion of the upper watershed. Faye Clements (Cary Dr resident) presented a petition she has drafted to have eucalyptus trees removed from above creek. And lastly, Lisa Owens-Viani, co-founder of Raptors Are the Solution ("RATS") discussed the epidemic of wildlife mortality caused by rat poison.

**Grants** -In January of 2015, FSLC and EBRPD co-wrote a grant for \$500,000 to California River Parkway Grant Program to daylight and restore a 1,600- foot long culverted section of upper San Leandro Creek Watershed (McCosker Creek). This grant was not received. However, EBRPD has begun the process to apply for other grant funds to complete this much needed work.

In July, 2014 FSLC reapplied for the Consultation Grant (no monetary gift) from the National Park District's Rivers, Trails and Conservation Assistance Program. This was granted. This consultation grant will be used in concert with the Caltrans grant later in 2015-16 year.

In March 2015, FSLC applied to the Robert and Lois Braddock Charitable Foundation for a grant of \$5,000.00 for general use. This grant was received in June, 2105.

**PCA** - In August of 2104, FSLC applied to make the lower reach of San Leandro Creek a Priority Conservation Area through ABAG (Association of Bay Area Governments) This designation is for areas critical to the functioning of wildlife and plant habitats, aquatic ecosystems and the region's water supply and quality, to make Urban Greening using existing and potential green spaces in cities that increase habitat connectivity, improve community health, capture carbon emissions, and address stormwater. In early 2015, the City Council of San Leandro made an official resolution supporting this designation. We will hear soon if we were accepted or not.

**San Leandro Creek Alliance Group** began meeting monthly in 2012. This group's main focus is planning and building a Green Way from San Francisco Bay at Arrow Head Marsh in Oakland to Chabot Park in San Leandro. Among the groups members represented of the Alliance are: Susan Levenson (FSLC), Michael Gregory

(President FSLC, City of San Leandro Council Member), Hank Ackerman (Alameda County Flood Control Manager), Lee Huo (Bay Trial Planner, ABAG), David Ralston (Oakland City Planner), Joe Sullivan (Fisheries Program Manager, EBRPD), Robin Freeman (Professor of Environmental Sciences, Merritt College), Robert Raburn (Director District 4, BART), Sandra Threlfall (Director, Waterfront Action), Chris Zapata (City Manager, San Leandro), Barry Bergman (Rails-To-Trails, Manager of Trail Development). This group is chaired by Douglas Siden (Director, Ward 4, EBRPD).

**San Leandro Creek Watershed Technical Advisory Group (SL Tag)** - This year San Leandro Creek Alliance voted unanimously to make the TAG group a subgroup of the Alliance. FSLC and EBMUD (SL TAG) will meet during Alliance meetings to update and make decisions regarding our goal of receiving a more historical flow regime from the Lake Chabot Dam to the SL Creek below.

## Citizen Involvement Events

General Public Outreach and Membership Drives continue on an ongoing basis. All Friends activities are publicized by the City of San Leandro, both on-line and in print; as well as The San Leandro Times, Castro Valley Forum, San Jose Mercury News, Daily Review, Oakland Tribune, and San Leandro Chamber of Commerce website, and on FSLC's web site ([www.FSLC.org](http://www.FSLC.org)).

As part of our public outreach we attend and give community events/presentations to gain exposure for FSLC and to further promote watershed education. These events include our Environmental Forum, The Watershed/Earth Day Festival, appearances for community groups, our newsletter The Splash, our website, and Creek Clean Ups & restorations. Plans to rezone property on the San Leandro Creek to house a Mini Environmental Laboratory (Cary Drive) will involve citizens and students in the future. Details follow below.

**Presentations for Public** –This year FSLC gave a Power Point Presentation for San Leandro Kiwanis regarding climate change in San Leandro. 25 members were present and \$127.00 in donations received.

A presentation was given for San Leandro Chamber of Commerce “Coffee Connection” where 37 people were present and 9 new members were received.

**Bi-annual Newsletter** - Featured in the publication, *The Splash* are updates on San Leandro Creek, upcoming events, informative articles on watershed related topics, and news of other activities and points of interest. Besides being electronically mailed to members, *The Splash* is also available in San Leandro libraries, community centers, and select businesses in downtown San Leandro, in addition to being available for download from the FSLC website. See attached.

**FSLC Website** –The FSLC website is available to online viewers. It includes FSLC’s mission, news, announcements of events, pictures of events, and updates. Copies of our newsletter, [Splash](#) are on display for viewing.

**Cary Dr. Property** –FSLC is no longer planning to *purchase* the Cary Dr property. Two talks with SLUSD superintendent and SLUSD Board liaison group brought us to the decision to *rezone* this location on Cary Dr. Plans to have the city attorney draw up needed plans is in the works. This lot is adjacent to Bancroft Middle School on Bancroft Ave. Preliminary Plans were drawn up this year by Stantec Corporation for no cost to help visualize future plans. \*See attached Plans. It will be a perfect location for partnering with the School District, especially Bancroft Middle School Science Department, to use as a Mini Environmental Laboratory. This Lab will be open to community groups and school group programs. A conceptual plan drawing is attached.

**Creek Clean Up and Revegetation** – Each year the public is invited to assist FSLC in removing litter from the creek, clearing non-native plant species and planting native riparian species to restore the creek to a more natural state. These activities are usually conducted at Root Park on San Leandro Creek. The number of participants at each event ranges from 5-50. Creek cleanups over this past year were held in August, October, January, March, and June with the help of approximately 200 volunteers who donated about 600 hours of service. We have cleanups scheduled for August 29 and October 24, 2015.

