



CITY OF HALF MOON BAY

City Hall • 501 Main Street • Half Moon Bay • CA • 94019

September 30, 2016

Mr. Bruce H. Wolfe
Executive Officer
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: **City of Half Moon Bay**
FY 2015/16 Annual Report

Dear Mr. Wolfe:

This letter and Annual Report with attachments is submitted by the City of Half Moon Bay pursuant to Permit Provision C.17.a of the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2015-0049, NPDES Permit No CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board. The Annual Report provides documentation of compliance activities conducted during FY 2015/16 and related accomplishments.

Please contact **Peykan Abbassi** at **650-726-8265** regarding any questions or concerns.

Very truly yours,

Peykan Abbassi
City Engineer



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CITY OF HALF MOON BAY FY 2015/16 ANNUAL REPORT

Certification Statement

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure 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 of 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."

Signature of Duly Authorized Representative:

Peykan Abbassi, City Engineer

9/26/2016
Date

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Section 1 – Permittee Information

Background Information					
Permittee Name:	City of Half Moon Bay				
Population:	11,324 (at 2010 Census)				
NPDES Permit No.:	CAS612008				
Order Number:	R2-2015-0049				
Reporting Time Period (month/year):	July 2015 through June 2016				
Name of the Responsible Authority:	Peykan Abbassi	Title:	City Engineer		
Mailing Address:	501 Main Street				
City:	Half Moon Bay	Zip Code:	94019	County:	San Mateo
Telephone Number:	(650) 726-8265	Fax Number:	(650) 726-8261		
E-mail Address:	pabbassi@hmbcity.com				
Name of the Designated Stormwater Management Program Contact (if different from above):	Mark Lander	Title:	Stormwater Coordinator		
Department:	Engineering				
Mailing Address:	501 Main Street				
City:	Half Moon Bay	Zip Code:	94019	County:	San Mateo
Telephone Number:	(650) 522-2562	Fax Number:	(650) 726-8261		
E-mail Address:	mark@csgengr.com				

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

Municipal operations activities for the reporting period include: 1) participation in the SMCWPPP’s Municipal Maintenance Subcommittee; 2) storm drain system monitoring for illicit discharges; 3) trash hot spot cleanup; 4) inspection and replacement of storm drain inlet markers (“No Dumping – Drains to Ocean”); 5) street sweeping; 6) pre-winter storm drain cleaning, including inspection and maintenance of trash full capture devices; 7) municipal corporation yard maintenance; 8) ongoing litter and debris pickup at City parks, one Little League field, and one creek area.

Refer to the C.2 Municipal Operations section of the Program’s FY 15-16 Annual Report for a description of activities implemented at the countywide and/or regional level.

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

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

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

Comments:

NA

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

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

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

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

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

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

Comments:
 Graffiti abatement is done by municipal staff as stated above and not contracted out. Graffiti abatement is performed by citizens during the "Wavecrest Workday" events sponsored by the Coastside Land Trust, but not by a method that threatens water quality (mud is mixed with water and applied to trees affected by graffiti; when the mud dries, it takes the paint with it and falls off the tree; the mud is later collected at the next cleanup event and disposed of).

C.2.e. ► Rural Public Works Construction and Maintenance	
Does your municipality own/maintain rural ¹ roads:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If your answer is No then skip to C.2.f.	
Place a Y in the boxes next to activities where applicable BMPs were implemented. If not applicable, type NA in the box and provide an explanation in the comments section below. Place an N in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.	
<input type="checkbox"/> Y	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas
<input type="checkbox"/> Y	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources
<input type="checkbox"/> NA	No impact to creek functions including migratory fish passage during construction of roads and culverts
<input type="checkbox"/> Y	Inspection of rural roads for structural integrity and prevention of impact on water quality
<input type="checkbox"/> NA	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion
<input type="checkbox"/> Y	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"/> NA	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: No creeks/waterways are located in the immediate vicinity of the rural road. There was no construction activity near live creeks or streams and no impact to migration or stream and riparian habitat. This fiscal year, the City conducted a ditch cleaning project to remove sediment from rural road ditches.	

¹Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ► Corporation Yard BMP Implementation

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

<input type="checkbox"/>	We do not have a corporation yard
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit
<input checked="" type="checkbox"/>	We have a Stormwater Pollution Prevention Plan (SWPPP) for the Corporation Yard(s)

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

<input type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system
<input type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method
<input checked="" type="checkbox"/>	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used
<input checked="" type="checkbox"/>	Cover and/or berm outdoor storage areas containing waste pollutants

Comments:
 1) Washing, maintenance, and fueling of vehicles and equipment does not occur onsite.
 2) No hazardous materials or wastes are stored in outdoor areas.
 3) The Corporation Yard does not have a closed storm drain system (surface drainage only).

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
HMB City Corp Yard 880 Stone Pine Road Half Moon Bay, CA	9/1/15 (Inspected regularly, on the first business day of each month)	a) Good Housekeeping BMPs were being implemented. b) No vehicle and equipment washing is performed onsite. c) No vehicle equipment maintenance on site. d) No fuel is dispensed at the site. e) Municipal vehicle, heavy equipment, and employee parking BMPs were being implemented. f) Waste, recycling, and hazardous waste storage BMPs were being implemented. g) Outdoor materials storage BMPs were being implemented.	No follow-up actions required.

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

**C.3.a. ► New Development and Redevelopment Performance
Standard Implementation Summary Report**

(For FY 15-16 Annual Report only) Provide a brief summary of the methods of implementation of Provisions C.3.a.i.(1)-(8).

Summary:

- **(1) Municipality's legal authority to implement C.3:** The City of Half Moon Bay has legal authority to implement provision C.3 through its Storm Water Management and Discharge Control Ordinance (Ord. 5-94), added in the Half Moon Bay Municipal Code as Chapter 13.15. This ordinance broadly covers elimination of non-stormwater discharges, control of discharge from spills, dumping, or disposal of materials, and reduction of pollutants in stormwater discharges to the maximum extent practicable, to the municipal separate storm sewer. LID requirements and project size thresholds that went into effect on December 1, 2011 for new development and redevelopment are addressed, implemented, and enforced through the City's Standard Conditions of Approval and the development review and approval process.
- **(2) Municipality's development review and permitting procedures, including use of conditions of approval or other enforceable mechanisms:** The City of Half Moon Bay reviews projects during early planning application stages to make a determination on regulated projects and applicability of provision C.3. These requirements are enforced through the development review process and conditions of approval. During the project application stage, information is collected and reviewed for compliance using the following standard checklists developed by the Countywide program: (a) Impervious Surface Data Collection Form, (b) NPDES Checklist, (c) C.3 and C.6 compliance checklist, (d) HM Applicability Checklist, and (e) O&M Data Collection Form.
- **(3) How water quality effects and mitigation measures are addressed in environmental reviews (e.g., CEQA):** A CEQA Initial Study Checklist is prepared for the specific project when a planning application is submitted. The standard State CEQA Initial Study checklist and SMCWPPP guidance for CEQA review are utilized when considering potential storm water runoff impacts from the project. Permanent storm water quality controls and hydromodification measures if applicable are incorporated in CEQA reviews, and appropriate mitigation measures are added as project requirements.
- **(4) C.3 training for appropriate departments (Program will report on training at the countywide level):** City Staff/Consultants attended the Annual C.3 New Development Workshop provided by the SMCWPPP program. Staff also reviews C.3 requirements and regulations provided in the C.3 Stormwater Technical Guidance document prepared by SMCWPPP. Provision C.3 requirements are also reviewed and discussed during the early application stages for regulated projects. Applicants are also directed to the countywide storm water program website (www.flowstobay.org) for C.3 guidance.
- **(5) Outreach/education efforts to staff, developers, contractors, construction site operators and owner/builders:** Staff attends the SMCWPPP-New Development Subcommittee meetings and workshops to receive information and updates on C.3 regulations. Staff also reviews and utilizes the countywide storm water program website (www.flowstobay.org) for C.3 guidance. During the planning application stage, storm water handouts and brochures developed by SMCWPPP are handed out to the applicant (developers, contractors, etc.) and these requirements are discussed during the project development meetings. Applicants are also directed to the Countywide programs website for C.3 guidance, flyers and forms. NPDES checklist, C.3 and C.6 compliance checklist, Source Control Model List, Impervious Surface Data Collection Form, HM Applicability Checklist, and O&M Verification Forms are used. Flyers, brochures,

and fact sheets developed by SMCWPPPP (new stormwater requirements, changes to C.3 requirements, etc) are also used and distributed.

- **(6) How your municipality encourages site design measures at unregulated projects subject to Planning/Building Department review:** The City uses the NPDES checklist for unregulated projects. Section 11.A of this checklist specifies the minimum requirements for site design measures. Minimizing land disturbance and impervious surfaces encourage use of pervious surfaces for hardscape improvements, minimizing impervious surfaces from being directly connected to the storm drain system, and using bay friendly landscape design are some of the requirements.
- **(7) How your municipality encourages source control measures at unregulated projects subject to Planning/Building Department review:** Source Control Measures at unregulated project are encouraged, recommended and implemented in accordance with the City of Half Moon Bay’s Zoning Code Section 18.38.120 (Water Quality Protection). Projects subject to the development plan review are also encouraged to incorporate the appropriate source control measures from the source control model list.
- **(8) General Plan revisions (if needed) to integrate water quality/watershed protection with water supply, flood protection, habitat protection, groundwater recharge, and other sustainable development principles and policies.**

In 2013, the City of Half Moon Bay General Plan was revised to include Action 3-4 in the Circulation Element, which is a “Greener Streets” provision, which states that updates to the City’s Engineering and Design Standards, Parking Ordinance, and other related regulations will include provisions for drainage swales and other means to allow natural soil filtration of stormwater runoff with the intent of improving water quality. In a 2015 revision, water conservation was emphasized in Goal 5, Policy 5A, Program 5-1 of the Housing Element of the General Plan, as well as LEED and other green building practices and including appropriate site design measures for runoff.

Provisions to integrate water quality/watershed protection, water supply, flood protection, habitat protection, groundwater recharge, and other sustainable development principles are identified in the City of Half Moon Bay’s Land Use Plan. Policies are identified in the following sections: Flood Protection (Chapter 4), Habitat Protection (Chapter 3), Water Supply (Chapter 9) etc. The City’s Zoning Code implements these policies as defined within Chapter 18.38 - Coastal Resource Conservation Standards and Chapter 13.04 – Water Conservation and Landscaping Regulations.

C.3.b.iv.(2) ► Regulated Projects Reporting

Table C.3.b.iv.(2) has been filled in.

C.3.c.ii ► Design Specifications for Pervious Pavement Systems

(For FY 2015-16 Annual Report only). Submit design specifications for pervious pavement systems that have been developed and adopted on a regional or countywide basis. If design specifications have been adopted and are contained in a Countywide stormwater handbook, include a reference to the handbook.

Summary:

The City of Half Moon Bay is following the design specifications included in the SMCWPPPP C.3 Stormwater Technical Guidance, revised draft June

2016.

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

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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Comments (optional):
 The City of Half Moon Bay will allow alternative compliance on a case-by-case basis. To date, no projects have elected to use alternative compliance.

C.3.e.v ► Special Projects Reporting

1. In FY 2015-16, 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)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------	-----	-------------------------------------	----

2. In FY 2015-16, has your agency granted final discretionary approval to a Special Project? If yes, include the project in both the C.3.b.iv.(2) Table, and the C.3.e.v. Table.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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NA – The City of Half Moon Bay has not received any permit applications for a project that has been identified as a potential Special Project.

C.3.h.v.(2) ► Reporting Newly Installed Stormwater Treatment Systems and HM Controls (Optional)

On an annual basis, before the wet season, provide a list of newly installed (installed within the reporting year) stormwater treatment systems and HM controls to the local mosquito and vector control agency and the Water Board. The list shall include the facility locations and a description of the stormwater treatment measures and HM controls installed.

