



September 10, 2014

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

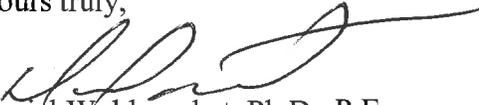
SUBJECT: Annual Report for Fiscal Year 2013-2014 for the Alameda County Flood Control and Water Conservation District.

Dear Mr. Wolfe:

Enclosed herewith is the subject for the Fiscal Year 2013-2014 (months of July 2013 through June 2014). This is being submitted in accordance with the requirements of our NPDES permit.

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

Yours truly,



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

DW:SG  
Enc.

**FY 2013-2014 Annual Report**

Permittee Name: ACFC&WCD

**ATTACHMENT B**

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- Section C.5 Illicit Discharge Tracking Form
- Section C.7 PIP Attachments

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 2013 through June 2014			
<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>	danielw@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			

**Section 2 - Provision C.2 Reporting Municipal Operations**

**Program Highlights and Evaluation**

Highlight/summarize activities for reporting year:

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

Staff continued to participate in the CWP M&O subcommittee and attended the CWP Full-Day Training (Street and Road Maintenance Best Management Practices Workshop on October 29, 2013, the 2014 Annual Meeting held on Thursday, April 3 at the City of Hayward Utilities Division Building, 24499 Soto Road, Hayward, and the Trash Capture Device Field Trip, a field trip featuring several types of trash capture devices installed in Oakland, held on Wednesday, April 30.

**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
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NA	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs
----	--

Comments:

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

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

X	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
---	--

X	Control of discharges from graffiti removal activities
---	--

X	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
---	--

X	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal
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X	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
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X	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
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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	7/15/13	3.0	9/13/13	4.0
Belvedere – 2480 Belvedere, San Leandro	7/15/13	6.0	9/13/13	5.0
D-1 - 2048 Farrallon, San Leandro	7/15/13	5.0	9/13/13	5.0
F – 2603 Fairway Dr. San Leandro	7/15/13	8.0	9/13/13	8.0
H – 13203 Monarch Bay Dr. San Leandro	7/15/13	5.0	9/13/13	4.0
Alvarado – 31269 Veasy St. Hayward	7/12/13	7.0	9/13/13	7.0
Ameron – 1990 Industrial Parkway West, Hayward	7/12/13	6.0	9/13/13	5.0
Besco – 29950 Hesperian Blvd. Hayward	7/12/13	7.0	9/13/13	7.0
Eden Landing – 3599 Arden Rd. Hayward	7/15/13	7.0	9/13/13	8.0
Stratford – 1898 Pacheco Wy. Hayward	7/12/13	5.0	9/13/13	6.0
Ruus – 29560 Ruus Rd. Hayward	7/12/13	7.0	9/13/13	8.0
Industrial – 1200 Industrial Parkway West, Hayward	7/12/13	8.0	9/13/13	8.0
Sulphur Creek – 19105 Barrington Ct. Hayward	7/15/13	8.0	9/13/13	7.0
J-2 – 4588 Delores Dr. Union City	7/12/13	8.0	9/13/13	8.0
J-3 – 32000 Union City Blvd. Union City	7/12/13	7.0	9/13/13	7.0
Westview – 32110 Alvarado-Niles Rd. Union City	7/15/13	5.0	9/13/13	4.0
Eden Shores – 2690 Eden Park Pl. Union City	7/15/13	7.0	9/13/13	7.0
McKillop – no address – Ground water not a stromwater sta. - Oakland	7/15/13	7.0	9/13/13	7.0
Ettie - Street – 3455 Ettie Street - Oakland	7/15/13	6.0	9/13/13	5.0

<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.

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

Summary: No corrective actions needed

Attachments:

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

Pump Station Name and Location	Date (2x/year required)	Presence of Trash (Cubic Yards)	Presence of Odor (Yes or No)	Presence of Color (Yes or No)	Presence of Turbidity (Yes or No)	Presence of Floating Hydrocarbons (Yes or No)
Roberts Landing -15670 Anchorage, San Leandro	2/10/14	No	No	Yes	No	No
Belvedere -2480 Belvedere, San Leandro	9/23/13	1.0CY	No	Yes	Yes	No
D-1 – 2048 Farrallon, San Leandro	2/10/14	No	No	Yes	Yes	No
F – 2603 Fairway Dr. San Leandro	2/10/14	1.0CY	No	Yes	Yes	No
H – 13203 Monarch Bay Drive, San Leandro	2/10/14	1.0CY	No	Yes	Yes	No
Alvarado -31269 Veasy St. Hayward	2/27/14	1.0CY	No	Yes	Yes	No
Ameron – 1990 Industrial Parkway West, Hayward	11-20-13	No	No	No	No	No
Besco – 29950 Hesperian Blvd. Hayward	2/10/14	2.5CY	No	Yes	No	No
Eden Landing – 3599 Arden Rd. Hayward	9-2513	5CY	No	Yes	Yes	No
Stratford – 1898 Pacheco Wy. Hayward	11-20-13	1.0CY	No	Yes	Yes	No
Ruus - 29560 Ruus Rd. Hayward	11/20-13	1.5 CY	No	Yes	Yes	No
Industrial – 1200 Industrial Parkway West, Hayward	11-20—13	5-7CY	No	Yes	Yes	No
Sulphur Creek – 19105 Barrington Ct. Hayward	2/27/14	No	No	No	Yes	No
J-2 – 4588 Delores Dr. Union City	11/25/13	6CY	Yes –Possum	Yes	Yes	No
J-3- 32000 Union City Blvd. Union City	11/25/13	2CY	No	Yes	Yes	No

Westview – 32110 Alvardao-Niles Rd. Union City	11-21-13	½ CY	No	Yes	Yes	No
Eden Shores- 2690 Eden Park Pl. Union City	2/10/14	1.0CY	No	Yes	Yes	No
Ettie Street- 3455 Ettie St. Oakland	11-20—13	5CY	Yes	Yes	Yes	No
Lake Merritt – 7 <sup>th</sup> Street, Oakland	11/20/13	No	No	Yes	Yes	No
Roberts Landing -15670 Anchorage, San Leandro	02/27/14	1.0CY	No	Yes	Yes	No
Belvedere -2480 Belvedere, San Leandro	02/27/14	1.0CY	No	Yes	Yes	No
D-1 – 2048 Farrallon, San Leandro	2/10/14	No	No	Yes	No	No
F – 2603 Fairway Dr. San Leandro	02/27/14	1.0CY	No	Yes	Yes	No
H – 13203 Monarch Bay Drive, San Leandro	02/27/14	1.0CY	No	Yes	Yes	No
Alvarado -31269 Veasy St. Hayward	022814	1-2CY	No	Yes	Yes	No
Ameron – 1990 Industrial Parkway West, Hayward	2/10/14	1.0CY	No	Yes	No	No
Besco – 29950 Hespirian Blvd. Hayward	2/27/14	1.0CY	No	Yes	Yes	No
Eden Landing – 3599 Arden Rd. Hayward	02/27/14	No	Yes	Yes	Yes	No
Stratford – 1898 Pacheco Wy. Hayward	2/10/14	1.0CY	No	No	No	No
Ruus - 29560 Ruus Rd. Hayward	2/10/14	1.0CY	No	No	Yes	No
Industrial – 1200 Industrial Parkway West, Hayward	11/29-13	3-5CY	No	No	No	No
Sulphur Creek – 19105 Barrington Ct. Hayward						
J-2 – 4588 Delores Dr. Union City	11/20-13	3CY	No	Yes	Yes	No
J-3- 32000 Union City Blvd. Union City	2/10/14	1.0CY	No	Yes	Yes	No
Westview – 32110 Alvardao-Niles Rd. Union City	2/10/14	1.0CY	No	Yes	Yes	No
Eden Shores- 2690 Eden Park Pl. Union City	02/27/14	2.0CY	No	Yes	Yes	No
Ettie Street -3455 Ettie St. Oakland	9-23-13	4CY	No	Yes	Yes	No
Lake Merritt – 7 <sup>th</sup> St. Oakland	2/10/14	No	No	Yes	Yes	No

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural <sup>2</sup> roads:		<input type="checkbox"/>	<input checked="" type="checkbox"/> Yes
If your answer is <b>No</b> then skip to <b>C.2.f.</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/> No
Place a <b>Y</b> in the boxes next to activities where applicable BMPs were implemented. If not applicable, type <b>NA</b> in the box and provide an explanation in the comments section below. Place an <b>N</b> 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.

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

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

- We do not have a corporation yard
- Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit
- We have a **Stormwater Pollution Prevention Plan (SWPPP)** for the Corporation Yard(s)

Place an **X** in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type **NA** in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below:

- Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment
- Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system
- Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method
- 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
- 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
Public Works	7/7/2014	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 C.3 New Development and Redevelopment section of the Countywide program's FY 13-14 Annual Report includes a description of activities conducted at the countywide or regional level.

**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.?

X	<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.

**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, 2014 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, 1) Complete Table C.3.e.vi . below. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project.				

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

(1) Fill in attached table <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 C3 Regulated Projects were approved within the District's jurisdiction during the reporting year.
(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, there have not been any regulated projects within the District's jurisdiction. Therefore, no O&M inspections were conducted during the reporting year.
(4) During the reporting year, did your agency:

<ul style="list-style-type: none"> <li>Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?</li> </ul>		<b>Yes</b>		<b>No</b>	X	<b>Not applicable. No new facilities were installed.</b>
<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>		<b>Yes</b>		<b>No</b>	X	<b>Not applicable. No treatment measures</b>
<ul style="list-style-type: none"> <li>Inspect at least 20 percent of the total number of installed vault-based systems?</li> </ul>		<b>Yes</b>		<b>No</b>	X	<b>Not applicable. No vault systems.</b>
<p>If you answered "No" to any of the questions above, please explain:          To date, there have not been any regulated projects 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.

**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).

**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).

**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 – January 1 – June 30, 2013												
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.  
See Section C.4 – Industrial and Commercial Site Control – of the ACCWP FY 13-14 Annual Report for a summary of Program activities.  
SECTION C.4. NA for ACFC&WCD

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

Do you have a Business Inspection Plan?  Yes  No  
If No, explain:  
SECTION C.4. NA for ACFC&WCD

**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.  
SECTION C.4. NA for ACFC&WCD

**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.  
SECTION C.4. NA for ACFC&WCD

**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: SECTION C.4. NA for ACFC&WCD		

**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: SECTION C.4. NA for ACFC&WCD	

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

Fill out the following table or attach a summary of the following information. **SECTION C.4. NA for ACFC&WCD**

	<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>			

**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. **SECTION C.4. NA for ACFC&WCD**

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

**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:

SECTION C.4. NA for ACFC&WCD

<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.

**C.4.d.iii ► Staff Training Summary**  
**SECTION C.4. NA for ACFC&WCD**

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
ACCWP Stormwater Business Inspectors Workshop: Enforcement Tools	November 14, 2013	<ul style="list-style-type: none"> <li>• Using the Enforcement Response Plan</li> <li>• Enforcement Case Scenarios</li> <li>• BMPs for Businesses</li> <li>• Controlling Pre-production Plastics</li> </ul>		

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

<b>Program Highlights</b>
Provide background information, highlights, trends, etc.
District staff participates in the CWP's I7IDC subcommittee. See Section C.5 – Illicit Discharge Detection and Elimination – of the ACCWP FY 13-14 Annual Report for a summary of Program activities.

<b>C.5.c.iii ► Complaint and Spill Response Phone Number and Spill Contact List</b>									
List below or attach your complaint and spill response phone number and spill contact list.									
<table border="1"> <thead> <tr> <th>Contact</th> <th>Description</th> <th>Phone Number</th> </tr> </thead> <tbody> <tr> <td>Public Works Agency</td> <td>Maintenance and Operations Main Number</td> <td>510-670-5500</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Contact	Description	Phone Number	Public Works Agency	Maintenance and Operations Main Number	510-670-5500			
Contact	Description	Phone Number							
Public Works Agency	Maintenance and Operations Main Number	510-670-5500							

<b>C.5.d.iii ► Evaluation of Mobile Business Program</b>
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.
NA for ACFC&WCD

<b>C.5.e.iii ► Evaluation of Collection System Screening Program</b>
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.

<b>C.5.f.iii.(1), (2), (3) ► Spill and Discharge Complaint Tracking</b>									
Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)									
<table border="1"> <thead> <tr> <th></th> <th>Number</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Discharges reported (C.5.f.iii.(1))</td> <td>18</td> <td></td> </tr> <tr> <td>Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))</td> <td>3</td> <td>17%</td> </tr> </tbody> </table>		Number	Percentage	Discharges reported (C.5.f.iii.(1))	18		Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	3	17%
	Number	Percentage							
Discharges reported (C.5.f.iii.(1))	18								
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	3	17%							

Discharges resolved in a timely manner (C.5.f.iii.(3))	18	100%
<p>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.</p>		

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

Provide a narrative or attach a table and/or graph.
<p>On 8/8/2013 a complaint was made on a homeless encampment. It took 28 days to coordinate with necessary agencies, post legal notice, adhere to required waiting period post-notice, clean-up, and proceed through the steps to make sure the clean-up was done correctly with all involved.</p>

**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>
<b>4</b>	<b>3</b>	<b>23</b>
Comments: The total number of inspections equals the initial monthly inspection for sites plus any follow-up inspections that may have been required.		

<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	1	33%
Sediment Control	1	33%
Active Treatment Systems	0	0%
Good Site Management	1	33%
Non Stormwater Management	0	0%
<b>Total<sup>53</sup></b>	<b>3</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.

**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	1	100%
Level 3	Notice of Violation	0	0%
Level 4	Stop Notice	0	0%
<b>Total</b>		<b>1</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.

**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)	1	100% <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</b> <sup>59</sup>	1	100%
<b>Comments:</b> All written violations were corrected within 10 days.		

**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 23 inspections were conducted at seven different sites within the District's jurisdiction. The tracking data showed that sediment, good site management and run-on/run-off control measures were the BMP problem areas. The BMP issues observed were consistent with prior reporting year observations and were generally related to maintenance. In total, there was a significant decline in BMP violations which could be attributed to 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:  
 To better the County's program, the stormwater construction inspection form was revised to include a carbon copy and the inspection notification policy was changed. The policy was changed to notify site supervisors via email 48 hours prior to the each monthly inspection so that site personnel can be present and properly notified of any corrective actions during the inspection. The carbon copy construction inspection form allows the site supervisor to have a copy of the report immediately after the inspection. A formal report including photos is subsequently submitted via email

<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.

to the construction manager and site supervisor. This approach further reduced the turn-around time for corrective action. Since these changes went into effect, generally all corrective actions, have been completed within 2 to 5 days and potential violations were significantly reduced. Currently our stormwater compliance program is very effective and running smoothly.

**C.6.f ► Staff Training Summary**

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
Certified Inspector Sediment and Erosion Controls	June 10 & 11, 2014	EPA Information, Inspector Background Material, Best Management Practices, and Conducting Inspections	1 PWA Project Managers attended the training.	0%* Training was focused to educate managers.

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

**C.7.b.ii.1 ► Advertising Campaign**

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

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

**C.7.b.iii.1 ► Pre-Campaign Survey**

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

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

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

**C.7.c ► Media Relations**

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

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

Summary:

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

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

**C.7.d ► Stormwater Point of Contact**

Summary of any changes made during FY 13-14:

**Refer to countywide Program's C.7 Public Information and Outreach section of Program's FY 13-14 Annual Report for efforts conducted by the countywide program to publicize stormwater points of contact (e.g. program website, hotline, outreach materials, etc.).**

**Local Effort:**

The ACFC&WCD is continuing to work on a website update, and has started working on a plan and design to add a watershed section to the website with helpful information for the public.

The ACFC&WCD also started using a smart phone application during the 2013-14FY called "Mobile Citizen" to make it easier for local residents to report illegal dumping and spills and send photos of the incidents. The application has GPS functionality, so it simultaneously maps the location and generates a work request for the Maintenance and Operations Department.