## School-Age Education Programs

**Chabot Day Camp** –FSLC continued a hands-on discovery of the San Leandro Creek for campers at the Chabot Day Camp, ages 5-14. Chabot Day Camp is a program the

City of San Leandro has been offering to the community for over 35 years. Watershed Awareness Coordinator taught lessons on the San Leandro Creek at Chabot Park in San Leandro. Four camp groups; "Tiny Trees" – grades k-1 with a total of 47 students; "Little Trees" – grades 2-4, with a total of 119 students; "Big Trees" – grades 5-7, and "Drift Wood" aged 12-14 with 21 students. All programs had a total of 413 students. Each age group was given different age appropriate 30 minute lessons in groups of about 20- 50 children.

**Field Trip/Schools Outreach Program** – During the 2014/2015 school year, FSLC hosted 130 K-high school aged students from local schools. These free programs were held at Chabot Park in the San Leandro Creek watershed. Four in-school presentations were given with a total of approximately 65 students present. Star High School in San Leandro (a high school for "emotionally challenged" teens) had an in-school field trip as well as on site at the San Leandro Creek. During the in-class trip, FSLC helped Star students put in a school garden and donated a compost bin for students to compost school lunches to add to soil in the vegetable and flower garden.

This fiscal year, FSLC was also a part of two University level discussions/field trips. Professor Greg Niemeyer of UCB brought his graduate class, "Global Urban Humanities" to make a field study of how their class could make certain areas in San Leandro stand out. Part of the project, entitled, "Urban Lights", was 1<sup>st</sup> envisioned then created along the San Leandro Creek under E 14<sup>th</sup> St at Root Park. The class made an interactive light project in which peoples' presence made the lights change. The second class was an under-graduate UCB class, "Ecological Factors in Urban Design, under Professor Mattias Kondolf. This class came to the San Leandro Creek at Root Park to discuss the creek and walk a length as part of their study of urban riparian areas. In both classes a total of 30 students were present. In total this fiscal year, 225 school aged (K through college level) students received lessons through FSLC.



## CITY OF OAKLAND



250 Frank H. Ogawa Plaza, Suite 5301

OAKLAND, CALIFORNIA 94612-2034

Public Works  
Environmental Services Division

FAX (510) 238-7286  
TDD (510) 238-3254

August 3, 2015

### **Clean Creeks Agreement Annual Program Summary – FY 2014/2015**

#### **Creek Cleanup Volunteerism and Outreach Program Area Updates**

##### Program Area 1: Adopt a Creek (*Citizen Involvement Events*)

The Adopt a Creek Program has grown from 27 to 35 active sites. We have made special efforts to encourage adoption and cleanup of creek sites that are known “trash hotspots.”

We continue to distribute the Adopt a Creek orientation and resource packet to help new and existing groups build and manage stewardship activities at their sites. As many of our Adopt a Creek (AAC) groups are becoming more established, they are undertaking restoration projects at their adopted sites. In partnership with the City’s Watershed and Stormwater Management Program, we now provide technical assistance for several community-based creek restoration projects, including plant selection and site planning.

We also worked to create stronger partnerships between our Adopt a Creek groups and volunteer resources in the greater community. Through program promotion on several volunteer recruitment websites and established partnerships with community service organizations at local colleges and universities, we have seen more of our AAC groups tackling larger scale projects with this additional assistance. We have also started providing plant materials and continue to expand our tool lending services to our volunteers.

##### Program Area 2: Community Creek Efforts (*Citizen Involvement Events*)

Throughout the year, our program sponsored a range of creek cleanup and beautification events. There were 633 cleanup and restoration events in creeks and shorelines last year. There were an additional 6,400 volunteer cleanup events throughout the city – events that eliminate trash prior to its entry into the storm drains and creeks. Furthermore, there were an estimated 5,466 Adopt-a-Drain volunteer cleanup events throughout the city – these volunteers clear debris and trash from ten feet on either side of their adopted stormdrain before rain events to prevent flooding and trash from getting into our creeks.

We continue to build our outreach strategy by incorporating additional forms of online communication to reach out to the community about watershed stewardship events. We now have an established presence on Facebook and regularly communicate with Oakland residents. Our relationships with numerous community organizations remain strong. We have attended numerous community events to distribute information about our volunteer program and other general watershed education outreach materials.

At this year’s EarthEXPO, an environmental fair in downtown Oakland on April 8, 2015 that attracted about 2,000 attendees, we highlighted stormwater protection, volunteer creek and shoreline cleanups and

ecological restoration at the Oakland Public Works booth. The overall theme of the event was environmental sustainability. Exhibitors presented various ways Oakland residents can be sustainable: alternative transportation, solar energy, local food supply, promoting urban nature, volunteering, recycling, composting, buying recycled goods, Bay-friendly landscaping, and many more.

### Program Area 3: Citywide Creek Cleanup Events (*Public Outreach Events*)

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The City hosts two citywide cleanup events per year, Creek to Bay Day and Earth Day. Creek to Bay Day brought together 1,037 volunteers to clean up 34 creek and shoreline locations throughout Oakland. Oakland volunteered a total of 2,931 hours picking up 18,098 pounds of trash from Oakland's creeks, Lake Merritt and the estuary and removing 252 cubic yards of non-native greenwaste to allow native plants to flourish.

On Earth Day, over 3,366 volunteers participated in this citywide beautification effort, putting in a combined 14,747 volunteer hours at 89 volunteer sites throughout Oakland. Thirty-five of the volunteer sites were at creeks and shorelines. 2,054 volunteers assisted in cleanup and beautification activities at creek sites and Lake Merritt. Volunteers picked up 63,927 pounds of trash from Oakland's creeks, Lake Merritt, estuary and streets and removed 466 cubic yards of greenwaste including invasive weeds that prevent native plant growth.