See attached Table **C.3.h.v.(2)** for list of newly installed Stormwater Treatment Systems/HM Controls.

C.3.h.v.(3)(a) –(c) and (f) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Option 1 – Reporting Site Inspections	Number/Percentage
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the previous fiscal year (FY14-15)	3
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the reporting period (FY 15-16)	3
Total number of Regulated Projects (including offsite projects, and Regional Projects) for which O&M verification inspections were conducted during the reporting period (FY 15-16)	1
Percentage of the total number of Regulated Projects (including offsite projects, and Regional Projects) inspected during the reporting period (FY 15-16)	33% ²
Option 2 – Reporting Stormwater Treatment System Inspections	NA – Option 1 Used
Total number of stormwater treatment and HM systems in your agency's database or tabular format at the end of the previous fiscal year (FY 14-15)	NA – Option 1 Used
Total number of stormwater treatment systems in your agency's database or tabular format at the end of the reporting period (FY 15-16)	NA – Option 1 Used
Total number of stormwater treatment and HM systems inspected in the reporting period (FY 15-16)	NA – Option 1 Used
Percentage of stormwater treatment and HM systems inspected in the reporting period (FY 15-16)	NA – Option 1 Used % ³

² Based on the number of Regulated Projects in the database or tabular format at the end of the previous fiscal year (FY 14-15), per MRP Provision C.3.h.ii.(6)(b).

³ Based on the number of stormwater treatment and HM systems database or tabular format at the end of the previous fiscal year (FY 14-15), per MRP Provision C.3.h.ii.(6)(b).

**C.3.h.v.(3)(d)-(e) ► Installed Stormwater Treatment Systems
Operation and Maintenance Verification Inspection Program
Reporting**

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:

C.3 systems have been found to be well maintained in this and previous reporting years. Inspections within the reporting year were as follows:

- June 22, 2016 – Coastside Senior Housing, 925 Main Street: The bioretention system was found to be in good working condition, with healthy vegetation and no trash or accumulated debris. There was some evidence of erosion in areas without mulch and at the outlet pipe location. The underground Vortechs unit is regularly cleaned by the property owner. Evidence of the last cleaning, which occurred on 5/15/15, was provided.
- An inspection of 801 Arnold Way was attempted on June 22, 2016, but the representative requested that the inspection be performed another time in the presence of the manager. It was not possible to track down the manager before the end of the reporting year, so an inspection will be made in the next fiscal year.

Provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).

Summary:

The O&M program is highly effective in identifying issues with installed stormwater treatment facilities, and ensuring the systems retain their treatment effectiveness and do not become forgotten by the property owner. In addition, the program is effective in identifying design issues which can be avoided in future installations. Inspections of C.3 systems are challenging when the representative on site is not the owner, and the representative feels uncomfortable allowing an inspection of the system without the owner or manager on site. Additional work is necessary to improve public outreach and reestablish property owner contacts to ensure inspections occur smoothly and on schedule.

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

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

Summary:

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

C.3.j.i.v.(d) ► Green Infrastructure Outreach

On an annual basis, provide a summary of your agency’s outreach and education efforts pertaining to Green Infrastructure planning and implementation.

Summary:
 City contract engineers regularly attend and participate in the recently begun Green Infrastructure committee on behalf of the City, and worked with City Engineering staff within the reporting year to review the Green Infrastructure workplan, discuss the Green Infrastructure screening procedure, and screen the list of capital improvement projects for Green Infrastructure Potential. The City Council approved funding for a new skatepark adjacent to the Ted Adcock Community Center, which is not C.3 regulated but includes a Green Infrastructure component (bioretention area).

Please refer to the SMCWPPP FY 15-16 Annual Report for a summary of outreach efforts implemented by the Program.

C.3.j.ii.(2) ► Early Implementation of Green Infrastructure Projects

On an annual basis, submit a list of green infrastructure projects, public and private, that are already planned for implementation during the permit term and infrastructure projects planned for implementation during the permit term that have potential for green infrastructure measures. Include the following information:

- A summary of planning or implementation status for each public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. (see C.3.j.ii.(2) Table B - Planned Green Infrastructure Projects).
- A summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. For any public infrastructure project where implementation of green infrastructure measures is not practicable, submit a brief description of the project and the reasons green infrastructure measures were impracticable to implement (see C.3.j.ii.(2) Table A - Public Projects Reviewed for Green Infrastructure).

Background Information:
 The City of Half Moon Bay utilized the procedure outlined in the BASMAA “Guidance for Identifying Green Infrastructure Potential in Municipal Capital Improvement Program Projects” (May 6, 2016) to identify and review potential green infrastructure projects from the list of Capital Improvement Projects. Several projects were identified as having a potential for Green Infrastructure based on the preliminary screening, and feasibility will be reviewed in greater depth as the projects progress, based on review of the City’s recently completed storm drain map, and site reconnaissance.

Summary of Planning or Implementation Status of Identified Projects:
 See attached Tables C.3.j.ii.(2)-A and C.3.j.ii.(2)-B for the required information.

C.3.j.iii.(2) ▶ Participate in Processes to Promote Green Infrastructure

On an annual basis, report on the goals and outcomes during the reporting year of work undertaken to participate in processes to promote green infrastructure.

Please refer to the SMCWPPP FY 15-16 Annual Report for a summary of efforts conducted to help regional, State, and federal agencies plan, design and fund incorporation of green infrastructure measures into local infrastructure projects, including transportation projects.

C.3.j.iv.(2) ▶ Tracking and Reporting Progress

On an annual basis, report progress on development and implementation of methods to track and report implementation of green infrastructure measures and provide reasonable assurance that wasteload allocations for TMDLs are being met.

Please refer to the SMCWPPP FY 15-16 Annual Report for a summary of methods being developed to track and report implementation of green infrastructure measures.

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

Project Name Project No.	Project Location ¹⁰ , Street Address	Name of Developer	Project Phase No. ¹¹	Project Type & Description ¹²	Project Watershed ¹³	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ¹⁴	Total Replaced Impervious Surface Area (ft ²) ¹⁵	Total Pre- Project Impervious Surface Area ¹⁶ (ft ²)	Total Post- Project Impervious Surface Area ¹⁷ (ft ²)
Private Projects											
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Public Projects											
Half Moon Bay Library Replacement Project PDP-2016-01	620 Correas Street at Correas Street/Purissima Street	City of Half Moon Bay	NA	Institutional redevelopment (replacement of library)	Pilarcitos Creek	0.96	0.96	9,625	14,617	27,987	24,242
Half Moon Bay High School Track & Field Improvements PDP-074-14	100 Lewis Foster Drive	Cabrillo Unified School District	NA	Institutional redevelopment (renovation of sports field for ADA access and new field events)	Pilarcitos Creek	0.77	0.77	9,841	22,561	22,561	32,402
Comments: NA											

¹⁰Include cross streets

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

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

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

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

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

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

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

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

Project Name Project No.	Application Deemed Complete Date ¹⁸	Application Final Approval Date ¹⁹	Source Control Measures ²⁰	Site Design Measures ²¹	Treatment Systems Approved ²²	Type of Operation & Maintenance Responsibility Mechanism ²³	Hydraulic Sizing Criteria ²⁴	Alternat ive Compli ance Measur es ^{25/26}	Alternative Certification ²⁷	HM Controls ^{28/29}
Private Projects										
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

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

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

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

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

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

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

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

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

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

C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (public projects)										
Project Name Project No.	Approval Date ³⁰	Date Construction Scheduled to Begin	Source Control Measures ³¹	Site Design Measures ³²	Treatment Systems Approved ³³	Operation & Maintenance Responsibility Mechanism ³⁴	Hydraulic Sizing Criteria ³⁵	Alternative Compliance Measures ^{36/37}	Alternative Certification ³⁸	HM Controls ^{39/40}
Public Projects										
Half Moon Bay Library Replacement Project PDP-2016-01	5/10/16	Estimated 12/2017	Mark onsite inlets	Direct roof runoff, runoff from sidewalks, driveways, and uncovered parking lots to vegetated areas. Construct walkways with pervious or permeable surfaces.	Bioretention area, flow-through planter	City of Half Moon Bay to maintain and operate	3	NA	NA	NA
Half Moon Bay High School Track & Field Improvements PDP-074-14	6/14/16	TBD	Mark onsite inlets, use efficient irrigation system	Direct roof runoff, runoff from sidewalks, driveways, and uncovered parking lots to vegetated areas.	Bioretention area	O&M Agreement with School District	2.c.	NA	NA	NA
Comments: NA										

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

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

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

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

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

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

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

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

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

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

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

C.3.h.v.(2). ► Table of Newly Installed⁴¹ Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)

Fill in table below or attach your own table including the same information.
 NA – There were no newly installed stormwater treatment systems in the City of Half Moon Bay within the reporting year.

Name of Facility	Address of Facility	Party Responsible ⁴² For Maintenance	Type of Treatment/HM Control(s)
NA	NA	NA	NA

⁴¹ “Newly Installed” includes those facilities for which the final installation inspection was performed during this reporting year.

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

C.3.e.v. Special Projects Reporting Table												
Reporting Period – July 1 2015 - June 30, 2016												
Project Name & No.	Permittee	Address	Application Submittal Date ⁴³	Status ⁴⁴	Description ⁴⁵	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category ⁴⁶	LID Treatment Reduction Credit Available ⁴⁷	List of LID Stormwater Treatment Systems ⁴⁸	List of Non-LID Stormwater Treatment Systems ⁴⁹
Name of the Special Project and Project No. (if applicable)	Name of the Permittee in whose jurisdiction the Special Project will be built	Address of the Special Project; if no street address, state the cross streets	See footnote	See footnote	See footnote	Total site area in acres	Number of dwelling units per acre.	Floor Area Ratio	Category A: Category B: Category C: Location: Density: Parking: See footnote	Category A: Category B: Category C: Location: Density: Parking: See footnote	Indicate each type of LID treatment system and % of total runoff treated. See footnote	Indicate each type of non-LID treatment system and % of total runoff treated. Indicate whether minimum design criteria met or certification received See footnote
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁴³Date that a planning application for the Special Project was submitted.

⁴⁴Indicate 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.

⁴⁵Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

⁴⁶For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁴⁷For 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.

⁴⁸List 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.

⁴⁹List 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.

Special Projects Narrative

NA – No Special Projects within the reporting year.

C.3.j.ii.(2) ► Table A - Public Projects Reviewed for Green Infrastructure				
Project Name and Location ⁴⁴	Project Description	Status ⁴⁵	GI Included? ⁴⁶	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement ⁴⁷
Poplar Street Complete Street Project	Design and improvement of Poplar Avenue includes improved pedestrian/bicycle access and drainage	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Kelly/SR 1 intersection improvement	Pedestrian, circulation and drainage improvements at Highway 1 and Kelly Avenue.	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Storm Drain Master Plan Implementation (Excluding Seymour and Kehoe)	Design and preparation of environmental studies and bid documents for prioritized improvements	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Storm Drain Master Plan-Phase 2	Development of a Capital Improvement Program for storm drain system deficiencies identified in the Storm Drain Master Plan, Phase I	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Kehoe Ditch Implementation--Pilarcitos to Frontage Road	Design and consultation with agencies to address hydraulic and hydraulic issues within the lower watershed	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Seymour Ditch Erosion Repair	Assessment of the Seymour Drainage, consultation with resource agencies and adjacent property owners, analysis of alternatives, design of preferred alternatives, permitting for the preferred alternative and construction	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.

⁴⁴ List each public project that is going through your agency's process for identifying projects with green infrastructure potential.