**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
Provide event name, date, and location. Indicate if event is local, countywide or regional.	Identify type of event (e.g., school fair, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscape presentation, pesticides, stormwater awareness)	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: <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 7, 2013 and June 18 through June 30, 2014. Setting up the exhibit and producing the outreach materials are Countywide Program efforts. Staffing the exhibit is an effort conducted by individual Permittees.</p> <p>The 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>Several hundred thousand residents attend the fair each year. A more detailed description of the exhibit is included in Section C.7 Public Information and Outreach of the Countywide Program's FY 13/14 Annual Report.</p>
<p><b>Stormwater Exhibit at the Alameda County Fair –</b>                      The ACFC&amp;WCD Staffed the Fair Booth on 7/5/13, 7/6/13, 7/7/2013, 6/22/14 and 6/29/14.</p> <p>The ACFC&amp;WCD played a major role in: exhibit concept development; coordinating and</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 475,762 attendees, a 22% increase from last year. Very good opportunity to speak to homeowners about how they can use less toxic methods to control pests in their yard and garden. A craft activity was added each Fridays for "Kids' Day", to increase the amount of children attending the booth, and to</p>

<p>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>provide opportunities to speak to children and their families about our booth message. 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>Alameda County Fall Home and Garden Show,</b> 10/4, 10/5 &amp; 10/6/13 – 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. 6000 Alameda County Residents attended event. Detain the Rain brochures, Keeping it all in Tune, new Clean Water Program reusable bags with an information sheet inserted regarding the upcoming plastic bag ban in Alameda County, and stormwater pollution prevention brochures were featured at the booth. The booth message was focused on reducing litter that 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, including a game simulating the Bay filled with fish and some littler, with the goal being to pull out a fish and not a piece of litter. We also played a "True or Rubbish" game, which focused on trash true and false questions. Native seed packets, CWP reusable bags, fish erasers, 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,</b> 2/15, 2/16, 2/17/14 – 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 pesticides in the yard and chemicals around the house by using less toxic alternatives.</p>	<p>Approximately 11,000 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, fish erasers, and stormwater pollution prevention brochures. Our Clean Water booth utilized a frog theme in order to educate event participants about frogs' roles as an indicator</p>

		<p>species and how they tell us about the water quality of our local creeks.</p> <p>In order to explain how frogs are an indicator species for water quality in our local creeks and create awareness of the environmental impacts of water pollution, staff engaged children with the following two environmental activities: the "Fact or Frog-tale Quiz" game and a bookmark craft activity. The "Fact or Frog-tale Quiz" game utilized a large colored wheel for players to spin. The color they landed on corresponded to a same-color card which asked a question about frogs. No matter if they answered correctly or not, each player received a prize and staff used the game to open up discussion about how we use frogs as an indicator species for water quality and about the importance of keeping our waterways clean of pollution. 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 keeping your car free from leaks and the proper way to dispose of automotive fluids. The ACF&amp;WCD organizes and staffs the booth at this event.</p>
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<p><b>EarthEXPO</b>, Downtown Oakland – 4-9-14.</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 water conservation and protection via water saving in homes, businesses, and landscapes; Bay-friendly landscaping; stormwater protection; volunteer creek and shoreline cleanups and ecological restoration</p>
<p><b>Friends of San Leandro Creek (FSLC) Environmental Forum</b>, San Leandro Public Library, San Leandro – 11/9/13</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: EBRPD, Merritt College, Sausal Creek, Bay Trail, Ohlone Indians, Interact and Yes Clubs of San Leandro High School, and Alameda Creek Alliance. Three panelist presentations: Igor Skaredof, Dr. Rob Leidy, Mike Vukman. This year's topic of presentations was Native Fishes of the Bay Area.</p>	<p>76 people present. Booths and speakers made it easy for environmentalists present to make professional connections.          9 new members/renewals.          Emailed all contacts and members with invitation. Advertised in Daily Review, San Jose Mercury News, Oakland Tribune, San Leandro Times, Castro Valley Forum, placed on Chamber of Commerce, FSLC and City of San Leandro websites.</p>
<p><b>FSLC Earth Day/Watershed Festival</b>, Root Park, San Leandro – 4/12/14</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>Community outreach event. 10 Local groups hosted display tables for public education. Presentations by 2 family oriented entertainers.</p>	<p>Approximately 150 people were present for the Clean Up and Festival.          9 new members/renewals.          Emailed all contacts and members with invitation. Advertised in Daily Review, San Jose Mercury News, Oakland Tribune, San Leandro Times, Castro Valley Forum, placed on Chamber of Commerce, FSLC and City of San Leandro websites.</p>
<p><b>FSLC Member Meetings</b>, San Leandro Library - 10/15/13</p> <p>The ACFC&amp;WCD is a major funder of this program.</p>	<p>FSLC President Michael Gregory gave an historical overview and review of recent FSLC activities.</p>	<p>15 people present          Approximately 150 people were present for the Clean Up and Festival.          9 new members/renewals.          Emailed all contacts and members with invitation. Advertised in Daily Review, San Jose Mercury News, Oakland Tribune, San Leandro</p>

		Times, Castro Valley Forum, placed on Chamber of Commerce, FSLC and City of San Leandro websites.
<b>Please see Attachment C.7.4 for Additional Friends of San Leandro Creek Public Outreach Events Summary.</b> The ACF&WCD funds and provides on-going support to this program through which many public outreach activities are conducted.	Please see Attachment C.7.4 for Friends of San Leandro Creek Outreach Events Summary.	Please see Attachment C.7.4 for Friends of San Leandro Creek Outreach Events Summary.
<b>Friends of Sausal Creek (FOSC) Public Outreach Events in Dimond Park, Oakland – 7/17/13, 7/21/13, 8/30/13, 9/21/13, 10/20/13, 12/7/13, 4/26/14, and 5/21/14.</b>  The ACF&WCD funds and provides on-going support to this program through which many public outreach activities are conducted.	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.	Please see Attachment C.7.3 for Friends of Sausal Creek Public Outreach Events Summary.
<b>Tule Ponds at Tyson Lagoon, Fremont, Open House Events – 3/1/14, 3/15/14, 4/14/14, 5/10/14, 5/31/14 and 6/7/14.</b>  The ACFC&WCD owns the facility and also provides additional funding for education.	Events are open to the general public. The theme this year for the large open house in April was "Butterflies at the Tule Ponds." 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 C.7.2 for Tule Ponds Public Outreach Events Summary	Approximately 550 local residents attended these events. Please see Attachment C.7.2 for Tule Ponds Public Outreach Events Summary
<b>Environmental Education Workshops at Tule Ponds at Tyson Lagoon, 9/18/13, 10/16/13, 11/20/13, 12/18/13, 1/15/14, 2/19/14, 3/19/14, and 4/16/14 – Fremont</b>  ACF&WCD owns the Tule Ponds at Tyson Lagoon, and funds the programs and events that are held at the facility.	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	An average of 12 teachers attended each workshop, for a total of 96 teachers in all. The feedback from attendees was very positive.

<p><b>The Bringing Back the Natives Garden Tour</b> - held throughout Alameda and Contra Costa counties on 5/4/14. (The 41 gardens and nurseries showcased on the Tour were located in 22 cities and unincorporated areas in Alameda and Contra Costa counties: Alameda, Berkeley, Brentwood, Castro Valley, Clayton, Concord, El Cerrito, Fremont, Hayward, Kensington, Lafayette, Livermore, Martinez, Moraga, Oakland, Oakley, Orinda, Pinole, Pleasant Hill, Richmond, San Lorenzo, 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>• 41 gardens and nurseries were showcased on the Tour</li> <li>• more than 60 talks and demonstrations were given</li> <li>• 150 volunteers made the tour possible</li> <li>• more than 6,000 registrants</li> <li>• 13,066 garden visits were made</li> <li>• more than \$11,000 worth of natives sold through the spring, 2013 Native Plant Sale Extravaganza, and \$10,000 worth of natives sold through the fall 2013 Native Plant Sale</li> <li>• 99% of those filling out the evaluations rated the tour “Excellent” or “Very Good.”</li> <li>• This year 64% of the registrants were repeat visitors, and 36% were attending the tour for the first time.</li> <li>• Please see the attached Summary Statistics document for behavior change information. See the attached document “Number of registrants by city,” to see how many registrants came from each city, and the Final Report for additional information.</li> </ul>
<p><b>Stewardship Palooza Bay Area Open Space Council Event</b>, David Brower Center, Berkeley - 3/20/14</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>The goal of the event was to inform participants about local land stewardship via demonstration and interaction. Participants included those working and volunteering in stewardship in the area. Effective stewardship practices that work well were showcased. The Hands-On Conservation table featured demonstrations of a watershed diorama, demo restoration planting materials and “how to” information.</p>	<p>At least 100 East Bay area resource professionals, watershed group members, participants, educators, participated in this first-time event, with 25 being actively engaged at our Hands-On Conservation table. Approximately 20 handouts were passed out publicizing HOC Earth Day creek cleanup events. Participants also entered a contest to guess the hardiest restoration plant; this generated interest and questions.</p>
<p><b>Community Service/ Volunteer Fair</b>, Logan High School, Union City - 3/27/14</p>	<p>High School lunchtime fair event for students, teachers: Staffed table with “Creek Care” and anti-littering display for</p>	<p>100-150 students visit the approximately 15 tables at the event. At the Hands-On Conservation table, talked with approximately</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>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 o volunteer for the Hands-On Conservation 4/19/14 Earth Day cleanup event.</p>	<p>30 high schools students, 4-5 other environmental organization tablers, and several staff members. 40 mini flyers on participating in nearby Hands-On Conservation stewardship activities for Earth Day were handed out.</p>
<p><b>Alameda County Fair- Farm Fresh Thursday - 6/26/14</b></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 the general public who were visiting the county fair, and especially backyard gardeners/urban farmers. Display of plants that sustain beneficial insects and pollinators; discussion and info on discouraging the use of pesticides. HOC workday info and signups taken for farm hedgerow stewardship.</p>	<p>Approximately 20 fair visitors stopped by to look at plants and display, review and take handouts, discuss HOC activities. 16 CWP wildflower seed packets handed out.</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:

**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 funds and administers 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.

Planning and implementation of the **3/13/14 Annual Conference for Watershed Stakeholders** held at the Dublin community center; facilitated a walking tour of creek restoration at the site at the lunch break.

- The 68 conference attendees included: watershed stakeholders, including Forum members/signatories, agency staff, members of the public and organizations, college students, and teachers.
- Topics discussed: water quality and wildlife habitat protection, creek restoration, stewardship, climate change impacts and related topics/issues in the watershed. The Annual Conference highlighted current research and creek restoration activities in the watershed, sediment and historical ecology.
- A table with handouts provided by stakeholders on pertinent topics was visited by participants. 5 tablers (event sponsors and others) included creek groups in the watershed, consultants with relevant project information and involved agencies, including exhibits on watershed mapping and a new adopt a creek program in the watershed.
- Information was provided by stakeholders for input to planning for future Forum activities. Participants who responded to a post-conference survey cited the value round-robin agency/organization updates session and the information presented by the array of speakers.
- ACWForum Steering Committee formalized:** meetings held on 7/26/13 and 8/14/13.
- Rebranding (ACWForum) and developed new website:** www.acwForum .org

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

The ACFC&WCD also completed an update to the Google Earth Watershed Map Program for Western Alameda County 2.0. The update included: adding watershed pop-ups with a list of quick facts for each of the approximately 40 watersheds featured in the program; adding names to the creeks in the program; adding layers with clickable icons, photos and descriptions for ACFC&WCD creek restoration projects and historical points of interest; updated historical information featured in the program; and started the researching and drafting detailed watershed information sheets for each watershed in Western Alameda County that will be stored on the ACFC&WCD website and link to the Google Earth Program. The writing of these fact sheets has involved working with local friends groups, interested parties and watershed stakeholders in the community. The updated Google Earth watershed program will be available for download during the 2014-2015 fiscal year from the ACFC&WCD website.

**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>
<p><b>MLK Day of Service, 1/18/14 – Alameda Food Bank, Alameda, CA</b></p> <p>The ACFC&amp;WCD's Hands-On Conservation Program led this clean-up event.</p>	<p>A clean-up and creation of a small garden at a site behind the Alameda Food Bank as a way to highlight a future Community Garden that will be developed where community members will be able to rent out plots to grow vegetables. Excess vegetables from the garden will go directly to the Food Bank as well</p>	<p>The ACFC&amp;WCD donated the following supplies to sponsor this event:</p> <ul style="list-style-type: none"> <li>- 15 heavy duty gloves</li> <li>- 6 wheel barrows</li> <li>- 5 Rakes</li> <li>- 8 Hammers</li> <li>- 10 yards of compost (for planter boxes and compost bin)</li> </ul> <p>Volunteers collected 2 cubic yards of litter, and 5 cubic yards of green waste at the event, which was hauled away by the ACFC&amp;WCD.</p>
<p><b>Community Stewardship Program (CSG)</b></p> <p>In addition to contributing grant funding, the ACFC&amp;WCD also coordinates the CSG Program for the Countywide Group.</p>	<p>The Countywide Program sponsors the CSG Program. The CSG Program provides approximately \$20,000 - \$25,000 annually in \$1,000 to \$5,000 increments to individuals and community groups to support stormwater improvement/outreach projects throughout the County.</p>	<p>See the Countywide Program's FY 13/14 Annual Report for a summary.</p>
<p><b>Friends of San Leandro Creek Citizen Involvement Events, Root Park, San Leandro – 9/21/13, 1/25/14, 4/12/14, 6/7/14</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</b>, Many Different Locations Throughout the Watershed (Please see Attachment C.7.3 for details)</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</b>, Oakland.</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 25-27 adopt a spot locations, and two large community clean up events that were coordinated through this program this year.</p>	<p>Creek to Bay Day brought together more than 1,000 volunteers to clean up 33 creek and shoreline locations throughout Oakland. Volunteers picked up over 15,000 pounds of trash from Oakland's creeks, Lake Merritt and the estuary and removed nearly <b>150 cubic yards of non-native greenwaste</b> to allow native plants to flourish.</p> <p>On Earth Day, over 2,400 volunteers participated in this citywide beautification effort, putting in a combined 7,600 volunteer hours. Thirty of the volunteer sites were at creeks and shorelines. Over 830 volunteers assisted in cleanup and beautification activities at creek sites and Lake Merritt.</p> <p>Program 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 7/1/13 – 6/30/14 (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</p>	<p>Please see Attachment C.7.2 for the Tule Ponds Citizen Involvement Events Summary.</p>

	hours (see attached report C.7.2). We had 2 Silver Award projects with 40 hours per girl with approximately 320 hours.	
<p><b>Union City Civic Center Park</b>, Union City- "Creek Care" stewardship activities with the ACFC&amp;WCD's Hands-On-Conservation Coastal Cleanup Day event with Alameda Creek Alliance at the creek trail 9/21/13          Make A Difference Day conducted with Union City Parks –tree planting workday and trash cleanup on 10/26/13          Martin Luther King National Day of Service- creek cleanup on 1/20/14</p> <p>The ACFC&amp;WCD's Hands-On Conservation Program led this clean-up event.</p>	<p>Hands-On Conservation volunteer workdays included riparian vegetation planting and maintenance, invasive plant removal, and extensive trash cleanups along the flood control channel and adjacent walking trail. "Creek Care" practices were discussed informally with volunteers to engage them in the process of helping improve water quality in their neighborhood creeks.</p>	<p>1200' linear feet of creek banks along park trails cleaned (3 times =3600'). Additional ¼ mile of trail and Alameda Creek creek bank cleaned on Coastal Cleanup Day. 3-4 large (12 cu ft) trash bags were filled for each event and recyclables were separated, many additional bulky items. 8 native trees planted on Make A Difference Day along park trails. Coastal Cleanup Day had 50+ volunteers including youth and adults; Make a-Difference Day attracted 40+, and MLK Day had only 5 participants (due to a conflicting high school event). Volunteers included high school students and local residents, several teachers, a school group and club, and watershed group. All volunteers received CWP re-usable shopping bags.</p>
<p><b>Sabreca Creek Stewardship workday</b>, Fremont - 5/10/14</p> <p>The ACFC&amp;WCD's Hands-On Conservation Program led this clean-up event.</p>	<p>Weeded and applied mulch for recent creekside plantings in collaboration with USDA NRCS staff's project, and picked up litter at site.</p>	<p>Two community volunteers came to the workday and helped staff apply 2 cubic yards of mulch to an 800' long strip of plants. 5-gallon bucket of litter picked up along creek trail.</p>

