City of Palo Alto
Public Works Department

September 15, 2011

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 Palo Alto FY 2010-2011 Annual Report

Dear Mr. Wolfe:

This letter and Annual Report with attachments is submitted by the City of Palo Alto pursuant to Permit Provision C.16.a of the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2009-0074, NPDES Permit No CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board. The Annual Report provides documentation of activities conducted during FY 2010-2011 and consists of the following:

A. Certification Statement
B. Annual Report Form
   - Table of Contents
   - Completed Annual Report Form: Sections 1-15
C. Appendix
   - Table of Contents
   - Appendices

Please contact me at 650-329-2129 regarding any questions or concerns about the attached report.

Very truly yours,

Joe Teresi

Joe Teresi
Senior Engineer
SCVURPPP Management Committee Representative
Public Works Engineering

Attachments

cc: Mike Sartor
Phil Bobel
Paul Dornell
Jon Hospitalier
Steve Banks
Ken Torke
Karin North
Chris Fujimoto
Javad Ghaffari

Divisions
Administration
650.329.2373
650.329.2299 fax
Engineering
650.329.2151
650.329.2299 fax
Environmental Compliance
650.329.2598
650.494.3531 fax
Equipment Management
650.496.6922
650.496.6958 fax
Facilities Management
650.496.6900
650.496.6958 fax
Operations
650.496.6974
650.852.9289 fax
Regional Water Quality Control
650.329.2598
650.494.3531 fax

P.O.Box 10250
Palo Alto, CA 94303

CITY OF PALO ALTO
FY 2010-2011 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 by Duly Authorized Representative:

Joe Teresi

Joe Teresi September 15, 2011
Senior Engineer

FY 2010-2011 Annual Report
Permittee Name: City of Palo Alto

ATTACHMENT B

Table of Contents

Section **Page**

Section 1 – Permittee Information

Background Information					
Permittee Name:	City of Palo Alto				
Population:	64,403				
NPDES Permit No.:	CAS612008				
Order Number:	R2-2009-0074				
Reporting Time Period (month/year):	July 1 2010 through June 30 2011				
Name of the Responsible Authority:	Joe Teresi			**Title:**	Senior Engineer
Mailing Address:	Public Works Engineering / 250 Hamilton Avenue				
City:	Palo Alto	**Zip Code:**	94301	**County:**	Santa Clara
Telephone Number:	(650) 329-2129	**Fax Number:** (650) 329-2299			
E-mail Address:	Joe.teresi@cityofpaloalto.org				
Name of the Designated Stormwater Management Program Contact (if different from above):		**Title:**			
Department:					
Mailing Address:					
City:		**Zip Code:**		**County:**	
Telephone Number:		**Fax Number:**			
E-mail Address:					

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

- Public Works Superintendent Sean Kennedy and Maintenance Manager Jon Hospitalier participated in the Program's Municipal Operations Ad Hoc Task Group (AHTG) and reviewed products developed by the AHTG.
- See the C.2 Municipal Operations section of the countywide program's FY 10-11 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 an **X** in the boxes next to implemented BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type **NA** in the box. If one or more of these BMPs were not adequately implemented during the reporting fiscal year then indicate so and provide explanation in the comments section below:

X	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
X	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.
X	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments:

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

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

X	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
X	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

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

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

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

Comments:

Training has been provided to staff in safety meetings and operational training sessions on proper BMP's during all maintenance activities. Staff did not conduct bridge or structural maintenance activities directly over water or into storm drains during the reporting year. No contract work was conducted involving bridge and structural maintenance and graffiti removal activities during the reporting year.

C.2.d. ►Stormwater Pump Stations

Does your municipality own stormwater pump stations: [X] Yes [ ] No

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

Complete the following table for dry weather DO monitoring and inspection data for pump stations[1] (add more rows for additional pump stations):

Pump Station Name and Location	First inspection Dry Weather DO Data		Second inspection Dry Weather DO Data	
	Date	mg/L	Date	mg/L
ADOBE CREEK PUMP STATION, 1193 East Meadow Drive	8/25/2010	5.4	9/15/2010	7.2
MATADERO CREEK PUMP STATION, 1082 Colorado Avenue	8/25/2010	5.8	9/15/2010	7.8
COLORADO PUMP STATION, 2999 West Bayshore Road	8/25/2010	1.84	9/15/2010	1.91
PALO ALTO AIRPORT PUMP STATION, 1902 Embarcadero Road	9/15/2010	3.8	10/1/2010	3.7
SAN FRANCISQUITO CREEK CREEK PUMP STATION, 2027 East Bayshore Road	8/25/2010	4.9	9/15/2010	6.7
ALMA / UNIVERSITY PUMP STATION, Mitchell Lane / University Avenue	9/15/2010	3.8	10/1/2010	6.14

Summary: DO levels were below 3 mg/L during the two inspections at the Colorado Pump Station. This pump station has a very long (~400 linear feet) force main between the pump and the creek that is filled wit h stagnant water between pumping cycles. It also has a relatively small tributary area, which results in long periods of time between pump cycles. After the low DO readings were taken, staff discussed several alternative corrective actions, including routing dry weather flows to the sanitary sewer (no sanitary sewer mains were found in the vicinity of the pump station), mechanical aeration of the wet well (not economically-feasible), cleaning the pump station wet well (wet well was cleaned in October 2010), and adjusting the pump set points to decrease the interval between pump cycles (set points were adjusted in October 2010). No additional dry season inspections were made prior to the onset of the winter rainy season. The dissolved oxygen level at this station from the August 2011dry weather sampling was 5.8 mg/L, which gives indication that the wet well cleaning and modification to pump set points were effective measures in increasing the DO level at this station.

[1] Pump stations that pump stormwater into stormwater collection systems or infiltrate into a dry creek immediately downstream are exempt from DO monitoring.

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

Pump Station Name and Location	**Date** (2x/year required)	**Presence of Trash** (High, Medium, Low, None Detected)	**Presence of Odor** (Yes or No)	**Presence of Color** (Yes or No)	**Presence of Turbidity** (Yes or No)	**Presence of Floating Hydrocarbons** (Yes or No)
ADOBE CREEK PUMP STATION, 1193 East Meadow Drive	11/24/2010	Low	No	Yes	Yes	No
ADOBE CREEK PUMP STATION, 1193 East Meadow Drive	2/18/2011	None Detected	No	No	Yes	No
MATADERO CREEK PUMP STATION, 1082 Colorado Avenue	11/24/2011	Medium	No	No	No	No
MATADERO CREEK PUMP STATION, 1082 Colorado Avenue	2/18/2011	Medium	No	No	Yes	No
COLORADO PUMP STATION, 2999 West Bayshore Road	11/24/2011	None Detected	No	No	No	No
COLORADO PUMP STATION, 2999 West Bayshore Road	2/18/2011	None Detected	No	Yes	Yes	No
PALO ALTO AIRPORT PUMP STATION, 1902 Embarcadero Road	11/24/2011	None Detected	No	No	No	No
PALO ALTO AIRPORT PUMP STATION, 1902 Embarcadero Road	2/18/2011	None Detected	No	No	Yes	No
SAN FRANCISQUITO CREEK CREEK PUMP STATION, 2027 East Bayshore Road	11/24/2011	None Detected	No	No	Yes	No
SAN FRANCISQUITO CREEK CREEK PUMP STATION, 2027 East Bayshore Road	2/18/2011	None Detected	No	No	Yes	No
ALMA / UNIVERSITY PUMP STATION, Mitchell Lane / University Avenue	11/24/2011	Low	No	No	Yes	No
ALMA / UNIVERSITY PUMP STATION, Mitchell Lane / University Avenue	2/18/2011	None Detected	No	Yes	Yes	No

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

Does your municipality own/maintain rural[2] roads:	X	Yes		No

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

Place an **X** in the boxes next to implemented BMPs to indicate that these BMPs were implemented in applicable instances. 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:

X	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas
X	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources
X	No impact to creek functions including migratory fish passage during construction of roads and culverts
X	Inspection of rural roads for structural integrity and prevention of impact on water quality
X	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion
X	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate
X	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:

We have seen increased maintenance requirements related to erosion control in roadside ditches on Page Mill Road near Gate 1 at Foothills Park and on Laurel Glen Drive near Alexis Drive. We have eliminated the erosion sites by armoring the ditches with rock to stabilize the surface and slow the flow and by redirecting the ditch flowlines so that the ditches do not overflow into the street.

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

C.2.f. ►Corporation Yard BMP Implementation

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

	We do not have a corporation yard
	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit
X	We have a current **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:

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

Comments: Hazardous materials and waste products stored at the Municipal Service Center (MSC) are covered and not exposed to storm water. There are, however, bulk storage bunkers for sand, base rock, compost, construction debris, etc. that are uncovered. MSC staff use housekeeping Best Management Practices (e.g. spill controls, street sweeping, and catch basin filters, etc.) to prevent loose materials from entering the storm drain system. Requests have been made to provide covered storage areas as part of the future remodel of the MSC.

If you have a corporation yard(s) that is not an NOI facility , complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information:

Corporation Yard Name	**Inspection Date** (1x/year required)	**Inspection Findings/Results**	**Follow-up Actions**
City of Palo Alto Municipal Service Center	12/8/2010	Uncovered outdoor product storage, trash / debris near storm drains, trash / debris on ground adjacent to trash containers.	Move products to covered areas, clear debris around storm drains, and pick up debris adjacent to trash containers.
City of Palo Alto Municipal Service Center	1/5/2011	Re-inspection found all previous problems corrected.	N/A

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

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

(For FY 10-11Annual 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: Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) was amended in December 2010 to comply with the requirements of MRP Section C.3 (see Appendix 3-1).

(2) Municipality's development review and permitting procedures, including use of conditions of approval or other enforceable mechanisms: Storm water requirements for land development projects are reviewed and enforced by Public Works Engineering staff. Conditions of approval, including elements required by the City's storm water ordinance, are imposed on permit applicants during the discretionary permitting process (architectural and planning review) and the building permit process. Permits are not issued until the project drawings have been modified to comply with the conditions of approval. Starting in February 2011, applicants for projects that trigger the storm water treatment requirements have been required to submit their plans and calculations to an independent, third-party reviewer to verify full compliance with the City's storm water pollution prevention ordinance. The third-party reviewer must sign and stamp a certification statement that the project drawings and sizing calculations are in compliance with the ordinance (see Appendix 3-2).

(3) How water quality effects and mitigation measures are addressed in environmental reviews (e.g., CEQA): Environmental assessments of land development projects are conducted using the State of California's standard Environmental Impact Assessment checklist. Planning staff or designated consultants review water quality impacts (construction stage and post-construction) of land development projects as part of their environmental assessment process. Section C.3 of the Municipal Regional Permit, the State of California General Permit for Storm Water Discharges Associated with Construction Activity, and Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) provide the benchmark for the analysis of potential water quality impacts and related mitigation measures.

(4) C.3 training for appropriate departments: Staff in the Public Works Engineering and Planning Divisions received training on the latest requirements of Section C.3 of the Municipal Regional Permit and Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) during the reporting year, through attendance at Program-sponsored training workshops or staff briefings by storm water manager Joe Teresi.

(5) Outreach/education efforts to staff, developers, contractors, construction site operators and owner/builders: Fact Sheets on 1) Third-Party Review of Storm Water Treatment Measures and 2) the New Storm Water Regulations Effective December 1, 2011have been posted on the City's web site and distributed to contractors and developers at the City's Development Center (See Appendix 3-3).

(6) How your municipality encourages site design measures at unregulated projects subject to Planning/Building Department review: During review of planning entitlement and building permit applications, staff reviews potential site design measures with the permit applicants using a checklist.

(7) How your municipality encourages source control measures at unregulated projects subject to Planning/Building Department review: During review of planning entitlement and building permit applications, staff reviews potential source control measures with the permit applicants using a checklist. Many of the source control measures (e.g. covered trash dumpsters, covered parking area drains plumbed to sanitary sewer, stenciled catch basins, etc.) are required by City ordinance.

(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. Include dates of General Plan revisions. No General Plan

changes have made to-date.

C.3.b. ►Green Streets Status Report

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

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

Summary:

Staff is considering the implementation of a "Green Street" capital project in the Southgate neighborhood of Palo Alto. $140,000 has been budgeted in FY2011-12 to retain a consultant to conduct a feasibility study and to design feasible "green street" measures, potentially including infiltration trenches, permeable pavement, and a rainwater cistern. Refer to the C.3 New Development and Redevelopment section of the countywide program's FY 10-11 Annual Report for a description of any activities conducted at the countywide or regional level.

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

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

C.3.c. Low Impact Development Reporting

See the Countywide program annual reports and/or a BASMAA summary report for a description of the submittals made during FY 10-11 (i.e., Biotreatment Soil Specifications, Special Projects Proposal, Feasibility/Infeasibility Criteria Report, and Green Roof Specifications). Public Works staff participated in the Program's C3PO Ad Hoc Task Group and offered input and review of draft Low Impact Development (LID) guidance documents. Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) was amended in December 2010 to address the LID requirements that will take effect on December 1, 2011.

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

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

(2) On an annual basis, provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.

Summary: Storm water treatment devices at inspected facilities are generally performing well and are being adequately maintained by the facility owners. It has been observed during facility inspections that the use of vegetated swales, media filters, and infiltration trenches as storm water treatment controls in high traffic areas require substantial maintenance to ensure that they work as designed to not allow trash /

debris to enter the storm drain system. It is recommend that areas that serve high public demand also have appropriate trash and recycling containers installed nearby.
(3) On an annual basis, provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).
Summary: The City of Palo Alto storm water treatment systems O&M verification inspection program continues to be effective in inspections and associated fees per signed individual maintenance agreements. Effective February 1, 2011, revisions to Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) now require permit applicants to retain an independent 3rd party to visit the project site within 45 days following installation of the storm water treatment controls to verify that the controls have been installed in accordance with the approved plans.

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

Project Name Project No.	Project Location[3], Street Address	Name of Developer	Project Phase No.[4]	Project Type & Description[5]	Project Watershed[6]	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[7] (ft^2)	Total Post-Project Impervious Surface Area[8] (ft^2)
Private Projects											
Hewlett-Packard Annex Addition	3000 Hanover Street (near Page Mill Road)	Hewlett-Packard	N/A	Redevelopment	Matadero Creek	36.46	3.27	0	92,000	825,000	813,000
Stanford Univ medical research bldg	800 Welch Road (near Quarry Road)	Stanford University	N/A	Redevelopment	San Francisquito Creek	1.50	1.50	0	41,002	50,806	41,002
Emma Court residential subdivision	797 Matadero Avenue (near Julie Court)	Chamberlain Group	N/A	Redevelopment	Matadero Creek	0.88	0.35	9,246	6,000	6,000	15,246
Palo Alto Commons	4041 El Camino Way (near El Camino Real)	Palo Alto Commons, LP	N/A	Redevelopment	Barron Creek	0.99	0.99	19,922	12,051	12,051	31,973
Public Projects											
Palo Alto Main Library	1213 Newell Road (near Embarcadero Road)	City of Palo Alto	N/A	Redevelopment	San Francisquito	11.20	2.30	4,132	32,748	78,268	82,400
Comments:											

[3] Include cross streets
[4] If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".
[5] Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.
[6] State the watershed(s) in which the Regulated Project is located. Optional but recommended: Also state the downstream watershed(s).
[7] For redevelopment projects, state the pre-project impervious surface area.
[8] For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Application Deemed Complete Date[9]	Application Final Approval Date[9]	Source Control Measures[10]	Site Design Measures[11]	Treatment Systems Approved[12]	Operation & Maintenance Responsibility Mechanism[13]	Hydraulic Sizing Criteria[14]	Alternative Compliance Measures[15/16]	Alternative Certification[17]	HM Controls[18/19]
Private Projects										
Hewlett-Packard Annex Addition	1/28/11	5/4/11	Covered dumpster w/drain to SS; beneficial landscaping; storm drain labeling.	Min land disturbance, minimum impervious surfaces, and roof downspouts that drain to landscaping	Infiltrating vegetated swale & flow through vegetated swale	Recorded Maintenance Agreement between City of Palo Alto and Hewlett-Packard	2c	N/A	Third-party certification by Stephanie Conran, PE with Schaaf & Wheeler	N/A
Stanford Univ medical research bldg	11/23/10	04/06/11	Covered dumpster w/ drain to SS; Beneficial landscaping; Maintenance BMPs; Storm drain labeling	Permeable pavement; Roof downspouts drain to landscaping	1. Bioretention area; 2. flow-through vegetated swale (no infiltration)	Recorded Maintenance Agreement between City of Palo Alto and Stanford University	1. 1b 2. 2c	N/A	Third-party certification by Jeffrey Setera, PE	N/A
Emma Court residential subdivision	7/13/10	9/16/10	Beneficial landscaping	Permeable pavers, roof downspouts	Flow through bioretention planters	Recorded Maintenance Agreement between	2c	N/A	N/A	N/A

[9] For private projects, state project application deemed complete date and final discretionary approval date.
[10] List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.
[11] List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.
[12] List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).
[13] List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc…) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.
[14] See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).
[15] For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.
[16] For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.
[17] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[18] If HM control is not required, state why not.
[19] If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Application Deemed Complete Date[9]	Application Final Approval Date[9]	Source Control Measures[10]	Site Design Measures[11]	Treatment Systems Approved[12]	Operation & Maintenance Responsibility Mechanism[13]	Hydraulic Sizing Criteria[14]	Alternative Compliance Measures[15/16]	Alternative Certification[17]	HM Controls[18/19]
				drain to landscaping		City of Palo Alto and Chamberlain Group				
Palo Alto Commons	3/08/10	3/21/11	Covered trash area w/drain to SS; Covered parking; Storm drain stenciling	Conserve area around 28" Oak tree	Bioretention	Recorded Maintenance Agreement between City of Palo Alto and developer	2c	N/A	To be provided prior to building permit issuance	N/A

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

Project Name Project No.	Is Funding Committed?[20]	Date Construction Scheduled to Begin[20]	Source Control Measures[21]	Site Design Measures[22]	Treatment Systems Approved[23]	Operation & Maintenance Responsibility Mechanism[24]	Hydraulic Sizing Criteria[25]	Alternative Compliance Measures[26/27]	Alternative Certification[28]	HM Controls[29/30]
Public Projects										
Palo Alto Main Library	Yes	June 2012	Covered trash area w/drain; Beneficial landscaping; Storm drain stenciling	Permeable pavement; Roof downspouts drain to landscaping	Vegetated swale; infiltration basin; Silva cells	Interdepartmental maintenance agreement	2c; 1b	N/A	N/A	N/A

[20] For public projects, enter "Yes" or "No" under "Is Funding Committed?" and enter a date under "Date Construction Scheduled to Begin".
[21] List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.
[22] List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.
[23] List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).
[24] List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc…) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.
[25] See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).
[26] For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.
[27] For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.
[28] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[29] If HM control is not required, state why not.
[30] If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

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

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO)[31]	Party Responsible[32] For Maintenance	Date of Inspection	Type of Inspection[33]	Type of Treatment/HM Control(s) Inspected[34]	Inspection Findings or Results[35]	Enforcement Action Taken[36]	Comments
Stanford / Palo Alto Community Playing Fields	2700 El Camino Real, Palo Alto, CA	No	City of Palo Alto	4/29/2011	Routine	Vegetated Swale, Porous Pavement Underground Detention System	No Visible / Apparent Problems	None	Reinspect site as needed
800 High Street Condominiums	800 High Street, Palo Alto, CA	No	Tri-State Enterprise, Inc.	5/18/2011	Routine	Biorentention, Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
VTA Transit Center	95 University Avenue, Palo Alto, CA	No	Santa Clara Valley Transportation Authority	5/17/2011	Routine	Vegetated Swale Media Filter, Infiltration Trench	No Visible / Apparent Problems	None	Reinspect site as needed
New Watson Commercial Building	2450 Watson Court, Palo Alto, CA	No	A & P Children's Investment LLC	5/11/2011	Routine	Vegetated Swale	No Visible / Apparent Problems	None	Reinspect site as needed
Arbor Real	4219 El Camino Real, Palo Alto, CA	No	Merit Property Management, Inc.	4/29/2011	Routine	Vegetated Swale, Porous Pavement Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
Echelon Condominiums	1101 East Meadow Drive, Palo Alto, CA	No	Compass Management Group, Inc.	4/29/2011	Routine	Porous Pavement Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed

[31] Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.
[32] State the responsible operator for installed stormwater treatment systems and HM controls.
[33] State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).
[34] State the type(s) of treatment systems inspected (e.g., bioretention facility, flow-through planter, infiltration basin, etc…) and the type(s) of HM controls inspected, and indicate whether the treatment system is an onsite, joint, or offsite system.
[35] State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).
[36] State the enforcement action(s) taken, if any, as appropriate and consistent with your municipality's Enforcement Response Plan.