⁴⁵ Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

⁴⁶ Enter "Yes" if project will include GI measures, "No" if GI measures are impracticable to implement, or "TBD" if this has not yet been determined.

⁴⁷ Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

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Permittee Name: City of Half Moon Bay

C.3 – New Development and Redevelopment

Smith Field Tot Lot	Design, preparation of bid documents and construction of a new Tot Lot	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Smith Field T-Ball Field	Completing environmental studies, securing required permits and constructing the park and drainage improvements	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Naomi Patridge Trail Extension	Extension of the Naomi Patridge Trail from Wavecrest Road to Miramontes Point Road.	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
Ocean Colony Trail Repair North	Design and construction for major rehabilitation of the existing path	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
City Parking Lots Reconstruction	Repair and rehabilitation of City-owned parking lots	Beginning planning and design phase	TBD	Various LID measures will be considered, including bioretention areas.
New Magnolia/Seymour Park	Converting an existing vacant lot into a new neighborhood park	Currently unfunded	TBD	Various LID measures will be considered, including bioretention areas.
Walkway Extension from Cameron's to Smith Field	Provide an all-weather use walkway along Wavecrest Road to Smith Field Park	Currently unfunded	TBD	Various LID measures will be considered, including bioretention areas.
Kelly Avenue Complete Street	Design and improvement of Kelly Avenue; improve pedestrian/bicycle access and drainage	Currently unfunded	TBD	Various LID measures will be considered, including bioretention areas.

C.3.j.ii.(2) ► Table B - Planned Green Infrastructure Projects

Project Name and Location⁴⁸	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
Skateboard Plaza	Construction of a new permanent Skateboard Park adjacent to the Ted Adcock Community Center	This project is estimated to be constructed in FY 16-17.	The project will install bioretention areas.
Ted Adcock Center re-roof.	Replacement of the roof at Ted Adcock Center	This project is estimated to be constructed in FY 16-17.	The project will install bioretention areas as part of the project above.

⁴⁸ List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

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

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The City of Half Moon Bay updated the Business Inspection Plan to match the latest list of City of Half Moon Bay business licenses. City staff also coordinated with County Environmental Health to review a new category of businesses for C.4 applicability (bed and breakfast businesses), and to update priorities and business lists to ensure that the lists are consistent. Businesses that operate outside the City of Half Moon Bay (and are located in the County) were moved from the City of Half Moon Bay list to other lists. The City also conducted inspections above and beyond the CEH inspections, conducted internal training for C.4 inspections, and regularly participates in the Program’s CII Subcommittee. Refer to the C.4. Industrial and Commercial Site Controls section of the SMCWPPP FY 15-16 Annual Report for a description of Program activities.

C.4.b.iii ► Potential Facilities List

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

Please see attached list of facilities.

C.4.d.iii.(1)(a) ► Facility Inspections

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

<input type="checkbox"/>	Permittee reports multiple discrete violations on a site as one violation.
<input checked="" type="checkbox"/>	Permittee reports the total number of discrete violations on each site.

	Number	Percent
Number of businesses inspected	48	
Total number of inspections conducted	51	
Number of violations (excluding verbal warnings)	9	
Sites inspected in violation (excluding verbal warnings)	7	15%
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	4	57%

Comments:

“Sites inspected in violation” includes any site that received a violation within the reporting year. Three sites received warning notices for multiple violations on site, including failure to maintain trash areas, failure to clean up spills, and failure to store materials on site properly. Follow up inspections were also performed for sites which did not receive violations but had issues on sites. Most violations were resolved within a timely manner, but those that did not were mostly not resolved in a timely manner due to the transition from paper to electronic data within the fiscal year – some violations did not immediately show up in the system as intended, which caused delays in follow-up inspections. CEH transitioned

Permittee Name: City of Half Moon Bay

during the FY from paper inspection forms to an electronic reporting system. This is the first Annual Report completed with the new system. CEH is continuing to work with the database contractor to refine reporting tools.

The City performed inspections for 19 of the 52 sites inspected within the reporting year, including several sites that were new to the Active Facilities List which had been identified as potential C.4 regulated sites during the City's recent update of the list.

C.4.d.iii.(1)(b) ► Frequency and Types/Categories of Violations Observed

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

Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	0
Potential discharge and other	7
Comments: Discharges are counted as one discharge per inspection per site.	NA

C.4.d.iii.(1)(b) ► Frequency and Type of Enforcement Conducted

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

	Enforcement Action (as listed in ERP) ⁴⁹	Number of Enforcement Actions Taken	% of Enforcement Actions Taken ⁵⁰
Level 1	Verbal Warning	2	22%
Level 2	Warning Notice/NOV	7	78%
Level 3	Notice to Comply (Administrative Action with Penalty and/or Cost Recovery)	0	0%
Level 4	Legal Action	0	0%
Total		9	100%

⁴⁹Agencies to list specific enforcement actions as defined in their ERPs.

⁵⁰Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

C.4.d.iii.(1)(c) ▶ Types of Violations Noted by Business Category

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

Business Category ⁵¹	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Hazardous Materials	0	3
Food	0	4

C.4.d.iii.(1)(d) ▶ 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:
 There were no industries identified as non-filers during scheduled inspections during this fiscal year.

C.4.e.iii ▶ Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Industrial/ Commercial Site Inspectors in Attendance	Percent of Industrial/ Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
CII Subcommittee Meeting	6/15/16	CEH and C.4 Inspections, Changes to Provision C.4, Mobile Business Control, Industrial General Permit, Common Inspection Issues	1	50%	1	50%
CII Subcommittee Meeting	3/16/16	CEH and C.4 Inspections, Changes to Provision C.4, Mobile Business Control, Common Inspection Issues	1	50%	1	50%
CII Subcommittee Meeting	9/16/15	CEH and C.4 Inspections, Changes to Provision C.4, Mobile Business Control, Common Inspection Issues	1	50%	1	50%

Comments:
 Training received by San Mateo County Environmental Health inspectors is not reported in the table above, but these inspectors do receive frequent training, including attendance at the CII Stormwater Inspection Training on 6/1/16. Internal trainings and review of site C.4 data occurred several times within the reporting year (4/27/16, 5/12/16, and 6/22/16), and a meeting was held with CEH (6/23/16), but are not reported in the table above.

⁵¹List your Program's standard business categories.

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

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

Provide background information, highlights, trends, etc.

Summary:
 City staff implements the City’s collection system screening program and regularly participates in the commercial, industrial, and illicit discharge (CIL) subcommittee. Half Moon Bay’s maintenance staff uses the storm collection system screening form (C.5.e.) developed by the Countywide program to inspect end of pipes, creeks, flood conveyances, storm drain inlets, and catch basins during other routine maintenance and inspection activities when maintenance staff is working in or near the MS4 system. Estimated trash volume and type of trash in SD Inlets is also documented on these forms. Maintenance/cleanup is scheduled if needed.

Refer to the C.5 Illicit Discharge Detection and Elimination section of the SMCWPPP FY 15-16 Annual Report (if applicable) for description of activities at the countywide or regional level.

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

List below or attach your complaint and spill response phone number

During Business Hours: City of Half Moon Bay Main Number - 650-726-8270
 After Business Hours: Sheriff’s Office Dispatch – (650) 726-8286

Provide your complaint and spill response web address, if used

NA
 The complaint and spill response contacts are on the Program’s website: <http://www.flowstobay.org/reportpollution>

Is a screen shot of your website showing the central contact point attached? Yes No

If No, explain:
 The City does not have a spill dumping and reporting section of the website.

Provide a discussion of how the central contact point (complaint and spill response phone number and, if used, web address) is being publicized to your staff and the public.

The contact person is advertised through the County program website (<http://www.flowstobay.org/reportpollution>).

C.5.d.iii.(1), (2), (3) ► Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)		
	Number	Percentage
Discharges reported (C.5.d.iii.(1))	0	
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	0	NA
Discharges resolved in a timely manner (C.5.d.iii.(3))	NA	NA
Comments: No illicit discharges were encountered and no complaints were received during this reporting period.		

C.5.f.iii ► MS4 Map Availability

Discuss how you make your MS4 map available to the public and how you publicize the availability of the MS4 map.

This fiscal year, the City of Half Moon Bay undertook the development of a storm drain master plan, Phase 1 of which included a MS4 map. This document was approved by Council on August 30, 2016, and will be available for download on the Public Works Department section of the website. (Currently, the document is only available for download on the Council meetings section of the website, with the meeting minutes.) Public hearings about the master plan were held throughout the reporting year. Members of the public can also request a hard copy of the MS4 from the City Hall counter staff.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.(1) ► Hillside Development Criteria		
What criteria is your agency using to determine hillside development areas?	<input type="checkbox"/>	Local criteria such as maps of hillside development areas or other written criteria
	<input checked="" type="checkbox"/>	The permit definition of projects on sites with ≥ 15% slope
Attach a copy of hillside development area maps or provide your written criteria below, if applicable.		
Description: NA		

C.6.e.iii.2.a, b, c ► Site/Inspection Totals		
Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)	Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more) (C.6.e.iii.1.c)
0	4	12
Comments: Six inspections were also performed for two sites which included C.3 facilities but are not within the above categories as part of the City's inspection program. Inspections were only performed in the months of February, March, and April of 2016, so no sites were inspected specifically for stormwater in the months of October 2015 through January 2016. Additional information is provided in Section C.6.e.iii.(4) of this report.		

C.6.e.iii.2.d ► Construction Activities Storm Water Violations		
BMP Category	Number of Violations⁵² excluding Verbal Warnings	% of Total Violations⁵³
Erosion Control	0	0%
Run-on and Run-off Control	0	0%
Sediment Control	0	0%
Active Treatment Systems	0	0%
Good Site Management	0	0%
Non Stormwater Management	0	0%
Total⁵⁴	0	100%

⁵²Count 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.

⁵³Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

⁵⁴The 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.2.e ► Construction Related Storm Water Enforcement Actions

	Enforcement Action (as listed in ERP) ⁵⁵	Number Enforcement Actions Issued	% Enforcement Actions Issued ⁵⁶
Level 1 ⁵⁷	Verbal Warning	4	100%
Level 2	Written Warning/Notice of Violation	0	0%
Level 3	Stop Work Order	0	0%
Level 4	Notice to Comply	0	0%
Level 5	Legal Action	0	0%
Total		4	100%

C.6.e.iii.2.f, g ► Illicit Discharges

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

⁵⁵Agencies should list the specific enforcement actions as defined in their ERPs.

⁵⁶Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

⁵⁷For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.2.h, i ► Violation Correction Times		
	Number	Percent
Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	NA	NA% ⁵⁸
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	NA	NA% ⁵⁹
Total number of violations (excluding verbal warnings) for the reporting year⁶⁰	NA	100%
Comments: Verbal warnings were issued to sites, which are not reported in the table above. Inspection findings and concerns were discussed with site representatives in the field and copies of inspection reports were emailed to site representatives.		

C.6.e.iii.(4) ► 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.).
<p>Description:</p> <p>Several sites had issues with their maintenance and upkeep of BMPs, and verbal warnings were issued for failure to provide a stabilized construction entrance and failure to cover stockpiles. Inspection findings and concerns were discussed with site representatives in the field and copies of inspection reports were emailed to site representatives. In two cases, enforcements should have been escalated when the sites continued to have problems, but only verbal warnings were issued. Additional training and interdepartmental communication is necessary to ensure that escalation of enforcement actions occur for repeat problem sites.</p> <p>Inspections were only performed in the months of February, March, and April of 2016, so no sites were inspected specifically for stormwater in the months of October 2015 through January 2016. Construction progress inspections did occur during these months, but no stormwater inspection forms were filled out during this time. The City of Half Moon Bay’s primary NPDES inspector retired late last year after many years of service, and there was a major turnover in City staff at all levels which resulted in temporary suspension of C.6 inspections. Existing contracts with consultants were temporarily cancelled during this turnover. Contract engineers were brought on board in February to provide stormwater inspections and fill the gap in City staffing. A permanent Public Works Superintendent was only recently hired in September 2016. Work is underway to train new staff with NPDES procedures and requirements so that in future years the City has a stronger program; efforts will be made to ensure that suspensions of NPDES activities do not occur in the future. For the 2016-2017 fiscal year, the City has retained a consultant with the specific task of conducting C.6 inspections.</p>

⁵⁸ 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.
⁵⁹ 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.
⁶⁰ 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.