### Program Area 4: Creeks Website

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Our creeks websites, [www.oaklandcreektobay.org](http://www.oaklandcreektobay.org) and [www.oaklandcreeks.org](http://www.oaklandcreeks.org) continued to improve in Fiscal Year 2014-2015. We continue to maintain the websites to highlight our Adopt a Creek program as well as other ways people can get involved in community cleanup events. The websites provide interested individuals with information regarding the City's creek to Bay protection efforts and general information as to the importance of watershed protection and the impacts of pollution on our waterways.

We also continue to maintain the Adopt a Drain website, [www.adoptadrainoakland.com](http://www.adoptadrainoakland.com) which facilitates storm drain maintenance adoption. This website has made it much easier to for Oakland residents to adopt a drain. There are now 544 Adopt a Drain adopters, which represents a 110% growth rate in FY 2014-2015. The [Adopt a Drain](#) program has been receiving interest from other municipalities looking to Oakland as a model. Staff has received calls from nearby cities like Alameda, South San Francisco, Los Altos, Redwood City, as well as Fort Worth, Texas, and [Burlington, Vermont](#) which launched a program in 2014 based on Oakland's.

### Program Area 5: Outreach Materials

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To publicize both the Creek to Bay Day and Earth Day events, press releases are issued in an attempt to spread the word to the greater community about efforts being undertaken by our program as well as opportunities to get involved. We sent two press releases prior to each citywide event (two weeks prior and three days prior).

We also created posters and postcards to distribute to businesses, libraries, recreation centers, senior centers, schools and community centers among others. For both Creek to Bay Day and Earth Day, we hired a contractor to distribute a portion of these posters and postcards. For Creek to Bay Day, 1,500 posters and 700 postcards were distributed at private establishments and other locations around the City of Oakland. For Earth Day, 2,000 posters and 2,000 postcards (with EarthEXPO on one side) were distributed throughout Oakland by the contractor. An additional 3,000 postcards were distributed for Earth Day by City staff.

To increase participation at our events, we also mailed 5,300 Creek to Bay postcards and 5,700 Earth Day postcards to our mailing list, which includes past volunteers and various City staff at libraries, recreation centers and senior centers, among others. Finally, we distributed approximately 500 Creek to Bay Day and Earth Day posters to site coordinators to increase participation at their particular sites.

To publicize our Adopt a Drain program, we created a poster which highlights why it is important to maintain storm drains, the increase in people adopting storm drains in the City of Oakland and our partnership with Open Oakland to create the Adopt a Drain website. The poster was on display for a week in May 2015 in the City offices at 250 Frank H Ogawa Plaza. We will also present this poster at the poster session at the State of the Estuary Conference in Oakland September 17 & 18, 2015.

**Enclosures:**

1. List of adopted creek sites
2. Press releases
  - a. Creek to Bay Day & Earth Day
3. Posters & Flyers
  - a. Creek to Bay Day & Earth Day
  - b. Adopt a Drain poster
4. Postcards
  - a. Creek to Bay Day & Earth Day

**For further information, please contact:**

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Environmental Stewardship Analyst  
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(510) 238-6191  
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**Bringing Back the Natives Garden Tour**

1718 Hillcrest Road  
San Pablo CA 94806  
(510) 236-9558

<mailto:Kathy@KathyKramerConsulting.net>

<http://www.BringingBackTheNatives.net>

**2015 Final Report**

A nine-year study of water use, green waste generation, maintenance hours, and maintenance labor costs between a traditional garden and a California native plant garden was conducted by the City of Santa Monica between 2004 and 2013. The results of this study showed that the native garden uses 83% less water; generates 56% less green waste, and requires 68% less maintenance than the traditional garden.

from City of Santa Monica garden/garden

**Why a Native Plant Garden Tour?**

The spring 2015 Bringing Back the Natives Garden Tour was held in order to showcase pesticide-free, water-conserving gardens that provide habitat for wildlife, reduce solid waste, and contain 60% or more native plants.

The tour enlists local residents to demonstrate by example that seasoned and novice gardeners can garden with good results without the use of synthetic chemicals, and with minimal supplemental water, while providing food, shelter, and nesting areas for wildlife. The gardens on this tour show that it is possible to implement sustainable garden practices and still have beautiful places for people to relax in and enjoy. The goals of the Bringing Back the Natives Garden Tour are to motivate attendees to eliminate pesticide use, reduce water use, generate less solid waste, and provide habitat for wildlife in their own gardens.

Why California natives? Once established in the garden setting, California native plants need little or no summer water, as they survive naturally with only fall-to-spring rainfall. In addition to being water-conserving, California natives are hardy, and they do not require the use of pesticides and fertilizers, as many non-natives do. Native plants need less pruning than many non-natives, such as lawn, ivy, or cotoneaster, thus generating less green waste. As this terrific article

demonstrates, native plants also provide the best habitat for birds, butterflies, beneficial insects, and other forms of wildlife.

A nine-year study of water use, green waste generation, maintenance hours, and maintenance labor costs between a traditional garden and a California native plant garden was conducted by the City of Santa Monica between 2004 and 2013. *The results of this study showed that the native garden uses 83% less water; generates 56% less green waste, and requires 68% less maintenance than the traditional garden.*

Bringing Back the Natives Garden Tour gardens contain minimal or no lawn. This is of particular value since the majority of the chemicals purchased by homeowners support lawn care, and the majority of water used in home gardens is applied to lawns. According to the U.S. Fish and Wildlife Service in their, "Homeowner's Guide to Protecting Frogs – Lawn and Garden Care," homeowners use up to ten times more chemical pesticides per acre on their lawns than farmers use on crops. In addition, half of the water used by the average household is applied to the landscape – with most of that water being applied to keep turf green.