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

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO)[31]	Party Responsible[32] For Maintenance	Date of Inspection	Type of Inspection[33]	Type of Treatment/HM Control(s) Inspected[34]	Inspection Findings or Results[35]	Enforcement Action Taken[36]	Comments
Keys Middle School	3981 El Camino Real, Palo Alto, CA	No	Keys Family School	5/13/2011	Routine	Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
Moldaw Family Residences / Campus for Jewish Life	899 Charleston Road, Palo Alto, CA	No	Moldaw Family Residences / Campus for Jewish Life	5/11/2011	Routine	Vegetated Swale	No Visible / Apparent Problems	None	Reinspect site as needed
Walgreen's	310 University Avenue, Palo Alto, CA	No	Premier Properties Management	5/18/2011	Routine	Vortex Separator	Ineffective Media Insert / Media Filter	Warning Notice	Replace perlite media in both cartridges
SAP Building 2	3412 Hillview Avenue, Palo Alto	No	SAP	5/19/2011	Routine	Vegetated Swale	No Visible / Apparent Problems	None	Reinspect site as needed
Altaire	901 San Antonio Road, Palo Alto, CA	No	The Helsing Group, Inc.	5/11/2011	Routine	Vegetated Swale, Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
At&T Mobility Store	2805 El Camino Real, Palo Alto, CA	No	Premier Properties Management	5/11/2011	Routine	Vegetated Swale, Porous Pavement Planter Boxes	Erosion / Scouring Trash Debris Accumulation	Warning Notice	Property Manangement to replace missing vegetation and remove trash / debris
Pinewood School Gym	3750 Fabian Way, Palo Alto, CA	No	Pinewood School	5/10/2011	Routine	Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
Palo Alto Medical Foundation	49 Wells Avenue, Palo Alto, CA	No	Palo Alto Medical Foundation	4/29/2011	Routine	Planter Boxes	No Visible / Apparent Problems	None	Reinspect site as needed
Alta Torre Housing	3895 Fabian Way	No	Alta Torre Housing	5/26/2011	Routine	Planter Boxes Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed
Redwood Gate HOA	4249 El Camino Real, Palo Alto, CA	No	Redwood Gate HOA	4/29/2011	Routine	Vegetated Swale, Porous Pavement	No Visible / Apparent Problems	None	Reinspect site as needed

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

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO)[31]	Party Responsible[32] For Maintenance	Date of Inspection	Type of Inspection[33]	Type of Treatment/HM Control(s) Inspected[34]	Inspection Findings or Results[35]	Enforcement Action Taken[36]	Comments
						Underground Detention System			
Palo Alto Golf and Country Club	3000 Alexis Drive, Palo Alto, CA	No	Palo Alto Golf and Country Club	5/13/2011	Routine	Vegetated Swale, Vegetated Buffer Strip Wet Pond	No Visible / Apparent Problems	None	Reinspect site as needed
Palo Alto Elk's Lodge No. 1471	4249 El Camino Real, Palo Alto, CA	No	Palo Alto Elk's Lodge No. 1471	4/29/2011	Routine	Vegetated Swale, Vortex Separator	No Visible / Apparent Problems	None	Reinspect site as needed

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

Program Highlights

Provide background information, highlights, trends, etc.

The City of Palo Alto continues to conduct an aggressive storm water pollution prevention program coordinated with the sanitary sewer source control program. All inspections of industrial and commercial facilities include a storm water inspection.

- Inspections were conducted at all food service facilities to confirm that polystyrene (Styrofoam™) containers have been eliminated as required by an ordinance banning such products, which took effect in April 2010.
- The forms and database used to collect information regarding storm water inspection and enforcement activities have been updated to include all the information required for the reporting specified in the Municipal Regional Permit.
- The Enforcement Response Plan has been updated to specifically include provisions required by the Municipal Regional Permit.
- The existing industrial/commercial database contains all facilities lists which are current and covers all required sectors. A very small number of new facilities were added to the inspection list as a result of the new program requirements.
- City staff have participated in the Program's IND/IDDE Ad Hoc Task Group and have reviewed and incorporated relevant information into the products and reports produced. Further details of the activities and accomplishments of the Ad Hoc Task Group are included in the C.4 Industrial and Commercial Site Controls section of the Program's FY 10-11 Annual Report.
- Refer to the C.4. Industrial and Commercial Site Controls section of the Program's FY 10-11 Annual Report for a description of activities of the countywide program and/or the BASMAA Municipal Operations Committee.

C.4.b.i. ► Business Inspection Plan

Do you have a Business Inspection Plan?	X	**Yes**		**No**

If No, explain:

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

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

Commercial and industrial facilities in regulated categories are inspected for wastewater and storm water pollution prevention issues as documented in the City of Palo Alto's annual Pretreatment Report and Clean Bay Plan. Facility data, status and inspection results are stored in a database. Additional sites that fall into categories of Potential Facilities identified in the Municipal Regional Permit (MRP) but not covered under our pre-MRP inspection program have been added to the Potential Facilities List. These additional facilities were inspected this year. City staff will determine how frequently they need to be inspected based on the findings of the initial inspections.
A list of the facilities subject to periodic inspection is attached as Appendix 4-1.

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

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

Please see Appendix 4-2.

C.4.c.iii.(1) ►Facility Inspections

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

	X	Permittee reports multiple discrete violations on a site as one violation.
		Permittee reports the total number of discrete violations on each site.

	Number	Percent
Number of businesses inspected	223	
Total number of inspections conducted	297	
Number of violations (excluding verbal warnings)	20	
Sites inspected in violation	37	16%
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	19	95%

Comments:

The City of Palo Alto responds to stormwater concerns / complaints at facilities from citizen inquiries, interdepartmental referrals, other city employees, other agencies, and investigators on patrol. Industrial locations (Industrial, Automotive, Animal Services, Dry Cleaners, Nurseries, Building Material Centers, and Recycling Facilities) are scheduled for annual inspections.

One outstanding industrial site has ordered a mist eliminator system that is expected to be installed on its nickel plating bath exhaust ventilation system by August 30, 2011. After installation of the mist elimination system is complete, the roof will be cleaned. All wash water associated with the cleaning will be collected, pretreated and discharged to the sanitary sewer system. The new equipment will eliminate nickel mist from being released through ventilation system onto the roof that eventually drains to the MS4 system.

"Sites inspected in violation" reflects the number of sites that received either a verbal warning or a written warning during a site inspection. Multiple discrete violations on a site are counted as one violation.

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

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

Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	1
Potential discharge and other	36
Comments: A discharge stream was counted as one discharge per inspection per site. Appendix 4-3 defines categories with actual or potential discharges.	

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

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

	Enforcement Action (as listed in ERP)[37]	Number of Enforcement Actions Taken	% of Enforcement Actions Taken[38]
Level 1	Verbal Warning	17	46%
Level 2	Written Warning	20	54%
Level 3	Notice of Non-Compliance	0	-
Level 4	Administrative Actions	0	-
Total		37	100%

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

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

Business Category[39]	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
A summary list of violations by business category is attached in Appendix 4-3.		

[37] Agencies to list specific enforcement actions as defined in their ERPs.
[38] Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
[39] List your Program's standard business categories.

C.4.c.iii.(4) ►Non-Filers

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

No facilities were identified as non-filers during scheduled inspections during this fiscal year.

C.4.d.iii ►Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
CWEA: Generating Legally Defensible Data	10/13/2010	Wastewater Field Sampling and Testing	6	86%
CWEA: P3S Training Conference	2/28/2011-3/2/2011	Stormwater – Low Impact Pollution Prevention	4	57%
SCURVPPP: IND/IDDE Workshop	5/5/2011	Conducting Effective Stormwater Inspections of Industrial and Commercial Facilities	7	100%

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

Program Highlights

Provide background information, highlights, trends, etc.

The City continues to run an aggressive storm water pollution prevention program including IDDE related activities. City staff have participated in the countywide program's committee to address IDDE issues. During FY 10-11a formal IDDE screening program was drafted. The document memorializes the current practices. City staff from various departments are enlisted to identify and report inappropriate discharges and connections. The storm water Engineering, Operations and Compliance groups have initiated regular meetings to discuss problems and to coordinate implementation.

Refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 10-11 Annual Report for description of activities at the countywide or regional level.

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

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

Contact	Description	Phone Number
The appropriate spill response numbers and contacts have been updated and are attached in Appendix 5-1.		

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

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

Description:

The City participates in the BASMAA Mobile Surface Cleaners regional program and responds to all internal and external referrals. Public Works and Utilities Operations staff are trained to identify and report violations to Environmental Compliance Division staff. The City of Palo Alto requires all contractors retained by the City to perform exterior cleaning to be certified through the BASMAA Program or equivalent. Please refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 10-11 Annual Report for a description of efforts by countywide committees/work group and the BASMAA Municipal Operations Committee to address mobile businesses.

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

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

Description:

Palo Alto has continued to implement a storm drain collection system screening process that relies on Public Works Operations maintenance crews to report illicit discharges during their annual visits to clean each storm drain catch basin throughout the City each fall and monthly preventative maintenance visits to the storm water pump stations. Any unusual discharges are reported to the Public Works Environmental Compliance staff for follow-up investigation as to potential discharge sources. Although our existing screening program was not specifically designed to conform to the USEPA guidance document referenced in the MRP, we believe that its effectiveness exceeds the referenced standard.

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

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

	Number	Percentage
Discharges reported (C.5.f.iii.(1))	101	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	6	6%
Discharges resolved in a timely manner (C.5.f.iii.(3))	101	100%

Comments:

Most complaints or spill reports are responded to immediately upon receiving the relevant information. Quick response time reduces the number of discharges reaching storm drains and/or receiving water and increases the chance of locating the spill, the source, and the responsible parties. Quick response by storm drain crews and enforcement staff also leads to faster resolution of problems and continued compliance.

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

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

A majority of inspections (65%) were conducted at City of Palo Alto facilities. All five pump stations were inspected as required per MRP Section C.2. Open Space areas including Baylands, Foothills Park, and Palo Alto Landfill were inspected on a regular basis for trash and discharges. The City of Palo Alto continued its research and analysis of an installed trash boom located on Matadero Creek. See Appendix 5-2 for more information.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.1.a, b, c ►Site/Inspection Totals

Number of sites disturbing < 1 acre of soil requiring storm water runoff quality inspection (i.e. High Priority) (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** (C.6.e.iii.1.c)
13	17	226
Comments: High-priority sites (those disturbing less than 1 acre of soil) are determined per the criteria listed in MRP Section C.6.e.ii(2)(b).		

C.6.e.iii.1.d ►Construction Activities Storm Water Violations

BMP Category	**Number of Violations**[40]	**% of Total Violations**[41]
Erosion Control	0	0
Run-on and Run-off Control	1	50%
Sediment Control	1	50%
Active Treatment Systems	0	0
Good Site Management	0	0
Non Stormwater Management	0	0
Total	**2**	**100%**

[40] Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category.
[41] Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

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

	Enforcement Action (as listed in ERP)[42]	Number Enforcement Actions Taken	% Enforcement Actions Taken[43]
Level 1	No Action	219	97
Level 2	Verbal Warning	6	2.6
Level 3	Written Warning	0	0
Level 4	Administrative Citation	1	0.4
Total		**226**	**100%**

C.6.e.iii.1.f, g ►Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence (C.6.e.iii.1.f)	1
Number of sites with discharges, actual and those inferred through evidence (C.6.e.iii.1.g)	1

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

	Number	Percent
Violations fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	1	100%[44]
Violations not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	0%[45]
Total number of violations for the reporting year[46]	1	100%

Comments:
All violations were fully corrected within 10 business days.

[42] Agencies should list the specific enforcement actions as defined in their ERPs.
[43] Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
[44] 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.
[45] 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.
[46] Total number of violations equals the number of initial enforcement actions (i.e. one violation issued for several problems during an inspection at a site). It does 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.(2) ►Evaluation of Inspection Data

Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).

Description:

The City continues to update the database used to track construction inspections and associated data to meet the new requirements of the Municipal Regional Permit. Most contractors are using the best available BMP materials and equipment to ensure complaint sites. In comparison to previous years, construction sites are very aware of stormwater requirements. Regular SWPPP inspections continually remind contractors that the City is serious about unlawful discharges into the MS4 system.

C.6.e.iii.(2) ►Evaluation of Inspection Program Effectiveness

Describe what appear to be your program's strengths and weaknesses, and identify needed improvements, including education and outreach.

Description:

The City has conducted an aggressive storm water program for construction activities for nearly 20 years. Regulations and BMPs are stressed during all phases from planning through completion and for all sizes of projects. The number and severity of violations observed over the years has decreased due to this consistent message and improved awareness within the construction industry as well as staff throughout the City. Problems and issues with dewatering of excavations at construction sites have improved as a result of recent modifications to the public works engineering, planning and building policies and permitting processes that require effective best management practices to be implemented.

The City continues to employ a dedicated storm water investigator and a significant fraction of the position's time is spent on construction site inspections at the known sites and field survey work. Other members of the Environmental Compliance Division are cross trained in these responsibilities and watch for issues throughout the City. Close cooperation with the Building, Planning, Utilities and Public Works Engineering staff allows us to be aware of projects throughout the City and problems as they arise.

City of Palo Alto Environmental Compliance Division staff participated in the SCVURPPP Construction Ad Hoc Task Group (AHTG) in reviewing and improving new construction inspection forms, inspection data tracking forms, and guidance for identifying high priority sites.

The procedures and data tracking have been modified to meet the requirements of the new MRP and the Construction General Permit. Staff developed and implemented a Construction Inspection Access Database for all inspections of active construction sites. Staff hopes to implement the use of new hardware field tablets to increase productivity in the next fiscal year.

Refer to the C.6 Construction Site Control section of countywide program's FY 10-11 Annual Report for a description of activities at the countywide or regional level.

C.6.f ►Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
SCURVPPP Annual C.3 Stormwater Workshop	6/8/2011	Complying with New Stormwater Requirements for New and Redevelopment Projects	2	29%

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

C.7.b.ii.1 ►Advertising Campaign

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

Summary:

The following separate reports developed by SCVURPPP summarize countywide advertising efforts conducted during FY 10-11:

- FY 10-11 Watershed Watch Campaign Annual Campaign Report
- FY 10-11 Watershed Watch Partner Report
- FY 10-11 Watershed Watch Web Statistics Report

These reports are included within the C.7 Public Information and Outreach section of Program's FY 10-11 Annual Report.

C.7.b.iii.1 ►Pre-Campaign Survey

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

- Summary of how the survey was implemented.
- Analysis of the survey results.
- Discussion of the outreach strategies based on the survey results.
- Discussion of planned or future advertising campaigns to influence awareness and behavior changes regarding trash/litter and pesticides.

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

X	Not required for this Annual Report
	Survey report attached
	Reference to regional submittal:

C.7.c ►Media Relations

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

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

Summary:

The following separate report developed by BASMAA summarizes media relations efforts conducted during FY 10-11:

• BASMAA Media Relations Final Report FY 10-11 This report and any other media relations efforts conducted countywide is included within the C.7 Public Information and Outreach section of Program's FY 10-11 Annual Report.

C.7.d ►Stormwater Point of Contact

Summary of any changes made during FY 10-11:

No Changes.

C.7.e ►Public Outreach Events

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

Use the following table for reporting and evaluating public outreach events

Program staff, the Watershed Watch consultant, and Co-permittees staffed ten outreach events in FY 10-11. Events were selected based upon target audience and attendance. Materials distributed at the events included the following: Less Toxic Pest Management fact sheets, "10 Most Wanted Backyard Bugs" brochures, "Don't Plant a Pest" brochure, "You are the Solution to Water Pollution "brochures, "Clean Cars & Clean Creeks" brochure, and giveaways (e.g. flyswatters, OWOW magnets, notepads, and temporary tattoos). The flyswatters have the Watershed Watch website and hotline number and the words "The Original Earth-Friendly Pest Control" printed on them. The Campaign also started using "Quick Response" codes in printed materials. These codes have URLs embedded in them and when scanned with smart phones direct users to specific web pages. This was targeted at people that are reluctant to collect paper materials and only want to look up information online. The beanbag game for children was used at most of the events. Event staff distributed more than 6,000 outreach materials and giveaways.

Event Details	**Description** (messages, audience)	**Evaluation of Effectiveness**
Name: Advantest Eco Faire Date: August 13, 2010 Location: Advantest Corp., Santa Clara Region: Countywide	Type of Event: Corporate event Audience: Employees Messages: Stormwater pollution prevention, less-toxic pest control	General Feed Back: The event was held during lunch hour in the cafeteria. Not many employees stopped at the booth to ask questions and take brochures. Due to the low attendance, the Program will not participate in this event next year. Estimated Overall Event Attendance: 500 Number of Brochures Distributed: 48 Number of Giveaways Distributed: 65
Name: Fiestas Patrai's Parade & Festival Date: September 12, 2010	Type of Event: Community event Audience: Families with children	General Feed Back: This event is a good venue for reaching out to the Spanish speaking community. However, the event organizers did

Location: Guadalupe River Park and Gardens, San Jose Region: Countywide	Messages: Stormwater pollution prevention, less-toxic pest control and, proper disposal of HHW.	not provide a good location for the Watershed Watch booth, and as a result not many people stopped by. The Program will participate in this event next year only if a good booth location is available. Estimated Overall Event Attendance: 5,000 Number of Brochures Distributed: 163
Name: Pumpkins in the Park Date: October 9, 2010 Location: Guadalupe River Park and Gardens, San Jose Region: Countywide	Type of Event: Community fair Audience: Families with children Messages: Stormwater pollution prevention, less-toxic pest control and, proper disposal of HHW.	General Feed Back: Good attendance with lots of children and families. This is a great event for educating families with small children. Estimated Overall Event Attendance: 12,000-15,000 Number of Brochures Distributed: 332 Number of Giveaways Distributed: 727
Name: Haunted History Date: October 31, 2009 Location: History Park at Kelley Park, San Jose Region: Countywide	Type of Event: Halloween Event Audience: Families with children Messages: Stormwater pollution prevention and proper disposal of HHW	General Feed Back: The event was very well attended. Event organizers encouraged attendees to participate in activities at each booth. As a result a lot of children stopped by the booth and played the beanbag game. Estimated Overall Event Attendance: 1,500 Number of Brochures Distributed: 23 Number of Giveaways Distributed: 443
Name: Muslim Green Fair Date: November 6, 2010 Location: 3003 Scott Blvd., Santa Clara Region: Countywide	Type of Event: Community fair Audience: Families with children Messages: Stormwater pollution prevention, less-toxic pest control and, proper disposal of HHW	General Feed Back: This is a good event for reaching members of the Muslim community. The beanbag game was a big hit at this event and the other booths tied in nicely with the Program's messages. Few people wanted to take brochures, but many had questions and read through the material. Estimated Overall Event Attendance: 1,000 Number of Brochures Distributed: 14 Number of Giveaways Distributed: 221
Name: NVIDIA Corp. Earth Day Event Date: April 21, 2011 Location: 2701 San Tomas Expressway, Santa Clara	Type of Event: Corporate event Audience: Information Technology Professionals Message: Stormwater pollution prevention,	General Feed Back: This event is very well organized and a lot of employees stopped at the booth to ask questions. Not many were interested in taking brochures but noted down the website for future reference.

Region: Countywide	less-toxic pest control	Estimated Overall Event Attendance: 500-1,000 Number of Brochures Distributed: 19 Number of Giveaways Distributed: 299
Name: Spring in Guadalupe Gardens Date: April 23, 2011 Location: Guadalupe River Park and Gardens, San Jose Region: Countywide	Type of Event: Community fair, plant sale. Audience: Families with children, homeowners and gardeners Messages: Stormwater pollution prevention, less-toxic pest control and, proper disposal of HHW.	General Feed Back: Good attendance considering the event was held on the Easter weekend. This is a good event for reaching home gardeners. Estimated Overall Event Attendance: 4,500 Number of Brochures Distributed: 108 Number of Giveaways Distributed: 1,130
Name: Watershed Watch Car Wash Date: June 8, 2011 Location: Capitol Premier Car Wash, 735 Capitol Expressway Auto Mall, San Jose Region: Countywide	Type of Event: Car Wash Audience: Car wash customers Messages: Stormwater pollution prevention, proper car washing.	General Feed Back: 65 people received the 50% off discount during the event. The event had been rescheduled after being rained out a week prior. Staff also reached out to people coming in for gas only, to expand our impact for the event. Estimated Overall Event Attendance: 75-100 Number of Brochures Distributed: 40 Number of Watershed Watch Discount Cards Distributed: 75
Name: Watershed Watch Car Wash Date: June 15, 2011 Location: Delta Queen Classic Car Wash, 981 E Hamilton Avenue, Campbell Region: Countywide	Type of Event: Car Wash Audience: Car wash customers Messages: Stormwater pollution prevention, proper car washing.	General Feed Back: Due to unexpected rain the previous week, the event was not as well attended as past years. Many customers were there because they had heard the event promotion ad on the radio. Estimated Overall Event Attendance: 60-70 Number of Brochures Distributed: 20 Number of Watershed Watch Discount Cards Distributed: 49
Name: Festival in the Park Date: June 25, 2011 Location: Hellyer County Park, San Jose Region: Countywide	Type of Event: Community Health Fair Audience: Families with children. Message: Stormwater pollution prevention, less-toxic pest control and, proper disposal of HHW.	General Feed Back: Good attendance in the morning. Due to the hot weather the attendance was low in the afternoon. This event is good for reaching Spanish and Vietnamese-speaking segments of the population. The City of San Jose provided

		bilingual staff (Spanish and Vietnamese) for this event. Estimated Overall Event Attendance: 7,000 Number of Brochures Distributed: 160 Number of Giveaways Distributed: 642
A list of all additional public events that Palo Alto attended in FY2010 – 2011 is listed below.		
Date: June 27, 2010: Barron Park Green Tour	Neighborhood Home and Garden Tour . Our Water Our World (OWOW) handouts were given, Zero Waste Team answered questions	Renters and homeowners from Barron Park took tour and visited vendor tabling area. The event focused on energy efficiency, pesticide free gardening, water conservation and trash reduction.
Date: September 17, 2010: Bay Friendly Landscape Conference (1 day)	Conference & vendor tabling event on sustainable practices and technologies for landscape professionals. Less toxic gardening advice given by Master Gardener Annie Joseph. OWOW fact sheets & SLUGGO samples handed out.	Over 500 landscape professionals participated in the event. Attendees ranged from "mow and blow" landscaping companies to retail businesses that sell gardening products.
Date: September 25, 2010: Coastal Cleanup Day	Nationwide volunteer coastal and waterways cleanup event. Palo Alto coordinated cleanups at 4 creeks	Global event. 157 volunteers helped clean approximately 5.5 miles of creeks in Palo Alto. 503 lbs of recycled items and 2,403 lbs of trash was collected.
Date: April 21, 2011: Greenlight Film Festival	Annual environmental - themed film contest mostly for children and teens. Films must have an environmental message. Awards given and film recognition broadcasted on local TV channels.	15 finalists are chosen and eventually 3 winners were picked. This was the first event in six years that it was filmed LIVE and aired on local stations. Sponsors include The Media Center, City of San Jose, City of Sunnyvale. City of Mountain View, Palo Alto Weekly and the City of Palo Alto.
Date: April 22, 2011: Great America Pickup	Annual Volunteer Cleanup Event for inland areas.	Staff from Palo Alto's Public Works department cleaned a heavily littered area in and behind the City's Municipal Service Center on East Bayshore Road, Palo Alto. Several large bags of trash collected.
Date: May 5, 2011: PARC Earth Day Event	Annual Earth Day event for staff focusing on	Event held during lunchtime for all employees

	sustainability, pollution prevention and purchasing reusable products. Handouts and OWOW fact sheets given.	to attend. Vendors answered questions, provides handouts and samples to participants. City of Palo Alto provides a medicines collection bin for old/expired medicines.
Date: May 15, 2011: Bay Friendly Garden Tour – sponsored by Bay Friendly Coalition	Free tour of Bay-Friendly Gardens in Santa Clara Co. from San Jose to Palo Alto. OWOW fact sheets given.	Event done in conjunction with 3 counties (SF, Santa Clara, Napa). 8th year for the garden tour but first year for Santa Clara County.
Date: May 21, 2011: National River Cleanup Day	Volunteer Creek Cleanup event. 3 creeks cleaned in Palo Alto.	Nationwide event. 98 volunteers collecting 1,490 pounds of trash over approximately 3 miles. Approx. 682 pounds of recyclables collected.
Date: May 27, 2011: OWOW outreach at Walgreens Drug Store in Los Altos	Tabling Outreach to promote less toxic products sold at the store. OWOW handouts and gardening advice given.	Master Gardener Annie Joseph answered gardening questions, provided free samples of SLUGGO and installed new OWOW fact sheet rack in store.