C.6.e.iii.(4) ► 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:

Efforts conducted in FY 15-16 by the City of Half Moon Bay to implement MRP requirements included 1) providing training to inspectors; and 2) participation in the SMCWPPP New Development Subcommittee. Revisions were made to the construction inspection forms by the Program, but the revision included the review high priority sites classified as hillside sites (>15% slope); City staff will utilize this updated form in future years, but for FY 15-16 no change was necessary, since no additional sites were classified as high priority by the change in the MRP requirements. Refer to the C.6 Construction Site Control section of SMCWPPP FY 15-16 Annual Report) for a description of Program and regional activities.

C.6.f ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
SMCWPPP Stormwater Construction Site Inspection Training	5/3/16	Implementing requirements of Provision C.6; Construction General Permit context; Differences between MRP and MRP 2.0; Caltrans Experience; Group Exercise	2	100%

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

C.7.b.i.1 ► Outreach Campaign

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

See Section 7 and Section 9 of the SMCWPPP FY 15-16 Annual Report for a description of activities conducted at Countywide level.

C.7.c. Stormwater Pollution Prevention Education

Local stormwater phone number(s)	Phone: 650-599-1406 Email: info@flowstobay.org
Local/Regional stormwater website(s)	http://flowstobay.org/

Visitors are referred to the County Program via the Public Works/Storm Drains webpage, and Planning Division homepage. See The C.7 Public Information and Outreach section of SMCWPPP 15-16 Annual Report.

C.7.d ► Public Outreach and Citizen Involvement 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

See the C.7 Public Outreach and Citizen Involvement Events section of SMCWPPP FY 15-16 Annual Report for a summary of activities.

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, creek clean-up, storm drain stenciling, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscene 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"> • Success at reaching a broad spectrum of the community • Number of participants compared to previous years. • Post-event effectiveness assessment/evaluation results • Quantity/volume of materials cleaned up, and comparisons to previous efforts
Coastal Cleanup Day Saturday, September 19, 2015 Pillar Point Beach near Mavericks Regional and Local Event	Similar cleanup events were held at over 30 locations throughout San Mateo County on this day. The City of Half Moon Bay assists in this event by providing trash and recycling bags, and by picking up the trash collected at the end of the day.	55 volunteers collected 434 lbs. of trash, 28 lbs. of recyclables, and 400 lbs. of tires and miscellaneous metal scraps.
Half Moon Bay Earth Day Resource Fair and Compost Giveaway April 22, 2016 Kelly Avenue near Main Street, across from City Hall	The event included a free compost giveaway as well as resource booths on protecting the environment and living sustainably. Partner organizations with booths included the Pacifica Beach Coalition, San Mateo County RecycleWorks, Coastside Farmers Market, The Heal Project, Coastside Land Trust, and Sustainable San Mateo County.	Allied Waste Services of Half Moon Bay partnered with the City of Half Moon Bay to provide 1 cubic yard of free organic compost per address for attendees. Attendance data was not available.

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C.7 – Public Information and Outreach

<p>Wavecrest Workday 8/8/15, 11/14/15, 1/16/16 Smith Field on Wavecrest Road in Half Moon Bay</p>	<p>Coastside Land Trust sponsors this event. Work includes graffiti abatement, trash pickup, and invasive plant removal.</p>	<p>Typically 25-50 volunteers attend this cleanup event, and pick up approximately 200-300 lbs. of trash per event. Light refreshments are provided to all attendees.</p> <p>This event is effective at removing litter from loiterers and homeless encampments in coastal prairie areas. Litter tends to collect around cypress trees, in particular.</p>
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C.7.e. ► Watershed Stewardship Collaborative Efforts

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

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:

See the C.7 Watershed Stewardship Collaborative Efforts section of SMCWPPP FY 15-16 Annual Report for a summary of activities.

C.7.f. ► 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.

See the C.7 School-Age Children Outreach section of SMCWPPP FY 15-16 Annual Report for a summary of activities.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.
"Be Seen Keepin' It Clean" 5/18/16 Hatch Elementary School Cunha Intermediate School	Students at both schools participated in an environmental homework assignment to clean up their neighborhoods and community; with the support of Allied Waste/Republic Services (on behalf of	Attendance information was not available. Classes were encouraged to	Effectiveness information was not available, but the event has been well attended and successful in the past.

Permittee Name: City of Half Moon Bay

	the City of Half Moon Bay and the County of San Mateo) —which provided wheeled collection carts and extra recycling and garbage pickups—students collected litter from local parking lots, streets, beaches, parks, and their school grounds.	participate by rewarding classes who had > 50% participation with a pizza party.	
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Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a. ► Implement IPM Policy or Ordinance								
Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?					<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, explain: NA								
Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbaryl, and fipronil. A separate report can be attached as evidence of your implementation.								
Trends in Quantities and Types of Pesticides Used⁶¹								
Pesticide Category and Specific Pesticide Used	Amount ⁶²							
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21		
Organophosphates	0							
Product or Pesticide Type A	NA							
Product or Pesticide Type B	NA							
Pyrethroids	0							
Product or Pesticide Type X	NA							
Product or Pesticide Type Y	NA							
Carbamates	0							
Product or Pesticide Type X	NA							
Product or Pesticide Type Y	NA							
Fipronil	0							
Product or Pesticide Type X	NA							
Product or Pesticide Type Y	NA							
Indoxacarb	Reporting not required							

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

⁶²Weight or volume of the product or preferably its active ingredient, using same units for the product each year. Please specify units used. 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: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

	in FY 15-16					
Diuron	Reporting not required in FY 15-16					
Diamides	Reporting not required in FY 15-16					

The City of Half Moon Bay uses the following IPM Tactics and Strategies:

- Use of non-chemical strategies such as monitoring, mowing weeds, mulching.
- Removal of plants that require frequent pesticide applications.
- Preventive actions such as sealing holes and gaps in structures, improving sanitation.
- Use of baits and traps instead of broadcast pesticides

C.9.b ▶ Train Municipal Employees	
Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	1
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	1
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	100%
Type of Training: Local tailgate meetings are held for staff to train on the IPM policy and IPM standard operating procedures. These trainings are held prior to applying pesticides.	

C.9.c ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
<p>If yes, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored</p> <p>Landscape pest management is done by municipal staff only (not contractors), and only herbicides are applied. The City adopted an IPM Policy and Standard Operating Procedures are used.</p> <p>Structural pest management is done by an IPM certified contractor (Terminix). The City of Half Moon Bay verifies IPM contractor performance by hiring professionals that certify they are properly trained and use IPM in accordance with City policies and procedures. City staff also reviews the list of pesticides used by contractors. No pesticides are used outside of public buildings or in the right-of-way. Traps are used for rodent control.</p>			

C.9.d ▶ Interface with County Agricultural Commissioners			
Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides,	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
<p>If yes, summarize the communication. If no, explain.</p> <p>Pesticide usage is reported to the County Agricultural Commission monthly. See Section 9 of the SMCWPPP FY 15-16 Annual Report for summary of communication with the San Mateo County Agricultural Commissioner.</p>			
Did your municipality report any observed or citizen-reported violations of pesticide regulations (e.g., illegal handling and applications of pesticides) associated with stormwater management, particularly the California Department of Pesticide Regulation (DPR) surface water protection regulations for outdoor, nonagricultural use of pyrethroid pesticides by any person performing pest control for hire.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
<p>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.</p> <p>NA</p>			

C.9.e.ii (1) ► Public Outreach: Point of Purchase

Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); **OR** reference a report of a regional effort for public outreach in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of the SMCWPPP FY 15-16 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

C.9.e.ii (2) ► Public Outreach: Pest Control Contracting Outreach

Provide a summary of outreach to residents who use or contract for structural pest control and landscape professionals); **AND/OR** reference a report of a regional effort for outreach to residents who hire pest control and landscape professionals in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of the SMCWPPP FY 15-16 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

C.9.e.ii.(3) ► 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); **AND/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 SMCWPPP FY 15-16 Annual Report for a summary of outreach to pest control operators and landscapers to reduce pesticide use.

C.9.f ► Track and Participate in Relevant Regulatory Processes

Summarize participation efforts, information submitted, and how regulatory actions were affected; **AND/OR** reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.

Summary:

During FY 15-16, the City of Half Moon Bay participated in regulatory processes related to pesticides through contributions to SMCWPPP, BASMAA and CASQA. For additional information, see the Regional Report submitted by BASMAA on behalf of all MRP Permittees.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ► Trash Load Reduction Summary

For population-based Permittees, provide 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 reduction percentage on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the calculation used to produce the reduction percentage, including whether the 60% trash reduction performance guideline was attained. If not attained, include a discussion of next steps (e.g., development of a detailed plan or report of non-compliance).

Trash Load Reductions	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to Trash Full Capture Systems (as reported C.10.b.i)	80.8%
Percent Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Systems (as reported in C.10.b.ii) ⁶³	0%
Percent Trash Reduction due to Jurisdictional-wide Source Control Actions (as reported in C.10.b.iv) ¹	10.0%
SubTotal for Above Actions	90.8%
Trash Offsets (Optional)	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	0.00%
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	NA
Total (Jurisdictional-wide) % Trash Load Reduction in FY 15-16	90.8%

⁶³ See Appendix 10-1 for changes between 2009 and FY 15-16 in trash generation by TMA as a result of Full Capture Systems and Other Measures.

Discussion of Trash Load Reduction Calculation:

The City attained and reported 72% trash load reduction in its FY 14-15 Annual Report, exceeding the trash load reduction target of 40% by 2014. The reissued MRP contains a revised calculation methodology that eliminates or caps past trash load reduction offsets or credits. Based on the new calculation methodology, as of July 1, 2016, the City has attained a 91% trash load reduction (including trash offsets). The reissued MRP also added a non-mandatory performance guideline of attaining 60% trash reduction by July 1, 2016. Based on the new calculation methodology and the information provided in this Annual Report, the City has achieved the 60% performance guideline.

Non-jurisdictional areas with full-trash capture include:

- 1) Hwy 1 (Caltrans Right-of-Way) from Kelly Avenue to Myrtle Street
- 2) Hwy 92 (Caltrans Right-of-Way) from Main Street to a point approximately 0.4 miles to the east
- 3) Hatch Elementary School
- 4) Cunha Middle School
- 5) Approximately 50% of Half Moon Bay High School (these three schools form the entire Cabrillo Unified School District system)

The City will be utilizing \$7,500 in funds available thru the San Mateo City/ County Association of Governments for installation of an additional eleven inlet screens. The work is scheduled for completion by the end of 2016; one location requires an encroachment permit from Caltrans and second requires a right-of-entry from a property owner, which may delay work at these two locations. When completed, the additional screens will increase the current trash load reduction by 1-17%, dependent on Caltrans and property owner cooperation, as well as treat additional Caltrans non-jurisdictional right-of-way.