### **2015 Bringing Back the Natives Garden Tour events: Tour; Native Plant Sale Extravanzas; and Workshops**

The Bringing Back the Natives Garden Tour has now expanded its offerings to include not only the spring Tour and Native Plant Sale Extravaganza, but also a Fall Native Plant Sale Extravaganza, and a Valentines Day Native Plant Sale, and a series of workshops that are offered in both the fall and spring. These are described below.

The Eleventh Annual Bringing Back the Natives Garden Tour, which took place on Sunday, May 3, 2015, showcased thirty eight gardens and nurseries located in eighteen cities and unincorporated areas in Alameda and Contra Costa counties (Berkeley, Castro Valley, Concord, El Cerrito, El Sobrante, Hayward, Kensington, Lafayette, Livermore, Moraga, Oakland, Orinda, Pleasant Hill, Pleasanton, Richmond, San Lorenzo, Union City, and Walnut Creek).

A variety of gardens were featured on the tour. The gardens ranged from Al Kyte's forty year old wildlife habitat to a number of gardens that had been recently installed, and from large lots in the hills to small front gardens in the flats. Tour gardens contained everything from local native plants to the horticulturally available suite of natives from throughout California. Twelve of

the gardens were designed and installed by owners, and the rest were designed and installed by professionals. All of the gardens were landscaped with between 70% and 100% native plants.

The tour received overwhelming interest from the public; this year there were nearly 6,000 registrants. On the day of the tour walk-in registrants were accommodated at nine same-day walk-in registration sites, which were set up in Berkeley, Castro Valley, El Cerrito, Livermore, Moraga, Oakland, Pleasanton, Union City, and Walnut Creek.

This year 12,724 garden visits were made on the day of the tour. See the end of this report for a list of the number of visitors counted at each garden.

More than 150 volunteers either worked at gardens for a half-day shift on the day of the tour, or helped with tour preparation and clean-up, contributing more than 600 hours of time to the tour. The 41 hosts put in countless hours preparing for the tour, and nearly 300 hours on the day of the event.

More than \$13,000 worth of native plants were sold in the spring Native Plant Sale Extravaganza, which took place on May 2 and 3, 2015. Nearly \$19,000 worth of native plants were sold in the October, 2014 Native Plant Sale Extravaganza, and more than \$12,000 worth of natives were sold during the Spring 2015 Valentines Day sale. The total of native plants sold in these three sales was \$44,000.

### **Garden Talks**

More than 50 garden talks and demonstrations on a plethora of topics were given throughout the week-end of the Tour. Talk topics included how to: retain stormwater on-site; remove a lawn; design and install a drip irrigation system; select and care for native plants; design and install native plant garden; attract wildlife; choose appropriate natives; create a low-maintenance native plant garden; maintain a native plant garden; garden on hillsides; and how to receive rebates from water districts for removing lawns, among other topics.

### **The website**

The website contains numerous photographs of all of the gardens that have ever been on the tour (information on prior tours remains accessible on the website for future reference), extensive garden descriptions, plant lists for each garden, and some garden-specific bird, butterfly, mammal, reptile, and amphibian lists, as well as resource information on how to garden with California natives. The resource information includes contact information for landscaper designers with gardens on

the tour, a list of Easy-to-Grow East Bay Natives, lists of nurseries that carry native plants, lists of reference books, “How I got started gardening with native plants” essays by a number of the host gardeners, and more.

In order to attract hosts and volunteers, and to thank them for their time, two Garden Soirees – free, private tours of native plant gardens – were held in 2015. Garden Soirees offer host gardeners and volunteers the opportunity to see tour gardens that they would otherwise miss. They also create a feeling of camaraderie between hosts and volunteers, and provide a venue for people who are both knowledgeable and passionate about gardening with natives to meet and exchange information.

### **Select Tours**

In the fall of 2014 and the spring of 2015 a series of workshops were coordinated. These included hands-on sheet-mulching workshops; a how to install drip irrigation workshop; and a tour of a large organic garden that stores 10,000 gallons of rainwater on-site, has chickens, and contains extensive native and edible garden areas.

This year all of the sheetmulching workshops filled, with thirty people each; the last sheetmulching workshop of the season filled five weeks ahead of time. The how to install drip irrigation workshop filled with thirty people six weeks ahead of time.

### **Tour Partnerships**

The Bringing Back the Natives Garden Tour created partnerships with a variety of organizations that share common values – that chemical-free and water conserving gardening preserves water quality and quantity, and creates wildlife habitat. The list of major sponsors and supporters of this year’s tour includes a flood control district, two county stormwater programs, three water districts, four cities, an unincorporated area, and a private foundation. The list of tour sponsors is provided below.

#### **Sponsors of the 2014 tour**

**\$15,000**

Alameda County Flood Control and Water Conservation District

**\$10,000**

Contra Costa Clean Water Program

**\$7,800**

Jiji Foundation

**\$4,000**

Contra Costa Water District

**\$2,500**

County Clean Water Program (Alameda)

**\$2,000**

East Bay Municipal Utility District

**\$1,600**

California Native Plant Society (East Bay Chapter)

**\$1,500**

City of El Cerrito

**\$1,000**

Bay Area Water Supply and Conservation Agency  
City of Antioch  
City of Walnut Creek  
Zone 7 Water Agency

**\$500**

Alameda County Water Agency

### **Host Gardeners**

The gardens selected to take part in the tour are chemical-free and water-conserving landscapes that provide habitat for wildlife. Hosts were chosen because of their willingness to be on site on the day of the tour to talk with visitors about their gardens, and their enthusiasm for, and commitment to, educating others about how to garden in environmentally sensitive ways.