C.7.f. ►Watershed Stewardship Collaborative Efforts

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

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:

During FY 10-11, the Program actively supported the Santa Clara Basin Watershed Management Initiative, including the Steering Committee, the Land Use Subgroup, the Santa Clara Valley Zero Litter Initiative, and the Product Action Subgroup. Information on these efforts is included within the C.7 Public Information and Outreach section of the Program's FY 10-11 Annual Report. The Program also participated in the Bay Area Macroinvertebrate Bioassessment Information Network. Information on this is included in the C.8 Water Quality Monitoring section of the Program's FY 10-11 Annual Report.

In addition to the regional collaborative efforts, Palo Alto staff actively participate in Santa Clara Basin Watershed Management Initiative (funding and active participation), the Regional Integrated Pest Management Coordinators meetings (active participation, funding not required), *Our Water, Our World* (funding and active participation); and the Bay Area Pollution Prevention Group (active participation, funding).

C.7.g. ►Citizen Involvement Events

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

Event Details	Description	Evaluation of effectiveness
The Program provided funding for the following citizen involvement events: 1. National River Clean up Day – The Program supports the involvement of Santa Clara County citizens by providing advertising support for the National River Clean-up Day. 2. Citizen involvement events at the Don Edwards San Francisco Bay Wildlife Refuge (Refuge) – A number of citizen involvement and stewardship programs are conducted as part of the Program funded Watershed Watchers Program at the Refuge. Participants usually work in the Refuge gardens planting native plants, pulling non-native plants, and mulching. More details are included in the Watershed Watchers Report in the Program Annual Report Appendix 7-5.		
Event Details	**Description**	**Evaluation of effectiveness**
Name: Summer of Service Program Date: 7/1/10, 7/15/10, 7/29/10, 8/12/10, 6/30/11 Location: Don Edwards Wildlife Refuge, Alviso Focus: Countywide	Partnership program between Santa Clara Valley youth groups and the Watershed Watchers program. Youth spend a day at the Refuge and they work in the gardens in the morning and explore the Refuge in the afternoon.	Number of attendees on 7/1/10: 8 middle school students, 4 high school students, and 2 adults. Number of attendees on 7/15/10: 9 middle school students, 3 high school students, and 2 adults. Number of attendees on 7/29/10: 10 middle school students, 4 high school students, and 2 adults. Number of attendees on 8/12/10: 10 middle school students, 3 high school students, and 2 adults. Number of attendees on 6/30/11: 11 middle school students, 1high school student, and 2 adults.
Name: Community Service Days Date: 10/16/10, 1/15/11, 3/19/11, 4/16/11 Location: Don Edwards Wildlife Refuge, Alviso Focus: Countywide	This is an open day for the general public. Participants work in the gardens planning native plants, puling non-native plants, and mulching.	Number of attendees on 10/16/10: 2 elementary school student, 3 high school student, and 3 adults. Number of attendees on 1/15/11: 3 high school student and 2 adults. Number of attendees on 3/19/11: 4 high

		school students and 1 adult. Number of attendees on 4/16/11: 9 middle school students, 4 high school students and 1 adult.
Name: National River Cleanup Day Date: 5/21/11 Location: Various locations throughout the County Focus: Countywide	In FY 10-11, the Creek Connection Action Group sponsored two creek clean-up events: Coastal Clean-up Day on September 25, 2010 and National Rivers Clean-up Day on May 21, 2011. The Program provided funding for the National Rivers Clean-up Day advertising.	A total of 1,131 volunteers participated in cleaning 44 sites and removed approximately 21,201 pounds of trash and 2,701 pounds of recyclables from creeks.
A list of all additional public events that Palo Alto attended in FY2010 – 2011 is listed below.		
Date: September 25, 2010 - National Coastal Cleanup Day	Clean-up included 2 locations of San Francisquito Creek, Matadero and Adobe Creeks.	157 volunteers in 4 creek locations worked to clean approximately 5 ½ miles, collecting 503 pounds of recyclables and 2,403 pounds of trash.
Date: April 21, 2011 – Greenlight Film Festival	Promoted through the Palo Alto Media Center, the event focuses on submitting short environmentally conscious films in an Academy Awards type setting. Sponsors include several local cities and businesses.	Number of film submittals varies each year, but judges determine final 3 film winners. These films can be seen on local TV stations, The Media Center's website, YouTube and City of Palo Alto's website. Ages of participants can run from pre-school to high school, with an "open category" for adults. Attendance for the awards ceremony is approximately 200 people.
Date: May 15, 2011: Bay Friendly Garden Tour	See Section C.7.e for details	
Date: May 21, 2011: National River Cleanup Day	Creeks cleaned included San Francisquito, Matadero and Adobe Creeks.	98 volunteers at 3 creek locations worked to clean approximately 3 miles of creeks, collecting 682 pounds of recyclables and 1,490 pounds of trash.

C.7.h. ►School-Age Children Outreach

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

Outreach to school-age children is implemented through ZunZun assemblies at local elementary schools and the "Watershed Watchers" program at the Environmental Education Center at the Don Edwards San Francisco Bay Wildlife Refuge (Refuge) in Alviso. The Program sponsors up to 50 ZunZun assemblies at elementary schools in Santa Clara Valley and funds an Interpretive Specialist position at the Refuge for conducting activities and programs about watershed and urban runoff pollution prevention. The Fourth Quarter "Watershed Watchers" Report including the End-of-Year summary is included in the Program Annual Report Appendix 7-5. The ZunZun Final Report is included in the Program Annual Report Appendix 7-7

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Name : ZunZun Musical Assembly Grade or level: elementary	Interactive, musical school assemblies educating K-6 children about watersheds and pollution prevention.	13,003 students	ZunZun assemblies were evaluated using postage-paid evaluation cards that were distributed to all teachers present at the performances. The Program received 168 completed evaluation cards from teachers. Overall, the feedback is positive and indicates an increase in the students' knowledge about watersheds and pollution prevention. A few highlights of the evaluations are: • Thirty-two teachers indicated that after the performance, 50% of their students knew what a watershed is; 60 teachers indicated that 75% of their students knew what a watershed is and 34 teachers indicated that 100% of their students knew what a watershed is. • Ten teachers indicated that after the performance, 50% of their students could name a way to prevent pollution in the watershed; 53 teachers indicated that 75% of their students could name a way to prevent pollution in the watershed; and 89 teachers indicated that 100% of their students could name a way to prevent pollution in the watershed.

			The Final Teacher Evaluation Report is included in the Program Annual Report Appendix 7-7.
Name: Watershed Watchers Program at Don Edwards Wildlife Refuge in Alviso Grade or level: pre-school, elementary, middle, high school	The Refuge offers a number of interpretive programs to educate children and youth about preventing urban runoff pollution. These include: Bike the Levees; Discover Native Species; Habitat Exploration; Living Wetlands; Marshes, Mud and Plankton; Quackers and Honkers; and Water Water Everywhere.	64 pre-kindergarteners, 1,083 elementary school students, 69 middle school students, and 119 high school students	Visitor Surveys are used to determine visitor demographics, effectiveness of publicity, and the effectiveness or the Watershed Watchers Program. In addition, an "Urban Runoff Bead Drop" display is used to record actions (e.g., pick up litter, spread the word, take car to car wash) that children promise to do the help keep storm drains clean. Results of both these evaluation mechanisms are summarized in the Watershed Watchers Fourth Quarter Report included in the Program Annual Report Appendix 7-5.
Additional Palo Alto School Outreach Events			
What's Bugging You?	In this interactive program, students work together to put together a visual habitat for insects. By learning about insects and the food chain students are introduced to the concept of pesticides, as well as the impacts of pesticides on water pollution. Students also learn: the difference between waste water and storm water (where it comes from, where it goes); the water cycle; the definition and function of a watershed; and "reduce/reuse/recycle/rot/respect."	3 classes, 60 students	83% of teachers returned postage-paid evaluation postcard, with a cumulative rating of 5 out of 5 in both quality of program and clarity of presenter. 100% stated students' understanding of the difference between storm drain/ sewer systems increased and 99% stated students' understanding of what they can do to prevent water pollution increased.
What's Up with the Bags?	In this program students read a story out loud as they learn about the impact of plastic bags when they enter the watershed through human use and misuse. Plastic bag alternatives are discussed; and students are given a re-usable bag to decorate and take home. Students	3 classes, 60 students	See above

	also learn: the difference between waste water and storm water (where it comes from, where it goes); the water cycle; the definition and function of a watershed;and"reduce/reuse/recycle /rot/respect."		
Watershed Warriors!	In this program students utilize a hands-on, simulated model of various environments such as a farm and a neighorhood. Students learn the sources of pollution, and about solutions to reduce or eliminate pollution. Students also learn: the difference between waste water and storm water (where it comes from, where it goes); the water cycle; the definition and function of a watershed; and "reduce/reuse/recycle/rot/respect."	6 classes, 120 students	See above
Who Dirtied the Bay?	Moving through time from past to present the focus of this program is on stormwater and how pollutants impact the Baylands and H2O environment. Pollution prevention solutions are discussed. Students also learn: the difference between waste water and storm water (where it comes from, where it goes); the water cycle; the definition and function of a watershed; and "reduce/reuse/recycle/rot/respect."	14 classes, 280 students	See Above
Mercury	In this program students learn how mercury from the past (California Gold Rush) and the present, accumulates and impacts the waters of San Francisco Bay. Bio-accumulation of mercury is also demonstrated. Pollution prevention	7 classes, 166 students	See above

	strategies are discussed. Students also learn: the difference between waste water and storm water (where it comes from, where it goes); the water cycle; the definition and function of a watershed; and "reduce/reuse/recycle/rot/respect"		
Microbes in Sewage	In a laboratory setting, students use microscopes to observe, document and identify microbes used in wastewater treatment process. Impact of pollution on the Baylands and water environment as well as prevention solutions are discussed (Students study protist in the 7th grade.)	29 classes, 725 students	See above
Storm Drain Stenciling	Students volunteer to stencil "Only rain down our drain" storm drains located around school sites within Palo Alto, using stencils that are creek specific with the name of the creek that the drain flows to.	10 separate city areas that surround 12 middle and elementary schools	Program participation is by word-of-mouth and promoted by our school outreach consultant. Most of the participation is students but may include Scout troops or local non-profit youth organizations. It runs for 3 to 4 years, at which time it starts over again with fresh stenciling paint.

Section 8 - Provision C.8 Water Quality Monitoring

C.8 ►Water Quality Monitoring

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

Summary

During FY 10-11, we contributed through the countywide Program to the BASMAA Regional Monitoring Coalition (RMC). In addition, we contributed financially to the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP) and were represented at RMP committees and work groups. For additional information on monitoring activities conducted by the Program, BASMAA RMC and the RMP, see the C.8 Water Quality Monitoring section of the Program's FY 10-11 Annual Report.

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a ►Adopt an Integrated Pest Management (IPM) Policy or Ordinance

Attach a copy of your individual IPM ordinance or policy. *(Water Board staff requested resubmittal for FY 10-11.)*	X	**Attached**		**Not attached**, explain below
If **Not attached**, explain:				

In 2001, the City of Palo Alto adopted a reduced-risk pest management policy and drafted an Integrated Pest Management (IPM) plan to control and document the use of pesticides by City staff and contractors.

The goals of the IPM program are to:

- minimize water quality impacts from pesticide-related ecotoxicity;
- minimize total pesticide use; and
- identification of the least toxic products for use when pesticides are needed.

These goals are to be achieved through implementation and continual improvement of environmentally friendly pest control strategies. Program success will be demonstrated through annual quantification of the City's pesticide use. The policy was approved administratively by the City Manager and incorporated into the City's Policy and Procedures Manual.

C.9.b ►Implement IPM Policy or Ordinance

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

Trends in Quantities and Types of Pesticides Used[47] Please see attached 2010 Pest Management and Pesticide Use Report.

Pesticide Category and Specific Pesticide Used	**Amount**[48]				
	FY 09-10	**FY 10-11**	**FY 11-12**	**FY 12-13**	**FY 13-14**
Organophosphates	0	0			
Pyrethroids	0	0			
Carbaryl	0	0			
Fipronil	0	0			

[47] Includes all municipal structural and landscape pesticide usage by employees and contractors.
[48] Weight or volume of the product or preferably its active ingredient, using same units for the product each year.

C.9.c ►Train Municipal Employees

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	33
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	33
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	100%

C.9.d ►Require Contractors to Implement IPM

Did your municipality contract with any pesticide service provider in the reporting year?	x	**Yes**		**No**

If yes, attach one of the following:

X	Contract specifications that require adherence to your IPM policy and standard operating procedures, OR
	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR
	Equivalent documentation.

If **Not attached**, explain:

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

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

Summary:

During FY 10-11, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.

C.9.f ►Interface with County Agricultural Commissioners

Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year?		**Yes**	X	**No**

If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary.

C.9.h.ii ►Public Outreach: Point of Purchase

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

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 10-11 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

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

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

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 10-11 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ►Short-Term Trash Loading Reduction Plan

(For FY 10-11 Annual Report only) Provide description of actions/tasks initiated/conducted/completed in developing a Short-Term Trash Loading Reduction Plan (due February 1, 2012).

Description*:* See the C.10 Trash Load Reduction section of Program's FY 10-11 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees. City of Palo Alto Public Works staff participate in the Program's Trash Management Ad Hoc Task Group and have provided input and comment on the draft Short-Term Trash Loading Reduction Plan. Staff will provide input values for the trash loading reduction formulas developed at the BASMAA level in order to document the City's compliance with the 40% trash loading reduction target as part of the Short-Term Trash Loading Reduction Plan submittal in February 2012.

C.10.a.ii ►Baseline Trash Load and Trash Load Reduction Tracking Method

(For FY 10-11 Annual Report only) Provide description of actions/tasks initiated/conducted/completed to gather trash loading data and in developing a Baseline Trash Load and Trash Load Reduction Tracking Method (due February 1, 2012).

Description*:* See the C.10 Trash Load Reduction section of Program's FY 10-11 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees. City of Palo Alto Public Works staff participate in the Program's Trash Management Ad Hoc Task Group and have provided input and comment on the Baseline Trash Load and Trash Load Reduction Tracking Methods. Staff has submitted street sweeping information to the Program for use in calculating Baseline trash loading rates for Palo Alto.

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

(For FY 10-11 Annual Report and Each Annual Report Thereafter) Provide description of actions/tasks initiated/conducted/completed in implementing Minimum Full Trash Capture Devices (due July 1, 2014) within individual jurisdictions. Include information on Full Trash Capture Devices installed under Bay-area Wide Trash Capture Demonstration Project administered by San Francisco Estuary Partnership.

Description*:* See the C.10 Trash Load Reduction section of Program's FY 10-11 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees. Palo Alto has entered into a contract with the San Francisco Estuary Partnership to receive grant funds for purchase of full trash capture devices. Public Works staff have identified two specific locations along Park Boulevard for installation of hydrodynamic separators that will address Palo Alto's full trash capture requirements. Staff is in discussion with Contech and Kristar regarding final selection of the specific model and size of hydrodynamic separator to be installed at each of the two sites. Funding is available in the FY2011-12 Storm Drainage Fund budget to pay for the residual cost of the units beyond the available grant amount and for the installation of the two devices. The required full trash capture devices will be installed in Spring 2012.

C.10.b.iii ►Trash Hot Spot Assessment

(For FY 10-11 Annual Report and Each Annual Report Thereafter) Provide volume of material removed from each Trash Hot Spot cleanup, and the dominant types of trash (e.g., glass, plastics, paper) removed and their sources to the extent possible.

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

Trash Hot Spot	Cleanup Date	Volume of Material Removed	Dominant Type of Trash	Trash Sources (where possible)
FY 2009-2010				
PAO01	5/15/2010	2.378	Sports balls, Bottles (plastic or glass), Paper and cardboard, Convenience/Fast Food items, Styrofoam, Furniture, Scrap metal	Trash accumulation, Litter
PAO02	5/15/2010	0.276	Bottles (plastic or glass), Paper and cardboard, Plastic bags, Aluminum cans, Other, Wood debris	Trash accumulation, Litter, Other
TOTAL		**2.654**		
FY 2010-2011				
PAO01	9/25/2010	0.576	Bottles (plastic or glass), Sports balls, Styrofoam, Plastic Bags, Paper and cardboard	Trash accumulation, Litter
PAO02	9/25/2010	0.938	Convenience/Fast Food items, Bottles (plastic or glass), Paper and cardboard, Plastic Bags, Other, Tires	Trash accumulation, Litter, Other
PAO01	5/21/2011	1.111	Sports balls, Bottles (plastic or glass), Styrofoam, Paper and cardboard, Other, Wood debris	Trash accumulation, Litter
PAO02	5/21/2011	1.514	Sports balls, Styrofoam, Paper and cardboard, Cigarette butts, Bottles (plastic or glass), Wood debris, Tires	Trash accumulation, Litter, Other
TOTAL		**4.139**		

C.10.d ►Summary of Trash Load Reduction Actions

Provide summary of new trash load reduction actions or increased levels of implementation of existing actions that were implemented after adoption of the MRP (control measures and best management practices) including the types of actions and levels of implementation, and the total trash loads and dominant types of trash removed from each type of action.