<p><b>Earth Day-Alameda Creek Cleanup</b>, Niles - 4/19/14</p> <p>Stewardship activities with the ACFC&amp;WCD's Hands-On Conservation program in coordination with the Alameda Creek Alliance</p>	<p>Creek cleanup and invasive plant removal workday held in conjunction with the Alameda Creek Alliance watershed group (4/20/13) at their adopted spot along Alameda Creek. Alliance restoration manager spoke to the group about plans for restoring the spot, and fish habitat. HOC staff led the creek cleanup and ACA led the invasives removal in the riparian corridor. HOC filmed volunteers in action at the cleanup, and interviews with volunteers for the Hands-On Conservation website</p>	<p>1/2 mile of creek bank was cleaned up by <b>20</b> community volunteers. 6 large trash bags filled (bag size 12 cu ft), with bulky materials in addition to those. Volunteers received CWP reusable shopping bags.</p>
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**C.7.h. ► School-Age Children Outreach**

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

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
<p>Provide the following information:            Name            Grade or level (elementary/ middle/ high)</p>	<p>Brief description, messages, methods of outreach used</p>	<p>Provide number or participants</p>	<p>Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.</p>
<p><b>See the Section C.7 of the Countywide Program's FY 13/14 Annual Report for a summary of the Program's School-Age Outreach Program.</b></p>	<p>See the Section C.7 of the Countywide Program's FY 13/14 Annual Report.</p>	<p>See the Section C.7 of the Countywide Program's FY 13/14 Annual Report.</p>	<p>See the Section C.7 of the Countywide Program's FY 13/14 Annual Report.</p>
<p><b>Hands-On Conservation Program. Grades 6-College Age Students.</b></p>	<p>The Hands-On Conservation Program provides opportunities for outdoor stewardship activities to increase students' knowledge of natural resources and the protection of</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>The ACF&amp;WCD is a major funding source for this program.</p>	<p>watersheds. Please see <i>Attachment C.7.1</i> 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 2013-14FY.</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 ACF&amp;WCD.          150 college students with 5 teachers also visited the center for field trips, as well as an additional 5 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 teachers 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 49 field trips groups this past school year. This sharp increase was due to a year-long program with all Grade 2 classes at Joaquin Miller Elementary; the students learned about the full restoration cycle through monthly field trips to either Beaconsfield Canyon or our native plant nursery (accounting for 27 of the field trip groups). In addition to field trips, student service organizations volunteered for Saturday workdays year-round.</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>
<p><b>Friends of San Leandro Creek Chabot Day Camp, Sulphur Creek Day Camp, and Local School Field Trips.</b></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>

Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.	Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.	Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.	Oakland Clean Creeks Program. Please see Attachment C.7.5 for the School-Age Education Summary.
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**Section 8 - Provision C.8 Water Quality Monitoring**

**C.8 ► Water Quality Monitoring**

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

Summary

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

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

**C.9.b ► Implement IPM Policy or Ordinance**

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

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

**C.9.c ► Train Municipal Employees**

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	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.

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

Did your municipality contract with any pesticide service provider in the reporting year?				<input type="checkbox"/>	<b>Yes</b>	<input checked="" type="checkbox"/>	<b>No</b>
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:							

**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:							
<p>During FY 13-14, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. See the CASQA Pesticides Subcommittee Annual Report 2013-14: Preventing Urban Pesticide Pollution in Stormwater for a summary of CASQA activities.</p>							

**C.9.f ▶ Interface with County Agricultural Commissioners**

Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year?				<input type="checkbox"/>	<b>Yes</b>	<input checked="" type="checkbox"/>	<b>No</b>
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 the ACCWP FY 13-14 Annual Report and the BASMAA FY 2013-2014 Regional Supplement for Training and Outreach for information on point of purchase public outreach conducted countywide and regionally.							

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

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

Summary:

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

**Section 10 - Provision C.10 Trash Load Reduction**

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

Provide the following:

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

**Descriptions of Actions/Tasks (Conducted or Planned):**

Full capture NA for ACFC&WCD

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

**Descriptions of Maintenance Activities:**

See section C.2, Municipal Operations

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

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

Trash Hot Spot	FY 13-14 Cleanup Date	Volume of Trash Removed (cubic yards)				Dominant Type(s) of Trash in FY 2013-14	Trash Sources in FY 2013-14 (where possible)
		FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14		
ala_sem_1 Rainbow Rec. Center 5800 International Blvd. Oakland 94621	9/26/13 6/12/14	22cy	7cy	29cy	35cy 3cy	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	9/10/13 6/12/14	24cy	8cy	32cy	40cy 3cy	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	10/09/13 6/11/14	14cy	14cy	22cy	60cy 4cy	Paper, plastic bags and Styrofoam	Illegal dumping and Neighboring business.
ala_san_1 u/s and d/s of Hegenberger, Rd Oakland	3/12/14 6/11/14	16cy	80cy	14cy	60cy 8cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans / lumber	Littering from pedestrians, motorists illegal dumping, and homeless.
ala_san_2 U/s and d/s of 98th Ave. Oakland.	12/12/13 12/30/13 1/15/14 6/11/14	18cy	99cy	139cy	5cy 6cy 8cy 5cy	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 Veasy st Union city.	3/26/13 4/16/14	9cy	10cy	5cy	5cy 5cy	Woody debris household Garbage furniture, ,plastic,paper,toys,balls cans,bottles,Styrofoam,tir es	Illegal dumping From upstream reaches abutting schools And apartments.
ACF Zone 3A downstream Folsom Ave Hayward	7/9/13 6/9/14	11cy	15cy	4cy	3cy 3cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans	Littering from pedestrians, motorists, trespassers, & illegal dumping
ACF Zone 5 Upstream Logan Dr Fremont	6/24/13 7/16/14	2cy	6cy	4cy	4cy 5cy	Paper, plastic bags and bottles, Styrofoam, glass bottles, aluminum cans Food wrappers	Littering from pedestrians, motorists illegal dumping,
ACF Zone 5 Upstream of Line B, Mowry Ave Fremont	5/8/13 3/10/14	10cy	10cy	10cy	5cy 8cy	Typical household garbage, paper, plastic bags and bottles, Styrofoam and household	Littering from pedestrians, motorists illegal dumping.

<b>C.10.c ► Long-Term Trash Load Reduction Plan</b>	
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.	
<b>NA for ACFC&amp;WCD</b>	
Description of Significant Revision	Associated TMA

<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 13-14 Annual Report.	See Section C.10 of the ACCWP FY 13-14 Annual Report.	
Channel/Creek/Shoreline Cleanup	District staff do regular trash removal from creeks and shorelines throughout the District  Sources are from pedestrian litter, vehicle litter, container management failure, illegal dumping Types of litter include bottles (mainly plastic, some cans and glass), paper cups, paper, plastic lids, polystyrene, plastic and foil food wrappers, misc. hard plastic, cardboard, cigarette butts, and large items.	Staff removal amounts are tracked through the County's Mainstar system.	Collection amounts (does not include the County's unincorporated area) 7/1/2013 through 6/30/2014 3028 cu yds (611,656 gallons)	
Public Education and Outreach Programs Targeted at Trash Reduction and Implemented post-MRP Adoption				

<b>C.10.d ► PART C – Estimated Overall Trash Load Reduction</b>	
<p>For Population-based Permittees, provide an estimate of the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the estimate on the information presented in C.10.d – Parts A and B and creek/shoreline cleanups not reported in C.10.b.iii. Provide a statement regarding the confidence in the estimate and challenges and/or successes in measuring progress towards the 40% trash reduction target described in provision C.10.</p> <p style="text-align: center;"><b>NA for ACFC&amp;WCD</b></p>	
<b>Discussion of Trash Reduction Estimate:</b>	
Estimated % Trash Reduction due to Jurisdictional-wide Actions	
Estimated % Trash Reduction due to Trash Full Capture Devices (All TMAs)	
Estimated % Trash Reduction due to Other Control Measures (All TMAs)	
<b>SubTotal for Above Actions</b>	
Estimated % Trash Reduction due to Creek/Shoreline Cleanups (All TMAs)	
<b>Total Estimated % Trash Reduction in FY 13-14</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 13-14 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.

**C.11.a.ii ► Mercury Collection**

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

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

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

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

Summary

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

**Section 12 - Provision C.12 PCBs Controls**

**C.12.a.ii,iii ▶ Ongoing Training**

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

Description:

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

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

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

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

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

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

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

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

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

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

Summary

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

**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

**C.13.c ▶ Vehicle Brake Pads**

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

Summary

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

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

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

Summary

NA

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

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

**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 to the C.3 New Development and Redevelopment, C.7. Public Information and Outreach and C.9. Pesticide Toxicity Control sections of ACCWP's FY 13-14 Annual Report. And, C.7., Public Information and Outreach, of the ACFC&amp;WCD Annual Report.</p>

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

Complaint/Spill/Discharge Tracking Spreadsheet

[Enter Agency Name]

MRP

Requirements The MRP's Provision C.5.1 requires the following: "All incidents or discharges reported to the complaint/spill system that might pose a threat to water quality shall be logged to track follow-up and response through problem resolution. The data collected shall be sufficient to demonstrate escalating responses for repeat problems, and inter/intra-agency coordination, where appropriate."

Purpose: The purpose of this spreadsheet is to provide an example "water quality spill and discharge complaint and follow up" tracking method for the ACCWP agencies to adapt for their use starting April 1, 2010.

Complaint Information													Investigation Information													Follow Up Information														
Date and Time of Complaint Receipt		Source of Complaint Enter "1" for source of complaint			Threat to Water Quality		Type of Pollutant(s) Enter "1" for each type reported						Date Investigation Started	Time Investigation Started	Type of Pollutant(s) Enter "1" for each type found									Type of Enforcement Enter "1" for each type			Response Times Enter number of days													
Date of Complaint	Time of Complaint	Public	Another Public Agency	Own Agency Staff	Enter "1" if discharge reported threat to water quality	Enter "1" if no threat to water quality	Washwaters	Sewage	Construction Materials	Vehicle Fluids	Food Wastes	Paint			Sediment and/or Silt	Industrial Wastes	Litter and/or Debris	Other	Washwaters	Sewage	Construction Materials	Vehicle Fluids	Food Wastes	Paint	Sediment and/or Silt	Industrial Wastes	Litter and/or Debris	Other	Enter "1" if Discharge Entered Storm Drain and/or receiving water	Enter "1" if there is nothing needing abatement	None	Warning Notice	Written Warning/ Notice of Violation	Notice to Comply	Legal Action	Call to Investigate	Investigate to Abate	Call to Abate	Enter "1" if Resolved in Timely Manner	
7/1/13	1004	1			1		1										7/11/13	100										1	1							10	0	0	1	
8/8/13	427		1			1										1	9/6/13	430														1				28	1	1	1	
8/9/13	955	1				1											8/15/13	846														1			6	2	2	1		
8/23/13	125	1			1			1									8/23/13	342	1																0	0	0	1		
8/26/13	1145		1			1									1	9/3/13	800															1			7	1	1	1		
9/17/13	316	1				1						1				9/19/13	900					1												2	1	1	1			
9/30/13	1216		1		1					1						9/30/13	120				1														0	0	0	1		
10/7/13	1239		1		1							1			1	10/7/13	1115																	0	0	0	1			
10/21/13	433		1			1										10/29/13	1230																	8	1	1	1			
10/22/13	252	1				1									1	10/23/13	1200																	1	1	1	1			
11/4/13	227	1			1										1	11/4/13	945																		0	0	0	1		
11/7/13	1138	1			1					1						11/7/13	1137				1														0	0	0	1		
12/3/13	1131		1			1									1	12/10/13	900																	1		7	1	1	1	
12/4/13	919		1			1									1	12/4/13	935																		0	0	0	1		
12/5/13	440		1			1										12/5/13	347																		0	0	0	1		
12/17/13	825	1			1										1	12/17/13	1250																		0	0	0	1		
1/8/14	1011		1			1									1	1/8/14	939																		0	0	0	1		
1/10/14	928	1				1									1	1/10/14	848																		0	0	0	1		
1/17/14	959		1			1									1	1/17/14	903			1																0	0	0	1	
2/5/14	859	1				1				1						2/6/14	1100																		1		1	0	0	1
2/7/14	1002	1				1									1	2/7/14	900																		1	1	0	1		
2/10/14	207			1		1									1	2/10/14	100																		0	0	0	1		
2/11/14	334		1			1									1	2/11/14	400																		0	0	0	1		
2/14/14	1029		1			1									1	2/14/14	1110																		0	0	0	1		
2/14/14	355	1				1				1						2/14/14	305																		0	0	0	1		
3/6/14	356		1			1				1						3/6/14	400			1															0	0	0	1		
3/17/14	332	1				1									1	3/18/14	1205																		1	1	1	1		
4/10/14	414	1				1									1	4/11/14	345																		1	1	1	1		
5/27/14	1256	1				1				1						5/28/14	945			1															1	1	1	1		
6/5/14	244			1		1									1	6/6/14	1045																		1	1	1	1		
6/9/14	414	1				1									1	6/11/14	1149																		2	1	1	1		
6/12/14	1213			1		1				1						6/12/14	900																		0	0	0	1		
6/16/14	1053	1				1									1	6/16/14	1200																		0	0	0	1		
6/19/14	831	1				1				1						6/19/14	1000		1																0	0	0	1		

Complaint/Spill/Discharge Tracking Spreadsheet

[Enter Agency Name]

Complaint Information																Investigation Information														Follow Up Information								
Date and Time of Complaint Receipt		Source of Complaint Enter "1" for source of complaint			Threat to Water Quality		Type of Pollutant(s) Enter "1" for each type reported											Date Investigation Started	Time Investigation Started	Type of Pollutant(s) Enter "1" for each type found											Type of Enforcement Enter "1" for each type			Response Times Enter number of days				
Date of Complaint	Time of Complaint	Public	Another Public Agency	Own Agency Staff	Enter "1" if discharge reported threat to water quality	Enter "1" if no threat to water quality	Washwaters	Sewage	Construction Materials	Vehicle Fluids	Food Wastes	Paint	Sediment and/or Silt	Industrial Wastes	Litter and/or Debris	Other	Enter "1" if Discharge Entered Storm Drain and/or receiving water	Nothing Found to Abate Enter "1" if there is nothing needing abatement	None	Warning Notice	Written Warning/ Notice of Violation	Notice to Comply	Legal Action	Call to Investigate	Investigate to Abate	Call to Abate	Enter "1" if Resolved in Timely Manner											
Summary Discharge Information																Summary of Types of Pollutants Discharged														Summary of Sources of Complaints								
Number of discharges reported																Washwater														Public								
Number of discharges reaching storm drains and/or receiving waters																Sewage														Another Public Agency								
Number of discharges resolved in a timely manner																Const. Mat.														Own Public Agency								
Percentage of discharges resolved in a timely manner																Vehicle Fluids														Total								
																Food Wastes														Number								
																Paint														Percentage								
																Sed./Silt														0								
																Ind. Wastes														7%								
																Litter/Debris														7%								
																Other														14%								
																Total														3%								
																Number														7%								
																Percentage														0%								
																														21%								
																														41%								
																														100%								
																														53%								
																														38%								
																														9%								
																														100%								

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

C.7.1 Alameda County Resource Conservation District  
FY12/13 Final Report

C.7.2 Tule Ponds at Tyson Lagoon FY 12/13 Annual Activities  
Report

C.7.3 Friends of Sausal Creek Annual Activities Report  
FY12/13

C.7.4 Friends of San Leandro Annual Activities Report  
FY12/13

C.7.5 Oakland Clean Creeks FY12/13 Summary

C.7.6.a Native Garden Tour FY12/13 Summary

C.7.6.b Native Garden Tour FY 12/13 Statistics Summary

July 21, 2014

## Final Report for Fiscal Year 2013/14- ACRCDD Contract C- 5013

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 2013/14 for work to be accomplished on a number of tasks, including:

- Task 1- Hands-On Conservation, an ongoing program of the ACRCDD 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 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 includes managing a contract with Fugro and overseeing the research needed for this task.
- Task 13- Development of information and outreach materials that inform and educate specific audiences as needed

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 5/16/14, from 8:30-2:30 PM. Local schools in the San Lorenzo Creek watershed attended, along with teachers, principals and many parent volunteers. There was a large increase in the number of classes attending over last year- 38 classes of 3<sup>rd</sup> grade students (up from 14 last year) from 13 schools from Castro Valley, Hayward and San Lorenzo. Over 1200 students, 2 principals, 44 teachers, 250 chaperones, and 56 parent/community and PTA members attended and assisted with the event. Sherry Johnson, a retired credentialed science teacher from the school originated the watershed education program at the school, organized and oversaw the Expo.