Host gardener recruitment began in the spring of 2014 for the 2015 tour. Potential candidates completed an application, and applicants who met the criteria received a site visit. Host criteria were as follows:

- Gardener must reside in Alameda or Contra Costa County.
- Gardener must use organic and/or natural techniques for pest control rather than synthetic pesticides.

- Garden must demonstrate water conservation techniques. Examples include mulches, groundcover plants, drip or soaker hose irrigation, and the use of plants that do not require excessive watering during the dry part of the growing season.
- Gardener must be a good ambassador for chemical-free, water-conserving gardening: enjoy educating the public; and have the knowledge base to employ natural gardening techniques and share this information with the public.
- Garden must provide food, shelter and nesting areas for wildlife.
- Garden must contain 60% or more California native plants.
- No invasive plants are found in the garden.

Host's gardening experience ranged from native plant novices to professional landscape designers. All of the host gardeners were good ambassadors for natural gardening techniques.

#### **Host Comments from the 2015 evaluations:**

- Over 500 people visited my garden. They listened and took notes and bought plants to get started on their own native gardens, with no pesticides and less water.
- There were many people new to native plant gardening this year.
- There were so many questions about reducing water and pesticide use!
- I had so many questions related to maintenance, especially given the size of our property. I could tell people that maintenance has gone way down since focusing on planting natives and drought tolerant plants. Mulch is my new best friend. And native grasses outcompete most weeds, so we're able control what weeds to make it by just hand-weeding. More importantly, I've found that my own attitude towards gardening has changed from cultivating pretty flowerbeds to considering the total environment. We aim to create a sense of place that is consistent with our location, attract wildlife, and consider the entire ecological chain.
- Folks asked tons of good questions, and said they wanted to give native plant gardening a go.
- Many people asked about how much water we saved.
- The overwhelming majority of the visitors were very interested in changing their landscaping to be drought resistant and include native plants.
- A number of people indicated to me that our garden has inspired them to do more with native plant gardening. One knowledgeable volunteer said

- that our charts and handouts also provided a lot of educational material for interested people.
- My conversations with people on the tour were frequently about water savings. People could hardly grasp how little water this garden used!

**Volunteer Comments from the 2015 evaluations:**

- There was a lot of discussion from the visitors about conserving water.
- A lot of people asked how often the garden is watered.
- Everyone was thinking about water this year and was amazed what would grow without much water.
- I think that this tour will influence many more people to ask for natives at all nurseries, and if people who plant them wisely lower water bills and save time and effort, neighbors may get educated as well.
- All comments from tour goers were extremely positive, and most were actively seeking ideas to implement in their own gardens.
- I liked being able to talk to people one-on-one and answer their questions.
- I think visitors found seeing what the plants look like in a garden, even if it was recently planted, was a really plus.

**Pledges**

This year, for the first time, during the registration process tour participants had the opportunity to pledge to undertake one or more environmental action. Research has shown that people who pledge to take an action are very likely to follow up and do it. The text on the website read:

Might you be willing to take a healthy lawn and garden pledge?

Garden chemicals can be harmful to humans, pets, wildlife, creeks, and the Bay. The good news is there are many surprisingly easy ways to care for your lawn and garden that avoid putting your family, pets, and neighbors at risk.

All of the beautiful Bringing Back the Natives Garden Tour gardens are managed without the use of pesticides. If these hosts can garden without the use of pesticides, you can, too!

Are you ready to join Bringing Back the Natives Garden Tour hosts in pledging to restore the Earth one garden at a time? Your family, pets, neighbors, and the birds and bees will thank you.

If a pledge to eliminate pesticide use is too big a step to take right away, you can pledge to reduce your pesticide use instead.

⑧ I pledge to reduce or eliminate pesticides like “weed and feed” on my lawn. *(Weed and feed products are persistent, bioaccumulative toxic substances linked to cancers and to reproductive, immunological, and neurological problems. Some of the herbicides in chemical weed and feeds – especially 2, 4-D – have been linked to increased rates of cancer in people and animals.)*

⑧ I pledge to reduce or eliminate the use of rodenticides. *(Anticoagulant mouse and rat poison also kills dogs and cats, hawks and owls, and many other species of wildlife.)*

⑧ I pledge not to use insecticides. *(A garden and lawn ecosystem in balance is home to birds, native plants, and insect life, which support each other and keep one another in check. Lawns and gardens free of synthetic chemicals provide much-needed habitat for wildlife, and they are much safer for you, your family, and your pets.)*

⑧ I pledge to remove part or all of my lawn, eliminate pesticide and herbicide use, and create a wildlife habitat in part of my garden.

“I pledge to” results:

reduce or eliminate pesticide use	65%
reduce or eliminate the use of rodenticides	65%
not to use insecticides	61%
remove part or all of my lawn, eliminate pesticide and herbicide use, and create a wildlife habitat in part of my garden	55%

### **Tour Survey and Evaluation**

Two surveys were offered to the tour’s pre-registered participants. The first was available as part of the registration process. Below are some statistics taken from this survey.

The 2015 tour attendees were highly motivated to learn new gardening techniques. When asked what they would like to learn from the tour the majority of respondents (71%) wanted to learn how to select native plants; 62% wanted to learn how to conserve water; 46% wanted to learn how to garden for wildlife; 25% wanted to learn how to reduce pesticide use; 33% percent wanted to learn how to replace a lawn with a garden; and 17% wished to learn about composting.