Suggested trash load reduction actions to track and report may include:

- Anti-litter Campaigns
- Anti-litter/Dumping Enforcement Activities
- Curbside Recycling Programs
- Education and Outreach Efforts
- Free Trash Pickup/Dropoff Days
- County HHW Program Activities
- Improved Trash Bin Management
- Inspection/Maintenance of Storm Drain Outfalls
- Litter Pickup and Control
- Removal of Homeless Encampments
- Solid Waste Recycling Efforts
- Source Controls/Bans/Prohibitions
- Storm Drain Operation and Maintenance
- Storm Drain Signage/Marking
- Street Sweeping Activities
- Trash Removal from Receptacles
- Volunteer Creek Cleanups

Type of Trash Load Reduction Action	Date of First Implementation	Level of Implementation (specify if level was increased after MRP adoption)	Total Trash Load Removed by Action	Dominant Types of Trash Removed by Action
Street Sweeping	Pre-MRP	Residential – weekly Business Districts – 3 times per week No changes since MRP.	Trash loads removed" were not tracked for all trash load reduction actions this fiscal year. Once the Trash Load Reduction Tracking Method is developed (see Provision C.10.a.ii), trash loads removed will be documented for each load reduction action.	Leaves, litter, and wind-blown trash
Hand sweeping of business districts	Pre-MRP	Daily hand sweeping of	Same as above.	Leaves, litter, and wind-

		streets/sidewalks in Downtown and California Avenue Business Districts by Downtown Streets Team. No change since MRP.		blown trash.
Curbside Recycling	1970s	Weekly curbside pick-up No changes since MRP.	Same as above.	See Appendix 10-1 for list of recycled materials.
Yard Waste pick-up	Pre-MRP	Weekly curbside pick-up No changes since MRP.	Same as above.	Yard trimmings and leaves.
Clean-up Day	Pre-MRP	Once per year by appointment. No changes since MRP.	Same as above.	Once-per-year pickup of large, bulky materials that will not fit in standard trash carts
Household Hazardous Waste Disposal Events	1983	Once per month or by appointment. Separate from Santa Clara County HHW events. No changes since MRP.	Same as above.	Household cleaners, paints, chemicals, pesticides, and other household hazardous waste products.
Catch basin cleaning	Pre-MRP	Annual cleaning of all storm drain catch basins. No change since MRP.	Same as above.	Leaves, silt, litter, and wind-blown trash.
Ordinance restricting single-use plastic bags at seven larger grocery stores (see Clean Bay Pollution Prevention Plan 2011 Section 7 for more information)	March 30, 2009	100% of larger grocery stores comply with requirement (adopted prior to MRP)	Same as above.	Plastic bags
Ordinance to restrict expanded polystyrene disposal food containers (see Clean Bay Pollution Prevention Plan 2011 Section 7 for more information)	April 22, 2010	99% of food service facilities comply with ordinance	Same as above	Polystyrene food packaging
Tarp program at landfill	July 1, 2009	Implemented prior to MRP. City Landfill has closed to the public effective July 2011.	Same as above	Wind-blown litter from vehicles
Volunteer Creek Cleanups	See Section C.7.g for more information			

Section 11 - Provision C.11 Mercury Controls

C.11.a.i ►Mercury Recycling Efforts

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

Refer to FY 10-11 Program Annual Report for a list of mercury collection and recycling efforts conducted countywide and regionally.

The City of Palo Alto made the following efforts to collect and recycle mercury containing devices in FY 2010-2011:

- In October and November 2010 a residential mercury thermometer collection event took place in Palo Alto, Los Altos, Stanford, East Palo Alto and Mountain View. Refer to FY 10-11 Program Annual Report, Section 4.C.3 for details of this event and a list of mercury collection and recycling efforts conducted in our service area
- The City 's HHW program collected mercury containing devices from Palo Alto residents at monthly HHW events and at weekly appointment-based events
- The Regional Water Quality Control Plant (RWQCP), which is owned and operated by the City, collected mercury containing devices from residents of Palo Alto, Mountain View, Los Altos, East Palo Alto, Los Altos Hills and Stanford University through its permanent HHW program that is available during weekday business hours.
- The RWQCP continued to educate the public about mercury and the need to properly manage mercury containing devices through its Cleanbay.org website, outreach events, and School Outreach program.
- RWQCP industrial waste inspectors continued to identify mercury thermometers during inspections and to require businesses to comply with ordinance provisions that require most mercury thermometers to be replaced with safer alternatives.

C.11.a.ii ►Mercury Collection

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

Amount collected:

Not all mercury and PCB load reduction actions were tracked using "loads removed" methods this fiscal year. In the Program's FY 09-10 Annual Report and/or the BASMAA Regional POC Report, an initial Mercury and PCB Load Reduction Tracking Method was presented (see Provision C.11.g). Based on Water Board staff comments, a revised method will be presented in the Program's FY 10-11 Annual Report and/or the BASMAA Regional POC Report. Based on this methodology, loads removed via the collection/recycling of mercury-containing products will be documented beginning in FY 11-12.

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

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

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of Program's FY 10-11 Annual Report and/or the BASMAA Regional POC Report.

Section 12 - Provision C.12 PCBs Controls

C.12.a.i,iii ►Municipal Inspectors Training

(For FY 09-10 Annual Report only) List below or attach description of results of training municipal industrial inspectors to identify, in the course of their existing inspections, PCBs or PCB-containing equipment.

Description:

In FY 09-10, inspector training materials were developed by BASMAA and provided in the FY 09-10 BASMAA Regional POC Report. A description of efforts to train municipal industrial inspectors was provided in FY 09-10 permittee and/or Program Annual Reports.

C.12.a.ii,iii ►Ongoing Training

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

Description:

See the FY 10-11 Program Annual Report for a description of training provided countywide and/or regionally, and report on any local training efforts, if applicable.

C.12.b ►Conduct Pilot Projects to Evaluate Managing PCB-Containing Materials and Wastes during Building Demolition and Renovation Activities
C.12.c ►Pilot Projects to Investigate and Abate On-land Locations with Elevated PCB Concentrations
C.12.d ►Conduct Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices
C.12.e ►Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit
C.12.f ►Diversion of Dry Weather and First Flush Flows to POTWs
C.12.g ►Monitor Stormwater PCB Pollutant Loads and Loads Reduced
C.12.h ►Fate and Transport Study of PCBs In Urban Runoff
C.12.i ►Development of a Risk Reduction Program Implemented Throughout the Region

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

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of Program's FY 10-11 Annual Report and/or the BASMAA Regional POC Report.

Palo Alto voluntarily supplied samples of caulk materials from two 1960s-70s vintage municipal buildings that were being demolished to assist with the characterization of PCB levels in caulk. The samples were analyzed as part of the BASMAA-level project addressing PCBs in Caulk.

Section 13 - Provision C.13 Copper Controls

C.13.a.i and iii ► Legal Authority: Architectural Copper

(For FY 10-11 Annual Report only) Do you have adequate legal authority to prohibit discharge of wastewater to storm drains generated from the installation, cleaning, treating, and washing of the surface of copper architectural features, including copper roofs to storm drains?	**X**	**Yes**		**No**

If **No**, explain and provide schedule for obtaining authority within 1 year:

C.13.b.i and iii ► Legal Authority: Pools, Spas, and Fountains

(For FY10-11 Annual Report only) Do you have adequate legal authority to prohibit discharges to storm drains from pools, spas, and fountains that contain copper-based chemicals?	**X**	**Yes**		**No**

If **No**, explain and provide schedule for obtaining authority within 1 year:

C.13.c ►Vehicle Brake Pads

Reported in a separate regional report.

A summary of the countywide Program's participation with the Brake Pad Partnership (BPP) is included within the C.13 Copper Controls section of Program's FY 10-11 Annual Report and/or the BASMAA Regional POC Report.

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

Based upon inspection activites 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:

Industrial facilities are identified and inspected in accordance to the program outlined in the 2010 Annual Pretreatment Report. Particular attention has been paid to outdoor storage and other potential exposure to stormwater. The roofs and exhaust systems for metal finishes are being addressed in 2011-2012.

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

Report on progress of studies being conducted countywide or regionally to reduce copper pollutant impact uncertainties. State below if information is reported in a separate regional report.

Summary:

A summary of the countywide Program and/or regional efforts to develop regional studies to reduce copper pollutant impact uncertainties is included within the C.13 Copper Controls section of Program's FY 10-11 Annual Report and/or BASMAA Regional POC Report.

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

C.14.a ►Control Programs for PBDEs, Legacy Pesticides and Selenium Controls

Report on progress of studies being conducted countywide or regionally to characterize the distribution and pathways of PBDEs, legacy pesticides, and selenium. State below if information is reported in a separate regional report.

Summary:

A summary of the countywide Program and regional efforts related to the Control Program for PBDEs, Legacy Pesticides and Selenium is included within the C.14 PBDE, Legacy Pesticides and Selenium section of Program's FY 10-11 Annual Report and/or BASMAA Regional POC Report.

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

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

Is your agency a water purveyor?	X	Yes		No

If **No**, skip to C.15.b.vi.(2):

If **Yes**, Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below.

Comments: Water Utility Operations staff have revised their field practices to comply with MRP requirements for sampling, testing, and documentation of planned and unplanned discharges of potable water. Staff samples discharges and performs field tests for turbidity, pH, and chlorine residual. Staff has retained EOA, Inc. to assist with updating the City's Water Utility Operations & Maintenance Discharge Pollution Prevention Plan. Staff participates in the Program's Water Utility Ad Hoc Task Group. Public Works staff also met with Fire Department staff in order to discuss revisions to the Departmental General Order related to discharge of water during firefighting operations. The General Order was modified in FY 2010-11.

The attached tables document sampling and testing of planned discharges of potable water performed by Water Utilities Operations staff during FY 2010-11. No sampling and testing data is available for unplanned discharges during FY 2010-11.

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

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

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

Summary: The City Utilities Department offers several rebate and technical assistance programs to residents and businesses that promote water conservation, drought-tolerant landscaping, and less-toxic pest management. Further details are available online at http://www.cityofpaloalto.org/news/displaynews.asp?NewsID=473&targetid=139 (residential) and at http://www.cityofpaloalto.org/news/displaynews.asp?NewsID=472&targetid=139 (commercial).

Water conservation for outdoor landscaping is required for new development and redevelopment projects through the City's Green Building Ordinance. The City has adopted the CalGreen Building Code, which integrates green building practices with water conservation requirements.

The Public Works Environmental Compliance Division actively promotes the Bay-Friendly Landscaping Program and the Our Water, Our World campaign to promote the use of less-toxic pest management techniques and native, drought-tolerant landscaping.

The Program-wide *Watershed Watch* Campaign, which conducts outreach for less toxic pest control and appropriate irrigation practices is described in the C.7. Public Information and Outreach section of the Program's FY 10-11 Annual Report. The Program-wide *IPM Store Partnership* and *Green Gardener Training* Programs are described in the C.9. Pesticide Toxicity Control section of the Program's FY 10-11 Annual Report.

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
1	1056 Colorado Place blowoff	mc	70'	4"	5/23/11	2.01	8:30	8:40	8.7	5	0.02	750	7500	b-c	dc/jw
2	1070 Colorado Place blowoff	mc	123'	4"	5/23/11	2.05	8:50	9:15	8.8	4	0.00	750	18750	b-c	dc/jw
3	3089 Higgins Place	mc	338'	6"	5/23/11	1.96	9:35	9:45	8.8	0	0.03	700	7000	b-c	dc/jw
4	2955 Otterson Ct.	mc	315'	4"	5/23/11	1.88	10:10	10:20	8.8	3	0.04	750	7500	b-c	dc/jw
5	3149 Genevieve Ct.	mc	255'	4"	1/3/11	1.79	15:00	15:12	8.7	21	0.00	800	9600	b-c	cd/dc
6	Palo Alto Airport/wash rack area	mc	2600'	10"	1/19/11	1.26	14:20	14:35	8.6	6	0.00	750	11250	b-c	cd/dc
7	1175 Lincoln Blowoff/easement	sfc	360'	4"	6/2/11	2.01	9:15	9:28	8.5	4	0.02	250	3250	b-c	cd/jw
8	3202 Maddux	mc	227'	4"	5/23/11	2.04	10:35	10:50	8.6	5	0.03	875	13125	b-c	dc/jw
9	853 Sharon Ct.	mc	287'	4"	5/23/11	2.01	11:05	11:15	8.8	3	0.03	750	7500	b-c	dc/jw
10	861 Newell Pl.	mc	182'	4"	5/23/11	2.1	12:30	12:40	8.7	1	0.01	800	8000	b-c	dc/jw
11	1536 Louisa Ct.	mc	228'	4"	5/23/11	2.07	12:50	13:00	8.8	3	0.02	775	7750	b-c	dc/jw
12	97 Erstwild Ct.	mc	447'	6"	5/23/11	2	13:25	13:30	8.8	4	0.03	825	4125	b-c	dc/jw
13	90 Jordan Pl.	mc	221'	4"	5/23/11	2.02	13:55	14:05	8.6	0	0.01	800	8000	b-c	dc/jw
14	80 Alannah Ct.	sfc	219'	4"	5/31/11	2.09	13:05	13:17	8.7	1	0.03	750	9000	b-c	dc/jw
15	60 Hamilton Ct.	mc	216'	6"	5/31/11	2.05	14:35	14:56	8.6	3	0.02	575	12075	b-c	dc/jw
16	40 Tevis Pl.	mc	234'	6"	5/31/11	2.01	15:05	15:19	8.6	2	0.02	650	9100	b-c	dc/jw
17	1453 Kings Lane	mc	685'	6"	6/1/11	2.1	12:50	13:05	9.3	4	0.04	650	9750	y-c	cd/jw
18	80 Kirby Pl.	mc	212'	6"	6/1/11	2.06	13:10	13:22	9.1	5	0.04	700	8400	y-c	cd/jw
19	1017 Forest Ct.	mc	204'	6"								650	0		
20	80 Kent Pl.	mc	230'	6"								700	0		
21	40 Regent Pl.	mc	218'	6"	6/1/11	2.12	13:30	13:42	8.9	3	0.05	675	8100	y-c	cd/jw
22	40 Somerset Ct.	mc	213'	6"	6/2/11	2.07	9:55	10:09	8.6	0	0.02	675	9450	y-c	cd/jw
23	275 Southwood Dr.	mc	141'	6"	6/2/11	2.28	10:20	10:42	9.2	0	0.03	700	15400	y-c	cd/jw
24	EPA and CPA Interconnect (once/year)	sfc	130'	6"								575	0		
25	100 Middlefield & 600 blk of Palo Alto Ave.	sfc	170'	6"	6/1/11	2.34	13:55	14:10	9.3	9	0.04	500	7500	y-c	cd/jw
26	2046 Edgewood Dr.	mc	210'	4'	5/25/11	2.11	13:52	14:10	8.7	2	0.03	750	13500	y-c	dc/mp
27	1978 Edgewood Dr.	mc	215'	4"	6/1/11	1.99	14:42	14:52	7.2	6	0.04	750	7500	y-c	cd/jw
28	1918 Edgewood Dr.	sfc	215'	4"	6/1/11	1.98	14:23	14:52	8.9	4	0.05	750	21750	y-c	cd/jw
29	2053 Sandalwood Ct.	mc	225'	4"	6/2/11	2.09	10:55	11:05	8.0	1	0.03	845	8450	y-c	cd/jw
30	2100 Bellview Dr.	mc	290'	4"	6/2/11	2.24	12:30	12:40	9.3	5	0.05	800	8000	y-c	cd/jw
31	750 Greenwich Pl.	mc	208'	6"	4/26/11	1.83	14:05	14:10	8.8	5	0.00	710	3550	y-c	cd/mp
32	100 Waverly Oaks	mc	216'	6"	6/2/11	2.11	13:00	13:12	9.1	0	0.18	750	9000	y-c	cd/jw
33	2319 Sierra Ct.	mc	380'	4"	6/2/11	1.99	14:32	14:44	8.0	0	0.15	850	10200	y-c	cd/jw
34	2331 Carmel Dr.	mc	407'	6"	4/28/11	2.08	13:34	13:50	7.9	2	0.00	850	13600	y-c	cd/mp
35	2479 Chabot Terrace	mc	390'	4"	6/8/11	2.01	13:03	13:15	7.8	0	0.04	850	10200	y-c	cd/mp

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
36	865 Garland Dr.	mc	172'	4"	4/27/11	1.88	14:00	14:22	8.7	2	0.01	825	18150	y-c	cd/mp
37	845 Garland Dr.	mc	172'	4"	4/27/11	1.84	14:15	15:07	9.1	1	0.00	825	42900	y-c	mt/jw
38	613 Marion Pl.	mc	160'	4"	6/8/11	2.18	13:23	13:35	8.9	0	0.00	750	9000	y-c	cd/jw
39	470 Anton	mc	215'	4"	6/8/11	2.17	13:45	14:00	9.2	6	0.06	750	11250	y-c	cd/jw
40	1090 Moreno Ave.	mc	210'	4"	5/16/11	2.22	13:09	13:45	8.6	2	0.07	800	28800	y-c	mt/mp
41	2651 Elmdale Pl.	mc	190'	4"	6/8/11	1.98	14:20	14:37	7.9	0	0.05	875	14875	y-c	cd/jw
42	950 Sycamore Dr.	mc	493'	4"	6/8/11	2.04	14:40	14:52	9.1	0	0.04	710	8520	y-c	cd/jw
43	3161 Greer Rd.	mc	220'	4"	6/9/11	2.17	11:25	11:43	8.5	7	0.01	800	14400	y-c	cd/jw
44	3551 Greer Rd.	mc	305'	4"	6/9/11	2.21	14:18	14:30	8.0	1	0.05	710	8520	y-c	cd/jw
45	3301 Kenneth Dr.	mc	271'	4"	6/9/11	2.08	13:35	13:44	7.9	0	0.06	710	6390	y-c	cd/jw
46	3303 Thomas Ave.	mc	217'	4"	6/9/11	2.19	10:42	11:14	8.9	3	0.02	710	22720	y-c	cd/jw
47	3440 Greer Rd.	mc	143'	4"	6/9/11	2.13	13:50	14:00	7.9	0	0.03	710	7100	y-c	cd/jw
48	Duluth Circle	mc	197'	4"	6/13/11	2.24	7:50	8:02	8.9	0	0.04	500	6000	y-c	cd/mp
49	931 Clara Dr.	mc	150'	4"	6/9/11	2.12	14:38	14:54	9.1	3	0.04	710	11360	y-c	cd/mp
50	Lawrence Ct.	mc	350'	4"	6/10/11	2.1	13:00	13:10	8.4	3	0.03	250	2500	y-c	dc/jw
51	921 Moraga Ct.	mc	130'	6"	6/13/11	2.14	9:23	9:34	8.7	0	0.00	400	4400	y-c	cd/mp
52	915 Bautista Ct.	mc	315'	6"	6/13/11	2.14	8:57	9:05	9.1	4	0.01	710	5680	y-c	cd/mp
53	3248 Clifton Ct.	mc	345'	6"	6/13/11	2.07	8:30	8:49	8.9	4	0.03	710	13490	y-c	cd/mp
54	864 Fielding Ct.	mc	190'	6"	6/13/11	2.17	9:41	10:00	8.1	0	0.08	800	15200	y-c	cd/mp
55	805 Sycamore Dr.	mc	770'	6"	6/13/11	2.03	10:42	10:52	8.9	6	0.03	710	7100	y-c	cd/mp
56	2908 Sevyson Ct.	mc	225'	4"	6/13/11	2.08	13:25	13:47	8.9	5	0.04	710	15620	y-c	cd/mp
57	846 Sutter Ave.	mc	450'	4"	6/13/11	2.03	14:03	14:17	9.2	3	0.03	710	9940	y-c	cd/mp
58	873 Clara Dr.	mc	114'	4"	6/13/11	2.05	14:35	14:53	9.1	5	0.03	850	15300	y-c	cd/mp
59	3105 David Ave.	mc	290'	4"	6/14/11	2.2	12:48	13:19	8.8	11	0.03	600	18600	y-c	cd/mp
60	3101 Stelling Ct.	mc	117'	4"	6/14/11	1.85	14:35	14:50	8.6	8	0.00	710	10650	y-c	cd/mp
61	3139 David Ct.	mc	145'	4"	6/14/11	2.08	13:25	13:36	8.2	9	0.05	710	7810	y-c	cd/mp
62	886 Richardson Ct.	mc	230'	4"	6/15/11	1.96	13:15	13:33	7.8	10	0.03	710	12780	y-c	cd/mp
63	874 Ames Ct.	mc	195'	4"	6/14/11	2.02	13:55	14:25	8.0	10	0.00	710	21300	y-c	cd/mp
64	3249 Greer Ct.	mc	276'	4"	6/9/11	2.17	13:25	13:36	8.7	2	0.06	710	7810	y-c	cd/mp
65	726 Rosewood Dr.	mc	529'	6"	6/15/11	2.06	14:00	14:10	9.1	9	0.00	650	6500	y-c	cd/mp
66	780 Rosewood Dr.	mc	139'	6"	6/15/11	2.03	13:45	13:55	7.5	4	0.00	650	6500	y-c	cd/mp
67	2755 Randers Ct.	mc	290'	4"	6/15/11	2.01	14:25	14:36	8.9	4	0.00	750	8250	y-c	cd/mp
68	3048 Price Ct.	mc	325'	4'	6/20/11	2.14	9:33	9:52	8.5	6	0.03	600	11400	y-c	cd/mp
69	3019 Price Ct.	mc	435'	4"	6/20/11	2.2	10:03	10:10	7.9	6	0.03	600	4200	y-c	cd/mp
70	761 Allen Ct.	mc	458'	4"	6/20/11	2.17	10:30	10:40	7.8	5	0.00	710	7100	y-c	cd/mp