C.10.a.iii ► Mandatory Trash Full Capture Systems		
Provide the following:		
1) Total number and types of full capture systems (publicly and privately-owned) installed prior to FY 15-16, during FY 15-16, and to-date, including inlet-based and large flow-through or end-of-pipe systems, and qualifying low impact development (LID) required by permit provision C.3.		
2) Total land area (acres) treated by full capture systems for population-based Permittees and total number of systems for non-population based Permittees compared to the total required by the permit.		
Type of System	# of Systems	Areas Treated (Acres)*
Installed Prior to FY 15-16		
Connector Pipe Screens	57	200.2
Public Hydrodynamic Separator	1	82.6
Private Hydrodynamic Separator	2	14.5
Installed in FY 15-16		
Connector Pipe Screen	0	0.0
Total for all Systems Installed To-date		297.4
Treatment Acreage Required by Permit (Population-based Permittees)		15
Total # of Systems Required by Permit (Non-population-based Permittees)		NA

*Areas treated include jurisdictional and non-jurisdictional lands (e.g., public K-12 schools and colleges, and freeways)

C.10.b.i ► Trash Reduction - Full Capture Systems

Provide the following:

- 1) Jurisdictional-wide trash reduction in FY 15-16 attributable to trash full capture systems implemented in each TMA;
- 2) The total number of full capture systems installed to-date in your jurisdiction;
- 3) Since the effective date of MRP 2.0 (January 1, 2016), the percentage of systems that exhibited significant plugged/blinded screens or were >50% full when inspected or maintained;
- 4) A narrative summary of any maintenance issues and the corrective actions taken to avoid future full capture system performance issues; and
- 5) A certification that each full capture system is operated and maintained to meet the full capture system requirements in the permit.

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full	Summary of Maintenance Issues and Corrective Actions
1	19.0%	57 (There are a total of 60 systems in the City; 58 are owned and maintained by the City, two systems are privately owned and maintained)	Trash screens were serviced by Presidio Systems, Inc., on October 26 and October 27, 2015. Presidio reports that all screens were fully operational when serviced. Presidio indicated that screens were 50-75% full when inspected, but does not give a breakdown beyond that. Approximately 5 cubic yards of material, consisting of both trash and organic debris, was removed. The service contractor will begin utilizing the Programs trash screen inspection form in FY 16-17, which includes tracking of % full.	<p>Trash screens were previously cleaned March 3-5, 2015 and again on October 26-27, 2015. No maintenance has been performed to date during the 2016 Calendar Year. Maintenance is scheduled for October, 2016.</p> <p>Based on observations during the two prior cleanings, semi-annual cleaning is adequate to prevent clogging of the screens. It is noted that no flooding was experienced in the storm drain systems during the extreme El Nino floods of early 2016, which would have been evidence of clogged screens preventing flows.</p> <p>Observations from the October 2016 cleaning will be evaluated to determine if semi-annual cleaning should continue or if a different frequency would be appropriate.</p>
2	0.3%			
3	0.1%			
4	42.5%			
5	0.5%			
Total*	80.8%			

Certification Statement:

The City of Half Moon Bay certifies that a full capture system maintenance and operation program is currently being implemented to maintain all applicable systems in manner that meets the full capture system requirements included in the Permit.

*The Total jurisdiction-wide reduction reported for full capture systems includes 18.4% reduction for treatment of 52.6 acres of non-jurisdictional public K-12, college and university school land areas.

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART A)	
Provide a summary of trash control actions other than full capture systems or jurisdictional source controls that were implemented within each TMA, including the types of actions, levels and areal extent of implementation, and whether actions are new, including initiation date.	
TMA	Summary of Trash Control Actions Other than Full Capture Systems
NA	The City of Half Moon Bay has not implemented new trash control actions for which it will claim additional trash reduction credit. The City has limited staff and has determined that installation and maintenance of full-trash capture measures is preferable to other measures that will require ongoing assessment.

**C.10.b.ii ► Trash Reduction – Other Trash Management Actions
 (PART B)**

Provide the following:

- 1) A summary of the on-land visual assessments in each TMA (or control measure area), including the street miles or acres available for assessment (i.e., those associated with VH, H, or M trash generation areas not treated by full capture systems), the street miles or acres assessed, the % of available street miles or acres assessed, and the average number of assessments conducted per site within the TMA; and
- 2) Percent jurisdictional-wide trash reduction in FY 15-16 attributable to trash management actions other than full capture systems implemented in each TMA.

TMA ID <i>or (as applicable)</i> Control Measure Area	Total Street Miles or Acres Available for Assessment	Summary of On-land Visual Assessments			Jurisdictional-wide Reduction (%)
		Street Miles or Acres Assessed	% of Applicable Street Miles or Acres Assessed	Avg # of Assessments Conducted at Each Site*	
1	0.31	0	0%	0	0%
2	0	NA**	NA**	NA**	NA**
3	0.03	0	0%	0	0%
4	0	NA**	NA**	NA**	NA**
5	0.17	0	0%	0	0%
Total		0	-	-	0%

*Each on-land visual assessment site is approximately 1,000 feet (on average) in length. Average number of assessments represent those conducted in FYs 14-15 and 15-16.

**Entire TMA is treated by Full Capture Systems.

C.10.b.iv ► Trash Reduction – Source Controls					
Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and provide the associated reduction of trash within your jurisdictional area. Also include the total % reduction credit for all source controls up to the maximum 10% allowed by MRP 2.0.					
Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction	Total Reduction Credit (%)
Single Use Bag Ordinance	<p>The City of Half Moon Bay has chosen to participate in the San Mateo County single-use bag ban. The ban went into effect in April 2013.</p> <p>The dominant source of trash targeted by this ordinance are single-use plastic bags</p>	<p>On behalf of all SMCWPPPP Permittees, the County of San Mateo conducted assessments evaluating the effectiveness of the single use plastic bag ban in the municipalities within San Mateo County. Assessments by the County included audits of businesses and surveys of customer bag usage at many businesses in San Mateo County. Additionally, the number of complaints by customers was also tracked by the County. The results of assessment conducted by these cities are assumed to be representative of all SMCWPPPP Permittees, given the consistency between the scope, implementation, and enforcement of the ordinances among the municipalities.</p> <p>The City of Half Moon Bay developed its % trash reduced estimate using the following assumptions:</p> <ol style="list-style-type: none"> 1) Single-use plastic bags comprise 8% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA. 2) 95% of the single use plastic bags distributed in the City of Half Moon Bay are affected by the implementation of the ordinance, based on the County of San Mateo's Environmental Impact Report. 3) Of the bags affected by the ordinance, there are now 90% less bags being distributed, based on customer complaints received by the County of San Mateo's Department of Environmental Health Services. This is a conservative estimate given that in FY13-14 Environmental Services only received complaints about 4 of the over 1900 businesses in San Mateo County affected by the single-use plastic bag ordinances. 	<p>Results of assessments conducted by the County of San Mateo in behalf of all municipalities in San Mateo County indicate that the City's ordinance is effective in reducing the number of single use bags in stormwater discharges. This preliminary conclusion is based on the very small number of complaints receive from customers about businesses in San Mateo County that are continuing to use single use plastic bags after ordinances were adopted. Assuming single use bags are 8% of the trash observed in stormwater discharges, the City of Half Moon Bay concludes that there has been a 7% (i.e., 8% x 86% effectiveness in reducing bags) reduction in trash in stormwater discharges as a result of the City's ordinance</p>	7%	10% (Maximum)

C.10.b.iv ► Trash Reduction – Source Controls					
Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and provide the associated reduction of trash within your jurisdictional area. Also include the total % reduction credit for all source controls up to the maximum 10% allowed by MRP 2.0.					
<p>Expanded Polystyrene Food Service Ware Ordinance</p>	<p>The City adopted a ban on food service polystyrene foam containers in June 2011. The ban went into effect in August 2011. Enforcement is provided by the San Mateo County Division of Environmental Health in conjunction with the MRP Section C.4 business inspection program.</p> <p>The dominant source of trash targeted by this ordinance are EPS food ware containers.</p>	<p>Although the City has adopted and implemented an ordinance prohibiting the distribution of EPS food ware by food vendors, evaluations of the effectiveness of the ordinance have not been conducted. For the purpose of estimating trash reductions in stormwater discharges associated with the ordinance, the results of assessment conducted by the Cities of Los Altos and Palo Alto were used to represent the reduction in trash associated with the City's ordinance. Assessments conducted by these cities were conducted prior to and following the effective date of their ordinances, and include audits of businesses and/or assessments of EPS food ware observed on streets, storm drains, and local creeks. The results of assessments conducted by these cities are assumed to be representative of the effectiveness of the City's ordinance because the implementation (including enforcement) of the City's ordinance is similar to the City of Los Altos' and Palo Alto's.</p> <p>The City of Half Moon Bay developed its %t trash reduced estimate using the following assumptions:</p> <ol style="list-style-type: none"> 1) EPS food ware comprises 6% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA. 2) 80% EPS food ware distributed by food vendors or sold via stores in the City of Half Moon Bay is affected by the implementation of the ordinance. <p>There is now 95% less EPS food ware being distributed, sold, and/ or observed in the environment, based on assessments conducted by the City of Palo Alto and the City of Los Altos.</p>	<p>Results of assessments that are representative of the City of Half Moon Bay, but were conducted by the Cities of Los Altos and Palo Alto, indicate the City of Half Moon Bay's ordinance is effective in reducing EPS food ware in stormwater discharges. This conclusion is based on the following assessment result – an average of 95% of businesses affected by the ordinance are no longer distributing EPS food ware post-ordinance. Based on these results, the estimated average reduction of EPS food ware in stormwater discharges is 90%. Assuming EPS food ware is 6% of the trash observed in stormwater discharges, the City of Half Moon Bay concludes that there has been a 5% (i.e., 6% x 90% reduction in trash in stormwater discharges as a result of the ordinance</p>	<p>5%</p>	

C.10.c ► Trash Hot Spot Cleanups

Provide the FY 15-16 cleanup date and volume of trash removed during each MRP-required Trash Hot Spot cleanup during each fiscal year listed. Indicate whether the site was a new site in FY 15-16.

Trash Hot Spot	New Site in FY 15-16 (Y/N)	FY 15-16 Cleanup Date(s)	Volume of Trash Removed (cubic yards)				
			FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
HMB01	N	9/2/16	2.5	4.0	5.9	2.6	5.0

C.10.d ► Long-Term Trash Load Reduction Plan	
Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), trash generation maps, control measures, or time schedules identified in your plan. Indicate whether your trash generation map was revised and is attached to your Annual Report.	
Description of Significant Revision	Associated TMA
In FY 15-16, consistent with all MRP Permittees, all public K-12 schools, college and university parcels were made non-jurisdictional on the City's baseline trash generation maps. Under California Government Code Sections 4450 through 4461, the construction, modification, or alternation of facilities and/or structures on these parcels are under the jurisdiction of the California Division of State Architect and not the City. The public right-of-way (e.g., streets and sidewalks) surrounding these parcels remain as jurisdictional on the City's baseline trash generation maps. The City's revised baseline trash generation map is included as Appendix 10-2.	All applicable
In FY 14-15 and FY 15-16 the City conducted a preliminary analysis of trash generation in all TMAs that was originally depicted on Trash Generation Maps included in our Long-Term Trash Load Reduction Plan. The City used a combination of desktop evaluations and field observations. Google Street View applications and On-land Visual Assessments were used to reevaluate baseline trash generation. Trash generation categories were reclassified for areas where information indicated that errors had occurred during initial/preliminary trash generation category assignments. Reclassifications to trash generation categories were used for the purposes of calculating baseline (2009) trash generation included in this report (i.e., as an input parameter to the formula used to calculate load reductions reported in section C.10.d). A copy of the current trash generator map (dated July 11, 2016) showing these changes is attached.	1D, 1E, 2A, 2D, 3A, 3C, 3D, 3E, and 5
Adjust portion of Subarea 3A (High School) into Subarea 4A (Current Full Capture Treatment). Based on field inspection in December 2014, a portion of the high school drains to an existing HDS unit in Subarea 4A.	3 & 4
Adjust portion of TMA 5 into Subarea 4B. Based on December 2014 field review, this area drains to a CPS screen in Subarea 4B.	4 & 5
Entire Subarea 1F now has full trash capture (New CPS screen #1 installed December 2014).	1
Entire Subarea 1C now has full trash capture (New CPS screens #2 and #3 installed December 2014).	1
Portion of Subarea 1B now has full trash capture (New CPS screens #7 and #8 installed December 2014).	1
Portion of Subarea 1B now has full trash capture (New CPS screens #9 and #10 installed December 2014).	1
Portion of Subarea 1B <u>and all of Subarea 2A (Park)</u> now have full trash capture (New CPS screen #11 installed December 2014).	1