What do you want to learn from the tour?	2012 Responses	2013 Responses	2014 Responses	2015 Responses
How to select native plants	72%	83%	69%	71%
How to reduce water use	51%	58%	57%	62%
How to garden for wildlife	51%	56%	45%	46%
How to reduce or eliminate pesticide use	30%	33%	25%	25%
How to replace a lawn with a garden	30%	33%	30%	33%
How to compost	19%	23%	18%	17%

**Evaluations**

There was a return of 344 registrant evaluations, with 97% of those filling out the evaluations rated the tour “Excellent” or “Good.”

This year 62% of the registrants were repeat visitors, and 38% were attending the tour for the first time.

**Motivation and Behavior Change**

When asked if the Tour inspired people about how to garden without pesticides, while using less water, tour participants provided these comments:

- The California Native Bee Garden in Berkeley in particular is a powerful reminder not to use pesticides.
- I didn't know native plants could be beautiful, as well as water-friendly.

- I learned a great deal about native plants and am excited to make improvements in my garden.
- I already try to avoid pesticides and use less water, but the beauty of some of the gardens inspired and reinforced my dedication to those principles.
- I took a friend who lives in a gated community. She will propose to the Association to plant natives in their front yards and get rid of the grass.
- I am starting to convert my yard based on prior tours, using a landscaper whose work I had seen.
- It was great talking with the people there, both homeowners and the volunteers, about plants, sun vs. shade, amounts of water etc. Gardening without pesticides is a big part of that too!
- It's great having so many knowledgeable people right there to talk to.
- Very informative, well organized, and in this time of drought, utterly necessary!
- We were looking for, and found, information about sheet mulching, plant advice, and more.
- The Tour shows you gardens that have been able to thrive without pesticides and how beautiful native plants are.
- It was wonderful to have the homeowners and landscapers on site to answer questions. They are all so enthusiastic. It's contagious.
- The gardens were beautiful and inspiring. The designers were very knowledgeable and helpful, and the owners extremely gracious.  
Outstanding Tour; I learned a ton!

The registrant evaluations were split up into two groups – those who had attended the tour before, and those who had not. The data for repeat registrants and first-time Registrants was tabulated separately. Both of these categories are discussed below.

### **Repeat Registrants**

84% of registrants who had attended a previous Bringing Back the Natives Garden Tour, and who filled out the evaluation form, said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.

The first column below shows the percentages of the repeat registrants who changed their gardening behaviors after attending the Bringing Back the Natives Garden Tour. The second column shows the percentage of repeat registrants who plan to change their gardening behaviors.

Evaluations of repeat registrants from the 2015 tour showed that after attending a prior Bringing Back the Natives Garden Tour:

- 19% of respondents had incorporated natives into their gardens (thereby reducing herbicide use and conserving water);
- 15% had incorporated drought-resistant plants into their gardens;
- 14% had increased the density of plantings to out-compete weeds;
- 12% had grouped plants of similar water needs;
- 11% were tolerating some insect damage;
- 11% were encouraging wildlife with plant choices;
- 9% had begun mulching;
- 8% had reduced or eliminated pesticide use;
- 7% had reduced the size of their lawn;
- 7% had installed efficient irrigation;
- 5% had amended their soil;
- 4% were composting;
- 1% were grasscycling and
- 1% had reduced the amount of hardscape in their gardens.

Repeat visitors were highly motivated to make changes in their gardens. When asked what they planned to do: 33% planned to increase the density of plantings to out-compete weeds; 31% to group plants of similar water needs; 24% to install efficient irrigation; 21% to reduce the size of their lawn, and to incorporate native plants into their gardens; 20% to encourage wildlife; 16% to amend their soil with compost; 13% to mulch; 11% to compost; 9% to minimize hardscapes; 8% to tolerate some insect damage to plants; 6% to grasscycle; and 5% to reduce or eliminate pesticide use.

**How do you manage your garden? (This information was taken from evaluations filled out by repeat registrants.)**

ITEM	Began after participation in a previous BBTN Tour	Plan to do this
1. Reduce/eliminate insecticide/herbicide use.	8%	5%
2. Increase the density of plantings to out-compete weeds.	14%	33%
3. Encourage birds, butterflies, etc. with plant choices, food, shelter,	11%	20%

and water.		
4. Tolerate some insect damage to plants.	11%	8%
5. Incorporate native plants into our garden.	19%	21%
6. Group plants of similar water needs.	12%	31%
7. Incorporate drought-resistant plants into our garden.	15%	16%
8. Install efficient irrigation (such as drip, timers, soaker hoses).	7%	24%
9. Grasscycle (leave grass clippings on the lawn).	1%	6%
10. Reduce the size of our lawn.	7%	21%
11. Mulch with leaves, grass, wood chips, etc.	9%	13%
12. Amend soil with compost.	5%	16%
13. Minimize hardscapes (patios, decks).	1%	9%
14. Compost yard waste and kitchen scraps at home.	4%	11%

### First-time registrants

The tour was highly motivating to the first time registrants who completed the evaluation. 57% of first time registrants planned to group plants by water needs; 52% of first-time registrants responded that they planned to increase the density of plants, thus helping to out-compete weeds and reduce water use; 51% planned to incorporate native plants into their gardens; 45% planned to install efficient irrigation and encourage wildlife; 43% planned to incorporate drought-resistant plants into their gardens; 39% planned to reduce the size of their lawns; 30% planned to tolerate some insect damage to plants; 28% planned to mulch; 26% to amend their soils and 25% to reduce or eliminate pesticide use; 15% planned to reduce the amount of hardscape in their gardens; 14% to grasscycle; and 10% to compost kitchen scraps and yard waste.