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
71	740 Allen Ct.	mc	454'	4"	6/20/11	2.1	10:43	10:50	7.8	1	0.03	710	4970	y-c	cd/mp
72	3355 Cork Oak Wy.	mc	198'	4"	6/20/11	1.99	11:15	11:30	7.7	4	0.03	710	10650	y-c	cd/mp
73	3451 Cork Oak Wy.	mc	520'	4"	6/20/11	2.2	13:15	13:25	7.7	1	0.02	710	7100	y-c	cd/mp
74	762 Stone Lane	mc	460'	6"	6/20/11	2.03	13:48	14:05	8.4	6	0.01	961	16337	y-c	cd/mp
75	2551 Webster St.	mc	218'	6"	6/21/11	2.38	13:45	13:56	8.1	9	0.05	710	7810	y-c	mt/jw
76	2522 Webster St.	mc	299'	6"	6/20/11	2.16	14:25	14:38	8.9	4	0.03	710	9230	y-c	cd/mp
77	754 San Carlos Ct.(550' /11pcs-50' hose)	mc	540'	6"								900	0		
78	2745 Byron St.	mc	302'	6"	6/21/11	2.34	14:05	14:15	8.9	12	0.00	710	7100	y-c	mt/jw
79	605 Towle Wy.	mc	162'	4"	6/21/11	2.09	15:08	15:13	8.1	3	0.01	580	2900	y-c	mt/jw
80	646 Towle Pl.	mc	200'	4"	6/21/11	2.29	14:33	14:49	8.1	5	0.00	710	11360	y-c	mt/jw
81	606 Wellsbury Ct.	mc	160'	4"	6/22/11	2.19	13:30	13:41	8.5	1	0.01	710	7810	y-c	mt/jw
82	3103 Flowers Ln.	mc	431'	4"	6/22/11	2.15	13:55	14:10	8.3	5	0.02	710	10650	y-c	mt/jw
83	3101 Avalon Ct.	mc	461'	6"	6/22/11	2.15	14:20	14:34	8.5	2	0.02	700	9800	y-c	mt/jw
84	3190 Mackall Wy.	mc	275'	4"	6/22/11	2.09	14:47	15:04	8.2	1	0.05	700	11900	y-c	mt/jw
85	467 Gary Ct.	mc	170'	4"	6/23/11	2.03	13:20	13:35	8.5	2	0.02	700	10500	y-c	mt/mp
86	469 Martinsen Ct.	mc	175'	4"	6/23/11	2.06	12:45	13:07	8.8	2	0.03	710	15620	y-c	mt/mp
87	2930 Kipling	mc	618'	6"	6/23/11	2.06	13:45	14:18	8.8	0	0.01	710	23430	y-c	mt/mp
88	3346 Kipling St.	mc	160'	4"	6/27/11	2.09	8:35	8:47	9.1	8	0.00	710	8520	y-c	cd/mp
89	3351 St. Michael Dr.	mc	355'	4"	6/27/11	2.12	9:04	9:28	8.2	7	0.00	500	12000	y-c	cd/mp
90	3462 Murdoch Ct.	ac	160'	4"	6/27/11	2.09	9:40	9:55	9.1	6	0.05	500	7500	y-c	cd/mp
91	3472 Cowper Ct	ac	415'	4"	6/27/11	2.19	11:19	11:35	7.9	3	0.05	710	11360	y-c	cd/mp
92	3463 Ashton Ct.	ac	250'	4"	6/27/11	2.16	10:40	10:51	9.1	4	0.05	710	7810	y-c	cd/mp
93	728 Layne Ct.	mc	350'	6"	6/27/11	1.83	11:02	11:11	9.1	0	0.12	800	7200	y-c	cd/mp
94	3187 Loma Verde Place	mc	200'	6"	6/24/11	2.04	13:45	13:51	8.7	0	0.00	600	3600	y-c	dc/jw
95	852 Ross Ct.	mc	415'	4"	6/24/11	1.99	13:20	13:40	8.7	3	0.02	800	16000	y-c	dc/jw
96	3700 Nathan Way	ac	150'	4"	6/23/11	2.05	14:30	14:55	8.6	2	0.01	710	17750	y-c	dc/jw
97	3738 Ortega Ct.	ac	600'	8"	6/23/11	2.1	13:55	14:20	8.5	7	0.00	500	12500	y-c	dc/jw
98	3868 Corina Ct.	ac	185'	6"	6/23/11	2.01	13:10	13:40	8.6	3	0.02	800	24000	y-c	dc/jw
99	4125 Sutherland Dr.	ac	303'	6"	6/23/11	2.06	12:50	13:00	8.5	4	0.01	710	7100	y-c	dc/jw
100	455 El Capitan	ac	420'	4"	6/23/11	2.02	12:30	12:40	8.5	3	0.01	710	7100	y-c	dc/jw
101	3956 Nelson Ct.	ac	230'	4"	6/23/11	2.11	8:50	9:05	8.6	1	0.00	710	10650	y-c	dc/jw
102	410 Adobe Pl.	ac	240'	4"	6/23/11	2.07	9:30	9:45	8.4	2	0.01	710	10650	y-c	dc/jw
103	3945 Duncan Pl.	ac	143'	4"	6/23/11	2.01	10:15	10:25	8.6	4	0.02	800	8000	y-c	dc/jw
104	3893 Mumford	ac	510'	4"	6/23/11	2.14	10:50	11:07	8.5	2	0.02	750	12750	y-c	dc/jw
104	3872 Dixon Pl.	ac	347'	4"	6/23/11	2.12	11:15	11:25	8.7	3	0.02	750	7500	y-c	dc/jw

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
106	115 Lundy	ac	340'	4"	6/23/11	2.04	11:35	11:43	8.6	1	0.01	750	6000	y-c	dc/jw
107	244 Greenmeadow Wy.	ac	270'	4"	6/28/11	2.01	9:14	9:20	8.3	1	0.01	750	4500	y-c	mt/jw
108	369 Calcaterra Ct.	ac	305'	4"	6/28/11	2.21	9:35	9:43	8.5	6	0.02	750	6000	y-c	mt/jw
109	4140 Mackay Ct.	ac	212'	4"	6/27/11	2.3	14:31	14:48	7.5	8	0.04	750	12750	y-c	cd/mp
110	458 Ferne	ac	160'	4"	6/28/11	2.1	9:55	10:21	8.5	3	0.01	750	19500	y-c	mt/jw
111	482 Ferne	ac	180'	4"	6/28/11	2.16	10:30	10:35	8.0	7	0.02	352	1760	y-c	mt/jw
112	176 Ferne Ave.	ac	164'	6"	6/28/11	1.93	10:45	10:49	8.4	2	0.05	417	1668	y-c	mt/jw
113	271 Fairfield Ct.	ac	175'	4"	6/28/11	2.01	11:10	11:20	8.8	1	0.05	750	7500	y-c	mt/jw
114	355 Christopher Ct.	ac	323'	4"	6/28/11	2.15	11:35	11:45	8.2	0	0.03	710	7100	y-c	mt/jw
115	137 Hemlock Ct.	ac	160'	4"	6/28/11	2.27	12:35	13:04	8.8	3	0.05	610	17690	y-c	mt/jw
116	100 Sheridan Ct.	ac	226'	6"	1/20/11	2.14	14:17	14:27	8.7	1	0.00	352	3520	y-c	cd/mp
117	3951 Ventura Ct.(blow off at school)	bc	289'	6"	1/19/11	2.23	13:50	14:05	8.8	6	0.03	710	10650	y-c	cd/mp
118	290 Davenport Wy.	bc	251'	4"	1/10/11	1.87	13:00	13:19	9.1	7	0.02	500	9500	y-c	cd/mp
119	301 Victoria Pl.	bc	179'	4"	6/28/11	2.15	13:20	13:39	8.9	1	0.05	710	13490	y-c	mt/jw
120	301 Barclay Ct.	bc	173'	4"	6/28/11	2.14	13:46	14:03	8.3	0	0.05	610	10370	y-c	mt/jw
121	4125 Wilkie Ct.	bc	190'	4"	6/28/11	2.16	14:15	14:31	7.7	1	0.03	710	11360	y-c	mt/jw
122	4129 El Camino Way	bc	201'	6"	6/29/11	2.26	13:45	13:56	8.7	0	0.03	710	7810	y-c	mt/mp
123	464 Tennessee Ln.	bc	366'	6"	6/29/11	2.3	14:03	14:19	8.9	8	0.00	710	11360	y-c	mt/mp
124	470 Carolina Ln.	bc	303'	4"	6/29/11	2.17	14:54	15:17	8.6	2	0.00	610	14030	y-c	mt/mp
125	245 Whitclem Ct.	ac	85'	4"	6/29/11	2.3	14:50	14:54	8.7	0	0.02	610	2440	y-c	dc/jw
126	281 Whitclem Way	ac	150'	4"	6/29/11	2.3	14:38	14:48	8.6	2	0.03	710	7100	y-c	dc/jw
127	361 Whitclem Pl.	ac	183'	4"	6/29/11	2.31	14:01	14:32	8.7	4	0.01	710	22010	y-c	dc/jw
128	4224 Darlington Ct.	ac	183'	4"	7/6/11	2.13	12:50	12:58	8.0	4	0.00	710	5680	y-c	mt/mp
129	4254 Newberry Ct.	ac	227'	4"	6/30/11	2.36	12:30	12:41	8.8	2	0.03	865	9515	y-c	dc/jw
130	4394 Miller Ave.	ac	728'	6"	6/30/11	2.28	14:10	14:20	8.8	1	0.01	710	7100	y-c	dc/jw
131	4374 Miller Ct.	ac	525'	4"	6/30/11	2.21	13:00	13:55	8.6	4	0.01	710	39050	y-c	dc/jw
132	4331 Cesano Ct.	ac	780'	4"	7/6/11	2.18	10:10	10:36	8.9	1	0.05	710	18460	y-c	dc/jw
133	4360 Silva Ct.	ac	504'	4"	6/30/11	2.23	14:30	14:45	8.7	2	0.02	710	10650	y-c	dc/jw
134	4392 Silva Ave. (CPA-painted silver)	ac	591'	8"	7/6/11	2.25	10:53	11:10	8.7	4	0.04	710	12070	y-c	mt/mp
135	CPA / M.V. intercon. Monroe & Sylva Ave	ac	3'	10"								701	0		
136	4275 McKellar Ln.	bc	815'	6"	4/22/11	1.75	13:02	13:25	9.0	3	0.05	710	16330	o-c	cd/mp
137	4244 Lorabelle Ct.	bc	131'	4"	7/6/11	1.62	13:20	13:40	8.0	4	0.05	710	14200	o-c	mt/mp
138	3650 La Calle	mc	190'	4"								865	0		
139	3740 Carlitos	mc	180'	4'	7/6/11	2.11	14:32	15:16	8.7	4	0.06	710	31240	b-c	jw
140	3747 La Calle	mc	260'	4"								710	0		

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
141	825 Ilima Ct.	mc	409'	4"	6/30/11	2.33	8:25	8:37	9.2	0	0.03	710	8520	o-c	cd/mp
142	3744 Laguna Oaks Pl.	mc	225'	4"	6/30/11	2.09	9:40	9:55	8.3	4	0.05	750	11250	o-c	cd/mp
143	1014 Paradise Way	mc	137'	6"	6/30/11	2.22	10:10	10:25	8.5	6	0.03	865	12975	b-c	cd/mp
144	1017 Paradise Way	mc	88'	6"	6/30/11	2.37	8:47	9:03	8.4	2	0.10	804	12864	b-c	cd/mp
145	1096 McGregor	mc	144'	6"	6/30/11	2.22	10:26	10:37	8.6	0	0.05	804	8844	o-c	cd/mp
146	980 Shauna Ln.	mc	357'	6"	6/30/11	2.25	10:45	10:55	9.1	0	0.05	569	5690	b-c	cd/mp
147	4095 El Cerrito Rd.	bc	229'	8"	6/30/11	1.79	13:30	13:40	9.1	0	0.05	865	8650	o-c	cd/mp
148	3925 El Cerrito Rd.	bc	626'	8"	6/30/11	2.14	13:50	14:03	9.1	0	0.05	710	9230	o-c	cd/mp
149	627 Georgia Ave.	bc	300'	4"	6/30/11	2.38	14:15	14:46	7.0	4	0.00	865	26815	b-c	cd/mp
150	4138 Amaranta Ct.	bc	177'	4'	7/6/11	2.19	9:15	9:21	8.1	6	0.05	710	4260	b-c	mt/mp
151	3537 Julie Ct. (flush to manhole sewer)	mc	136'	6"								710	0		
152	644 Maybell	mc	270'	6"								710	0		
153	4135 Maybell Way	bc	355'	4"								710	0		
154	556 Pena Ct.	bc	197'	4"	1/10/11	1.96	13:33	14:05	9.0	4	0.04	710	22720	o-c	cd/mp
155	540 Irven Ct.	bc	165'	4"								500	0		
156	567 Irven Ct.	bc	184'	4"								500	0		
157	305 Tioga Ct.	ac	380'	4"								500	0		
158	321 Diablo Ct.	ac	380'	4"								158	0		
159	222 Scripps Ct.	ac	320'	4"								352	0		
160	3861 Grove Ct.	ac	85'	4'								610	0		
161	3878 Grove Ave.	ac	525'	6"								610	0		
162	3888 Grove Ave.	ac	57'	6"								610	0		
163	3923 Grove Ct.	ac	197'	4'								610	0		
164	638 Keats Ct.	ac	280'	4"								700	0		
165	770 Gailen Ct.	ac	140'	4'								500	0		
166	723 Gailen Ct.	ac	200'	4"								500	0		
167	713 Charleston Ct.	ac	230'	4"								500	0		
168	741 Ensign Way.	ac	345'	6"								650	0		
169	4147 Byron. (new blow off /San Antonio)	ac		6"								700	0		
170	Building 25 (blow off)	ac	288'	4'								263	0		
171	Building 13 (blow off)	ac	218'	4"								500	0		
172	Building 9 (blow off)	ac	265'	4"								500	0		
173	3879 May Ct.(inform customer 1 day before flushing)	ac	390'	6"	1/29/11	2.19	13:22	13:40	9.3	0	0.29	850	15300	y-c	cd/mp
174	749 Maple Wood Pl.	ac	233'	4"								850	0		

BLOW-OFF FLUSHING LIST- (DEAD ENDS)

Abbreviations: B=Brown Water, Y=Yellow Water, C=Clear Water

#	Location	Water Shed CreekID	Length of Main	Size	Date	Chlorine Residual	Flush Time Start	Flush Time End	PH	NTU	After De-Chlor	Flow read.	Ttl. Flow	Quality	IN.
175	3750 Wrights Pl.	ac	274'	4"								800	0		
176	3361 Emerson Ct.	bc	330'	6"								710	0		
177	3998 Bibbits Ct.	ac	360'	4"								900	0		
178	4185 Cherry Oaks Pl.	bc	330'	6"	1/13/11	1.95	13:38	13:48	8.6	6	0.00	900	9000	y-c	cd/mp
179	4161 King Arthurs Ct.	bc	465'	6"	1/13/11	1.88	13:57	14:05	9.0	1	0.04	500	4000	y-c	cd/mp
180	4252 Los Palos Pl.	ac	250'	4"								710	0		
181	4280 Los Palos Cir.	ac	136'	4"								710	0		
182	663 Glenbrook Dr.	ac	197'	6"								710	0		
183	566 Glenbrook Dr.	ac	490'	6"								710	0		
184	Cypress Lane	mc	760'	6"								700	0		
185	3802 Magnolia Ct.	mc	207'	6"								700	0		
186	810 Mesa Ct.	bc	487'	6"								700	0		
187	4196 Mesa Ave. Blowoff	bc	150'	4"								710	0		
188	830 Arroyo Ct.	ac	225'	6"								710	0		
189	854 Miranda Green	ac	600'	6"								750	0		
190	840 Moana Ct.	ac	450'	6"								750	0		
191	4339 Miranda Ct.	ac	125'	4"								750	0		
192	4369 Miranda Ave. Blowoff	ab	3700'	8"								750	0		
193	4290 Manuela Way Blowoff	mc	570'	6"								750	0		
194	550 Chimalus Dr.(hydrant better than B/off)	mc	425'	6"								350	0		
195	719 West Place(Garland)	mc	157'	6"								710	0		
196	766 East Place (Garland)	mc	172'	6"								710	0		
197	860 San Jude Ave.	mc	497'	6"								710	0		
198	748 San Jude Ave.	mc	354'	6"								500	0		
199	2250 St. Francis	mc	400'	6"								710	0		
200	25955 Estacada Way Blowoff	mc	220'	8"	1/19/11	2.24	14:00	14:10	7.1	6	0.00	710	7100	o-c	cd/mp
201	4158 Crosby Pl.	bc	123'	4"								710	0		
202	4172 Wallis Ct.	bc	155'	4"								710	0		
203	890 Robb Rd.	bc	845'	6"	5/19/11	2.26	13:00	13:26	9.1	1	0.02	600	15600	y-c	mt/mp
204	4160 Rincon Circle	bc		4"								900	0		
205	Clark Wy. 2” blowoff at Stanford interconnect	sfc	32'	8"								600	0		
206	1850 Oak Creek Apts.	sfc		10"								600	0		
207	1791 Caballo Lane	sfc	10'	10"								710	0		
													1644368		

Receiving water legend: ac = Adobe Creek; bc = Barron Creek; mc = Matadero Creek; sfc = San Francisquito Creek

FY 2010-11 City of Palo Alto Storm Water Annual Report

Table of Contents for Appendices

Appendix 3-1

C.3.a: Staff Report Amending Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention)

TO: HONORABLE CITY COUNCIL

FROM: CITY MANAGER **DEPARTMENT: PUBLIC WORKS**

DATE: DECEMBER 13, 2010 **CMR: 445:10**

REPORT TYPE: CONSENT

SUBJECT: Adoption of an Ordinance Amending Chapter 16.11 of the Palo Alto Municipal Code Pertaining to Storm Water Pollution Prevention Measures; and Adoption of a Resolution Amending the Fiscal Year 2011 Municipal Fee Schedule to Reduce Plan Check Fees for Land Development Projects Subject to Palo Alto Municipal Code Chapter 16.11

RECOMMENDATION

Staff recommends that Council:

1. Adopt the attached ordinance (Attachment A) amending Chapter 16.11 of the Palo Alto Municipal Code (Storm Water Pollution Prevention) to reflect new storm water pollution prevention requirements for land development projects mandated by the Regional Water Quality Control Board.
2. Adopt the attached resolution (Attachment B) modifying the FY2011 Municipal Fee Schedule to reflect lower plan check fees for land development projects subject to Palo Alto Municipal Code Chapter 16.11.

EXECUTIVE SUMMARY

Staff recommends adoption of ordinance modifications affecting land development projects in order to comply with a new storm water discharge permit issued by the Regional Water Quality Control Board to Palo Alto and other Bay Area communities. The new requirements require greater control and enhanced treatment of storm water runoff in order to protect creeks from increased pollutants and erosion. Staff recommends that permit applicants for regulated projects be required to have their compliance certified by a third party in order to avoid the need for the City to hire new staff. The use of third-party certification allows staff to recommend a decrease in current plan check fees.

BACKGROUND

Beginning in 2001, the San Francisco Bay Regional Water Quality Control Board (Water Board) identified land development activity as a significant potential pollutant source in the region, threatening the water quality in local creeks and San Francisco Bay. Accordingly, National Pollutant Discharge Elimination System (NPDES) storm water permits issued since that time have included a set of pollution prevention requirements imposed upon land development and redevelopment projects. In fall 2003, to implement the initial requirements stipulated in the 2001 storm water permit, Council adopted a storm water pollution prevention ordinance (codified into

Palo Alto Municipal Code [PAMC] Chapter 16.11) that required projects that create or replace one acre or more of impervious surface to incorporate treatment measures and other appropriate source control and site design measures into projects to reduce pollutant discharges to the maximum extent practicable (CMR:255:03). The Water Board has imposed stricter land development controls in each subsequent permit issuance in an effort to further minimize the impacts of development activity on area waterways. In accordance with Water Board requirements, Council amended PAMC Chapter 16.11 to lower the compliance threshold to 10,000 square feet of new or replacement impervious area in summer 2006 (CMR:279:06). In October 2009, the Water Board issued a new regional NPDES permit to the City of Palo Alto and 76 other Bay Area entities for discharge of municipal storm water to local creeks and San Francisco Bay (see Attachment C). This Municipal Regional Permit (MRP) specifies programs and measures to be conducted by local agencies to minimize storm water pollution over the next five years. The MRP continues the pattern of increased regulation of land development activities over time as discussed below.

DISCUSSION

The attached ordinance modifies the City's existing storm water pollution prevention regulations (PAMC Chapter 16.11) once again in order to comply with the new provisions of the MRP. The major regulatory changes mandated by the MRP, to be phased in over the next few years, can be summarized as follows:

- Lowering of the compliance threshold to 5,000 square feet of new or replacement impervious area (beginning December 1, 2011) for special land use categories, including auto service facilities, retail gasoline outlets, restaurants, and uncovered parking lots;
- Requiring treatment of storm water runoff from projects that widen existing roads with additional traffic lanes (beginning December 1, 2011);
- Requiring treatment of storm water runoff from regulated projects utilizing Low Impact Development (LID) treatment measures, including rain water harvesting and reuse, infiltration, evapotranspiration, or biotreatment, except in special cases (beginning December 1, 2011);
- Limiting infiltration of storm water runoff into underlying soils in order to protect groundwater quality; and
- Requiring small land development projects (those with between 2,500 and 10,000 square feet of new or replacement impervious area) and detached single-family home projects to implement specified site design measures to protect storm water quality (beginning December 1, 2012).
- Requiring that regulated projects 1) have their storm water treatment designs and flow/volume calculations peer-reviewed and certified by an approved third-party engineering professional, and 2) have their constructed storm water treatment controls inspected by an approved third-party engineering professional in order to certify that the controls have been installed in accordance with the approved plans.

The first two ordinance changes summarized above are intended to require a greater number of automobile-related land development projects to implement control measures in order to improve the quality of storm water runoff. Automobiles are the largest single non-point source of storm water pollutants, including hydrocarbons and heavy metals generated by engine exhaust, leaking engine components, and residue from tire and brake pad wear. By reducing the compliance

threshold to 5,000 square feet and including road widening projects starting in December 2011, the Water Board is endeavoring to impose enhanced controls on this high-priority pollutant source.