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C.10 – Trash Load Reduction

Portion of Subarea 1A now has full trash capture (New CPS screen #12 installed December 2014).	1
Portion of TMA 5 now has full trash capture (New CPS screen #13 installed December 2014).	5
Portion of Subarea 1-E now has full trash capture (New CPS screens #18, 19, 20, 21, and 22 installed December 2014).	1
Portions of TMA 5 and <u>all of Subarea 2B (park)</u> now have full trash capture (New CPS screen #24 installed December 2014).	2 & 5
Portion of TMA 5 now has full trash capture (New CPS screens #25 and #26 installed December 2014).	5
Portion of TMA 5 now has full trash capture (New CPS screen #27 installed December 2014).	5

C.10.e. ► Trash Reduction Offsets (Optional)			
Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 15-16. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the <u>Water Board Executive Officer</u> , also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.			
Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 15-16	Offset (Jurisdiction-wide Reduction %)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	The City of Half Moon Bay continues to work with the Coastside Land Trust on creek and beach cleanups within the City limits; however, the volumes of trash removed are not readily available and no credit will be reduction offsets will be claimed for this effort	NA	0%
Direct Trash Discharge Controls (Max 15% Offset)	Not Applicable	NA	NA

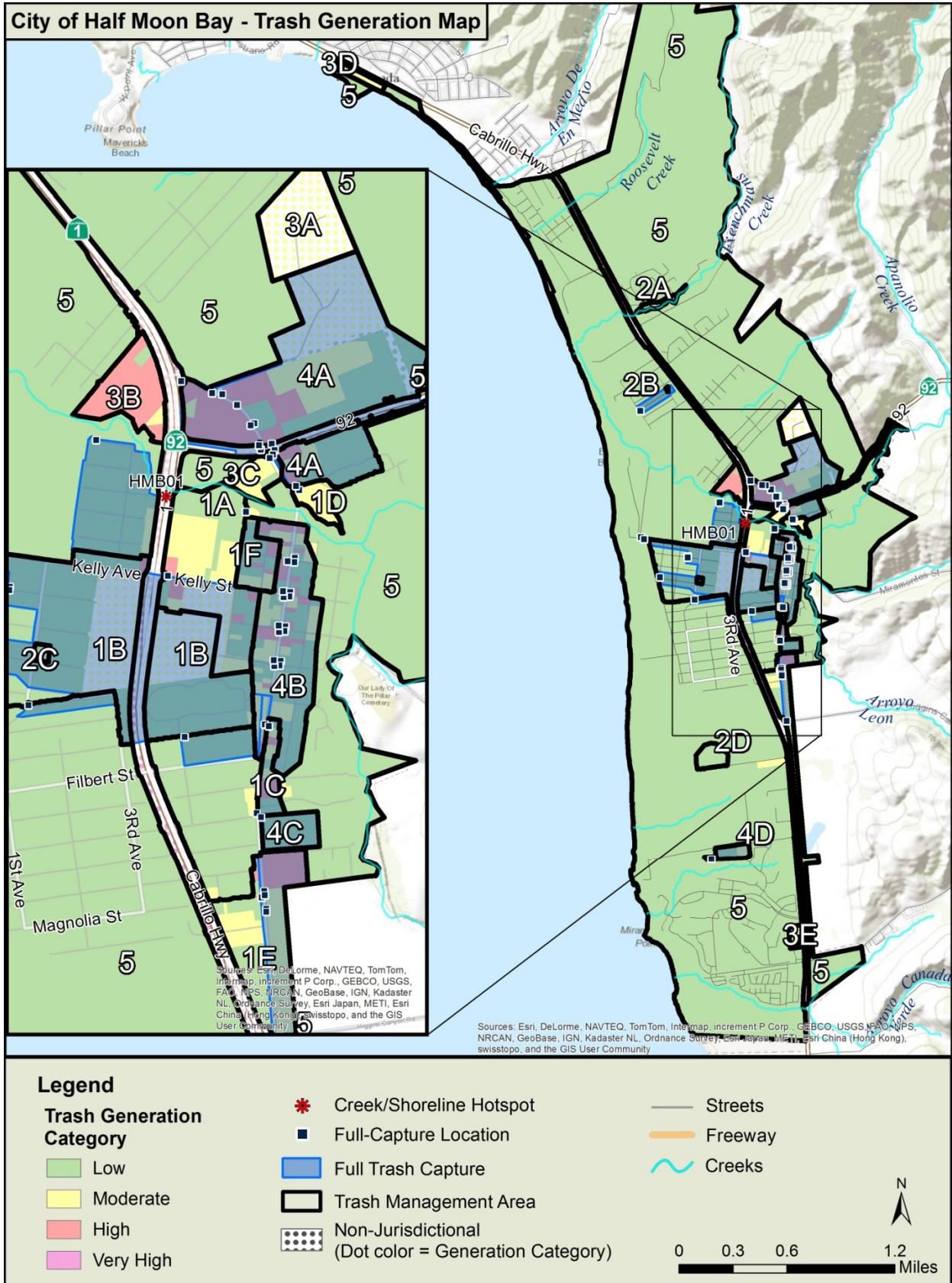
Appendix 10-1. Baseline trash generation and areas addressed by full capture systems and other control measures in Fiscal Year 15-16.

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems and Other Control Measures					Jurisdiction-wide Reduction via Other Control Measures (%)	Jurisdiction-wide Reduction via Full Capture AND Other Control Measures (%)
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total		
1	111	33	10	0	154	136	17	1	0	154	19.0%	136	17	1	0	154	0.0%	19.0%
2	17	1	0	0	18	18	0	0	0	18	0.3%	18	0	0	0	18	0.0%	0.3%
3	1	17	12	1	31	1	17	12	1	31	0.1%	1	17	12	1	31	0.0%	0.1%
4	52	27	22	0	102	101	0	0	0	102	42.5%	101	0	0	0	102	0.0%	42.5%
5	3510	8	0	0	3518	3511	7	0	0	3518	0.5%	3511	7	0	0	3518	0.0%	0.5%
Totals	3692	86	44	1	3822	3768	40	13	1	3822	80.8%*	3768	40	13	1	3822	0.0%	80.8%*

*The jurisdiction-wide reduction reported for full capture systems includes 18.4% reduction for treatment of 52.6 acres of non-jurisdictional public K-12, college and university school land areas.

Appendix 10-2

Revised Baseline Trash Generation Map and Areas Currently Addressed by Full Capture Systems



Section 11 - Provision C.11 Mercury Controls

- C.11.a ▶ Implement Control Measures to Achieve Mercury Load Reductions**
- C.11.b ▶ Assess Mercury Load Reductions from Stormwater**
- C.11.c ▶ Plan and Implement Green Infrastructure to Reduce Mercury Loads**
- C.11.d ▶ Prepare Implementation Plan and Schedule to Achieve TMDL Allocations**
- C.11.e ▶ Implement a Risk Reduction Program**

Summary:

A summary of accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of SMCWPPP's FY 15-16 Annual Report.

Section 12 - Provision C.12 PCBs Controls

- C.12.a ▶ Implement Control Measures to Achieve PCBs Load Reductions**
- C.12.b ▶ Assess PCBs Load Reductions from Stormwater**
- C.12.c ▶ Plan and Implement Green Infrastructure to Reduce PCBs Loads**
- C.12.d ▶ Prepare Implementation Plan and Schedule to Achieve TMDL Allocations**
- C.12.e ▶ Evaluate PCBs Presence in Caulks/Sealants Used in Storm Drain or Roadway Infrastructure in Public Rights-of-Way**
- C.12.f ▶ Manage PCB-Containing Materials and Wastes During Building Demolition Activities So That PCBs Do Not Enter Municipal Storm Drains**
- C.12.g ▶ Fate and Transport Study of PCBs: Urban Runoff Impact on San Francisco Bay Margins**
- C.12.h ▶ Implement a Risk Reduction Program**

Summary:

A summary of accomplishments for these sub-provisions are included within the C.12 PCBs Controls section of SMCWPPP's FY 15-16 Annual Report.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii ► Manage Waste Generated from Cleaning and Treating of Copper Architectural Features			
(For FY 15-16 Annual Report only) Do you have adequate legal authority to prohibit the discharge of wastewater to storm drains generated from the installation, cleaning, treating, and washing of copper architectural features, including copper roofs?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No
(For FY 15-16 Annual Report only) Provide a summary of how copper architectural features are addressed through the issuance of building permits.			
Summary: The City of Half Moon Bay 1) attaches the SMCWPPP “Requirements for Architectural Copper” Fact Sheet (www.flowstobay.org/files/newdevelopment/flyersfactsheets/ArchitecturalcopperBMPs.pdf) to building permit applications for roof replacement or new buildings, which provides information about how to manage waste generated from cleaning and treating (patination) of copper architectural features, including copper roofs, during construction and post-construction; 2) reviews building permit applications specifically for the use of copper architectural features, and provides guidance on the installation and maintenance of these features; and 3) uses the SMCWPPP C.3 and C.6 Development Review checklist which includes source control measures for architectural coppers. The checklist is a required submittal for project approvals, and architectural copper BMPs are made part of the project conditions of approval where applicable.			
Town’s Engineering and Building Department Staff also regularly attends CalBIG meetings for training and updates on the requirements of architectural copper and copper piping. The CalBIG meetings occur monthly, but there is an annual meeting focused on stormwater.			
(FY 15-16 Annual Report and each Annual Report thereafter) Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.			
Summary: During construction, municipal construction stormwater inspectors are responsible for identifying copper architectural features and whether appropriate BMPs are implemented. Any issues noted are documented and enforcement actions recorded in the Provision C.6 inspection records. Post-construction municipal illicit discharge inspectors are responsible for responding to, investigating and identifying illegal discharge of wash water from washing copper architectural features. Any enforcement actions or reported discharges are recorded in the Provision C.5 inspection records. The SMCWPPP “Requirements for Architectural Copper” Fact Sheet is made available to the public, construction inspectors and illicit discharge inspectors on the SMCWPPP website (www.flowstobay.org/files/newdevelopment/flyersfactsheets/ArchitecturalcopperBMPs.pdf). Inspectors are made aware of the concerns with copper architectural features at SMCWPPP Training Workshops and internal municipal trainings.			

C.13.b.iii ► Manage Discharges from Pools, Spas, and Fountains that Contain Copper-Based Chemicals

(For FY 15-16 Annual Report only) Do you have adequate legal authority to prohibit the discharge to storm drains of water containing copper-based chemicals from pools, spas, and fountains?

X	Yes		No
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(For FY 15-16 Annual Report only) Provide a summary of how copper-containing discharges from pools, spas, and fountains are addressed to accomplish the prohibition of the discharge.

Summary:
 The City of Half Moon Bay responds to discharges from pools through the illicit discharge detection and elimination program and requires all regulated projects to discharge pools, spas, and fountain water to the sanitary sewer.

(FY 15-16 Annual Report and each Annual Report thereafter) Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.

Summary:
 Upon review of our Provision C.5 illicit discharge inspection data we found no enforcement activities related to copper-containing discharges from pools, spas, and fountains.

C.13.c.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:
 The City does not have industry that utilizes copper or would be a source of industrial copper waste.