### How do you manage your garden? (These are responses from first-time

**registrants.)**

ITEM	Plan to
1. Reduce/eliminate insecticide/herbicide use.	25
2. Increase the density of plantings to out-compete weeds.	52
3. Encourage birds, butterflies, etc. with plant choices, food, shelter, and water.	45
4. Tolerate some insect damage to plants.	30
5. Incorporate native plants into our garden.	51
6. Group plants of similar water needs.	57
7. Incorporate drought-resistant plants into our garden.	43
8. Install efficient irrigation (such as drip, timers, soaker hoses).	45
9. Grasscycle (leave grass clippings on the lawn).	14
10. Reduce the size of our lawn.	39
11. Mulch with leaves, grass, wood chips, etc.	28
12. Amend soil with compost.	26
13. Minimize hardscapes (patios, decks).	15
14. Compost yard waste and kitchen scraps at home.	10

Number of visits made to each garden

**BAYSIDE CITIES**

**Berkeley**

California Native Bee Garden	402
Joel Ginsberg	478
Steve and Judy Lipson	648
Mardi and Jeff Mertens	503
Glen Schneider	400

**Castro Valley**

Sharon Horgan	230
Randal and Azalea Ong	160

**El Cerrito**

Nalani and Anna Heath-Delaney	535
Michael Graf	356

**El Sobrante**

Karen Andersen	182
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**Hayward**

Natalie Forrest and Douglas Sprague	184
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**Kensington**

Seibi Lee and Joel Schoolnik	321
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**Oakland**

Peg Farrell	289
Sandy Jaeger	287
Frannie Lewis and Mark Seaborn	277
Holly and Joe Maffei	505
Susan Weber	376

**San Lorenzo**

San Lorenzo High School	260
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**Union City**

Louise Waters 73

**INLAND CITIES**

**Lafayette**

Richard and Sandy Brehmer 608

**Livermore**

Cindy Angers 251

**Moraga**

Al and Barbara Kyte 630

Megan McNealy 517

**Orinda**

Barbara and Phil Leitner 496

Alma Raymond 158

Pat Rudebusch 654

Bob and Stephanie Sorenson 595

**Pleasant Hill**

Jing Zhang and David Cooney 441

**Pleasanton**

Melinda and Steve Ballard 196

Ward and Pat Belding 472

Janis and Chris Bufkin 194

Clark Family 472

**Walnut Creek**

Trina and Jeff Horner

574

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12724

*When planning for a year, plant corn. When planning for a decade, plant trees.*

*When planning for life, train and educate people.  
(Chinese proverb)*

**Below are comments from garden tour attendees, either taken from registrant evaluation forms, or received via e-mail.**

- It was superb! What a fantastic guidebook-- so well thought out, so helpful with all the maps and way of cross-indexing the gardens. Brilliant! Excellent! Thank you! And amazing that it was free!
- I didn't know native plants could be beautiful as well as water friendly.
- I learned a great deal about native plants and am excited to make improvements in my garden
- It's great having so many knowledgeable people right there to talk to.
- Very informative, well organized, and in this time of drought, utterly necessary!
- We were looking for, and found, information about sheet mulching, plant advice, and more.
- The gardens were beautiful and inspiring. The designers were very knowledgeable and helpful, and the owners extremely gracious. Outstanding- I learned a ton! I also got tips from other people who were touring.
- Seeing others create native gardens is inspirational and encouraging.
- Great service to the community
- Great tour! The booklet was extremely helpful and complete.
- The hosts were very gracious and available. Also, their volunteers and designers were helpful.
- I enjoyed viewing the gardens and getting some great ideas for bringing natives to our landscape.
- Loved it! Will attend next year!
- Thank you for offering this educational and enjoyable tour for the cost of a donation!

- Thanks, we learned so much!
- Wonderful learning experience and encouraging for my own garden efforts.
- I would like to thank all of the people who worked so hard and volunteered their time to make this tour possible! You have been ahead of your time for so long, but hopefully the rest of us will catch up somewhat. 1 Everyone was friendly and helpful. I really enjoyed it and appreciate that the tour is funded by some tax dollars! Very good use of tax money!
- Big, Big compliments. As a neighbor who had attended in past years noted, this event is INSPIRING. That's important when lots of new learning, dollars, and long term work are required. Specifically: 1. Very helpful brochure introduction for new participants to plan their visits, also great gardens, and it helped seeing the gardens grouped in map blocks for easier viewing. 2. Lots of information and examples on gardening for beneficial insects 3. Garden talks added learning opportunities 4. Diversity of gardens in size and setting 5. It was great to see such a turnout of interest. THANK YOU!
- I want to commend whoever organized the tour, along with whoever put together the booklet. It was all very well thought out and easy to follow! And the homeowners who welcomed us all!
- The tour book was awesome; it was beautifully done, well organized, easy to use (even for a beginner!), and it was packed full of useful info.
- We loved it. It was so inspiring. We are re-doing our garden and learned so much that will help us and the environment. Please keep the diversity of styles and budgets. We appreciated that the tour was not a bunch of show-off gardens but rather reflected real gardens of varying sizes and grandness.
- This was the best organized garden tour I have done. And the depth of information made available was excellent. Having the plant lists for each garden was brilliant.
- Every garden helped me understand better how to garden with less water.
- I am starting to convert my yard based on prior tours, using a landscaper whose work I had seen.
- So many ideas! New lawn solutions, sheet mulching, drought tolerant plants!
- Very inspiring!
- I took a friend who lives in a gated community. She is going to propose that the Association plant natives in the front yards and get rid of the grass.
- Just excellent and great directions. A+!