The most significant change included in the attached ordinance is the new requirement that regulated projects utilize LID measures to treat storm water runoff beginning in December 2011. As stated in the MRP, the goal of LID is "to reduce runoff and mimic a site's pre-development hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, detaining, evapotranspiring, and or biotreating storm water runoff close to its source." Typical LID measures include items such as rain barrels, cisterns, green roofs, permeable pavement, and open space preservation. Under the terms of earlier NPDES storm water discharge permits, the Water Board allowed much more flexibility as to how storm water is treated prior to discharge. Available treatment options included a full spectrum of alternatives, including LID measures, landscape-based measures such as bioswales, and manufactured vault-type treatment systems. The MRP's prescriptive specification of LID measures for storm water treatment represents a substantial narrowing of available options for land development project designers. LID measures are generally consistent with the City's environmental goals and programs, including the newly adopted Green Building Code and the Storm Water Rebate Program (which offers financial incentives to homeowners and businesses for LID measures, including rain barrels, cisterns, green roofs, and permeable pavement). There are Bay Area-wide concerns, however, that LID measures may not be feasible in all cases, particularly for infill development in densely-zoned commercial districts. The MRP contains provisions that allow the permittees to collaboratively develop infeasibility criteria that would allow the use of biotreatment measures (filtering storm water through specially-designed soil media) in place of LID measures (rainwater harvesting and reuse, infiltration, or evapotranspiration) to be used under specific conditions. These infeasibility criteria, which will be developed regionally by the Bay Area Storm Water Management Agencies Association (BASMAA), are subject to review and approval by Water Board staff. The MRP also allows the permittees to develop a set of criteria defining a set of "special project types" that would be exempt from the LID treatment due to their other environmentally-friendly characteristics. Example project types include high-density "smart growth" projects, transit-oriented development, and projects with covered parking garages. The "special project" criteria will also be developed by BASMAA and submitted to Water Board staff for review and approval.

The newly-defined limitations on storm water infiltration establish a set of rules that must be followed when designing measures that "infiltrate storm water into the subsurface in a manner that bypasses the natural groundwater protection afforded by surface soil". Examples of such measures include dry wells and french drains. The new provisions protect groundwater quality by ensuring minimum separation between the base of an infiltration device and the underlying groundwater table and prohibiting infiltration devices in high-risk land use areas and in the vicinity of known contamination sites.

The ordinance also imposes new requirements on small land development projects (those with between 2,500 and 10,000 square feet of new or replacement impervious area) and detached single-family home projects beginning in December 2012. The new requirements are relatively minor, specifying that these small projects install at least one of a number of simple site design

measures, such as directing roof, walkway, or surface parking lot runoff onto vegetated areas or constructing walkways or patios with permeable surfaces. Many of these site design measures are already encouraged by existing City policies or voluntarily implemented into land development projects by project proponents, so the new requirements are not expected to create a noticeable burden on the development community.

The review of storm water treatment designs and the inspection of installed storm water treatment measures has become an increasing workload burden on Public Works staff as the number of regulated projects has increased over the past several years and staff levels have decreased in the development review section of the Public Works Engineering Division. In the new ordinance, staff proposes a new requirement mandating that permit applicants for regulated projects have the design of their storm water treatment measures reviewed and certified by an approved third-party engineering professional and that the installed treatment measures be inspected by a third-party to certify that the measures have been installed in accordance with the approved plans. These new requirements will ease the workload burden on Public Works staff and provide permit applicants with a higher degree of control over the permit review process. Because these changes will decrease the staff hours spent on project review, staff has proposed lowering the plan check fee for projects subject to PAMC Chapter 16.11 from $800 to $350 (see attached Council resolution).

RESOURCE IMPACT

Enforcement of the proposed ordinance will require additional effort by Public Works and Planning staff both during permit review, construction inspections, and periodic follow-up inspections to verify proper maintenance of storm water control measures due to the increased volume of regulated projects. However, because of the moderate number of additional development projects expected to trigger the ordinance's revised threshold levels and compliance requirements and the increased efficiency that will result from the third-party certification process, the need for additional staff is not anticipated at this time. Costs incurred by the City for plan review and site inspections for projects that are subject to these regulations are recovered through existing permit fees.

POLICY IMPLICATIONS

The storm water pollution prevention measures contained in the proposed ordinance are consistent with a number of policies and programs contained in the Comprehensive Plan:

Program N-29: Actively participate in programs such as the Santa Clara Valley Urban Runoff Pollution Prevention Program to improve the quality of stormwater runoff.

Policy N-21: Reduce non-point source pollution in urban runoff from residential, commercial, industrial, municipal, ad transportation land uses.

Program N-27: Work with regulatory agencies, environmental groups, affected businesses, and other stakeholders to identify economically viable Best Management Practices (BMP) for reducing pollution.

Policy N-22: Limit the amount of impervious surface in new development or public improvement projects to reduce urban runoff into storm drains, creeks, and San Francisco Bay.

TIMELINE

The attached ordinance will take effect on February 10, 2011 (the 31st day following the scheduled second reading of the ordinance). Some of the ordinance provisions will not take effect until the future implementation date specified in the ordinance. Each specific provision of the ordinance will be applicable to permit applications deemed complete by the City on or after the effective date of that particular ordinance provision.

ENVIRONMENTAL REVIEW

Adoption of the attached ordinance is exempt from the provisions of the California Environmental Quality Act (CEQA) as a measure taken to implement an action to assure the maintenance, restoration, enhancement, or protection of the environment.

ATTACHMENTS

Attachment A: Ordinance Revising Storm Water Pollution Prevention Measures for Land Development Projects
Attachment B: Resolution modifying the FY2011 Municipal Fee Schedule
Attachment C: Excerpt from October 14, 2009 NPDES Storm Water Discharge Permit

PREPARED BY: Joe Teresi
JOE TERESI
SENIOR ENGINEER

APPROVED BY:
J. MICHAEL SARTOR
ACTING DIRECTOR OF PUBLIC WORKS

CITY MANAGER APPROVAL:
JAMES KEENE
CITY MANAGER

cc: Adam Olivieri, Santa Clara Valley Urban Runoff Pollution Prevention Program

ATTACHMENT A

Not Yet Approved

Ordinance No. _____
Ordinance of the Council of the City of Palo Alto Amending Chapter 16.11 of Title 16 of the Palo Alto Municipal Code Pertaining to Stormwater Pollution Prevention Measures

WHEREAS the California Regional Water Quality Control Board, San Francisco Bay Region issued a Municipal Regional Stormwater Permit (Order R2-2009-0074; NPDES Permit No. CAS612008) to the City of Palo Alto;

WHEREAS, the new NPDES Permit requires cities to implement a series of stormwater pollution prevention measures over a three year phased period ending December 1, 2012;

WHEREAS, the City has a longstanding practice of regulating stormwater pollution prevention and these regulations are currently codified in Chapter 16.11 of the Palo Alto Municipal Code;

WHEREAS, the City's existing regulations were sufficient to address the NPDES permit measures that went into effect immediately, but the permit requires the City of Palo Alto to implement additional stormwater pollution prevention measures by December 1, 2011 and others by December 1, 2012;

NOW, THEREFORE, the Council of the City of Palo Alto does ORDAIN as follows:

SECTION 1. Section 16.11.020 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby amended to read, as follows:

"16.11.020 Definitions.

The following words and phrases, whenever used in this chapter, have the meanings as set forth below:

(a) "Development Project" means any private or public project under the planning and building authority of the city ~~for which, on or after August 10, 2006, a privately sponsored development application is deemed complete or, with respect to any public project, for which funding is committed,~~ that creates 10,000 square feet or more of impervious surface collectively over the entire project site, including but not limited to roof area, parking lots, ~~streets, and private walkways~~ and other hardscape associated with commercial, industrial, residential subdivision, mixed-use, and public land development projects. ~~"Development project" also means any private or public project under the planning and building authority of the city for which, prior to August 10, 2006, a privately sponsored development application was deemed complete or, with respect to any public project, for which funding was committed, that creates impervious surface and is in one of the categories described in subsections (a)(1), (a)(2), or (a)(3) below.~~

~~(1) A project shall be considered a development project if it results in the creation of an amount of impervious surface collectively over the entire project site, including but not limited to parking lots, roof area, streets, and private walkways equal to or more than one of the following thresholds:~~

~~i. One acre (43,560 square feet); or~~

~~ii. 10,000 square feet if the project is in one of the following land use categories:~~

~~a. Auto service stations;~~

~~b. Auto wrecking or salvage yards.~~

~~(2) A project shall be considered a development project if it results in the creation of 10,000 square feet or more of impervious surface area used for one of the following functions:~~

~~i. Loading dock; or~~

~~ii. Surface parking lot.~~

~~(3) A project shall be considered a development project if it results in the creation of 10,000 square feet or more of impervious surface area used for one of the functions described below and the project developer fails to demonstrate to the city engineer that potential pollutant loading will be satisfactorily mitigated through post-construction source control and site design practices:~~

~~i. Outdoor vehicle or equipment maintenance (including washing and repair);~~

~~ii. Outdoor handling or storage of waste or hazardous materials;~~

~~iii. Outdoor manufacturing;~~

~~iv. Outdoor food handling or processing;~~

~~v. Outdoor animal care;~~

~~vi. Outdoor horticultural activities; or~~

~~vii. Other outdoor activities of industrial or commercial uses.~~

~~(4) For projects that include one of the land use functions listed in subsections (a)(2) or (a)(3) above, the development project shall consist of only the portion of the site containing the specific land use function.~~

~~(5)~~ A Development Project shall include the issuance of a permit for building, construction, reconstruction, subdivisions, parcel maps or occupancy, but not a permit to operate.

~~(6) A project in one of the following categories shall not be considered a development project regardless of the amount of impervious surface it creates:~~ The following development shall not constitute a Development Project:

(~~i~~1) An individual detached single-family home, which is not part of a larger common plan of development, that is designed with appropriate source control and site design measures~~; or~~.

~~(ii) Sidewalks, bicycle lanes, trails, bridge accessories, guardrails and landscape features located in the public right-of-way.~~

(b) "High Impact Project" means a project that falls into one of the categories listed below and that creates and/or replaces 5,000 square feet or more of impervious surface collectively over the entire project site.

(1) High Impact Categories. This category includes development projects of the following four types on public or private land that fall under the planning and building authority of the city:

(A) Auto service facilities, described by the following Standard Industrial Classification (SIC) Codes: 5013, 5014, 5541, 7532-7534, and 7536-7539;

(B) Retail gasoline outlets;

(C) Restaurants (SIC Code 5812); or

(D) Uncovered parking lots that are stand-alone or part of any other development project. This category includes the top uncovered portion of parking structures unless drainage from the uncovered portion is connected to the sanitary sewer along with the covered portions of the parking structure.

(2) Exceptions. The following development types shall not constitute a High Impact Project:

(A) Interior remodels;

(B) Routine maintenance or repair, such as roof or exterior wall surface replacement and pavement resurfacing within the existing footprint.

(3) Partial Development. High Impact Projects that result in an increase of, or replacement of, more than fifty percent of the impervious surface of a previously existing development that was not subject to this Chapter shall include Permanent Stormwater Pollution Prevention Measures sufficient to reduce water quality impacts of stormwater runoff from the entire site for the life of the project.

High Impact Projects that result in an increase of, or replacement of, fifty percent or less of the impervious surface of a previously existing development that was not subject to this Chapter shall include Permanent Stormwater Pollution Prevention Measures sufficient to reduce water quality impacts of stormwater runoff from the increased or replaced portion of the site for the life of the project.

(c) "Hydromodification Management Measures" means ~~any~~ approved combination of on-site, off-site, and in-stream control measures incorporated into specified development projects and significant redevelopment projects in order to reduce stormwater runoff so as to not cause an increase in the erosion potential of the receiving stream over the pre-project condition, in accordance with and as required by Order No. R2-2009-0074 ~~01-119~~ under NPDES Permit No. CAS612008 ~~CAS029718~~ issued by the California Regional Water Quality Control Board, San Francisco Bay Region (the "~~Regional~~ Water Board"), as it may be amended from time to time.

(d) "Impervious Surface" means land that has been modified by the action of persons to reduce the land's natural ability to absorb and hold rainfall. This includes any hard surface area which either prevents or retards the entry of water into the soil mantle as it entered under natural conditions pre-existent to development, and/or a hard surface area which causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions pre-existent to development. Impervious surfaces include, but are not limited to, rooftops, pavement, sidewalks, walkways, patios, driveways, and parking lots where such surfaces are not constructed with pervious materials and/or are not designed to have zero stormwater discharge.

(e) "Infiltration Device" means any structure that is deeper than wide and designed to infiltrate stormwater into the subsurface and, as designed, bypass the natural groundwater protection afforded by surface soil. Infiltration devices include dry wells, injection wells, and infiltration trenches (includes french drains).

(f) "Low Impact Development (LID) Measures" means an approved combination of source control measures, site design measures, and/or stormwater treatment measures that reduce runoff and mimic a site's predevelopment hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, detaining, evapotranspiring, and/or biotreating stormwater runoff close to its source. LID Measures embody principles such as preservation and recreation of natural landscape features and minimization of imperviousness to create functional and appealing site drainage that treats stormwater as a resource, rather than a waste product. LID Measures include rain barrels and cisterns, green roofs, permeable pavement, preservation of undeveloped open space, and biotreatment through rain gardens, bioretention units, bioswales, and planter/tree boxes. The design and implementation of the LID Measures must be in accordance with the guidelines and technical specifications provided by the city or other city-approved authority and the requirements of Order No. R2-2009-0074 and any subsequent orders.

(g) "Permanent Stormwater Pollution Prevention Measures" or "PSPPM" means ~~any~~ approved combination of source control measures, site design measures, and/or stormwater treatment measures that reduce stormwater pollution to the maximum extent practicable as required by Order No. R2-2009-0074 ~~01-119~~ under NPDES Permit No. CAS612008 ~~CAS029718~~ issued by the Water Board, as it may be amended from time to time. The design and implementation of the PSPPM must be in accordance with the guidelines and technical specifications provided by the city or other city-approved authority and the requirements of Order No. R2-2009-0074 ~~01-119.~~ and any subsequent orders.

(h) "Significant Redevelopment Project" means any private or public project under the planning and building authorityjurisdiction of the city ~~for which, on or after August 10, 2006, a privately sponsored development project application is deemed complete, or, with respect to any public project, for which funding is committed, on a previously developed site~~ that creates 10,000 square feet or more of additional or replacement impervious surface collectively over the entire project site, including ~~but not limited to~~ roof area, parking lots, street, and other hardscape associated with commercial, industrial, residential subdivision, mixed-use, and public land development projects. ~~and private walkways. "Significant redevelopment project" also means any private or public project under the planning and building jurisdiction of the city for which, prior to August 10, 2006, a privately sponsored development application was deemed complete or, with respect to any public project, for which funding was committed, on a previously developed site that creates additional or replacement impervious surface and is in one of the categories described in subsections (e)(1), (e)(2), or (e)(3) below.~~

~~(1) A project shall be considered a significant redevelopment project if it results in the addition or replacement of an amount of impervious surface collectively over the entire project site, including but not limited to parking lots, roof area, streets, and private walkways equal to or more than one of the following thresholds:~~

~~i. One acre (43,560 square feet); or~~

~~ii. 10,000 square feet if the project is in one of the following land use categories:~~

~~a. Auto service stations;~~

~~b. Auto wrecking or salvage yards.~~

~~(2) A project shall be considered a significant redevelopment project if it results in the addition or replacement of 10,000 square feet or more of impervious surface area used for one of the following functions:~~

~~i. Loading dock; or~~

~~ii. Surface parking lot.~~

~~(3) A project shall be considered a significant redevelopment project if it results in the addition or replacement of 10,000 square feet or more of impervious surface area used for one of the functions described below and the project developer fails to demonstrate to the city engineer that potential pollutant loading will be satisfactorily mitigated through post-construction source control and site design practices:~~

~~i. Outdoor vehicle or equipment maintenance (including washing and repair);~~

~~ii. Outdoor handling or storage of waste or hazardous materials;~~

~~iii. Outdoor manufacturing;~~

~~iv. Outdoor food handling or processing;~~

~~v. Outdoor animal care;~~

~~vi. Outdoor horticultural activities; or~~

~~vii. Other outdoor activities of industrial or commercial uses.~~

~~(4) For projects that include one of the land use functions listed in subsections (e)(2) or (e)(3) above, the significant redevelopment project shall consist of only the portion of the site containing the specific land use function.~~

~~(5) A project in one of the following categories shall not be considered a significant redevelopment project regardless of the amount of impervious surface it creates:~~

Redevelopment is any land-disturbing activity that results in the creation, addition, or replacement of exterior impervious surface area on a site on which some past development has occurred.

(1) Exceptions. The following redevelopment shall not constitute a Significant Redevelopment Project:

(~~i~~A) Interior remodels;

(~~ii~~B) Routine maintenance or repair including, but not limited to, roof or exterior surface replacement, or pavement resurfacing, ~~repaving and road pavement structural section rehabilitation~~ within the existing pavement footprint~~, and any other reconstruction work within a public street or road right-of-way where both sides of the street or right-of-way are developed~~; or

(~~iii~~C) An individual detached single-family home, which is not part of a larger common plan of redevelopment, ~~and~~ that is designed with appropriate source control and site design measures.

(2) Partial redevelopment. Significant Redevelopment Projects that result in an increase of, or replacement of, more than fifty percent of the impervious surface of a previously existing development that was not subject to this Chapter shall include Permanent Stormwater Pollution Prevention Measures sufficient to reduce water quality impacts of stormwater runoff from the entire site for the life of the project.

Significant Redevelopment Projects that result in an increase of, or replacement of, fifty percent or less of the impervious surface of a previously existing development that was not subject to this Chapter shall include Permanent Stormwater Pollution Prevention Measures sufficient to reduce water quality impacts of stormwater runoff from the increased or replaced portion of the site for the life of the project.

(i) "Road Project" means a project to construct new streets or roads, including sidewalks and bicycle lanes built as part of the new streets or roads, that creates 10,000 square feet or more of newly constructed contiguous impervious surface and that falls under the building and planning authority of the city.

The following projects are not considered Road Projects for the purposes of this Chapter:

(1) Sidewalks built as part of new streets or roads and built to direct stormwater runoff to adjacent vegetated areas.

(2) Bicycle lanes that are built as part of new streets or roads but are not hydraulically connected to the new streets or roads and that direct stormwater runoff to adjacent vegetated areas.

(3) Sidewalks, bicycle lanes, or trails constructed with permeable surfaces (includes pervious concrete, porous asphalt, permeable concrete unit pavers, and granular materials).

(4) Caltrans highway projects and associated facilities.

(~~f~~j) "Site Design Measures" means any project design features that reduce stormwater pollution by decreasing or slowing stormwater runoff or intercepting the flow of runoff across a series of contiguous impervious surfaces.

(~~g~~k) "Source Control Measures" means any project design features that aim to prevent stormwater pollution by eliminating or reducing the potential for contamination at the source of pollution.

(~~h~~l) "Stormwater Treatment Measures" means any engineered system designed to remove pollutants from stormwater by simple gravity settling of particulate pollutants, filtration, biological uptake, media adsorption or any other physical, biological, or chemical process.

(m) "Street Widening" means widening of existing streets or roads with additional traffic lanes.

(1) Where the addition of traffic lanes results in an alteration of more than 50 percent of the impervious surface of an existing street or road that was not subject to this Chapter, the entire project, consisting of all existing, new, and/or replaced impervious surfaces, must be included in the treatment system design.

(2) Where the addition of traffic lanes results in an alteration of less than 50 percent of the impervious surface of an existing street or road that was not subject to this Chapter, only the new and/or replaced impervious surface of the project must be included in the treatment system design. However, if the stormwater runoff from the existing traffic lanes and the added traffic lanes cannot be separated, any onsite treatment system must be designed and sized to treat stormwater runoff from the entire street or road.

(n) "Trail Project" means a project to construct new impervious trails greater than 10-feet wide or creekside trails (within 50 feet of the top of bank) that creates 10,000 square feet or more of newly constructed contiguous impervious surface and that falls under the building and planning authority of the city.

The following projects are not considered Trail Projects for the purposes of this Chapter:

(1) Impervious trails built to direct stormwater runoff to adjacent vegetated areas, or other non-erodible permeable areas, preferably away from creeks or towards the outboard side of levees.

(2) Sidewalks, bicycle lanes, or trails constructed with permeable surfaces (includes pervious concrete, porous asphalt, unit pavers, and granular materials)."

SECTION 2. Section 16.11.030 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby amended to read, as follows:

"16.11.030 Permanent stormwater pollution prevention measures required.

(a) Permanent Stormwater Pollution Prevention Measures shall be incorporated into the following projects (collectively referred to sometimes in this Chapter as "Regulated Projects"):

(1) All Development Projects ~~shall include permanent stormwater pollution prevention measures in order to reduce water quality impacts of stormwater runoff from the entire site for the life of the project.~~;

(2) All Significant Redevelopment Projects ~~shall include permanent stormwater pollution prevention measures in order to reduce water quality impacts of stormwater runoff for the life of the project.~~;

~~(a) All significant redevelopment projects shall include permanent stormwater pollution prevention measures in order to reduce water quality impacts of stormwater runoff for the life of the project.~~

~~(b) Significant redevelopment projects that result in an increase of, or replacement of, more than fifty percent of the impervious surface of a previously existing development shall include permanent stormwater pollution prevention measures sufficient to reduce water quality impacts of stormwater runoff from the entire site for the life of the project.~~

(3) All Road Projects;

(4) Effective December 1, 2011, all High Impact Projects;

(5) Effective December 1, 2011, all Trail Projects;

(6) Effective December 1, 2011, all Street Widening Projects.