The watershed education-focused day featured 21 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 19 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 learn about watersheds and water quality protection by interacting with a watershed diorama.

A highlight of the Expo was the glass-walled fish tank, basically a huge aquarium (with a naturalistic creek setting) on a truck bed stocked with local fish, set up and staffed by a very dynamic East Bay Regional Park District naturalist. Another highlight was the 3 Wildlife Associates presentations; naturalist-led, live-animal shows, featuring live wildlife that is 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 43 creek tours conducted by the 24 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.

For the 3<sup>rd</sup> consecutive year, students participated in a litter pickup activity at each activity station 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.

Extensive contributions of materials were donated for the Expo event from the local sanitary district, stores, small businesses, adult school, and nearby schools. The Palomares Parent Club organized and presented a lunch for the exhibitors, with most of the food donated.

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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 parking on an adjacent property was generously allowed by the landowner.

Evaluation: the 12 teacher responses received were positive and cited the hands-on learning, creek education and the fact that the activities were linked to the 3<sup>rd</sup> grade science standards. A quote from a teacher evaluation:

*"The teachers at Strobridge Elementary want to thank you for making it possible for our students to learn about the watershed first hand and to have access to such wonderful science presenters. The free bussing you provide is the only way we are able to attend. We truly appreciate your help in providing a quality science experience for our students. They especially enjoy the hands on stations and talk about them for days afterward. Several students are still wearing their water cycle bracelets and we have planted the seed balls outside our classrooms. The Palomares Tour Guides are amazing and should be complimented for their knowledge and kind manner. Great job! We can't wait for next year. Please be sure we are on your invitation list".*

ACRCD staff filmed students in action during the day at the Expo, primarily the Palomares Creek Tour Guides, and interviewed teachers, exhibitors and students during the day. Short film clips will be posted on the Palomares program page on the ACRCD website.

(Unincorporated Area)

#### **Stewardship-Palooza, Bay Area Open Space Council Event (Task 1)**

The goal of this 3/20/14 BAOSC event, held at the David Brower Center in Berkeley, was to inform participants about selected, successful local land stewardship programs and practices, and to pique curiosity through demonstration and interaction at activity tables hosted by the invited organizations, which included the ACRCD's Hands-On Conservation program. At least 100 East Bay area resource professionals, watershed group members, participants, educators, participated in this first-time event.

The Hands-On Conservation table featured information about the HOC program, demonstrations of a watershed diorama and restoration planting/maintenance "how to" information. Approximately 25 attendees were actively engaged at our Hands-On Conservation table, and took handouts publicizing the upcoming HOC Earth Day creek cleanup events. Participants also entered a contest to guess the hardiest restoration plant at our Bay Trees adopted spot; this generated even more interest and questions. It was a good learning opportunity as well for HOC staff to connect with and learn from other restoration practitioners at the event.

(Flood Control District)

#### **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 3/27/14. Display materials focused on "Creek Care" and anti-littering messages, and informal discussion held with 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 4/19/14 Earth Day cleanup event. During the event, talked with approximately 30 high schools students, 4-5 other environmental organization tablers, and several school staff members. 40 mini flyers on

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participating in 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.

(Flood Control District)

***Alameda County Fair- Farm Fresh Thursday (Task 1)***

Farm Fresh Thursday is a series of three Thursday events that take place at the Alameda County Fair in Pleasanton, in order to educate and inform the general public about healthy eating and gardening locally. The HOC program tabled at the event held on 6/26/14, with a display featuring plants that sustain beneficial insects and pollinators and informal discussion with table visitors on ways to enhance plantings to support beneficials, and reduce use of pesticides. HOC workday info was given for local farm hedgerow stewardship opportunities in fall 2014. Approximately 20 fair visitors stopped by to look at plants and display, review and take handouts, and discuss HOC activities. 16 Clean Water Program wildflower seed packets were handed out.

(County-wide event)

***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 10/6/13 and the Plant Sale/ Farm Tours event on 5/3/14. The Hands-On Conservation program staffed an activity table at each event, which and 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 AgPark Harvest Festival attracted almost 700 people, with the HOC activity table staffed by HOC having 35-40 visitors, including a number of children. The AgPark Plant Sale event attracted nearly 200 people, with 20-25 visitors to the HOC table. CWP Wildflower seed packets were given out at both events.

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

This project is a subcontract through ACRCDC. The annual native plant garden tour for the public was held on 5/4/14. 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.

**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 underwent a rebranding during 2013, as the Alameda Creek Watershed Council name and webpage were reintroduced as the "Alameda Creek Watershed Forum"; this effort, led by the Council planning workgroup, was designed to

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support the effort to make the group more interactive among participants. A new website was designed and launched at [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 to be sent. The ACWForum Steering Committee was formalized and two meetings were held on 7/26/13 and 8/14/13 in order to plan the annual conference and website. ACWForum activities were utilized as match for an ACRCDD USEPA Healthy Watersheds grant that focuses on application of BMPs in the Alameda Creek Watershed.

Planning and implementation of the 3/13/14 Annual Conference for watershed stakeholders held at the Dublin community center. A guided walking tour of creek restoration at the site was held during the lunch break. The 68 conference attendees included: watershed stakeholders, including Forum members/signatories, agency staff, members of the public and organizations, college students, and teachers.

Topics discussed included water quality and wildlife habitat protection, creek restoration, stewardship, climate change impacts and related topics/issues in the watershed. A round-robin session at which stakeholders could briefly give updates on their activities was offered; this format for information sharing facilitated communication among stakeholders in regard to their watershed programs and stewardship projects.

A table with handouts provided by stakeholders on pertinent topics was visited by participants. The 5 tablers (event sponsors and others) included creek groups in the watershed, consultants with relevant project information and involved agencies, including exhibits on watershed mapping and a new adopt a creek program in the watershed.

Information was provided by stakeholders for input to planning for future Forum activities. Participants who responded to a post-conference survey cited the value round-robin agency/organization updates session and the information presented by the array of speakers as the most valued elements of the day.

## **Citizen Involvement Events**

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

Alameda County RCD administers the Alameda Countywide Clean Water Program's Community Stewardship Grant program. Five grants were awarded in the 2013/14 grant cycle which offered a total of \$20,000 in grant funding to watershed groups and others for water quality and conservation improvement activities. Work began in March on the 2014/15 grant cycle, with over \$24,250 (up from \$20,000 in previous years) in grant funding awarded to seven 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 2012/13 cycle were completed, and final funds were paid out by October 2013.

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

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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. Part time HOC staff members are hired and trained to help with program events and workdays. 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 2013/14 included these events:

***Union City Civic Center Park, Union City***

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 previously installed 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 (Union City) Interact Club, students and teachers from a nearby middle 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 wildflower seed for planting at the site. Previous plantings were maintained with weeding, mulching and irrigation 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 2013/14 include:

-A Coastal Cleanup Day event was held with the hands-On conservation program in coordination with the Alameda Creek Alliance on 9/21/13, with more than 50 volunteers. The trash cleaned up during the workday came from approximately 3000 linear feet of creek banks in the park and beyond the boundary towards the Alameda Creek channel; approximately 3-4 bags (12 cu ft) of trash, and a number of bulky items gathered by the

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Alliance members, was collected, tallied, sorted and recycled as part of the Coastal Cleanup Day procedure.

-Make a Difference Day was held at the park on 10/26/14 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 the litter cleanup effort that yielded another 4 large trash bags. Hands-On Conservation was involved with planting 8 of the trees along the creek trail, helped with the cleanup, and with dealing with the recyclables that were retrieved from the trash bags.

-A Martin Luther King National Day of Service creek cleanup day was held at the park on 1/20/14 with 5 volunteers, most from Logan High School. The turnout was small but the creek channel within the park was nonetheless cleaned up with another 3 bags of trash collected.

**Trash total: A total of approximately 1.8 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 were 1-2 cubic yards 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)

#### ***Sabreca Creek, Fremont***

On 5/10/14 the Hands-On Conservation program worked with two enthusiastic neighborhood volunteers and USDA NRCS staff to weed and apply 2 cubic yards of mulch to an 800' long native riparian shrub and tree planting area along Sabreca Creek in order to help support the NRCS/City of Fremont project. Litter and debris were also collected along the creek and trail during the course of the workday.

**Trash total: .025 cubic yards of litter and recyclables**

(Flood Control District)

#### ***Dig Deep Farm, Ashland***

Dig Deep is a non-profit farm serving Ashland, a limited-resource area in unincorporated Alameda County, with produce grown in the neighborhood. On 3/1/14, 30 students from San Lorenzo High School, their high school teacher, staff from the Hands-On Conservation program and EarthTeam, a local non-profit environmental organization, planted approximately 40 native plants and applied 1 cubic yard of mulch (wood chips) to the urban farm planting beds. Native plants were specifically selected in order to attract and support beneficial insects and pollinators at the farm site. Litter and rubble was collected from the site as students worked; the site was formerly a vacant lot, so the students were encountering broken glass and other debris as they dug holes for planting.

EarthTeam provided the bus to bring the students to the farm to assist Dig Deep, and HOC provided tools and assistance with planting. Staff discussed with students what land stewardship is, and how the tasks being undertaken at the workday are related. They also

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discussed the array of careers in the field and necessary education to work towards them. The high school students have developed an ongoing service relationship with this farm as it is a beneficial neighborhood resource and it is located in the neighborhood where many of the students live.

**Trash total: .01 cubic yard of litter, debris and recyclables**

(Unincorporated area)

***Sunol Agpark Hedgerows, Sunol***

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.

-Sunol community workdays were led by Sustainable Agriculture Education (SAGE) with the assistance of Hands-On conservation on 11/2/13, 12/7/13 and 4/5/14 during which native flowering plants and grasses were planted in the hedgerows. Volunteers also helped with monitoring beneficial insects, creating and installing I plant signage, and organizing educational materials. Volunteers received CWP reusable shopping bags.

HOC staff also worked with AgPark farm interns on 7/23/13 and 8/29/13 on hedgerow signage installation.

-RCD staff assisted with a hedgerow planning, design and installation project with 25 students from Kennedy High School (Fremont), 22 Castlemont High School (Oakland) students, 35 SanLorenzo High School students, 40 Head-Royce School students and a total of 10 teachers/chaperones. 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. RCD staff assisted with the planting workdays as well as led creek study walks with two of the schools, to show the connection between farm and creek and the stewardship practices that are applied. Dates for the school programs included: 9/24/13, 10/1/13, 10/22/13, 10/29/13, 3/7/14 and 12/4/13. 40 plants were installed in each of the three 100' sections of new hedgerow that were designed and planted by students.

-The HOC program tabled at two AgPark events, the Harvest Festival in October 2013 and the Plant Sale/Farm tours event in May 2014. These are described under Public Outreach Events.

(Unincorporated and Flood Control District)

***Bay Trees Park, Native Plant Trail, Castro Valley, Hands-On Conservation***

Work continued at the native plant trail in Bay Trees Park, an adopted spot of the Hands-On Conservation program; workdays had a "Creek Care" theme and 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 install and repair bender board to define pathways at the site, planted and monitored native plants, removed weeds, cleaned up trash along the creek banks in the park, and removed ivy from

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creek-side trees. Approximately 50' of bender board was installed and 300' repaired, 35 plants installed with irrigation, mulch and plant caging. Overall, approximately 4 large bags were filled with trash, debris and recyclables from creek side areas and the park trail. During the workdays we continued to receive direct positive feedback from park users about the project.

-On 12/14/13 a group of 40 students and teachers from the environmental club at San Lorenzo High School worked with HOC at the adopted spot and planted native plants, working in conjunction with the Earth Team organization, which provided the bus for the students and environmental lessons and activities, including creek water testing. A creek cleanup was also held, and ivy removed from native trees.

-30 Girl Scouts and parent helpers from a troop in Fremont developed an environmental day camp named Camp Evergreen, and led two service learning workdays at Bay Trees park with the Hands-On Conservation program. On 7/19/13 HOC staff trained the Scouts on planting methods, bender board installation, seeding wildflowers, making and installing plant caging and signage, weeding, irrigation and creek water quality monitoring and cleanup; on 8/10/13 the day campers arrived and the trained scouts worked together to accomplish all the stewardship tasks. Scouts and campers were given CWP wildflower seed packets, mood pencils and reusable trash bags as a thank you for their dedicated work.

-On 9/28/13, National Public Lands Day, a HOC community workday was held at Bay Trees with 25 Castro Valley High School students and Dublin Boy Scouts. The volunteers worked on bender board, 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.

CWP reusable trash bags were given to volunteers.

The Bay Trees adopted spot site was maintained and monitored an additional 6 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. Coordination with the park manager was maintained and two informal meetings were held with park maintenance staffers to discuss shared weed management efforts.

**Trash total: A total of approximately 1.8 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 bulky items. In addition to the bags there was approximately .5 cubic yards of bulky items gathered between the three cleanup events.**

(Unincorporated Area)

***Castro Valley Creek, Castro Valley- Earth Day (Task 1)***

-An 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 4/26/14. The creek trail was cleaned up, invasive plants removed and native riparian plants along creek side trail were

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maintained. Approximately 1000 linear feet of creek bank and trail was cleaned up by 25-30 student and community volunteers, resulting in the collection of approximately 12 trash bags; bulky items were collected in addition to the bags of trash, and also additional bags of invasive plant material.

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 and brought volunteers. A pre-cleanup presentation was given by 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 expressed appreciation for the help from the Hands-On Conservation program. This is an excellent stewardship project area because of the relatively large turnout of local volunteers for workdays, and because of the real need for cleanup of this highly visible and widely used creek trail and restoration spot.

**Trash total: approximately 2.5 cubic yards of trash, litter and recyclables 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. Plant material was composted.**

***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 4/26/14. 46 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 5/16 Watershed Expo event. Approx. 400-500 linear feet of creek area/ trail was improved.

**Trash total: a 20- gallon trash can was filled with trash and debris (not plant material) during the campus cleanup, or .10 cubic yard. Recyclable materials were recycled at the recycling stations on campus.**

(Unincorporated Area)

***Earth Day- Alameda Creek, Niles (Task 1)***

The Saturday 4/19/14 Earth Day creek cleanup was initiated by the Hands-On Conservation program and publicized and conducted in collaboration with the Alameda Creek Alliance at their newly adopted spot along Alameda Creek in Niles. ¼ mile of creek bank was cleaned up by 20 community volunteers. 6 large trash bags were filled (bag size 12 cu ft), with bulky materials collected in addition. Volunteers also worked with ACA staff Ralph Boniello on invasive plant removal. He talked with the group about Alameda Creek and its fisheries that the Alliance has been working hard to restore with the cooperation of local agencies. HOC staff filmed shots of the volunteers picking up trash in the creek area, and did interviews with volunteers to document the project. The EBRPD Niles Staging Area is an excellent spot for staging a cleanup, as it has the necessary facilities and good access to both the Alameda Creek flood control channel and the natural creek upstream.

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**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 5/17/13 (Expo described above under Public Outreach Event). The trash pickup activity was done by groups of students, exhibitors, teachers and volunteers at each of 17 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 (approximately 3 gallons) was collected at the end of the day from each station and recycled by a team of 6 Jr. Naturalists- primarily Palomares Elementary students. 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; Jr. Naturalists gathered the bags of trash that had been collected for each of the 21 activity stations. As many trash items as possible were recycled at the recycling station on campus.**

*(Unincorporated Area)*

## **School-Age Children Outreach**

### **Hands-On Conservation (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.*

See the above sections of this report for specific information on 2013/14 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 protections 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. Career and education information is also passed on in relation to the level of

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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.

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

-Creek and watershed lessons were conducted between October and June in the 2013/14 school year for Palomares students in K-5<sup>th</sup> grades. 104 watershed-based lessons were taught to classes of 24-32 students 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 hillside erosion control practices and vegetation, native plantings of shrubs and grasses, bioswale maintenance and invasive plant removal continued to be done at the Palomares campus by the students, led by Sherry. A \$300 grant was received from the local garden club to cover materials for the stewardship projects.