- KUDOS for existing features: Geographic maps, excellent descriptions, hints of terrain challenges, and different kinds of gardens in different stages of maturity.
- The booklet with all the details of the tour is just marvelous. Excellently presented, clear, precise, a pleasure to read and easy to use.
- It is always a pleasure to anticipate and view the lovely website, as well as the brochure.
- Can't possibly thank you enough for this tour! And for the wonder resources online.
- Excellent guide book and website.
- Extremely well organized. Hats off!
- Great event every year; it's inspirational.
- Great event, and a great booklet and website.
- The tour is a great asset to our gardening community. I always urge more friends to attend.
- Lots of fun and inspiring.
- Thank you for making this great educational opportunity available to the public.
- Thanks for all the hard work! Wonderful tour!
- The gardens were wonderful, as usual. Everyone was very helpful, answering my questions.
- The yards were all unique and lovely. The owners were very enthusiastic about their yards.
- Very well organized. Beautiful tour book.
- Volunteers are great; love the informative talks. Very well planned and orchestrated.
- I REALLY enjoyed the variety of "bugs" I saw at different gardens: spiders, caterpillars, different bees, butterflies, lady bugs, flitting critters too small to ID. These gardens are truly gifts to us and our fellow travelers.:-)
- As always, this tour is equal parts inspiration and delightful beauty. I love seeing how others have created beautiful plantings and how they incorporate art into the garden. I like seeing old familiar flowers mixed in with flowers I am just "meeting" for the first time. Every year I learn something new from the tour. Thank you for organizing this wonderful event!
- Your organization of the tour is a masterpiece in nearly every way. The booklet and website are outstanding. I'm deeply impressed by your attention to detail. I have much gratitude for all you do in helping raise consciousness about the use of natives and other ecological gardening practices.

- Thank you to the organizers and to the people who shared their gardens and experiences with native plants!
- Great preparation, great website. I like that I can view gardens ahead of time to determine which ones I want to view
- The booklet is excellent. The T-shirts for the owners and volunteers are helpful for finding someone to ask questions of. It was nice to have the Bee book for sale.

## **Bringing Back the Natives Garden Tour**

**Sunday May 3, 2015**

### **Summary**

- 38 gardens and nurseries were showcased on the Tour
- 50 + talks and demonstrations were given
- 150 volunteers made the tour possible
- nearly 6,000 registrants
- \$44,000 worth of natives sold through the Native Plant Sale Extravaganzas
- 12,724 garden visits were made

### **What do you want to learn from the tour?**

How to select native plants	71%
How to reduce water use	62%
How to garden for wildlife	46%
How to reduce or eliminate pesticide use	25%
How to replace a lawn with a garden	33%
How to compost	17%

### **Information taken from evaluations**

99% rated the tour "Excellent" or "Very Good."

### **Behavior Change**

84% of repeat registrants said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.

### **Motivation and Behavior Change**

When asked if the Tour inspired people about how to garden without pesticides, while using less water registrants provided these comments:

- Absolutely. I'm also converting my friends and family about it.
- I especially like the emphasis on attracting birds to replace pesticides.
- I was so inspired I came home and became a member of the California Native Plant Society. I am talking up natives to my friends and family now!
- It's instructive and delightful to see vigorous, lovely plants thriving without all those poisons-- without paying that price (or making the community and the planet pay it)
- The Tour certainly offers the opportunity to learn how to garden without pesticides, and with less water! With background information in the brochure, talks on-site, and the variety of handouts, as well as homeowners and garden assistants so accessible. Also, it's great the way you highlight special demonstration features, such as "Netafim, a microdrip irrigation system, is used to water the garden." This further helps alert the visitor to a specific feature related about reducing water use or pesticides.
- Absolutely and then some.
- I plan to replace my small front lawn with native grass, which I learned about on the Tour.
- We were inspired by the gardens and the gardeners. Looking forward to getting started!
- I learned how to take out the front lawn with minimal labor and money; I will change it out to drought- resistant plants.
- We are currently sheet mulching our large front lawn and replacing it with drought tolerant plants thanks to inspiration from this and past years' tours. We used a designer whose work we saw on the tour. The tours this year gave us a chance to ask specific questions as well as to see what some of our plant selections will look like in a couple years. Also gave us some ideas for the backyard.

**Evaluations of repeat registrants from the 2015 tour showed that after attending a prior Bringing Back the Natives Garden Tour:**

19% of respondents had incorporated natives into their gardens (thereby reducing herbicide use and conserving water);

15% had incorporated drought-resistant plants into their gardens;

14% had increased the density of plantings to out-compete weeds;

12% had grouped plants of similar water needs:

11% were tolerating some insect damage;

11% were encouraging wildlife with plant choices;

9% had begun mulching;

8% had reduced or eliminated pesticide use;

7% had reduced the size of their lawn;

7% had installed efficient irrigation

**Repeat visitors were highly motivated to make changes in their gardens. When asked what they planned to do:**

33% planned to increase the density of plantings to out-compete weeds

31% to group plants of similar water needs

24% to install efficient irrigation

21% to reduce the size of their lawn

21% to incorporate native plants into their gardens

20% to encourage wildlife

16% Incorporate drought-resistant plants into the garden

16% to amend their soil with compost

13% to mulch

11% compost

9% to minimize hardscapes

8% to tolerate some insect damage to plants

6% to grasscycle

5% to reduce or eliminate pesticide use

**First-time registrants**

The tour was highly motivating to first time registrants, who reported that they planned to:

57% group plants by water needs

52% increase the density of plants, thus helping to outcompete weeds and reduce water use

51% incorporate native plants into their gardens

43% incorporate drought-resistant plants into their gardens

45% encourage wildlife

45% efficient irrigation

33% reduce the size of their lawns

30% tolerate some plant damage

28% mulch

26% amend their soils

25% reduce or eliminate pesticide use

15% reduce the amount of hardscape in their gardens

14% grasscycle

10% compost