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

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

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

- Promote conservation programs
- Promote outreach for less toxic pest control and landscape management
- Promote use of drought tolerant and native vegetation
- Promote outreach messages to encourage appropriate watering/irrigation practices
- Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.

Summary:

Implementation of BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation is done in accordance with the City's Municipal Code Chapter 13.04 – Water Conservation in Landscaping Regulations. Water conservation and landscape management is also addressed through the City's land use requirements.

See Section C.9.e.ii of SMCWPPP's FY 15-16 Annual Report for a description of SMCWPPP's activities related to point-of-purchase outreach which promotes less toxic pest control and landscape management. See Section C.7 of SMCWPPP's FY 15-16 Annual Report for a description of outreach conducted to promote water conservation programs, such as promoting rain barrel use. Information on water conservation, less-toxic pest control and appropriate watering/irrigation practices is also posted on SMCWPPP's website (www.flowstobay.org).

APPENDIX 4-1
Potential Facilities List

Business Name (DBA)	Business Address	Business Type	SIC Description	Latest Priority
7 ELEVEN	196 SAN MATEO RD	RETAIL - FOOD STORE	Grocery Stores	M
A TO Z AUTOS	210 MAIN ST STE 2C	RETAIL - AUTO/GAS	Automotive Dealers, Not Elsewhere Classified	L
ACTION TOWING AND ROAD SERVICE INC	183 HARVARD AVE	TRANSPORATION SERVICES	Towing Service, Automotive	L
AJS COFFEE INC	198 SAN MATEO RD	RETAIL - FOOD & DRINK	Coffee Shops	M
ALENA JEAN	340 PURISSIMA ST	RETAIL - GIFT & GIFT BASKETS	Florists\retail	M
ALL ANIMALS MOBILE VETERINARY	1600 CABRILLO HWY S	SERVICE - VETERINARY SERVICE	Veterinarians For Pets And Other Animal Specialties	L
AMERICAS BEST VALUE INN & SUITES	3020 CABRILLO HWY N	GENERAL BUSINESS	Hotels And Motels	M
ANDREINI BROTHERS INC	151 MAIN ST	CONTRACTOR - (BASED OUTSIDE)	Excavation Work	M
ANDREOTTI FAMILY FARM	329 KELLY AVE	AGRICULTURAL SERVICES	Farm-product Raw Materials, Not Elsewhere Classified	M
Andreotti Family Farm	800 CABRILLO HWY N	WHLSLE - NONDURABLE GOODS	Farm-product Raw Materials, Not Elsewhere Classified	L
ANDREOTTI NURSERY	131 KELLY AVE	AGRICULTURAL SERVICES	Nursery Stock, Growing Of	M
ANGELOS MUFFLER & AUTO REPAIR	332 PURISSIMA ST	SERVICE - AUTO REPAIR	Automotive Repair Shops, Not Elsewhere Classified	M
ARK GRILL	724 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
B K MOTORS INC	108&112A N CABRILLO HWY	OTHER BUSINESS	Automobiles, Used Cars Only\retail	H
BANGKOK HOUSE	20 STONE PINE RD B	RETAIL - FOOD & DRINK	Restaurants	M
BARTERRA	643 MAIN ST	RETAIL - FOOD & DRINK	Wine Bars	M
BASKIN ROBBINS	44 CABRILLO HWY N	RETAIL - FOOD STORE	Eating Places	M
BAY CHEVRON	375 CABRILLO HWY N	RETAIL - AUTO/GAS	Gasoline And Oil\retail	M
BAY CITY FLOWER CO	2265 CABRILLO HWY S	AGRICULTURAL SERVICES	Flower And Field Bulbs\wholesale	H
BEACH HOUSE LLC	4100 CABRILLO HWY N	SERVICE - LODGING	Hotels And Motels	L
BIG CREEK LUMBER CO	111 MAIN ST	RETAIL - MISCELLANEOUS		M
BIKE WORKS THE	520 KELLY ST G	RETAIL - MISCELLANEOUS	Bicycle And Bicycle Parts Dealers, Except Motorized\retail	H
BLUE WHITE CLEANERS	101 MAIN ST F	SERVICE - PERSONAL	Laundry And Garment Services, Not Elsewhere Classified	H
BOBS CAR WASH L L C	240 MAIN ST	SERVICE - MISCELLANEOUS	Carwashes	M
BRANSCOMB FARMS L L C	780 FRENCHMANS CREEK	SERVICE - VETERINARY SERVICE	Breeding Of Livestock	M
BRAZZLE BERRY	80 CABRILLO HWY N M	RETAIL - FOOD & DRINK	Ice Cream And Frozen Desserts	M
BURGER KING 5378	30 CABRILLO HWY N	RETAIL - FOOD STORE	Fast Food Restaurants	M
BW HALF MOON BAY LODGE 325	2400 CABRILLO HWY S	HOTEL / MOTEL	Hotels And Motels	M
CABRILLO UNIFIED SCHOOL DISTRICT	498 KELLY AVE	EXEMPT	Schools And Educational Services, Not Elsewhere Classified	M
CAFE CAPISTRANO	523 CHURCH ST	RETAIL - FOOD & DRINK	Restaurants	M
CAFE SOCIETY	522 MAIN ST	RETAIL - FOOD & DRINK	Cafes	M
CAMERONS RESTAURANT & PUB	1410 CABRILLO HWY S	RETAIL - FOOD & DRINK	Restaurants	M
CETRELLA	845 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
CHEF LEE	80 CABRILLO HWY N U	RETAIL - FOOD & DRINK		L
CHEZ SHEA	408 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
CHINA HOUSE	20 STONE PINE RD C	RETAIL - FOOD & DRINK	Restaurants	M
CHINA KITCHEN	80 CABRILLO HWY N STE L	RETAIL - FOOD & DRINK	Restaurants, Carry-out	H
COAST TRANSMISSIONS	141 MAIN ST	SERVICE - AUTO REPAIR	Automotive Transmission Repair Shops	M
COASTSIDE CARPET CLEANER	145 MAIN ST	SERVICE - PROFESSIONAL	Carpet And Upholstery Cleaning	L
COASTSIDE FARM	1101 CABRILLO HWY N	OTHER BUSINESS	General Farms, Primarily Crop	M
COASTSIDE INN	230 CABRILLO HWY S	SERVICE - LODGING	Hotels And Motels	L
COASTSIDE STATE PARKS ASSOCIATION	95 KELLY AVE	EXEMPT	Book Stores	M
COMFORT INN	2930 CABRILLO HWY N	SERVICE - LODGING	Hotels And Motels	M
COWBOY FISHING	730 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
CROWN CLEANERS	210 SAN MATEO RD 109	SERVICE - MISCELLANEOUS	Laundry And Garment Services, Not Elsewhere Classified	M

CUNHA GROCERY INC	448 MAIN ST	RETAIL - FOOD STORE	Grocery Stores	M
CUNHA INTERMEDIATE SCHOOL	600 CHURCH ST	EXEMPT	Elementary And Secondary Schools	M
Curley & Reds Autobody & Towing	215 SAN MATEO RD	SERVICE - AUTO REPAIR	Automotive Services, Except Repair And Carwashes	M
CVS/PHARMACY #9216	60 CABRILLO HWY N	RETAIL - GENERAL MDSE	Miscellaneous Retail Stores, Not Elsewhere Classified	M
D R W MOTORSPORT	143 MAIN ST	SERVICE - AUTO REPAIR	General Automotive Repair Shops	M
DADDY OS	225 CABRILLO HWY S -CAE	RETAIL - FOOD & DRINK	Restaurants, Carry-out	M
DAICHI SUSHI	150 SAN MATEO RD	RETAIL - FOOD STORE	Restaurants	M
DAYLIGHT NURSERY/DAYLIGHT FARMS	925 MIRAMONTES ST	FARMERS MARKET	Flowers, Nursery Stock, And Florists' Supplies	M
DEL MAR EQUESTRIAN CENTER	1820 CABRILLO HWY N	SERVICE - RECREATION	Horses And Other Equines	M
ENSO	131 KELLY AVE	RETAIL - MISCELLANEOUS	Miscellaneous Retail Stores, Not Elsewhere Classified	H
ENTERPRISE RENT A CAR	213 SAN MATEO RD 112	RETAIL - AUTO/GAS	Automobile Rental With Drivers	M
F & J KITCHEN INC	3048 CABRILLO HWY N	RETAIL - FOOD & DRINK	Restaurants	M
FABBRI HOME & GARDEN	501 SAN MATEO RD 5B	RETAIL - BLDG/GARDEN SUPPL	Garden Supplies And Tools\retail	L
FARMER JOHNS PUMPKIN FARM	850 CABRILLO HWY N	PUMPKIN PATCH	Crops, Riding	M
FIREWOOD FARMS	551 SAN MATEO RD	RETAIL - MISCELLANEOUS	Firewood And Fuel Wood Containing Fuel Binder	L
FLORA FARM	340 PURISSIMA ST	SERVICE - LANDSCAPE & GARD	Landscape Planning	L
FLYING FISH GRILL	211 SAN MATEO RD	RETAIL - FOOD & DRINK	Restaurants, Fast Food	M
GARDEN APOTHECARY	329 MAIN ST	RETAIL - MISCELLANEOUS	Beauty Parlor Equipment And Supplies\wholesale	M
GHERKINS SANDWICH SHOP	328 MAIN ST #101	RETAIL - FOOD & DRINK	Restaurants, Carry-out	M
GINOS AUTO BODY & PAINT	334 PURISSIMA ST	SERVICE - AUTO REPAIR	Top, Body, And Upholstery Repair Shops And Paint Shops	M
GRANOLA'S COFFEE HOUSE	116 CABRILLO HWY N	RETAIL - FOOD & DRINK	Cafes	M
GREENHOUSE CLEANERS	80 CABRILLO HWY N A	SERVICE - BUSINESS	Laundry And Garment Services, Not Elsewhere Classified	M
H M B LUCKY 99 CENT & UP STORE INC	160 SAN MATEO RD C	RETAIL - GENERAL MDSE	Miscellaneous Retail Stores, Not Elsewhere Classified	M
HALF MOON BAY ALLIANCE	120 SAN MATEO RD	RETAIL - AUTO/GAS	Gasoline Service Stations	M
HALF MOON BAY AUTO REPAIR INC	149 MAIN ST	SERVICE - AUTO REPAIR	Automotive Repair Shops, General	M
HALF MOON BAY BAKERY	514 MAIN ST	WHLSLE - NONDURABLE GOOD	Retail Bakeries	M
HALF MOON BAY BUILDING & GARDEN	119 MAIN ST	RETAIL - BLDG/GARDEN SUPPL	Garden Supplies And Tools\retail	H
HALF MOON BAY CARPET & UPHOLSTERY	460 FILBERT ST	SERVICE - BUSINESS	Carpet And Upholstery Cleaning	L
HALF MOON BAY COFFEE COMPANY	20 STONE PINE RD A	RETAIL - FOOD & DRINK	Restaurants	M
HALF MOON BAY FEED & FUEL	331 MAIN ST	RETAIL - MISCELLANEOUS	Miscellaneous Retail Stores, Not Elsewhere Classified	M
HALF MOON BAY FISH MARKET INC	99 SAN MATEO RD	RETAIL - FOOD STORE	Meat And Fish (seafood) Markets, Including Freezer Provisioners	M
HALF MOON BAY GOLF LINKS	2 MIRAMONTES POINT RD	SERVICE - RECREATION	Public Golf Courses	M
HALF MOON BAY HIGH SCHOOL	1 LEWIS FOSTER DR	EXEMPT	High Schools	M
HALF MOON BAY INN INC	401 MAIN ST	SERVICE - LODGING	Hotels And Motels	L
HALF MOON BAY JOES	2380 CABRILLO HWY S	RETAIL - FOOD & DRINK	Restaurants	M
HALF MOON BAY ROOFING	239 SAN MATEO RD	CONTRACTOR - SPEC TRADE	Roofing Work, Including Repairing-contractors	L
HALF MOON BAY SHELL SERVICE	201 SAN MATEO RD	RETAIL - AUTO/GAS	Gasoline Service Stations	M
HALF MOON BAY WASABI CO	2351 CABRILLO HWY N	RETAIL - FOOD STORE	Greenhouses For Food Crops	M
HAPPY TACO TAQUERIA	184 SAN MATEO RD	RETAIL - FOOD & DRINK	Restaurants	M
HASSETT HARDWARE	111 MAIN ST	RETAIL - MISCELLANEOUS	Hardware Stores	M
HATCH ELEMENTARY SCHOOL	490 MIRAMONTES AVE	EXEMPT	Elementary And Secondary Schools	M
HILLTOP MARKET	251 SAN MATEO RD	RETAIL - FOOD STORE		M
ITS ITALIA PIZZERIA INC	401 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
JAMES FORD INC	100 SEYMOUR ST	RETAIL - AUTO/GAS	Automobiles, New And Used\retail	M
JERSEY JOES COASTSIDE	40 STONE PINE RD K	RETAIL - FOOD & DRINK	Restaurants	M
M COFFEE	522 MAIN ST	RETAIL - FOOD & DRINK	Coffee Shops	L
M V TRANSPORTATION INC	121 MAIN ST	SERVICE - MISCELLANEOUS	Transportation Services, Not Elsewhere Classified	M