-A CA Dep't. of Fish and Wildlife "Trout In the Classroom" program was included this year for first time at the school; 1<sup>st</sup> and 2<sup>nd</sup> grade students raised and released fingerling trout. The program engaged 135 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 70 1<sup>st</sup>-5<sup>th</sup> grades and a Creek Tour Guides

program for 24 3<sup>rd</sup>-5<sup>th</sup> graders was held between April and June 2014. 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. The Tour guides also staffed 3 activity tables 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 3-5 parent volunteers assist them. The Jr. Naturalist and Tour Guides programs were highlighted in a presentation to the Castro Valley School Board members and at the Palomares Elementary Open House event in May.

***Palomares School –creek program outreach to community***

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:

- 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.
- Docents from the Sulphur Creek Nature Center visited Palomares School on 4/3/13 to learn from three Palomares Creek Tour Guides and Sherry about the creek restoration and campus restoration projects in prep for their upcoming healthy creeks workshop, and borrowed Palomares' native plant signage.

(Unincorporated Area)

***Additional information on Contract Tasks 10, 12 and 13***

**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 coordination of 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 FY14 she implemented the plan for the task, which involves the development of an interactive watershed map based on Google Earth, two subcontracts to assist with the project, coordination with partners who preparing the documents for posting on a county website, and hiring and overseeing staff who are developing watershed information for the map and website.

### **Task 13- Development of information and outreach materials**

Work began in spring 2014 to document (visual/audio) contract program and project activities in order to enhance the ability to create materials as needed to inform and educate specific audiences. Material developed will be utilized on websites, in presentations and documents on an as-needed basis.

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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@acrccd.org

**Tule Ponds at Tyson Lagoon**  
Summary July 2013 – June 2014  
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 (example included) 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. Wanatabe, Dr. Rahman) and California State Univeristy East Bay (Dr. Stronk) took a total of 5 classes with about 150 students in each class for various water related themes.

**INTERNSHIPS**

We also had 2 scientific internship this year on plants and chemical analysis of water. The Plants group was headed by Stanley Gu, a junior at Mission San Jose High School. He supervised about 7 interns. They took care of restoration and butterfly plants. Samantha Yi supervised the 5 students who took samples during the year. Their data was provided to the District.

**TEACHER WORKSHOPS**

Staff conducted 8 workshops throughout the Academic calendar, which are listed below. There was an average of 12 teachers per workshops for a total of 96 participants.

Sept 18 – Native Plants - Learn about the native flowers, shrubs and trees in the East Bay by walking the tree trail. Teachers will receive poppy seeds that you can grow at school. Local schools can “adopt” a tree and bring it back at the end of the school year. Get tules and instructions on how to build a Tule Board

Oct 16 - Butterfly Habitat How to bring butterflies into the classroom without buying them - Habitat in the Classroom (receive milkweed plants) and how you can maintain a habitat in a 5-10 gallon aquarium. Learn the different host plants needed.

Nov 20 - Hayward Fault The Hayward Fault creates Tyson Lagoon. Learn about the importance of fault creep and how the fault has shaped the East Bay. Basic Plate Tectonics and walk through area; learn about trails throughout Fremont

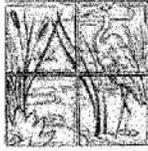
Dec 18 - Water Chemistry – Learn how to do simple tests to test for pH, temperature, nitrates, and other ions, from litmus paper to red cabbage, and scientific probes and how to use data charts to interpret data.

Jan 15 - Native and Non Native Fishes of the East Bay Alameda Creek was once home to steelhead trout and salmon. What happened? Also look at how the Gold Rush brought in non native fish and changed the ecosystem forever. Learn about free fish field trips for your students at Tule.

Feb 19 - Rocks and Organic Matter = Soil Native Soil and Composting – Chemistry of soil, and how to grow natives (or why does wine grapes like volcanic soil) Learn the local rocks; receive samples, geological map, soil testing

Mar 19 – Chemistry of Crystals - Learn how to make simple crystals (borax), crystal gardens, and learn how to make Ice Cream in a Bag and the science behind it (you can eat it also). Crystal making, symmetry, water cycle

Apr 16 - Protozoa, Invertebrates, and Vertebrates - Learn about the native organism in the East Bay. How to effectively use hand lenses, and microscopes, and bug collecting techniques to turn your students to think about science every time they see a “bug.”



### 2013-2014 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 checked="" type="radio"/>	<input type="radio"/>				
b. Outdoor Hike	<input checked="" type="radio"/>	<input type="radio"/>				
c. Materials and Activities	<input checked="" 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  
 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? Online search for local science fieldtrips

Optional:

Teacher Name: Mrs. Sufting Email: jsufting@csdo.org  
 School: Our Lady of the Rosary

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



**2013-2014 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 checked="" type="radio"/>	<input type="radio"/>				
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c. Materials and Activities	<input checked="" 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

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? a teacher friend

Optional:

Teacher Name

Anna DeLillo / Michele Momich

School

Hillside School

michele\_momich@hotmail.com

Questions? Comments?

Please contact: [msn@msnucleus.org](mailto:msn@msnucleus.org)

(510)790-6284

*Our first time here and fabulous!*

*Thank you*

### **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 with a total of 80 students with 320 hours total.

We also had 9 Eagle projects complete with a total of 120 helpers with an approximate total of 1000 hours (report below). We had 2 Silver Award projects with 40 hours per girl with approximately 320 hours (report below).

#### **EAGLE PROJECTS July 1,2013- June 30, 2013**

1. Rohit Bose Troop 125 Making and Refurbishing Tule Entrance Signs (complete July, 2013)
2. Michael Hahn Troop 103 Extending Sidewalk in back of Building (complete July, 2013)
3. Jeffrey Zhang Troop 449 Trail Loop in Canopy (complete September, 2013)
4. Ryan Teo Troop 153 Building a log retaining wall at entrance (complete September, 2013)
5. Saksham Gupta Troop 111 Building a Butterfly Habitat (complete September, 2013)
6. Akhil Ganti Troop 132 Completion of trail along east side of Tyson Lagoon (complete October, 2013)
7. Sam Englese Troop 197 Making Feral Cat/Raccoon Shelters (complete January, 2014)
8. Thomas Colvin Troop 102 Trail between Tyson Lagoon and Inactive Fault trail (complete June, 2014)
9. Samast Varma Troop 379 Building a Retaining Wall to prevent Erosion (complete June, 2014)

#### **SILVER AWARD (GIRL SCOUTS)**

1. Educational Stepping Stones for Tule Ponds (complete April, 2014) Prachi Kulkarni, Rucha Joshi, Purva Lakhara, Richa Marathe, Anusha Nandam, and Manasi Kumar
2. Butterfly Stepping Stones (complete March,2014)

FY 2013-2014 Annual Report

Permittee Name: Alameda County Flood Control and Water Conservation District

Attachment C.7.2

(silver award project)Vibha Sharma, Anupreet Singh, Medha Maddileti, and Urvi Vyas (Troop 31626)

**Making and Refurbishing Tule Entrance  
Signs  
by  
Rohit Bose  
Troop 125, Fremont**



I first worked at Tule Ponds for the service component of my freshman benchmark project. The Math Science Nucleus was extremely helpful and thorough in communicating its needs, so I always looked forward to working for the organization again. It was thus a privilege to carry out my Eagle project at Tule Ponds. My project's goal was to beautify and increase the visibility of Tule Ponds to passerby; the team accomplished this by creating a new sign for the Tule Ponds's Litchfield Avenue entrance and embellishing two of the Walnut Avenue entrance's existing signs, to one of which we also installed a stone retaining wall flowerbed.



*putting the sign together*

The project was far from a one-man job, and I would like to thank everybody who assisted me in its execution. The following youth were amazing workers who completed their tasks more efficiently than I could have ever hoped for: Avi Gulati, Justin Nguyen, Andrew Lam, Angus Lam, Patrick Rivera, Richard Williams, Arnav Kamra, Tarun Devesetti, Ishan Sastry, Bryant Lim, Dylan Lim, Wesley Lee, Vivek Vijaykumar, Arnav Nagle, Rahul Toppur, Ankur Samanta, Udayan Mandal, Hugh Smith, Jerry Lin, Jeffrey Lin, Shrey Vasavada, Jonathan

Nguyen, and Rukmini Bose. Adults Mr. Steve Wilson, Mr. Craig Cooper, Mr. Rich Cummins, Mr. Viet Nguyen, Mrs. Kakali Roy, and Mr. Sankar Bose provided invaluable help not only during the various project phases but also throughout my entire scouting career. Mr. Rick Nygren, Mr. Merl Nygren, and Mr. Skip Phair took the time out of their busy schedules to review and approve my paperwork. Dale Hardware, McIvor's Hardware, Lowe's, and Prismatic Signs provided assistance, advice, and materials without which the project would have never been executed--I recommend these businesses to anyone. Finally, I thank Dr. Blueford and the entire Math Science Nucleus for once again being an incredible organization to work for. I owe the current success of my path to Eagle to all of you.



*placement of information board*

## Extending Sidewalk in back of Building

by  
**Michael Hahn**  
Troop 103, Fremont



To begin my project, I had one adult rototill the project site pad. Then, a day later, we excavated 4" of dirt from the site pad depositing it over the retaining wall onto the slope below so we could reuse it later. After that, we shoveled base rock into wheelbarrows and transported the wheel barrels from the parking lot to the project site pad and spread the base rock that was dumped from the wheelbarrows. Then, I had one adult level & tamp the site pad with a plate tamper. We then transported mulch from the site parking lot to the site slope, distributed & mixed the mulch with the discarded dirt from day 1. On day 2, we dug out terraces and shoveled the mulch into them. After that, we shoveled the decomposed granite onto the site pad and tamped it again with the plate tamper. After, I had one adult use the hardener to harden the granite into a path.



*area before*



*clearing area*

I would like to give a special thanks to scouts: **Arnau Arora, Archit Arora, Kunal Munshani, Kyle Muldoon, Josh Jeremiah, Karter Delang**, friends & family: **Alex Nguyen-Le, Michael Brooks, Jasmin Iqbal, Ishmael Iqbal, Madeline Hahn, Sultan Iqbal, Natalie Iqbal, Michael S. Hahn, Robin Hahn, Brandon Gordon, Michael Young**, leaders: **Doug Brown, Amit Arora, Shanker Munshani, Peter Delang, and Konnor Delang** for helping out at my project. I would also like to thank **Mr. Brown** for being my Eagle advisor and **Mrs. Tipton-King** for helping me as my coach on the project and for taking the time to give me advice and feedback. I would like to thank **Mr. Nygren** for his guidance through the process.

Would also like to thank the following people and companies for helping to fund the project: **Cresco Equipment Rentals** (Kevin Gose), offered unlimited use of heavy duty equipment rentals at no cost; **M&M Cooling Company LP** (\$400); **Mc Ivors Ace Hardware**; and **Tri-City Rock**.



*area before*



*finished area*

**Trail Loop in Canopy**

*by*

**Jeffery Zhang**

*Troop 449, Fremont*



For my eagle project, I built a trail in Tule Ponds with stairs and wood chips. During my first work party, my team worked on cutting trees, taking them out, and removing brush. For this day, we had used a donated chainsaw to catalyze our removing of the trees. We also used power tools, pitchforks, and various other tools to remove the Himalayan blackberry and other types of brush. During my second work party, my team worked on implementing about ten to fifteen wood logs into the hill to serve as stairs. They were pounded down and then watered to be stabilized. Afterword, we used the wheelbarrow to bring the wood chips and fill the trail to prevent regrowth.



*area before*



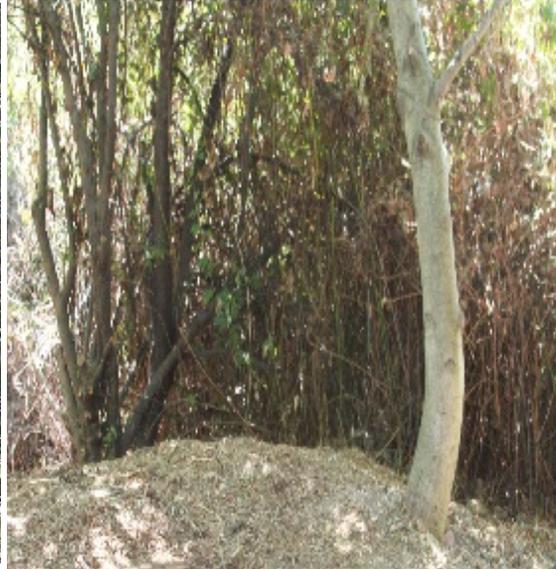
*clearing area*

I was blessed with many helpers from my troop and my parents to help me with my work parties. My parents helped me taking me places for the project and supported me throughout the endeavor. They helped physically to take pictures, removing trees with power tools that youth were not allowed to use, etc. My troop had many enthusiastic scouts that were able to do the work alongside me. For the first work party, **Rick Vera, Hugo Vera, Ricky Vera, Daniel Chen, Trent Quach, Hongjun Ouyang, Jiqing Zhang, Kyle Machalowski, Carmen Machalowski** and I worked on the trailblazing. For the second work party, **Michael Knight, David Zhang, Hongjun Ouyang, and**

**Kyle Machalowski** and I worked on the stair building. I would also like to thank **Cresco Rentals, Costco, and Vacy's Donuts** for their generous donations to my project.



*brush is very thick*



*part of cleared area*

## Building a Log Retaining Wall at Entrance

by  
*Ryen Teo*  
*Troop 153, Fremont*



My Eagle Service Project was to build a log retaining wall for a roadside area near the entrance of Tule Ponds at Tyson Lagoon. This project required logs, and a large amount of pebbles and dirt. The tools used to do the project include shovels, bow rakes, a compactor, and integral drill rods. First, the area was cleared of all debris: rotting wood, wood chips, roots, and leaves. Then, 28 logs, with 10 – 15 inches in diameters, were selected from an available log pile at the back of Tule Ponds. Using the shovels and integral drill rods, a trench was dug out. Once the trench was completed, a compactor was used to level the bottom of the trench. Lastly, the logs were lowered vertically into the trench, buried, and compacted one by one. Pebbles and dirt were spread to fill in the gaps behind and in front of the retaining wall to prevent soil erosion. Finally, water was sprayed on the entire project to settle down all the dirt and dust.



*preparing area*



*spreading gravel*

With the incredible help and support the project was finished on time and within budget. This entire project was one big learning experience for me. One big problem was the lack

of manpower. This was not the fault of the people I asked, but was my own fault because I didn't contact helpers in a timely manner. Another big mishap was the fact that there was a lot of dust, and I forgot to buy dust masks! We had to eat dirt every work session. But even though there were many other small problems, my helpers and I still got through it and I would like to thank them. Big thanks to **Brandon Gordon and Joe Chen** who not only helped me greatly with the project, but have already dedicated so much of their time to enhance and beautify Tule Ponds already. I am very grateful for my family's support and their own will to urge me forward. Last but not least, all my friends from Troop 153: **Cade Nauman, Kasi Manikumar, Arthur Shir, and Jason Tan**. With their help, I was able to complete the project in 3 workdays and I will forever be grateful. Again, thank you all that helped with this project!



*back filling wall*

## Building a Butterfly Habitat

by  
**Saksham Gupta**  
*Troop 111, Fremont*



This eagle project, conducted by Saksham Gupta, was created to help the younger community understand the life cycle of butterflies. In the years prior to this project, monarchs would come to this natural habitat and lay there eggs in the open. These eggs were vulnerable to any predator which lived there. This project provided a habitat for the butterflies to grow and develop in. The younger community of Fremont will now be able to visually see what the process actually is. Instead of reading their boring textbooks, they will actually be able to see the process of metamorphosis straight up.



*area before construction*



*clearing area*

This project couldn't have been done just by one person though. Multiple volunteers put tens of hours of their time into this. They all worked extremely hard with the multiple hardships which were encountered throughout this project. Some of the people who dedicated a lot of time include **Aashank Singh, Shridhik John, and Samuel Jothimutu**. The two people who helped out the most though were **Brandon Gordon**, another worker at Tule ponds, and **Rajnish Gupta**. They put both their time and money into this project and helped make it what it is. Some of the other people who helped include: **Shivam Parikh, Saksham Pruthi, Nishir Shelat, Rohin Gupta, Shivang Shelat, and Srinath Gopalakrishnan**, Lastly, the most important person to thank is Dr. Blueford for

providing this project and giving the time, resources and equipment needed.