(b) Any Permanent Stormwater Pollution Prevention Measure required by this section must be in effect during the entire life of the project.

(c) Effective December 1, 2011, unless the project is exempt as a special project pursuant to administrative guidelines adopted by the city engineer and approved by the Water

Board, all Permanent Stormwater Pollution Prevention Measures shall include the following Low Impact Development (LID) Measures or other alternative measures to be approved by the city engineer:

(1) **Source Control Requirements**

(A) Minimization of stormwater pollutants of concern in urban runoff through measures that may include plumbing of the following discharges to the sanitary sewer, subject to the city's authority and standards as contained in Chapter 16.09:

(i) Discharges from indoor floor mat/equipment/hood filter wash racks or covered outdoor wash racks for restaurants;
(ii) Dumpster drips from covered trash, food waste and compactor enclosures;
(iii) Discharges from covered outdoor wash areas for vehicles, equipment, and accessories;
(iv) Swimming pool water, if discharge to onsite vegetated areas is not a feasible option; and
(v) Fire sprinkler test water, if discharge to onsite vegetated areas is not a feasible option;

(B) Properly designed covers, drains, and storage precautions for outdoor material storage areas, loading docks, repair/maintenance bays, and fueling areas;

(C) Properly designed trash storage areas;

(D) Landscaping that minimizes irrigation and runoff, promotes surface infiltration, minimizes the use of pesticides and fertilizers, and incorporates other appropriate sustainable landscaping practices and programs such as Bay-Friendly Landscaping;

(E) Efficient irrigation systems; and

(F) Storm drain system stenciling or signage.

(2) **Site Design and Stormwater Treatment Requirements**

(A) Minimization of disturbances of natural water bodies and drainage systems; minimization of compaction of highly permeable soils; protection of slopes and channels; and minimization of impacts from stormwater and urban runoff on the biological integrity of natural drainage systems and water bodies;

(B) Conservation of natural areas, including existing trees, other vegetation, and soils;

(C) Minimization of impervious surfaces;

(D) Minimization of disturbances to natural drainages;

(E) Minimization of stormwater runoff by implementation of one or more of the following site design measures:

- Direct roof runoff into cisterns or rain barrels for reuse.
- Direct roof runoff onto vegetated areas.
- Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
- Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
- Construct sidewalks, walkways, and/or patios with permeable surfaces.
- Construct driveways, bike lanes, and/or uncovered parking lots with permeable surfaces.

(F) Treatment of 100% of the amount of runoff identified in Section (d) below for the Regulated Project's drainage area with LID treatment measures onsite or with LID treatment measures at a joint stormwater treatment facility.

(i) LID treatment measures are harvesting and re-use, infiltration, evapotranspiration, or biotreatment.

(ii) A properly engineered and maintained biotreatment system may be considered only if it is infeasible to implement harvesting and re-use, infiltration, or evapotranspiration at a project site.

(iii) Infeasibility to implement harvesting and re-use, infiltration, or evapotranspiration at a project site shall be determined in accordance with criteria approved by the Water Board and the city engineer.

(iv) Biotreatment systems shall be designed to have a surface area no smaller than what is required to accommodate a 5 inches/hour stormwater runoff surface loading rate. The planting and soil media for biotreatment systems shall be designed to sustain plant growth and maximize stormwater runoff retention and pollutant removal and shall conform to material specifications approved by the Water Board and the city engineer.

(v) Green roofs may be considered biotreatment systems for treatment of roof runoff only if they conform to specifications approved by the Water Board and the city engineer.

(~~e~~d) Stormwater treatment measures proposed as part of a project's Permanent Stormwater Pollution Prevention Measures shall be designed in accordance with the following hydraulic sizing criteria to treat stormwater runoff.

(1) Volume Hydraulic Design Basis. Stormwater treatment measures whose primary mode of action depends on volume capacity, such as detention/retention units or infiltration structures, shall be designed to treat stormwater runoff equal to:

(~~i~~A) The maximized storm water quality capture volume for the area, based on historical rainfall records, determined using the formula and volume capture

coefficients set forth in *Urban Runoff Quality Management*, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87 (1998), pages 175 – 178 (e.g. approximately the 85th percentile 24-hour storm runoff event); or

(~~ii~~B) The volume of annual runoff required to achieve 80 percent or more capture, determined in accordance with the methodology set forth in the *California Stormwater Best Management Practices Handbook for New Development and Redevelopment* (2003), using local rainfall data.

(2) Flow Hydraulic Design Basis. Stormwater treatment measures whose primary mode of action depends on flow capacity, such as swales, sand filters, or wetlands, shall be sized to treat:

(~~i~~A) Ten percent of the 50-year peak flow rate; or

(~~ii~~B) The flow of runoff produced by a rain event equal to at least two times the 85th percentile hourly rainfall intensity for the applicable area, based on historical records of hourly rainfall depths; or

(~~iii~~C) The flow of runoff resulting from a rain event equal to at least 0.2 inches per hour intensity.

(3) Combination Flow and Volume Design Basis Treatment systems that use a combination of flow and volume capacity shall be sized to treat at least 80 percent of the total runoff over the life of the project, using local rainfall data.

(~~d~~e) All plans and construction are subject to inspection and approval by the city engineer.

(~~e~~f) Compliance with Chapter. Prior to the issuance of a building permit or other discretionary permit for a Regulated Project, the project applicant shall submit a certification by a qualified third party reviewer acceptable to the city that the design of the project complies with the requirements of this Chapter. In addition, no final ~~building or~~ occupancy permit shall be issued without the written certification by a qualified third party receiver acceptable to ~~of~~ the ~~city~~ City ~~engineer that the requirements of this chapter have been satisfied. by a qualified third party reviewer acceptable to the city~~ that a Regulated Project was constructed or installed in accordance with the approved plans. The third party reviewer must be a Civil Engineer, Licensed Architect or Landscape Architect registered in the State of California, or staff of another Permittee subject to the requirements of the current NPDES permit issued to the City and must have current training on stormwater treatment system design for water quality. Any consultant or contractor hired to design and/or construct a stormwater treatment system for a Regulated Project shall not perform the third party review for said project. Such certifications shall be in the form prescribed by the city engineer and shall not be issued without payment of all applicable fees which may be imposed for administration of this chapter. At the City's sole election, the city engineer may provide any of the certifications required by this section."

SECTION 3. Section 16.11.031 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby amended to read, as follows:

"16.11.031 Hydromodification management measures required.

(a) All Development Projects that result in the creation of one acre (43,560 square feet) or more of impervious surface and all Significant Redevelopment Projects that result in the addition or replacement of one acre (43,560 square feet) or more of impervious surface shall implement ~~hydromodification~~ Hydromodification ~~management~~ Management ~~measures~~Measures, except for the following projects:

1. Projects that do not create an increase in impervious surface over pre-project conditions.

~~2. Transit-oriented developments located within a one-half mile radius of existing or planned transit stations and/or intermodal transit facilities, including rail and bus stations, terminals or major transfer points.~~

~~3. Projects located within areas that drain to stream channels within the tidally-influenced area.~~

~~4. Projects located within areas that drain to non-earthen stream channels that are hardened on three sides and extend continuously upstream from the tidally influenced area.~~

~~5. Projects draining to an underground storm drain that discharges directly to San Francisco Bay.~~

~~6. Projects that are located in subwatershed areas that are 90% or more built-out and have more than 65% impervious surface.~~

~~7. Projects that are less than 50 acres in total project size that are located in subwatershed areas that are 90% or more built-out and have less than 65% impervious surface.~~

~~8. Projects that demonstrate, upon completion of stream-specific modeling studies that are consistent with the Hydromodification Management Plan approved by the Regional Board, that there will be no increase in potential for erosion or other adverse impact to beneficial uses to any waters of the state.~~

2. Projects located in areas designated as exempt from hydromodification management requirements on the Hydromodification Management Plan Applicability Map contained in Attachment F of Order No. R2-2009-0074 under NPDES Permit No. CAS612008 issued by the Water Board, as it may be amended from time to time.

(b) Hydromodification management measures shall be designed and implemented in accordance with guidelines and technical specifications provided by the city or other city-approved authority, the requirements of Order No. R2-2009-007~~401-119~~ under NPDES Permit No. CAS612008~~CAS029718~~ issued by the Water~~Regional~~ Board, as it may be amended from time to time, and the provisions of the Hydromodification Management Plan for the Santa Clara Valley Urban Runoff Pollution Prevention Program as approved by the Water~~Regional~~ Board.

(c) All hydromodification management measures are subject to inspection and approval by the city engineer."

SECTION 4. Section 16.11.034 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby added to read, as follows:

"16.11.034 Limitations on Use of Infiltration Devices.

Any Permanent Stormwater Pollution Prevention Measure (PSPPM) which functions primarily as an Infiltration Device shall be designed such that:

(a) Appropriate pollution prevention and source control measures are implemented to protect groundwater at the project site, including the inclusion of a minimum of two feet of suitable biotreatment media soil to achieve a maximum 5 inches/hour infiltration rate for the infiltration system;

(b) Adequate maintenance is provided to maximize pollutant removal capabilities;

(c) The vertical distance from the base of any Infiltration Device to the seasonal high groundwater mark is at least 10 feet (or an alternative larger distance if the site is determined by the city engineer to be a high-risk site);

(d) Unless stormwater is first treated by a method other than infiltration, Infiltration Devices are not approved as treatment measures for runoff from areas of industrial or light industrial activity; areas subject to high vehicular traffic (i.e., 25,000 or greater average daily traffic on a main roadway or 15,000 or more average daily traffic on any intersecting roadway); automotive repair shops; commercial car washes; fleet storage areas; nurseries; and other land uses that pose a high threat to water quality;

(e) Infiltration Devices are not placed in the vicinity of known soil or groundwater contamination sites unless it has been demonstrated that increased infiltration will not increase leaching of contaminants from soil, alter groundwater flow conditions affecting contaminant migration in groundwater, or adversely affect remedial activities; and

(f) Infiltration Devices are located a minimum of 100 feet (or an alternative larger distance if the site is determined by the city engineer to be a high-risk site) horizontally away from any known water supply wells, septic systems, and underground storage tanks with hazardous materials."

SECTION 5. Section 16.11.036 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby added to read, as follows:

"16.11.036 Required Site Design Measures for Small Projects and Detached Single-Family Home Projects

(a) Effective December 1, 2012, any private or public project under the planning and building authority of the city which creates and/or replaces between 2,500 square feet and 10,000

square feet of impervious surface, and detached single-family home projects which are not part of a larger plan of development which create and/or replace 2,500 square feet or more of impervious surface, shall install one or more of the following site design measures:

- Direct roof runoff into cisterns or rain barrels for reuse.
- Direct roof runoff onto vegetated areas.
- Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
- Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
- Construct sidewalks, walkways, patios, driveways, bike lanes, and/or uncovered parking lots with permeable surfaces (includes pervious concrete, porous asphalt, permeable concrete unit pavers, and granular materials)."

SECTION 6. Section 16.11.038 of Chapter 16.11 of Title 16 of the Palo Alto Municipal Code is hereby added to read, as follows:

"16.11.038 Administrative Guidelines

The City Engineer shall have authority to promulgate administrative guidelines to assist in the implementation of this Chapter.

SECTION 7. The City Council finds that the adoption of this ordinance does not constitute a project under the California Environmental Quality Act.

SECTION 8. This ordinance shall become effective upon the commencement of the thirty-first day after the date of its adoption.

INTRODUCED:

PASSED:

AYES:

NOES:

ABSTENTIONS:

ABSENT:

ATTEST: APPROVED:

City Clerk Mayor

APPROVED AS TO FORM:

City Manager

Senior Asst. City Attorney

Director of Public Works

Appendix 3-2

C.3.a: Storm Water Treatment Design Certification Form

STORMWATER TREATMENT DESIGN CERTIFICATION
CITY OF PALO ALTO

Project Name: _____

Project Location: _____

Building Permit No.: _____ **Project Civil Engineer:** _____

1. Types of Post-Construction Stormwater Control Measures Used (*Check all applicable measures.*)

Source Controls	**Site Design Measures**	**Treatment Systems** *(add design details in Item #2 below)*
☐ Alternative building materials	☐ Minimum land disturbance	***LID Treatment Methods***
☐ Wash area/racks, drain to sanitary sewer[1]	☐ Minimized impervious surfaces	☐ Infiltrating vegetated swale
☐ Covered dumpster area, drain to sanitary sewer[1]	☐ Minimum-impact street design	☐ Vegetated filter strip
☐ Beneficial landscaping (minimizes irrigation, runoff, pesticides and fertilizers; promotes treatment)	☐ Minimum-impact parking lot design	☐ Bioretention area ☐ Flow-through planter
☐ Outdoor material storage protection	☐ Cluster structures/ pavement	☐ Green roof
☐ Covers, drains for loading docks, maintenance bays, fueling areas	☐ Permeable pavement	☐ Infiltration trench/basin ☐ Retention/irrigation
☐ Maintenance (pavement sweeping, catch basin cleaning, good housekeeping)	☐ Roof downspouts drain to landscaping	☐ Underground detention and infiltration system (e.g. pervious pavement drain rock, large diameter conduit)
☐ Storm Drain Labeling	☐ Microdetention in landscape	☐ Other: _____
☐ Other: _____ _____	☐ Rainwater harvesting and reuse (e.g., rain barrel, cistern connected to roof drains)	***Other Treatment Methods***
	☐ Other: _____ _____	☐ Flow-through vegetated swale (no infiltration) ☐ Dry detention basin ☐ Wet pond ☐ Media filter (sand, compost, or manufactured media) ☐ Hydrodynamic separator ☐ Water quality inlet filter ☐ Other: _____ _____

[1] Subject to sanitary sewer authority requirements.

2. **Treatment Control Design and Reporting Details** *(Attach additional information as necessary)*

Treatment System Component	Hydraulic Sizing Criteria Used[a]	Design Flow or Volume (cfs or cu. ft.)

[a]Key: 1a: Volume – WEF Method 1b: Volume – CASQA BMP Handbook Method
2a: Flow – Factored Flood Flow Method 2b: Flow – CASQA BMP Handbook Method
2c: Flow – Uniform Intensity Method 3: Combination Flow and Volume Design Basis

☐ I hereby certify that the permanent storm water pollution prevention measure(s) designed for the above-referenced project conform(s) to the requirements of Chapter 16.11 (Storm Water Pollution Prevention) of the Palo Alto Municipal Code and Provision C.3 of the Municipal Regional Stormwater NPDES Permit issued to the City of Palo Alto and the Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) agencies by the San Francisco Bay Regional Water Quality Control Board.

_____ _____
Signature of Project Civil Engineer Date

_____ _____
Signature of Qualified Third-Party Reviewer Date

Date of Plan: _____

Wet Signed Registered Engineer's Stamp of Third-Party Reviewer

Instructions: The applicant shall provide two sets of full-size, wet-stamped drawings to the third-party reviewer depicting the post-construction storm water control measures and two sets of legal-size, wet-stamped drawings listing the recommended maintenance practices and intervals for the control measures. The third-party reviewer shall certify compliance with PAMC Chapter 16.11 by completing this Stormwater Treatment Design Certification form and wet stamping the drawings as "APPROVED" or "CERTIFIED".

Appendix 3-3

C.3.a: Fact Sheets - Storm Water Land Development Project Requirements

Santa Clara Valley
Urban Runoff
Pollution Prevention Program

Notice to Land Development Project Applicants

Additional, New Storm Water Use and Treatment Requirements Will Go Into Effect December 1, 2011

Additional, new, regional requirements mandated by the Regional Water Quality Control Board (Water Board) will affect land development projects beginning December 1, 2011. The following is a summary of applicable new requirements in the San Francisco Bay Region Municipal Regional Stormwater National Pollutant Discharge Elimination System Permit ("Municipal Regional Permit"). The requirements have also been incorporated into Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention).

New Restrictions on Methods of Stormwater Treatment

Beginning December 1, 2011, all projects that are required to treat stormwater will need to treat the permit-specified amount of storm water runoff with the following low impact development methods: rainwater harvesting and reuse, infiltration, evapotranspiration, or biotreatment. However, biotreatment (filtering stormwater through vegetation and soils before discharging to the storm drain system) will be allowed only where harvesting and reuse, infiltration and evapotranspiration are infeasible at the project site. Draft criteria for determining infeasibility have been developed and are being reviewed by Water Board staff (inquire with Public Works staff for the latest information). ***Vault-based treatment will not be allowed as a stand-alone treatment measure.*** Where stormwater harvesting and reuse, infiltration, or evapotranspiration are infeasible, vault-based treatment measures may be used in series with biotreatment, for example, to remove trash or other large solids.

Reference: Palo Alto Municipal Code Section 16.11.030(c)

New Rules for Auto Service Facilities, Retail Gasoline Outlets, Restaurants, and Uncovered Parking

Beginning December 1, 2011, projects that create and/or replace 5,000 square feet or more of impervious surface related to auto service facilities, retail gasoline outlets, restaurants, and/or surface parking will be required to provide low impact development treatment of stormwater runoff. ***This requirement will apply to uncovered parking built as a stand-alone project or included as part of any other development project.*** For all other land use categories, 10,000 square feet will remain the regional threshold of impervious surface area for requiring low impact development, source control, site design, and stormwater treatment measures.

Reference: Palo Alto Municipal Code Section 16.11.020(b)

Will These Requirements Affect My Project?

- If you submitted a development application that was deemed complete before December 1, 2009, and have "diligently pursued" the project, the additional, new requirements will not affect your project.
- If you submit a development application that is deemed complete after December 1, 2009, the additional, new requirements will not apply if the development application receives final discretionary approval before December 1, 2011.
- In all other cases, the additional, new requirements will apply.

Changes to Stormwater Quality Control Requirements

Information for Developers, Builders and Project Applicants

Santa Clara Valley *Urban Runoff* Pollution Prevention Program — *July 2011*

Why Are New Requirements Needed?

Stormwater runoff from urbanized areas remains the largest source of pollution to San Francisco Bay. Local agencies in urbanized portions of the Bay Area are responsible for controlling stormwater pollution by complying with the new Municipal Regional Stormwater Permit, issued by the Regional Water Quality Control Board (Water Board) in October 2009.

Overview of Stormwater Requirements

During development review, local agencies require projects to include stormwater controls, including site design measures, source controls, treatment measures, low impact development measures, hydro-modification management measures, and construction site practices, as appropriate for the project. Many of these requirements have existed for years and are unchanged. New requirements are described in the bar at right.

Site Design for Water Quality

Site design measures to reduce water quality impacts include:

- Preserve existing vegetation;
- Reduce impervious surfaces;
- Direct runoff from impervious surfaces to vegetated areas.

Source Controls

Source controls prevent potential pollutant sources from contacting rainfall and stormwater. Examples include:

- Roofed trash enclosures.
- Covered outdoor materials handling and storage areas.
- Sanitary sewer drains for vehicle wash areas.

Contact your local agency for appropriate source control measures.

Summary of New Requirements

The following requirements begin December 1, 2011:

- *Stormwater treatment requirements will have to be met using infiltration, evapotranspiration, and/or rainwater harvesting and reuse techniques. Where this is infeasible, landscape-based "biotreatment" measures with underdrains may be used.*
- *The threshold for requiring stormwater treatment will drop from 10,000 to 5,000 square feet, or more, of impervious surface for the following project categories: uncovered parking areas (stand-alone or the top level of a parking structure), restaurants, auto service facilities, and retail gasoline outlets.*

Stormwater Treatment

Stormwater treatment measures are systems designed to remove pollutants before stormwater reaches the storm drain system, and ultimately San Francisco Bay. Examples of landscape treatment measures include:

- Bioretention areas / rain gardens,
- Flow-through planters,

Roof runoff is directed onto land-scaping for infiltration in San Jose

- Vegetated swales.

Since 2006, projects that create and/or replace 10,000 square feet or more of impervious surface have been required to have properly-sized, permanent stormwater treatment measures. Starting December 1, 2011, new stormwater treatment requirements, described in the center bar, will go into effect.

Low Impact Development

The goal of low impact development (LID) is to reduce stormwater runoff and mimic a site's predevelopment hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, evapotranspiring (evaporating stormwater into the air directly or through plant transpiration), and/or

biotreating stormwater runoff close to its source, or onsite.

LID reduces water quality impacts by preserving and re-creating natural landscape features, minimizing imperviousness, and using stormwater as a resource, rather than a waste product. This may be accomplished by installing rain barrels or cisterns, green roofs, permeable pavement, or stormwater treatment measures designed to infiltrate or detain stormwater runoff, so that all of the rainwater runoff required to be treated per the stormwater permit soaks into the ground, is stored for irrigation or in-building use, evaporates, or is taken up by plants. If this is infeasible, landscape-based "biotreatment," such as a bioretention area or vegetated swale with an underdrain system that flows to the storm drain, is allowed.

This modular rainwater cistern was placed underground to collect runoff from impervious surfaces for reuse as landscaping irrigation at a private residence in Palo Alto.

Criteria to determine feasibility are scheduled to be available mid-2011. The use of vault-based treatment systems will be restricted, although regional criteria may allow them in limited types of projects. More information on new, additional requirements for stormwater treatment is provided on the Santa Clara Valley Urban Runoff Pollution Prevention Program's (SCVURPPP's) New Development webpage (see contact information).