MAIN STREET GRILL	547 MAIN ST	RETAIL - FOOD & DRINK	Eating Places	M
MC DONALDS HALF MOON BAY	100 CABRILLO HWY N	RETAIL - FOOD STORE	Restaurants, Fast Food	M
MCGREGER CONSTRUCTION	168 W POINT AVE	CONTRACTOR - GEN'L BLDG	General Contractors-single-family Houses	L
MERCADO GUADALAJARA	225 CABRILLO HWY S 106C	RETAIL - FOOD STORE	Food Markets\retail	M
MERCADO MI FAMILIA INCORPORATED	182 SAN MATEO RD	RETAIL - FOOD STORE	Grocery Stores	M
MILL ROSE BED & BREAKFAST	615 MILL ST	SERVICE - LODGING	Bed And Breakfast Inns	M
MIRAMAR PLUMBING INC	123 MAIN ST	CONTRACTOR - SPEC TRADE	Plumbing And Heating-contractors	L
MOONSIDE BAKERY & CAFE INC	604 MAIN ST	RETAIL - FOOD & DRINK	Retail Bakeries	M
MORE FOR LESS	501 KELLY ST	RETAIL - AUTO/GAS	Convenience Food Stores\retail	M
MULLINS BAR & GRILL	2450 CABRILLO HWY S STI	RETAIL - FOOD & DRINK	Restaurants	L
MULLINS BAR & GRILL	2 MIRAMONTES POINT RD	RETAIL - FOOD & DRINK	Restaurants	M
NANOS YOGURT SHACK	523 MAIN ST	RETAIL - FOOD & DRINK	Yogurt, Frozen	M
NANTUCKET WHALE INN	779 MAIN ST	SERVICE - LODGING		H
NAOMI SUSHI	70 CABRILLO HWY N 308	RETAIL - FOOD STORE	Food Markets\retail	H
Nepalese Food	20 STONE PINE RD	RETAIL - FOOD & DRINK	Restaurants	L
NEW LEAF COMMUNITY MARKETS INC	150 SAN MATEO RD	RETAIL - FOOD STORE	Grocery Stores, With Or Without Fresh Meat\retail	M
OCEAN VIEW DRIVING RANGE	201 KELLY AVE	SERVICE - RECREATION	Golf Driving Ranges	M
ORLANDOS PLACITA MARKET	500 PURISSIMA ST B	RETAIL - FOOD STORE	Grocery Stores	M
PACIFIC BELL TELEPHONE COMPANY	525 KELLY ST	COMMUNICATION	Telephone Communications, Except Radiotelephone	M
PALLADINO PAINTING INC	102 PRINCETON AVE O	CONTRACTOR - SPEC TRADE	Painting And Paper Hanging	M
PASTA MOON INC	315 MAIN ST	RETAIL - FOOD STORE	Restaurants	M
PASTORINO HAY & RANCH SUPPLY INC	921 MIRAMONTES ST	RETAIL - MISCELLANEOUS	Hay Farms	L
PAULOS AUTO CARE	129 MAIN ST	SERVICE - AUTO REPAIR	Automobile Service Stations\retail	M
PEETS COFFEE AND TEA	142 SAN MATEO RD	RETAIL - FOOD & DRINK	Coffee Stores\retail	M
PHILS H M B TIRE & AUTO CARE	422 PURISSIMA ST	SERVICE - AUTO REPAIR	Automotive Repair Shops, Not Elsewhere Classified	M
PIZZERIA WEST	20 STONE PINE RD D	RETAIL - FOOD & DRINK		M
PLUM TREE COURT 1 2 3	642 JOHNSTON ST	SERVICE - LODGING	Hotels And Motels	L
PREMIER TERMITE FLOORS	116 CABRILLO HWY N	CONTRACTOR - SPEC TRADE	Special Trade Contractors, Not Elsewhere Classified	L
PRINCETON MACHINE SHOP	178 CORNELL AVE	SERVICE - MISCELLANEOUS	Machine Shops, Jobbing And Repair	L
PROFESSIONAL AUTO CARE	125 MAIN ST A	SERVICE - AUTO REPAIR	Automotive Repair Shops, General	M
R G MASONRY INC	11831 SAN MATEO RD	CONTRACTOR - SPEC TRADE	Masonry, Stone Setting, And Other Stone Work	L
RAMANS COFFEE AND CHAI	101 MAIN ST A	RETAIL - FOOD & DRINK	Coffee Stores\retail	M
RICE TRUCKING SOIL FARM INC	2119 CABRILLO HWY S	RETAIL - BLDG/GARDEN SUPPL	Sand And Gravel Dealers\retail	M
RITE AID 5885	170 SAN MATEO RD	RETAIL - GENERAL MDSE	Variety Stores	M
RITZ CARLTON HOTEL	1 MIRAMONTES POINT RD	SERVICE - LODGING	Hotels And Motels	M
ROCKET FARMS INC	2651 CABRILLO HWY N	WHLSLE - NONDURABLE GOOD	Nursery Stock\wholesale	M
ROMESCO BISTRO AND TAPAS	225 CABRILLO HWY S 102C	RETAIL - FOOD & DRINK		M
ROUND TABLE PIZZA	50 N CABRILLO HIGHWAY :	RETAIL - FOOD & DRINK	Pizza Parlors	M
SAFEWAY STORES INC 308	70 CABRILLO HWY N	RETAIL - FOOD STORE	Grocery Stores	M
SAMS CHOWDER HOUSE	4210 CABRILLO HWY N	RETAIL - FOOD & DRINK	Restaurants	H
SAMS COFFEE SHOP	210 SAN MATEO RD	RETAIL - FOOD & DRINK	Coffee Shops	M
SAN BENITO HOUSE	356 MAIN ST	SERVICE - LODGING	Hotels And Motels	M
SCHICKENBERG NURSERY	2351 CABRILLO HWY N	WHLSLE - NONDURABLE GOOD	Nursery Stock\wholesale	L
SEA CREST SCHOOL	901 ARNOLD WAY	SERVICE - EDUCATION	Schools And Educational Services, Not Elsewhere Classified	L
SENIOR COASTSIDERS	925 MAIN ST	EXEMPT	Senior Center	M
SEWER AUTHORITY MID COASTSIDE	1000 CABRILLO HWY N	EXEMPT		M
SHEET METAL DESIGN	514 KELLY ST	CONTRACTOR - SPEC TRADE	Special Trade Contractors, Not Elsewhere Classified	M

SHIKI JAPANESE CUISINE	20 STONE PINE RD E	RETAIL - FOOD & DRINK	Restaurants	M
SPANISHTOWN MEXICAN REST	515 CHURCH ST	RETAIL - FOOD & DRINK	Restaurants	M
SPICE ME	500 PURISSIMA ST C	RETAIL - FOOD & DRINK	Restaurants	M
STARBUCKS COFFEE #6631	80 CABRILLO HWY N Q	RETAIL - FOOD & DRINK	Coffee Shops	L
STEVEN MELO INC	450 WAVECREST RD	SERVICE - LANDSCAPE & GARD	Lawn And Garden Services	M
STOLOSKI & GONZALEZ INC	2750 N CABRILLO HWY	FRUIT-VEGETABLE-XMAS TREE	Vegetable Farms	M
STRAW HAT PIZZA	186 SAN MATEO RD	RETAIL - FOOD & DRINK	Restaurants, Carry-out	M
SUBWAY #10252	80 CABRILLO HWY N STE \	RETAIL - FOOD & DRINK	Fast Food Restaurants	M
SUNRISE PAINTING INCORPORATED	525 SAN MATEO RD	CONTRACTOR - SPEC TRADE	Paint And Wallpaper Stripping-contractors	L
SUNSHINE DONUTS	80 CABRILLO HWY N P	RETAIL - FOOD STORE	Doughnuts, Except Frozen	M
SUSHI MAIN STREET	696 MILL ST	RETAIL - FOOD & DRINK	Restaurants	M
SUSHI MAIN STREET SAKE BAR	400 MAIN ST	RETAIL - FOOD & DRINK	Restaurants	M
TACO BELL #30800	146 SAN MATEO RD	RETAIL - FOOD & DRINK	Fast Food Restaurants	M
TAQUERIA LA MEXICANA	250 CABRILLO HWY S	RETAIL - FOOD & DRINK	Restaurants, Fast Food	M
TAQUERIA LA MORDIDA	80 CABRILLO HWY N	RETAIL - FOOD & DRINK		M
THE BARN	3068 CABRILLO HWY N	RETAIL - FOOD & DRINK	Hamburger Stands	M
THE FISHERMANS TAVERNA	99 SAN MATEO RD	RETAIL - FOOD & DRINK		M
THE HALF MOON BAY WINE & CHEESE CO	421 MAIN ST	RETAIL - FOOD & DRINK	Cheese Stores\retail	M
THE OLIVE CRUSH	300 MAIN ST 2	RETAIL - FOOD STORE		M
THREE AMIGOS	270 CABRILLO HWY S	RETAIL - FOOD & DRINK	Restaurants, Fast Food	M
TOKENZ MAIN STREET	524 MAIN ST	RETAIL - FOOD & DRINK	Miscellaneous Retail Stores, Not Elsewhere Classified	L
TOM & PETES PRODUCE	270 MAIN ST	RETAIL - FOOD STORE	Fruit And Vegetable Markets	M
VIA UNO L L C	2810 CABRILLO HWY N	RETAIL - FOOD & DRINK		M
WHITE ELEPHANT HMB	50 CABRILLO HWY N B-3	RETAIL - FOOD & DRINK	Restaurants	M
ZABALLA HOUSE	324 MAIN ST	SERVICE - LODGING	Hotels And Motels	H
BOBS FRESH VEGETABLES	2900 HWY 1			M
SMC SHERIFF HALF MOON BAY SUB STAT	535 KELLY			M
COASTSIDE FIRE DISTRICT, HMB	1191 MAIN ST			M
NUNES WATER TREATMENT PLANT	500 LEWIS FOSTER DR			M
MCCAON NURSERY	1450 CABRILLO HWY S			M
CALTRANS - HALF MOON BAY	2203 CABRILLO			M
PG&E: HALF MOON BAY SUBSTATION	175 MAIN ST			M
AZEVEDO FEED COMPANY	1815 MIRAMONTES POINT			M