*putting up the mesh*



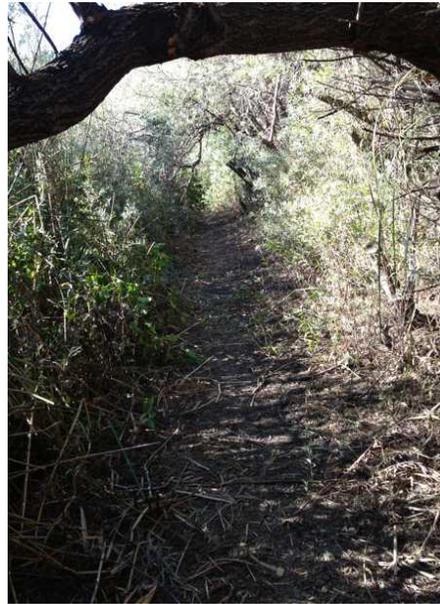
*finished habitat*

**Completion of trail along east side of  
Tyson Lagoon**

*by*

***Akhil Ganti***

*Troop 132, Fremont*



On the first workday, my team cleared the area of the pre-existing trail, which was initially very dense with branches and overhanging trees. Knives and handsaws were used to clear the smaller greenery and branches, while a chainsaw was used to clear the large branches. After the trail was cleared, logs were placed along the trail to delineate the extension and provide a barrier against the slope of the hill.

On the second workday, my group placed the tree-stump steps along the slope of the hill and spread wood chips along the extension all the way to the top of the steps. We used wheelbarrows to transport the wood chips, and the steps were held down in place by the weight of the soil.



*clearing area*

I would like to thank the scouts of Troop 132, scouts from other troops, and my friends

from school for helping me with my project. I could not have completed it so efficiently without their help. I would like to thank Manoj Joshi of Wellness By All Means for sponsoring my project and my parents as well for helping with the chainsaw usage and for serving food.

I would also like to sincerely thank Dr. Blueford for providing me with this opportunity to complete my Eagle project.



*preparing steps*



*terracing area*

**Making Feral  
Cat/Raccoon Shelters**  
*by*  
**Sam Englese**  
*Troop 197, Newark*



The overall goal of this project was to build safe homes for the feral cats that live near Tule Ponds. The houses we made are raised off the ground, weather resistant, and have a hinged roof so that if one of the cats is injured they can be helped. I had help from a video online that gave partial guidance on how to build the houses, but I had to draw up the schematics myself.



*cutting wood*



*assembly*

I would like to thank all of the many people who helped me, especially Noel LaBerge and my uncle Tony Englese who helped with the cutting of the wood and figuring out how to build these things, as well as the Bayside Ward of the Church of Jesus Christ of Latter Day Saints for allowing me to use their building. I'd also of course like to thank Dr. Blueford for giving me this opportunity and helping me make this project a reality.



*putting the pieces together*



*final product*

**Trail between  
Tyson Lagoon and  
Inactive Fault trail**  
*by  
Thomas Colvin  
Troop 102, Fremont*



I lead people in clearing a trail out of dense bushes and brush. First we marked out where the trail will go in and come back out of the brush. Next I lead boys in clearing the first 1/3 of the trail, clearing overhanging trees and having boys cut stuff up while also hauling out bigger logs. The next day we cleared out 2/3 of the trail cutting bigger logs out of the way and making it look nice. Then we cleared the last 1/3 that was blackberry bushes with thorns. After all was cleared and looking nice, the first part of the trail was quite steep so we dug into it and made 4 steps out of wood. Then we cleared the trail of any trash or things that where in the trail and made it all pretty.



*clearing trees*



*clearing blackberry bushes*

The people who helped were:

On May 23rd 2014 I had Bryce W. Jung, Doug Jung, Jim Colvin, Mayra Colvin, Christopher Colvin, Sara Colvin, Holly Anderson, Justin Anderson, Elizabeth Sample, Elliott Babyak, and Zachary Genthner.

On May 25th 2014 I had Jim Colvin, Mayra Colvin, Sara Colvin, Mike Anderson, Justin Anderson, Christina Anderson, Holly Anderson, Bryce Jung, and Doug Jung.

On May 30th 2014 I had Jim Colvin, Mayra Colvin, Sara Colvin, Christopher Colvin, Mike Anderson, Justin Anderson, Joshua Pabst, and Joseph Clinton.



*making stairs*



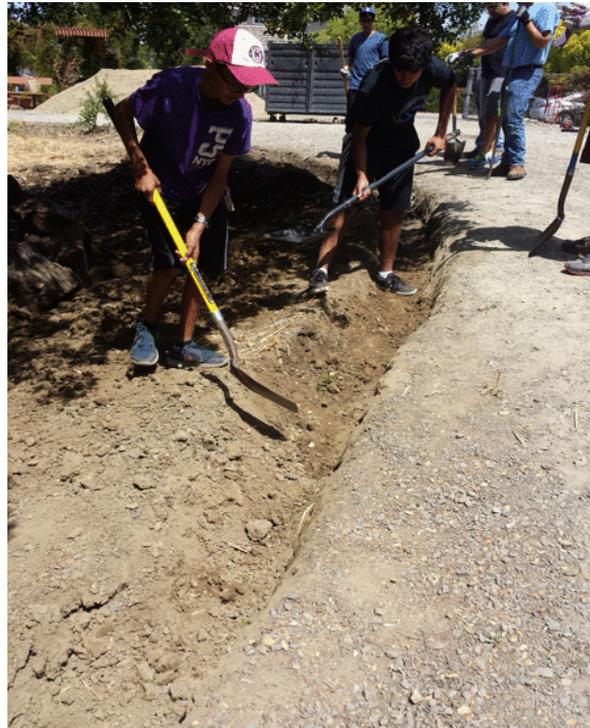
*clearing final brush*

**Building a Retaining wall to prevent Erosion**

*by*

*Samast Varma*

*Troop 379 , Fremont*



For my Eagle Service Project, we built a retaining wall in the back of Tule Ponds. The purpose of building a retaining wall is to prevent soil erosion during the rainy season. For this project we needed logs, gravel, and lots of tools like shovels, rakes, wheelbarrows, and a compactor. The first step of the project was to build a barrier around a tree near to the site we were building at. This way the tree wouldn't die because of the gravel we were using. Then we started digging the trench to place the logs in. Using shovels, we made the trench 30 ft long, 18 in wide, and 10 in deep. Then we brought logs around 16 in tall and with a diameter of between 7 and 12 in, from the back of Tule Ponds. Once the trench was built, we added 3 in of gravel, and compacted it. Then we placed the logs in, using the honeycomb method. Then, one of the adults helping us cut off the tops of all the logs to make them level, with a chainsaw. After that, we filled in all the gaps with gravel and compacted all around the logs to make sure they were firmly in place. We also put gravel on the side near to the tree to make the area look nicer, and we compacted that as well. After that we added gravel to the trail-side of the site and made it slope downhill to prevent any gullies from forming. We compacted that, and that was the end of the project.



*finished product*



Thanks to everyone that showed up to help complete the project, we finished it in a mere 3 workdays. I learned a lot from this project, and the experience was like a roller coaster. Although we made some changes to the plan as we worked on the project, it all worked out in the end, due to the cooperation of all the helpers and all

the feedback from Dr. Blueford. I would like to give a huge thanks to the adults that helped: Both the Mr. Jensen's for devoting so much time to get this project done, Mr. Bhandari for using his strength to help us finish, my mom, Mrs. Varma, for getting all the helpers everything they needed, and my dad, Mr. Varma for supporting me throughout the whole project. I would also like to thank all the helpers: Lovish, Saurav, Ananth, Aditya, Ameek, Shray, Raahul, and Abhay. Most importantly, I owe a great thank you to the director of Tule Ponds, Dr. Blueford, for making this project a reality and giving me feedback throughout the whole project. I couldn't have finished the project without the help of all these people and I owe my humble gratitude to all.

**Stepping Stones for Butterfly Meadow**  
**Vibha Sharma, Anupreet Singh, Medha**  
**Maddileti, Urvi Vyas**  
**Troop 31626, Fremont**  
**silver award project**  
*Hemalatha Erva*  
*(31626 Troop Leader)*  
*Veda Talakad (Silver award Lead)*



Building stepping stones for Tule Ponds is a way for people of all ages to become more aware of the environment. It allows people, especially the younger generations, to learn more about the natural environment around them. Being a part of conserving our environment is a very important component of building a brighter future. What better way to teach children than in a way that is both interactive and fun? So, we decided to help our communities by building informational stepping stones for the butterfly gardens here at Tule ponds.



*Manasi - Mixing cement mix*

These informative stones describe the life cycle of a butterfly, and include several fun facts about butterflies as they lead the visitors to the butterfly garden, here at Tule Ponds. In the process of building these stepping stones, we learned and applied time management, budgeting, and planning skills. We learned to manage our goals in deadlines, and actually build the stones. Through this project, our troop has realized the benefits of community bonding, determination, teamwork, and focus. To achieve the desired thickness of the stones, and to etch information onto them required the concrete to be mixed at right consistency. Getting our designs on the stones taught us the value of meticulous planning. Not only do these stones make up the pathway to the butterfly garden, but building them gave us an experience we will keep with ourselves for our lives.

## Educational Stepping Stones for Tule Ponds

**Prachi Kulkarni, Rucha Joshi, Purva Lakhara, Richa Marathe, Anusha Nandam, and Manasi Kumar**

*silver award project*

*Troop 30128, Fremont*

Suvarna Kulkarni (30128 Troop Leader)

/Rohini Joshi (Silver award Lead)



This troop is located in Fremont that includes 6<sup>th</sup> and 7<sup>th</sup> graders. The troop members are **Anusha Nandam, Purva Lakhara, Richa Marathe, Prachi Kulkarni, Manasi Kumar and Rucha Joshi** (left to right above).



*Manasi - Mixing cement mix*



*Prachi - Arranging mosaic design for molds*

These girls are full of energy, fun, loving, and willing to help nature! They are always ready to learn and help the community! Troop 30128's girls selected the project of making stepping stones for Tule Ponds, a wildlife sanctuary and water restoration site. When kids and visitors walk in the area they should understand its significance without a

tour guide. That is why the girls decided to make stepping stones that provide information while leading you to the different parts of Tule Pond. The girls have designed and built butterfly hopscotch, different animals, and the Hayward Fault zone describing stepping stones! Their troop has enjoyed doing all the research, learning, and making the stepping stones. In the process they learned team building, accommodating other group members, leadership, and price comparisons.



*Purva (right) - Shoveling cement mix in stepping stone mold; Richa (left) - Leveling the cement mix*



*Anusha (back) Rucha (front) - Carrying stepping stones to car for Tule Pond installation*

## Public Outreach Events

We had our annual Spring Open Houses. A report is included below. We had over 400 people attend the events. Most people were from the East Bay and were family events.

### Open House and Activities for the Family April 14, 2014 – Butterflies at Tule Ponds



Over 350 visitors were able to see monarch eggs and caterpillars. The weather was windy so butterflies were not apparent.

We had activities for children and we had Girl Scouts escort people through the new butterfly habit. Visitors learned about the habitat and how to rear their own caterpillars at

home.

Families could plant milkweed to grow it at home. An enjoyable day even without butterflies flying. Children had to find answers to different questions about butterflies and redeemed for prizes.



**Saturday Stroll** (1:30-4:00 pm) These days provide an opportunity for people to learn about Tule Ponds at Tyson lagoon. People who just want to walk the areas is also allowed. A total of 5 days, a lecture followed by a tour attracted a variety of people to attend, especially girl and boy scout groups. Average was about 35-40 people each event day (approximately 200 people)

March 1, 15, May 10,31, and June 7<sup>th</sup>.

## **Annual Program Summary Report for Watershed Awareness Program July 1, 2013 – June 30, 2014**

### **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 Dimond Park. In January we held the third annual State of the Creek meeting, bringing together residents from throughout the watershed and featuring a presentation on erosion control techniques. Topics for the other indoor bimonthly meetings covered pruning, mountain lions and East Bay wildlife, East Bay riparian birds and native bees, and dragonflies. The trend of increased attendance at our meetings continued—we averaged 46 attendees per indoor meeting this past fiscal year.

Enthusiastic volunteers continued to represent FOSC by **tabling at community events**. FOSC tabled at the annual Dimond Picnic, Dimond Oaktobfest, Dimond Winterfest, and Dimond Night Out; the Friends of Joaquin Miller Park and Piedmont Pines Neighborhood Association annual meetings; an open house at Joaquin Miller Park Ranger Station; the State of the Estuary poster session; Friends of San Leandro Creek's Environmental Forum; EarthEXPO in downtown Oakland; the Peralta EcoFair at Laney College; the Oakland Museum of California near our exhibit; and the Lunchbox Project at Fruitvale Station. FOSC also had informational tables at our annual Dimond Park events that draw the largest numbers of volunteers: Creek to Bay Day (116 volunteers), Winter Solstice Planting Day (32 volunteers), and Earth Day (59 volunteers). Our 8<sup>th</sup> annual Native Plant Sale and Open House included a FOSC informational table as well as speakers on the natural and cultural history of the East Bay and on native landscaping; tablers on chickens and urban farming, pollinators, gardening, and arachnids; face painting; and live music.

We also talked about FOSC to various **special groups**, including the annual East Bay Hills Hike through Dimond Canyon, and the Insect Sciences Museum of California at a meeting at Lake Merritt Rotary Nature Center. We led tours in the watershed for Oakland Heritage Association, Oakland Museum of California Docents-in-Training, Oakland Wild, Holy Names University biology students, and retirees from the Environmental Protection Agency.

We had two month-long displays at the **Dimond Library**: October 2013 on native plants and May 2014 on native bees.

We completed signage for the native plants in **planters** on LaSalle Avenue in Montclair Village to create an educational native plant walk. This partnership with Montclair Village Association also included audio versions of the native plant walk on their website ([montclairvillage.com/sausalcreekeducationalplanters/](http://montclairvillage.com/sausalcreekeducationalplanters/)).

Other forms of public outreach included FOSC's **bi-monthly newsletter**, **listserv**, and **website**, [www.sausalcreek.org](http://www.sausalcreek.org). Our completely revamped website was launched in April 2014. Circulation for our bimonthly email newsletter grew from 1,968 to 2,280 recipients over the course of the year. See attached for the newsletter from the final quarter of the fiscal year.

Listserv membership increased from 439 to 508 members. We submit information on member meetings and volunteer events to print and digital publications and neighborhood listservs.

FOSC distributed several thousand copies of the *Trails and Tributaries of the Sausal Creek Watershed* **map brochure** which includes information on keeping creeks healthy. Brochures were distributed via the tabling outreach events described above and were made available at watershed trail map boxes, local libraries, and recreation centers.

Working closely with the volunteer site leaders, FOSC produced **restoration plans** for Barry Place, Bridgeview Trail, and Palo Seco Creek at Joaquin Miller Court.

FOSC continued to implement the *Fern Ravine Restoration Plan* through workdays with Civicorps Learning Academy and high school student groups.

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, Circle K International, Civicorps, College of Alameda, EarthTeam, East Bay Academy for Young Scientists, Fremont High School, Girl Scouts of the USA, KIDS for the BAY, Hands on Bay Area, Holy Names University, Laney College, Lawrence Hall of Science TEAMS, 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 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, Montclair Village Association, Oakmore Homes Association, Peralta Creek neighbors, 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, 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.

Community and special group volunteer events included:

- Three (3) workdays at Barry Place
- Twelve (12) workdays at Beaconsfield Canyon
- Twenty-six (26) workdays at Bridgeview Trailhead
- One (1) workday at Chabot Space and Science Center West Ridge Trail around pallid manzanitas
- Fifteen (15) workdays in Dimond Park and Dimond Canyon

- Four (4) workdays at Fern Ravine in Joaquin Miller Park
- Two (2) workdays at Fruitvale Bridge Park
- Two (2) workdays in Jinglestown
- One (1) workday at Joaquin Miller Court
- Fifty-three (53) workdays at Joaquin Miller Native Plant Nursery
- One (1) workday in Joaquin Miller Park (behind native plant nursery)
- Fourteen (14) workdays in Marj Saunders Park
- One (1) workday at the Monterey Blvd. redwoods site
- Seven (7) workdays at Shepherd Canyon
- Twenty (20) workdays at William D. Wood Park
- One (1) workday at Woodbine Corner
- One (1) Sudden Oak Death (SOD) treatment training and one bioblitz
- Fifteen (15) seed hikes and one (1) botany walk
- Four (4) in the creek clean-up walks
- Two (2) watershed walks for college students, three (3) watershed tours for special groups, one (1) nursery tour for a special group, and one (1) community walking tour
- Two (2) crew leader training events (topics included managing volunteers; installing erosion control materials; and planting native plants)
- Twelve (12) aquatic insect monitoring events by the bioassessment team plus nine (9) special aquatic insect monitoring events for student groups
- Three (3) quarterly bird monitoring events
- Nine (9) water quality monitoring days

**Board of Directors:** We were pleased to recruit one new member to our board of directors for 2014, Dee Rosario, who recently retired from the position of Park Supervisor for East Bay Regional Park District's Redwood Regional Park.

## 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. We hosted 49 field trips groups this past school year. This sharp increase was due to a year-long program with all Grade 2 classes at Joaquin Miller Elementary; the students learned about the full restoration cycle through monthly field trips to either Beaconsfield Canyon or our native plant nursery (accounting for 27 of the field trip groups). In addition to field trips, student service organizations volunteered for Saturday workdays year-round.

During summer of 2013, we partnered again with City of Oakland Office of 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 2014.

Our summer high school intern program grew to ten students in 2013. Each student volunteered on at least 10 days, contributing at least seven hours a day on a variety of restoration projects in Dimond Canyon and Joaquin Miller Parks and at our native plant nursery. A past FOOSC student volunteer affiliated with Girl Scouts of the USA and Student Conservation Association helped lead the summer 2013 education programs as a paid intern. The summer 2014 summer intern program has ten students participating.

## FUNDING

Additional funding in 2013-14 came from the Alameda County Fish and Game Commission, 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), The Clorox Company Foundation, East Bay Municipal Utility District, Hillside Gardeners of Montclair, JiJi Foundation, Mary A. Crocker Trust, San Francisco Estuary Partnership Small Grants Program, The Strong Foundation for Environmental Values, Thomas J. Long Foundation, and individual contributions. FOOSC continues to work to identify other potential funding sources for our programs.

## SUMMARY

Total volunteers visits: 4,288

Total service hours: 9,854

Total students participating in field trips or summer service learning projects: 962

Native plants propagated and planted: 3,867



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

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

**Annual Report Summary**  
**7-1-2013 – 6-30-2014**

**Public Outreach Events**

**Environmental Forum** – Representatives from local organizations or politicians from local to federal levels of government are invited to present information to attendees regarding legislation that impacts the environment. Approximately 75 members of the public attend this annual event. The most recent Environmental Forum was held on November 9, 2013 at San Leandro Library from 10:30- 2:30. 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, Bay Trail, Ohlone Indians, Interact Club of San Leandro High School, YES Club of San Leandro High School, and Alameda Creek Alliance.

11:30-12:30 Guest Speakers: Igor Skaredof, Board President of the Contra Costa Resource Conservation District spoke about his work with the Alhambra Watershed. Local Salmonid expert Dr. Rob Leidy spoke about his extensive knowledge of trout and native fishes of East Bay Creeks. His presentation was entitled: "So you want to restore steelhead to San Leandro Creek? No Problem...really!" Ca Urban Streams Partnership and past Urban Streams Council Member, Mike Vukman spoke about how we can use the information from above speakers here on the San Leandro Creek.

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, and Robert Rayburn Director BART. (76 people present)

**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. Presentations by family oriented entertainers convey messages about protecting the watershed. On April 12, 2014 we held our last Watershed/Earth Day Festival. Creek Clean up at Root Park in San Leandro, (30 in attendance). For festival we had booths with the following groups: Art in the Heart, where kids (and grown-ups) made reusable shopping bags out of recycled t-shirts; San Leandro Historical Society; StopWaste had displays of garbage brought up from our creek. They showed the correct use of recycling, garbage & green bins and did food waste composting demonstrations. They made a "garbage mandala" (a large art project) using garbage from creek with the public; Merritt College; Sulphur Creek & Hayward Shoreline Interpretive Center brought displays and local animals; Alameda County Mosquito Abatement; EBMUD had a water conservation table and FSLC had a booth giving away free California native plants. Cindy Simons, president of San Leandro Historical Society, told a story about Historical San Leandro Creek to the audience. The Banana Slug String Band gave a band performance featuring songs and stories about ecology and the Watershed. We had two food trucks from the Food Truck Mafia that parked at the event and offered their food to our crowd. Total number of participants was around 150 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 to attend. We generally have about 20 members of the public join us. We serve complimentary coffee and snacks. This fiscal year, Michael Gregory spoke about the Friend's history and where we'd like to go; Joe Sullivan EBRPD Fisheries Resource Analyst gave a power point presentation about Native Fishes of East Bay streams. Finally, Angelina Vergara, StopWaste's Student Action Project Coordinator gave a hands-on presentation about household composting.

**Grants** - This Fiscal year FSLC applied for several grants. In November of 2013, FSLC received \$500.00 From Fremont Bank to assist with Environmental Forum Event in November of that year.

Also in October, 2013, FSLC received a Consultation Grant (no monetary gift) from the National Park District's Rivers, Trails and Conservation Assistance Program.

In spring 2014 FSLC applied for a \$5,000.00 grant from StopWaste. This was not granted.

In January, 2014, FSLC received a \$5,000.00 donation from Fremont Bank as part of "\$500,000.00 worth of donations throughout the month of January 2014, to 105 local non-profit partners that make our communities better places to live, work, learn and grow...one-time Fremont Bank 50<sup>th</sup> Anniversary donation is to thank you for your continued trust and loyalty".

In March 2014, 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, 2104.

In February 2014, a joint grant sponsored by the City of San Leandro, partnering with the City of Oakland and Rails-To-Trails was applied for. Contributing Partners included FSLC, Institute for Sustainable Policy Studies, San Leandro Creek Alliance, and San Leandro Technical Advisory Group. This grant, through Cal Trans, called Partnership Planning for Sustainable Transportation, "Fund transportation planning studies of multi-regional and statewide significance, in partnership with local agencies that align with Sustainable Communities Strategic implementation." In June, 2014, we received a grant of \$201,000.00 to plan a Green Way from the bay in Oakland to Chabot Park in San Leandro.

**San Leandro Creek Watershed Technical Advisory Group (SL Tag)**-In July of 2013 FSLC began meeting with EBMUD and other local Stakeholders of the San Leandro Creek. Our goal is to receive a more historical flow regime from the Lake Chabot Dam to the SL Creek below. Stakeholder groups include EBMUD, EBRPD, the Cities of San Leandro and Oakland and FSLC. This group meets quarterly.

**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 Trail Planner, ABAG), David Ralston (Oakland City Planner), Pete Alexander (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).

## Citizen Involvement Events

General Public Outreach continues on an ongoing basis. Membership drives are conducted annually. 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. Advertising on FSLC's web site ([www.FSLC.org](http://www.FSLC.org)) averages about 3,000 visits per month.

As part of our public outreach we attend community events to gain exposure for FSLC and to further promote watershed education. These events include appearances at farmer's markets, our newsletter *The Splash*, our website, and Creek Clean Ups & restorations. Plans to purchase 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.

**Presentation for Public** – Watershed Awareness Coordinator had an informational booth at **San Leandro's Farmers Market** which is held in Downtown San Leandro. Several hundred people were present. 115 informational pamphlets were distributed.

**Bi-annual Newsletter** - Featured in the publication 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 continuing talks with SLUSD to purchase a location on the creek, on Cary Dr. in San Leandro. This lot is adjacent to Bancroft Middle School on Bancroft Ave. It was the site of our Earth Day/Watershed Festival in 2013. 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 conducted at various sites along San Leandro Creek. The number of participants at each event ranges from 5-250. Creek cleanups over this past year were held in September, January, April, and June with the help of approximately 200 volunteers who donated about 600 hours of service. We have cleanups scheduled for August 30 and October 25, 2014.

## **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. Three camp groups; “Tiny Trees” – grades k-1 with a total of 86 students; “Little Trees – grades 2-4, with a total of 126 students; Big Trees – grades 5-7, with a total of 137 students. Each age group was given different age appropriate lessons from 30- 45 minutes each in groups of about 15 children, until all children were served.

**Sulphur Creek Nature Center (HARD)** –After a successful year of day camp activities at Chabot Day Camp, Sulphur Creek asked us to do creek education for their Day Camp as well. Two camp days were provided with a total of 43 students, aged 7-11 attended.

**Field Trip/Schools Outreach Program** – During the 2013/2014 school year, FSLC hosted approximately 127 K-high school aged students from local schools. These free programs were held at Chabot Park and Root Park in the San Leandro Creek watershed.



## 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 18, 2014

### **Clean Creeks Agreement Annual Program Summary – FY 2013/2014**

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

##### Program Area 1: Adopt a Creek

The Adopt a Creek Program has grown from 25 to 27 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 now provide expanded tool lending services to our volunteers.

##### Program Area 2: Community Creek Efforts

Throughout the year, our program sponsored a range of creek cleanup and beautification events. There were 538 cleanup and restoration events in creeks and shorelines last year. There were an additional 3,600 volunteer cleanup events throughout the city – events that eliminate trash prior to its entry into the storm drains and 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 9, 2014 that attracted about 2,000 attendees, we highlighted water conservation and protection via water saving in homes,

FY 2013-2014 Annual Report

Permittee Name: Alameda County Flood Control and Water Conservation District

Attachment C.7.5

businesses, and landscapes; Bay-friendly landscaping; stormwater protection; volunteer creek and shoreline cleanups and ecological restoration.

### Program Area 3: Citywide Creek Cleanup 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 more than 1,000 volunteers to clean up 33 creek and shoreline locations throughout Oakland. Volunteers picked up over 15,000 pounds of trash from Oakland's creeks, Lake Merritt and the estuary and removed nearly 150 cubic yards of non-native greenwaste to allow native plants to flourish.

On Earth Day, over 2,400 volunteers participated in this citywide beautification effort, putting in a combined 7,600 volunteer hours. Thirty of the volunteer sites were at creeks and shorelines. Over 830 volunteers assisted in cleanup and beautification activities at creek sites and Lake Merritt.

### 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 2013-2014. 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 have also launched a new website, [www.adoptadrainoakland.com](http://www.adoptadrainoakland.com) which facilitates storm drain maintenance adoption.

### 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). In addition, we hired a contractor to distribute 800 'Creek to Bay Day' posters at private establishments and other locations around the City of Oakland.

To increase participation at our event, we also mailed 6,000 'Creek to Bay' 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 400 posters to site coordinators to increase participation at their particular sites.

#### **Enclosures:**

1. List of adopted creek sites
2. Press releases
  - a. Creek to Bay Day
  - b. Earth Day
  - c. Adopt a Drain
3. Posters
  - a. Creek to Bay Day
  - b. Earth Day
4. Postcards
  - a. Creek to Bay Day
  - b. Earth Day
5. Flyers – Checklist of water protection and conservation actions

#### **For further information, please contact:**

Mike Perlmutter  
Environmental Stewardship Team Supervisor  
Environmental Services Division  
City of Oakland | Public Works Department

FY 2013-2014 Annual Report

Permittee Name: Alameda County Flood Control and Water Conservation District  
Attachment C.7.5

250 Frank H. Ogawa Plaza, Suite 5301 | Oakland, CA 94612

(510) 238-7294

(510) 238-7286 Fax

[mperlmutter@oaklandnet.com](mailto:mperlmutter@oaklandnet.com)

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

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

<mailto:Kathy@KathyKramerConsulting.net>

<http://www.BringingBackTheNatives.net>

### **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.

#### **Why a Native Plant Garden Tour?**

The spring 2014 Bringing Back the Natives Garden Tour was held in order to showcase pesticide-free, water-conserving gardens that reduce solid waste, provide habitat for wildlife, 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. Natives 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's Division of Environmental Contaminants publication, "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.

**2014 Bringing Back the Natives Garden Tour events: Music in the Gardens; Spring Tour and Native Plant Sale Extravaganza; Fall Native Plant Sale Extravaganza; and Select Tours**

This year, to celebrate the Tenth Anniversary of the Bringing Back the Natives Garden Tour, a Music in the Gardens component was added. Sixteen musicians and singers performed at private gardens and native plant nurseries. Lutes, flutes, guitars, ukuleles, Renaissance and Baroque music, jazz, blues, swing, and a thirteen person acappella group were among the offerings.

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 series of Select Tours and workshops that are offered in both the fall and spring. These are described below.

**Tenth Annual Bringing Back the Natives Garden Tour and Native Plant Sale Extravaganza**

The Tenth Annual Bringing Back the Natives Garden Tour, which took place on Sunday, May 4, 2014, showcased forty one gardens and nurseries located in twenty-two cities and unincorporated areas in Alameda and Contra Costa counties (Alameda, Berkeley, Brentwood, Castro Valley, Clayton, Concord, El Cerrito, Fremont, Hayward, Kensington, Lafayette, Livermore, Martinez, Moraga, Oakland, Oakley, Orinda, Pinole, Pleasant Hill, Richmond, San Lorenzo, 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 five acre 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. Forty percent of the gardens were designed and installed by owners, and the rest were designed and installed by professionals. Almost all of the gardens were landscaped with between 75% and 100% native plants.

### **Spring Native Plant Sale Extravaganza**

In addition to the May 4, 2014 tour day, on which forty one gardens and nurseries were open for viewing, the spring Native Plant Sale Extravaganza took place throughout the week-end of May 3 and 4, 2014.

During the spring Native Plant Sale Extravaganza a number of native plant nurseries – some not normally open to the public, and others normally open only for limited hours – were open from 10:00–5:00. Bringing Back the Natives Garden Tour registrants took advantage of this opportunity to shop for unique or hard-to-find native plants that are not normally available in most nurseries. This year nine nurseries took part in the Extravaganza, and more than \$11,000 worth of natives were sold over the course of the week-end.

### **Number of registrants, volunteers, and garden visits**

The tour received overwhelming interest from the public; this year there were over 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, Fremont, Hayward, Livermore, Martinez, Moraga, and Oakland.

This year 13,066 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.

### **Garden Talks**

More than 60 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; design and install a Laundry to Landscape grey water system; control weeds

without using herbicides; select, plant, and care for natives in general, and select natives for specific areas, such as hillsides; design a simple, low-maintenance native plant garden; attract bees; garden for birds; choose appropriate natives; design and install a native plant garden; create a low-maintenance native plant garden; maintain a native plant garden; garden on hillsides; purchase native plants; maintain a native plant garden; design and install a native garden yourself; garden for wildlife in general, and native bees and butterflies in particular; and how to control erosion, 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 2014. 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.

### **Misc. details**

Twenty of the gardens and native plant nurseries were at least partially wheelchair accessible. Eleven of the gardens were certified by the National Wildlife Federation as Backyard Wildlife Habitat Gardens.

### **Fall Native Plant Sale Extravaganza**

In the fall of 2013 a Native Plant Sale Extravaganza was held. Over \$10,000 worth of native plants were sold at six locations. These included Ploughshares Nursery in Alameda, the U.C. Botanic Garden and Oaktown Native Plant Nursery in Berkeley, East Bay Wilds in Oakland, Annie's Annuals in Richmond, and Markham Arboretum in Concord.

### **Select Tours**

In the fall of 2013 and the spring of 2014 a series of workshops were coordinated. These included hands-on sheet-mulching workshops; a popular "How to design native gardens for color throughout the year" tour; 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.

### **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

**\$7,500**

Jiji Foundation

**\$4,000**

Contra Costa Water District

**\$2,500**

County Clean Water Program (Alameda)  
Contra Costa Watershed Program

**\$2,000**

Bay Area Water Supply and Conservation Agency  
City of Richmond  
East Bay Municipal Utility District

**\$1,600**

California Native Plant Society (East Bay Chapter)

**\$1,500**

City of El Cerrito

**\$1,000**

City of Antioch  
City of Pittsburg  
City of Walnut Creek  
Zone 7 Water Agency

**\$500**

Alameda County Water Agency  
City of Clayton  
San Francisco Estuary Partnership

**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 explain first-hand the techniques they use in 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 2013 for the 2014 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 2014 evaluations:**

- Many people asked questions about my watering regime and strategies for pest control, so this was clearly a priority for them.
- People were so excited about native plants and gardening naturally using as little water as possible. It was wonderful!
- The tour is the best way for visitors to see firsthand a variety of different native gardening styles and learn that native plant gardening is not just one thing. All the visitors I spoke with were inspired and motivated by what they learned on the tour.
- I answered many inquiries about these pesticide use reduction and water conservation. People come to learn as much as they can. It's a real teaching opportunity.

**Volunteer Comments from the 2013 evaluations:**

- What a great organization. I believe this event inspires homeowners to try their hand at incorporating native plants in their yards, especially during this drought year. It also exposes the general public to all the beautiful native plants and how they can be just as beautiful as non-native, thirsty plants.
- I talked with many people who were looking for information about reducing or getting rid of their lawns, and selecting drought tolerant plants for their landscape.
- 
- I think there is more interest in native plants in the landscape more than ever with the onslaught of severe drought. Most people were surprised to see how colorful the gardens are and how the plants attract pollinators and birds.
- We'll be putting in a native, less-water-consuming lawn as a result of visiting Garden #15.v It was really useful to speak to the Delta Bluegrass spokesperson who was at that garden and to see a native bunchgrass lawn. My husband needed to see a native lawn to feel comfortable with the change.
- I was at a home where Roxy spoke about irrigation and using less water; the talk was well-attended and helpful!
- As a garden assistant, I was able to point out the water saving strategies that were used in the garden where I was volunteering.
- Water use was a big topic for this year's participants. Many people interested in how much water each plant needed.
- There were lots of questions about how much water was being used.
-

- Some people were seeing a California Poppy up close for the first time, so the tour definitely helps people with no knowledge of native plants be more informed. Another woman had not heard of sheet mulching with cardboard to remove a lawn.
- Many folks left the garden at which I worked talking about how much they had enjoyed the experience. I was very impressed by the level of detail that went into the event--from the exceptional tour booklet to the pen left at my table so that I could tally anyone who didn't have a ticket! Brava!!
- I am so grateful this tour exists, as I love the native California native flora and want to encourage its use. We are home to a rare and magnificent flora; we ought to celebrate it, cultivate it, propagate it, design with it. Now that we are in the midst of this drought, this is more important than ever.
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### 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 2013 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 (83%) wanted to learn how to select native plants; 58% wanted to learn how to conserve water; 56% wanted to learn how to garden for wildlife; 33% percent wanted to learn how to reduce pesticide use; 33% wanted to learn how to remove their lawns; and 23% wished to learn about composting.

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

### Evaluations

There was a return of 484 registrant evaluations, with 99% of those filling out the evaluations rated the tour “Excellent” or “Good.”

This year 64% of the registrants were repeat visitors, and 36% 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, 95% of those who filled out the evaluation responded that it had, and added 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 got several good practical ideas to save water and avoid chemicals in the garden.
- 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.

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**

77% 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 2014 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); 13% were encouraging wildlife with plant choices; 14% had grouped plants by water needs and incorporated drought-resistant plants into their gardens; 10% had increased the density of plantings to out-compete weeds (reducing herbicide use and conserving water); 10% were tolerating some insect damage; 8% had begun mulching; 10% had amended their soil; 8% had reduced the size of their lawn; 6% had reduced or eliminated pesticide use; 10% had installed efficient irrigation; 3% were grasscycling; 3% were composting; and 4% 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: 38% planned to increase the density of plantings to out-compete weeds; 29% to group plants of similar water needs; 25% to install efficient irrigation; 20% to encourage wildlife; 21% to reduce the size of their lawn; 18% to incorporate native plants into their gardens; 18% to mulch; 11% to minimize hardscapes; 12% to compost; 16% to amend their soil with compost; 13% to tolerate some insect damage to plants; 8% to grasscycle; and 6% 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.	9%	6%
2. Increase the density of plantings to out-compete weeds.	16%	32%
3. Encourage birds, butterflies, etc. with plant choices, food, shelter, and water.	18%	17%

4. Tolerate some insect damage to plants.	14%	8%
5. Incorporate native plants into our garden.	21%	15%
6. Group plants of similar water needs.	15%	28%
7. Incorporate drought-resistant plants into our garden.	15%	16%
8. Install efficient irrigation (such as drip, timers, soaker hoses).	8%	21%
9. Grasscycle (leave grass clippings on the lawn).	5%	6%
10. Reduce the size of our lawn.	8%	21%
11. Mulch with leaves, grass, wood chips, etc.	9%	13%
12. Amend soil with compost.	6%	11%
13. Minimize hardscapes (patios, decks).	6%	12%
14. Compost yard waste and kitchen scraps at home.	6%	8%

**First-time registrants**

The tour was highly motivating to the first time registrants who completed the evaluation. 58% planned to incorporate native plants into their gardens; 58% of first-time registrants responded that they planned to increase the density of plants, thus helping to out-compete weeds and reduce water use; 50% of first time registrants planned to group plants by water needs; 43%planned to encourage wildlife; 42% planned to incorporate drought-resistant plants into their gardens; 32% planned to reduce the size of their lawns; 35% to install efficient irrigation; 31% planned to mulch; and 32% to amend their soils; 16% to compost kitchen scraps and yard waste; 19% planned to tolerate some insect damage; 15% planned to reduce or eliminate pesticide use; and 14% planned to reduce the amount of hardscape in their gardens.

**How do you manage your garden? (These are responses from first-time registrants.)**

ITEM	Plan to
1. Reduce/eliminate insecticide/herbicide use.	16
2. Increase the density of plantings to out-compete weeds.	52
3. Encourage birds, butterflies, etc. with plant choices, food, shelter, and water.	36
4. Tolerate some insect damage to plants.	20
5. Incorporate native plants into our garden.	46
6. Group plants of similar water needs.	50
7. Incorporate drought-resistant plants into our garden.	38
8. Install efficient irrigation (such as drip, timers, soaker hoses).	30
9. Grasscycle (leave grass clippings on the lawn).	9
10. Reduce the size of our lawn.	37
11. Mulch with leaves, grass, wood chips, etc.	27
12. Amend soil with compost.	28
13. Minimize hardscapes (patios, decks).	12
14. Compost yard waste and kitchen scraps at home.	12

Number of visits made to each garden

	# AM visitors	# PM visitors	Total Visitors
<b>BAYSIDE CITIES</b>			
<b>Berkeley</b>			
California Native Bee Garden	134	351	485
Penny DeWind and Don Kyle			500
Elisa Mikiten	246	283	529
Glen Schneider	242	281	523
<b>Castro Valley</b>			
Sharon Horgan	104	88	192

**El Cerrito**

Nalani and Anna Heath-Delaney	259	164	423
Nancy Warfield and David Gray	138	96	253

**Fremont**

Kate Lipman			115
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**Kensington**

Seibi Lee and Joel Schoolnik			308
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**Oakland**

Carol Baird and Alan Harper	315	189	504
Sue Duckles and Cherie Donahue	231	286	517
Carrie Knapp	192	284	476
Holly and Joe Maffei			644
Tai Moses and Michael Kerner	199	275	474
Judy Schwartz and Rod Miller	293	316	609

**Pinole**

Kim and Jeff Jerge	138	85	223
Jessica Kolman	94	63	157

**Richmond/Point Richmond**

Kate Sibley	124	112	236
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**San Lorenzo**

San Lorenzo High School	100	61	161
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**INLAND CITIES**

**Brentwood**

John and Fran Alcorn	63	39	102
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**Clayton**

Karen and Jeremy Amos	183	171	354
Kelly Marshall and Mike Weidner	196	214	410

**Lafayette**

Ursula Bartels	254	263	517
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**Livermore**

Louann Tung	102	108	210
Janis Turner			221
<b>Martinez</b>			
Web and Sue Beadle	109	146	255
Terry Blair and Dave Smith	133	146	279
Jean Halford	180	212	392
<b>Moraga</b>			
Jennifer Becker and Dean Mayer	258	184	442
Al Kyte	272	195	467
<b>Oakley</b>			
Carolee James	51	87	138
<b>Pleasant Hill</b>			
Gaston and Ariane Habets	322	288	610
<b>Walnut Creek</b>			
Stephen Barbata and Joyce Kirstein			753
Nancy Wenninger	277	310	587
<b>TOTAL</b>	5,209	5,297	13,066

\* The number of morning and afternoon visits does not equal the number of total visits, as some gardens reported only total visits; not the breakdown.

*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.**

- This garden tour is always fabulous!
- All of the volunteers were helpful and knowledgeable.
- Thanks a million! Everything and everyone was wonderful! We had a great day!
- Very inspiring! Thank you for all the hard work that went into organizing the tour, and for the beautiful booklet.

- We really appreciate this opportunity for inspiration and learning!
- We appreciated the hosts' enthusiasm and knowledge.
- Copious kudos for yet another amazing tour!
- Excellent event. It's great that the tour includes music & talks & more opportunities to purchase plants.
- Very well run tour! Great booklet, helpful volunteers, a lovely experience in general.
- It was a wonderful experience! Thank you!
- it was fantastic!!! thank you!!
- Excellent garden tour, I tell everyone I know about it.
- Thanks for all the volunteers who make the tour possible.
- The brochure is exceptionally attractive and well planned.
- Thank you. This tour was a day well-spent. We learned a lot and got a lot of inspiration. We are planning to remove our front lawn and were looking for ideas.
- Excellent, excellent, excellent! Thank you!
- The home owners were a wealth of knowledge and very, very nice to speak with.
- Extremely well organized and great information provided. Awesome, awesome job!
- Fabulous community education about natives and water conservation. Yeah!
- Wonderfully organized, lovely gardens. Thanks so much! It's an excellent tour.
- The tour was amazing - as it is every year! Look forward to it as an annual tradition!
- It was fun to discuss projects and how the homeowners progressed with their gardens.
- Wonderful! I liked having native plants available for sale.
- The East Bay garden tour was terrific! I always learn new things and get fresh inspiration from the tour and have made many changes over the years in our gardens, thanks to you. All of your hard work and that of your volunteers is much appreciated!
- My husband and I really enjoyed the tour. People who garden are always the nicest people - they are always willing to share their knowledge. Who knew that CA natives were such a beautiful group of plants. We are in the process of landscaping our backyard and came away from the tour with lots of new ideas. See you next year!
- The tour is one of the highlights of my year; I would not miss it. Thank you so so much for organizing such a wonderful event. This really helps me get better acquainted with the plants and see how they grow in different situations.
- This tour is always well organized. I re-did my whole front yard with natives 5 years ago, inspired by one of your tours.
- I visited four gardens closest to my house--it was a lot of fun and so inspiring. I got many ideas for my garden. I liked knowing that these gorgeous gardens took years and several stages to develop--it will help me be patient with my evolving garden.
- Loved this year's tour! I plan to develop my front/back yards into a native plant oasis, hopefully, soon.
- Just let everybody who's involved with this tour know that I really, really appreciate their efforts. I learn a lot, and am inspired. Keep up the great work, and THANK YOU!!
- Great organization! The information provided in the booklet is very helpful.
- I really enjoy this tour!!!
- Thank you so much. I'm joining the California Native Plant Society today. I love this tour.
- We loved the tour and are grateful to each and every person who makes this event possible and affordable.
- I'm really encouraged that the availability of native plants and information about them is so much greater than it was 20 years ago, and that young horticulturists are coming out of school with a very different mindset, but none of that matters much if the average homeowner continues to garden as if he lived in England. Thank you for the BBTN tour. Some people will go home and take major steps and others may start with subbing out a plant or two, but I think everyone comes away with a resolve to do something more environmentally appropriate.

- Special thanks to you and your staff for making this happen each year. I love seeing less grass and more plants!! Thank you to the wonderful participants for opening their homes to us and sharing so much information. The knowledge we walk away with is invaluable!! See you next year!!!!
- Excellent organization, pleasant volunteers, interested & respectful visitors --- everyone was impressed with the plants presented, and the variety, color, and overall attractiveness of native gardens. The tour is good selling job for use of natives.
- Great job! That Garden Tour booklet was so well done and was invaluable. All the gardens were lovely.
- Special kudos for the organization of the guide, knowledgeable garden assistants, and the serious effort to show gardens in the multitude of microclimates we have in the Bay area. Really this tour is spectacular.
- Fantastically well organized, great to have the detailed booklet to choose which gardens to visit and also to help remember ideas from the tour later on as a reference. I look forward to next year and am inspired to incorporate more natives into my landscape! Thank you.
- I would like to thank everyone who so generously opened their gardens to us!
- Loved it! Plan to come back next year.
- My friends and I look forward to the tour every year!
- Beautifully done and so welcoming. I heard many comments from people who wanted to adopt more drought-tolerant methods of gardening.
- We are very grateful for the generosity of the owners and the volunteers. We have been going religiously, annually. Without the tour, we would have never known how to use native plants, compost, etc.
- Really appreciate the information in the booklet, which helps me efficiently plan my personal tour to gardens that are near my home, probably similar in climate, and have features that inspire my own ideas or plans.
- Loved it. Thank you all for all the hard work. The Tour is a valuable contribution to the community.
- THANK YOU, THANK YOU! The Bringing Back the Natives Tour is a wonderful service to the community.
- This is a very organized event with LOTS of inspiring yards to see and learn from.
- Very well organized. Wonderful selection of gardens.
- Congratulations on another stunningly well-organized and inspirational tour. I am once again impressed with all the hard work you do provide opportunities for so much learning. Thank you to all the organizers, homeowners, presenters, and volunteers.
- Thank you so much, it's a great event!
- I was SO impressed with the registration process, and particularly the EXTRAORDINARY tour booklet; the well written-descriptions enabled me to decide which gardens to tour, and the wonderful mapping system helped with logistics. Please keep this tour guide - it is FANTASTIC.
- I really learned a lot, and am looking forward to getting my garden in shape so it can be on the tour one of these years!
- Lovely event - Thank you to all the hosts and sponsors.
- We LOVE the Tour!

## **Bringing Back the Natives Garden Tour Sunday May 4, 2014**

### **Summary**

- 41 gardens and nurseries were showcased on the Tour
- 60 + talks and demonstrations were given
- 150 volunteers made the tour possible
- 6,000+ registrants
- \$20,000 + worth of natives sold through the fall 2013 and spring 2014 Native Plant Sale Extravaganza
- 13,062 garden visits were made

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

How to select native plants	69%
How to reduce water use	57%
How to garden for wildlife	45%
How to reduce or eliminate pesticide use	25%
How to replace a lawn with a garden	30%
How to compost	18%

### **Information taken from evaluations**

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

### **Behavior Change**

77% 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, 95% of those who filled out the evaluation responded that it had, and added 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.

21% of respondents had incorporated natives into their gardens (thereby reducing herbicide use and conserving water)

15% had grouped plants by water needs and incorporated drought-resistant plants into their gardens

18% were encouraging wildlife with plant choices

16% had increased the density of plantings to out-compete weeds (reducing herbicide use and conserving water)

14% were tolerating some insect damage

6% had amended their soil

8% had installed efficient irrigation

9% had begun mulching

8% had reduced the size of their lawn

9% had reduced or eliminated pesticide use

6% had reduced the amount of hardscape in their gardens.

6% were composting

5% were grasscycling

**Repeat visitors were highly motivated to make changes in their gardens.**

**When asked what they planned to do:**

32% planned to increase the density of plantings to out-compete weeds

28% to group plants of similar water needs

21% to install efficient irrigation

17% to encourage wildlife

21% to reduce the size of their lawn

13% to mulch

15% to incorporate native plants into their gardens

11% to amend their soil with compost

- 8% to tolerate some insect damage to plants
- 8% to compost
- 12% to minimize hardscapes
- 6% to grasscycle
- 6% to reduce or eliminate pesticide use

**First-time registrants**

The tour was highly motivating to first time registrants.

- 52% responded that they planned to increase the density of plants, thus helping to outcompete weeds and reduce water use
- 50% planned to group plants by water needs
- 46% planned to incorporate native plants into their gardens
- 38% planned to incorporate drought-resistant plants into their gardens
- 37% to reduce the size of their lawns
- 36% planned to encourage wildlife
- 30% to install efficient irrigation
- 28% amend their soils
- 27% planned to mulch
- 20% planned to tolerate some plant damage
- 16% planned to reduce or eliminate pesticide use
- 12% to compost
- 12% planned to reduce the amount of hardscape in their gardens