Hydromodification Management (HM)

When land is covered with buildings and pavement, runoff enters creeks at higher rates and volumes, resulting in channel erosion, flooding and habitat loss. These changes in runoff characteristics are known as hydromodification. Hydromodification management (HM) measures are detention and/or infiltration facilities that are constructed with special discharge structures to match pre-project runoff patterns. HM requirements are different from flood control requirements.

If a project creates and/or replaces one acre or more of impervious surface, increases impervious surface area over the pre-project condition, AND is located in a susceptible area, HM requirements apply. You can view a map of susceptible areas and a fact sheet on HM requirements on the SCVURPPP New Development webpage.

Maintaining Treatment and HM Measures

Stormwater treatment measures and HM measures need ongoing maintenance to keep working properly. Applicants must prepare a maintenance plan and sign, with the applicable local agency, a maintenance agreement that designates responsibility to the property owner.

Construction Site Controls

Project sites are required to use construction BMPs, such as:

- Implement sediment and erosion control plans.
- Minimize exposed soil by stabilizing slopes.

Projects disturbing one acre or more must comply with the Statewide Construction General Permit. For more information, visit this web site: www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml.

A green roof filters stormwater and provides endangered species habitat in San Jose

What is Required for My Project?

Check with the city or county where your project is located for specific application requirements, and more information on whether the new requirements will apply.

Contact Information

- SCVURPPP: (408) 720-8811, www.scvurppp.org
- See SCVURPPP's New Development webpage for municipal contacts.
- For SCVURPPP's New Development webpage, go to www.scvurppp.org, click on Program Components, then New Development and Redevelopment.
- San Francisco Bay Regional Water Quality Control Board: (510) 622-2300

SCVURPPP gratefully acknowledges the Alameda Countywide Clean Water Program for some of the fact sheet content.

NOTICE OF CHANGES TO CITY STORM WATER REGULATIONS (Effective 2/10/2011)

INFORMATION REGARDING NEW REQUIREMENTS FOR THIRD-PARTY CERTIFICATIONS OF STORM WATER TREATMENT DESIGNS AND INSTALLATIONS

WHO: Building permit applicants for "**Regulated Projects**", currently defined as those land development projects that create or replace **10,000 square feet** or more or of impervious surface and are subject to Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention).

WHEN: The new regulations will apply to building permit applications for **Regulated Projects** received on or after **February 10, 2011**. Permit applications deemed complete prior to February 10, 2011 will not be subject to the new regulations.

WHAT: **Regulated Projects** must incorporate permanent storm water pollution prevention measures that treat storm water runoff prior to discharge. In accordance with newly modified Palo Alto Municipal Code Section 16.1.030(f), **Regulated Projects** must now secure the following third-party certifications:

- Prior to the issuance of a building permit for a **Regulated Project**, the project applicant shall submit a certification by a qualified third-party reviewer acceptable to the city that the design of the project complies with the requirements of Palo Alto Municipal Code Chapter 16.11.

- Within 45 days of after the installation of required permanent storm water pollution prevention measures and prior to the issuance of an occupancy permit for a **Regulated Project**, the project applicant shall submit a certification by a qualified third-party reviewer acceptable to the city that the project's permanent storm water pollution prevention measures were constructed or installed in accordance with the approved plans.

Third-party certifications shall comply with the following requirements:

- A third-party reviewer shall be a civil engineer, architect, or landscape architect registered in the State of California, shall have current training on storm water treatment system design for water quality, and shall be included on the Santa Clara Valley Urban Runoff Pollution Prevention Program's (Program) list of qualified consultants.
- Any consultant or contractor hired to design and/or construct a storm water treatment system for a **Regulated Project** shall not perform the third-party review for said project.

The following relevant resource materials are currently available on the City of Palo Alto web site:

- Palo Alto Municipal Code Chapter 16.11 (Storm Water Pollution Prevention) is available at: **http://www.cityofpaloalto.org/depts/clk/municipal_code.asp**.
- A list of qualified third-party reviewers is available at: **http://www.scvurppp-w2k.com/consultants.htm**

Prospective building permit applicants whose **Regulated Project** will be subject to the new third-party certification requirements should contact Public Works Engineering staff (visit the Development Center at 285 Hamilton Avenue or call (650) 329-2295) for more information.

Appendix 4-1

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

Permitted Active Facilities

Permit ID	Business Name	Street No	Street Name	Unit	City	State	Zip Code	Business Type
104	LLC	811	HANSEN WAY	BLDG. 2	PALO ALTO	CA	94304	METAL FINISHING
109	HAMMON PLATING CORPORATION	890	COMMERCIAL STREET		PALO ALTO	CA	94303	PRECIOUS METAL PLATING
151	DPIX, LLC	3406	HILLVIEW AVENUE		PALO ALTO	CA	94304-1345	RESEARCH CENTER
174	SCHERING-PLOUGH BIOPHARMA - DNAX (855)	855	SOUTH CALIFORNIA AVENUE		PALO ALTO	CA	94304	PHARMACEUTICAL RESEARCH
124	COMPANY	3251	HANOVER STREET		PALO ALTO	CA	94304-1187	GUIDED MISSLES AND SPACE VEHICLES
155	SCHERING-PLOUGH BIOPHARMA - DNAX (901)	901	SOUTH CALIFORNIA AVE		PALO ALTO	CA	94304	PHARMACEUTICAL RESEARCH
106	PALO ALTO LANDFILL	2380	EMBARCADERO ROAD		PALO ALTO	CA	94303	NON-EPA
108	GENENCOR (A DANISCO DIVISION)	925	PAGE MILL ROAD		PALO ALTO	CA	94304-1013	BIOTECHNOLOGY R&D
128	HEWLETT PACKARD 1-6	1501	PAGE MILL ROAD	BLD 1-6	PALO ALTO	CA	94304	NON-CATEGORICAL SIU
160	STANFORD HOSPITAL & CLINICS	300	PASTEUR DRIVE		PALO ALTO	CA	94305	MEDICAL FACILITY
166	DIFFRACTION OPTICS	4035	TRANSPORT STREET		PALO ALTO	CA	94303	OPTICAL POLISHING AND GRINDING
182	SOUTHWALL TECHNOLOGIES	3961	EAST BAYSHORE ROAD		PALO ALTO	CA	94303	
189	PALO ALTO MEDICAL FOUNDATION	795	EL CAMINO REAL	BLDG. B & C	PALO ALTO	CA	94301	MEDICAL CLINIC
190	PALO ALTO RESEARCH CENTER, INC.	3406	HILLVIEW AVENUE	BLDG. 34	PALO ALTO	CA	94304	ELECTRONIC
192	SUSS MICRO TEC (IMAGE TECHNOLOGY)	821	SAN ANTONIO ROAD		PALO ALTO	CA	94301	MANUFACTURING/PHOTOLITHOGRAPHY
194	GILEAD PALO ALTO, INC.	1651	PAGE MILL ROAD		PALO ALTO	CA	94304-	BIOMEDICAL RESEARCH
195	TRANSLUCENT PHOTONICS	952	COMMERICAL STREET		PALO ALTO	CA	94303	SEMICONDUCTOR RESEARCH LAB
183	STANFORD SCHOOL OF MEDICINE	855	CALIFORNIA AVENUE		PALO ALTO	CA	94304	TEACHING AND RESEARCH
199	ANACOR PHARMACEUTICALS, INC.	1060	EAST MEADOW CIRCLE		PALO ALTO	CA	94303	PHARM/RESEARCH
200	NANOSYS, INC.	2625	HANOVER STREET		PALO ALTO	CA	94304	RESEARCH LABORATORIES
201	TARGET DISCOVERY, INC.	4030	FABIAN WAY		PALO ALTO	CA	94303	BIOTECH
212	HILLVIEW CLINICAL LAB	3375	HILLVIEW AVENUE		PALO ALTO	CA	94305	CLINICAL LAB OF STANFORD HOSPITAL
213	STANFORD SCHOOL OF MEDICINE	3373	HILLVIEW AVENUE		PALO ALTO	CA	94304	RESEARCH
138	CRYSTAL TECHNOLOGY, LLC	1040	EAST MEADOW CIRCLE		PALO ALTO	CA	94303	SEMI-CONDUCTOR
133	VA PALO ALTO HEALTH CARE SYSTEM	3801	MIRANDA AVENUE		PALO ALTO	CA	94304-1207	EPA NON-CATEGORICAL SIGNIFICANT
214	STANFORD SCHOOL OF MEDICINE	1050	ARASTRADERO ROAD		PALO ALTO	CA	94304	BIOMEDICAL RESEARCH
129	SPACE SYSTEMS/LORAL	3825	FABIAN WAY		PALO ALTO	CA	94303	SATELLITE SYSTEM MFG.
145	AFFYMAX RESEARCH INSTITUTE	4001	MIRANDA AVENUE		PALO ALTO	CA	94304	PHARMACEUTICAL RESEARCH
150	PALO ALTO RESEARCH CENTER, INC.	3333	COYOTE HILL ROAD		PALO ALTO	CA	94304-1314	ELECTRONIC
159	L.S.P. CHILDREN'S HOSPITAL	725	WELCH ROAD		PALO ALTO	CA	94304	HOSPITAL AND MEDICAL SERVICES
220	ACME BIOSCIENCES	3941	EAST BAYSHORE ROAD		PALO ALTO	CA	94303	BIOTECH LAB
221	DOW JONES & COMPANY, INC.	1701	PAGE MILL ROAD		PALO ALTO	CA	94304-1210	NEWSPAPER PRINTING
222	ANACOR PHARMACEUTICALS, INC.	1020	EAST MEADOW CIRCLE		PALO ALTO	CA	94303	DEVELOPMENT
225	STANFORD SCHOOL OF MEDICINE	1501	CALIFORNIA AVENUE		PALO ALTO	CA	94304	BIOMEDICAL RESEARCH
226	ARRESTO BIOSCIENCES	3183	PORTER DRIVE		PALO ALTO	CA	94304	BIOTECH RESEARCH & DEVELOPMENT
228	VARIAN MEDICAL SYSTEMS	3120	HANSEN WAY		PALO ALTO	CA	94304-	MEDICAL EQUIPMENT R & D

205	STEMCELLS, INC.	3155	PORTER DRIVE	PALO ALTO	CA	94304	BIOTECHNOLOGY RESEARCH

VEHICLE FACILITIES

ID	Name	No	Street Name	Unit	City	State	Zip	Business Type
118	CAVALLINO COLLISION REPAIR	1880	WEST BAYSHORE ROAD		PALO ALTO	CA	94303-	VEHICLE
390	AKINS BODY SHOP	3045	PARK BOULEVARD		PALO ALTO	CA	94306-	VEHICLE
394	ART'S BODYCRAFT	280	LAMBERT AVENUE		PALO ALTO	CA	94306-	VEHICLE
397	BARRON PARK SHELL SERVICE	3601	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
404	PALO ALTO UNOCAL SERVICE	835	SAN ANTONIO ROAD		PALO ALTO	CA	94303-	VEHICLE
406	ARCO-PSI5479	699	SAN ANTONIO ROAD		PALO ALTO	CA	94306-	VEHICLE
409	BUDGET RENT-A-CAR-PA	4230	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
410	CARLSEN AUDI, INC.	1730	EMBARCADERO ROAD		PALO ALTO	CA	94303-	VEHICLE
411	CARLSEN VOLVO	4180	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
413	STANFORD AUTO CARE	290	LAMBERT AVENUE		PALO ALTO	CA	94306-	VEHICLE
422	D & M MOTORS	190	CHANNING AVENUE		PALO ALTO	CA	94301-	VEHICLE
426	KURT'S & DORN'S SERVICE	930	EMERSON STREET		PALO ALTO	CA	94301-	VEHICLE
431	VALERO USA, PA	705	SAN ANTONIO ROAD		PALO ALTO	CA	94303-	VEHICLE
432	FIMBRES' BROTHERS	906	INDUSTRIAL AVE		PALO ALTO	CA	94303-	VEHICLE
439	HANS CAR SERVICE	904	HIGH STREET		PALO ALTO	CA	94301-	VEHICLE
440	HENGEHOLD TRUCK RENTAL	762	SAN ANTONIO ROAD		PALO ALTO	CA	94303-	VEHICLE
441	HEINICHEN'S GARAGE	960	HIGH STREET		PALO ALTO	CA	94301-	VEHICLE
446	EUROPEAN/ASIAN AUTO SHOP	111	HOMER AVENUE		PALO ALTO	CA	94301-	VEHICLE
447	PALO ALTO INDEPENDENT BMW, INC.	799	ALMA STREET		PALO ALTO	CA	94301-	VEHICLE
450	JIFFY LUPE #1297	4195	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
451	JIM DAVIS AUTOMOTIVE	3972	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
460	MAACO PAINTING & BODYWORKS	816	SAN ANTONIO ROAD		PALO ALTO	CA	94303-	VEHICLE
463	MATHEWS-CARLSEN BODY WORKS	2480	FABER PLACE		PALO ALTO	CA	94303-	VEHICLE
465	MEISSNER AUTOMOTIVE	811	EAST CHARLESTON ROAD		PALO ALTO	CA	94303-	VEHICLE
466	MIDAS MUFFLER & BRAKE SHOP	4200	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
470	NINE MINUTE OIL & LUBE	3839	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
472	OIL CHANGERS	780	SAN ANTONIO ROAD		PALO ALTO	CA	94303-	VEHICLE
478	PALO ALTO GERMAN CAR CORP	3939	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
483	MSC GARAGE	3201	EAST BAYSHORE ROAD		PALO ALTO	CA	94303-	VEHICLE
485	PALO ALTO AUTO REPAIR	3508	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
488	PALO ALTO SHELL	2200	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
489	PALO ALTO AERO SERVICE	1901	EMBARCADERO ROAD		PALO ALTO	CA	94303-	VEHICLE
491	PALO ALTO UNIF SCH'L DIST: PA HS	25	CHURCHILL AVENUE		PALO ALTO	CA	94306-	VEHICLE

493	PALO ALTO AIRPORT	1925	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
494	PARK AUTOMOTIVE SERVICE	3040	PARK BOULEVARD	PALO ALTO	CA	94306-	VEHICLE
495	PARK AVENUE MOTORS	3290	PARK BOULEVARD	PALO ALTO	CA	94306-	VEHICLE
498	AVIS RENT-A-CAR	4216	EL CAMINO REAL	PALO ALTO	CA	94306-	VEHICLE
501	PRECISION AUTOMOTIVE	439	LAMBERT AVENUE	PALO ALTO	CA	94306-	VEHICLE
503	ROSSI AIRCRAFT, INC.	1903	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
504	SAY RAY AUTO SERVICE	3251	ASH STREET	PALO ALTO	CA	94306-	VEHICLE
507	SHERMAN'S AUTO SERVICE	710	SAN ANTONIO ROAD	PALO ALTO	CA	94303-	VEHICLE
509	SMOG PROS/ARCO	840	SAN ANTONIO ROAD	PALO ALTO	CA	94303-	VEHICLE
510	PALO ALTO SPEEDOMETER	718	EMERSON STREET	PALO ALTO	CA	94301-	VEHICLE
516	ANDERSON HONDA	1766	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
522	TOYOTA OF PALO ALTO	690	SAN ANTONIO ROAD	PALO ALTO	CA	94306-	VEHICLE
528	VIKING MOTOR BODY CO. INC.	2904	ASH STREET	PALO ALTO	CA	94306-	VEHICLE
530	WEST VALLEY FLYING CLUB	1901	100	PALO ALTO	CA	94303-	VEHICLE
850	JIFFY LUBE#1283	4201	MIDDLEFIELD ROAD	PALO ALTO	CA	94303-	VEHICLE
864	NATIONAL CAR RENTAL	4218	EL CAMINO REAL	PALO ALTO	CA	94306-	VEHICLE
869	PALO ALTO FUEL SERVICE	1901	101	PALO ALTO	CA	94303-	VEHICLE
895	YEAMAN AUTO BODY	2025	EAST BAYSHORE ROAD	PALO ALTO	CA	94303-	VEHICLE
947	HIGH STREET AUTO	904	HIGH STREET	PALO ALTO	CA	94301-	VEHICLE
1752	EMBARCADERO SHELL	1161	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
2068	BRAD LOZARES GOLF PRO SHOP	1875	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
2080	PALO ALTO HILLS GOLF & COUNTRY CLUB	3000	ALEXIS DRIVE	PALO ALTO	CA	94304-	VEHICLE
2081	PALO ALTO MAIN POST OFFICE	2085	EAST BAYSHORE	PALO ALTO	CA	94303-	VEHICLE
2191	US POSTAL SERVICE, CAMBRIDGE	265	CAMBRIDGE AVENUE	PALO ALTO	CA	94306-	VEHICLE
2192	US POSTAL SERVICE, HAMILTON	380	HAMILTON AVENUE	PALO ALTO	CA	94301-	VEHICLE
3138	ENTERPRISE RENT-A-CAR, PA2	4193	EL CAMINO REAL,	PALO ALTO	CA	94306-	VEHICLE
3139	ENTERPRISE RENT-A-CAR, PA	814	SAN ANTONIO ROAD	PALO ALTO	CA	94303-	VEHICLE
3191	PARK AVE MOTORS #2	3241	PARK BOULEVARD	PALO ALTO	CA	94306-	VEHICLE
4071	AKINS BODY SHOP #2	2905	EL CAMINO REAL	PALO ALTO	CA	94306-	VEHICLE
4072	CHEVRON USA	3897	EL CAMINO REAL	PALO ALTO	CA	94306-	VEHICLE
4073	PALO ALTO FIRE STATION #1	301	ALMA STREET	PALO ALTO	CA	94301-	VEHICLE
4074	PALO ALTO FIRE STATION #2	2675	HANOVER STREET	PALO ALTO	CA	94304-	VEHICLE
4075	PALO ALTO FIRE STATION #3	799	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
4076	PALO ALTO FIRE STATION #4	3600	MIDDLEFIELD ROAD	PALO ALTO	CA	94306-	VEHICLE
4077	PALO ALTO FIRE STATION #5	600	ARASTRADERO	PALO ALTO	CA	94304-	VEHICLE
4079	PALO ALTO FIRE STATION #7	2575	SAND HILL ROAD	PALO ALTO	CA	94304-	VEHICLE
4080	PALO ALTO FIRE STATION #8	3300	PAGE MILL ROAD	PALO ALTO	CA	94304-	VEHICLE
4081	MUNICIPAL GOLF COURSE MAINTENANCE	1875	EMBARCADERO ROAD	PALO ALTO	CA	94303-	VEHICLE
4187	AUTO PRIDE CAR WASH	841	EL CAMINO REAL	PALO ALTO	CA	94301-	VEHICLE
4273	MECHANICA AUTOMOTIVE	788	SAN ANTONIO ROAD	PALO ALTO	CA	94303-	VEHICLE

4285	CMK AUTOMOTIVE, INC.	904	INDUSTRIAL AVENUE		PALO ALTO	CA	94303-	VEHICLE
4288	VALERO USA-PA2	1963	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
4289	STREETWERKE	292	LAMBERT AVENUE		PALO ALTO	CA	94306-	VEHICLE
4779	ADVANTAGE AVIATION	1903	EMBARCADERO ROAD		PALO ALTO	CA	94303-	VEHICLE
4780	KMAS, INC.	1001	E. CHARLESTON ROAD		PALO ALTO	CA	94303-	VEHICLE
4781	PALO ALTO SMOG	4200	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
4782	HERTZ LOCAL EDITION	4220	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE
4783	DAVE'S AUTO REPAIR	830	EAST CHARLESTON ROAD		PALO ALTO	CA	94303-	VEHICLE
5009	WEST VALLEY AIRCRAFT SERVICES	1901	EMBARCADERO ROAD		PALO ALTO	CA	94303-	VEHICLE
5010	ELITE AUTO PERFORMANCE	1963	EL CAMINO REAL		PALO ALTO	CA	94306-	VEHICLE

DRY CLEANER FACILITIES

ID	Name	No	Street Name	Unit	City	State	Zip	Business Type
2116	AJ'S QUICK CLEAN CENTER	3175	MIDDLEFIELD ROAD		PALO ALTO	CA	94306-3044	DRY CLEANERS
2114	BARN CLEANERS	700	WELCH ROAD		PALO ALTO	CA	94304-1502	DRY CLEANERS
2093	BIANCO CLEANERS	440	HIGH STREET		PALO ALTO	CA	94301-1620	DRY CLEANERS
2110	BRITE 'N CLEAN CLEANERS	433	CAMBRIDGE AVENUE		PALO ALTO	CA	94306-1614	DRY CLEANERS
2127	CARDINAL DRIVE-IN CLEANERS	203	FOREST AVENUE		PALO ALTO	CA	94301-2511	DRY CLEANERS
2108	CASA OLGA CLEANERS	4224	EL CAMINO REAL		PALO ALTO	CA	94306-4404	DRY CLEANERS
2123	CHARLESTON CLEANERS	3900	MIDDLEFIELD ROAD		PALO ALTO	CA	94306-	DRY CLEANERS
2118	DELIA CLEANERS & DRAPERY CENTER	2790	MIDDLEFIELD ROAD		PALO ALTO	CA	94306-2519	DRY CLEANERS
2119	DELIA'S CLEANERS & DRAPERY CNTR	2103	EL CAMINO REAL		PALO ALTO	CA	94306-1540	DRY CLEANERS
2131	ECONOMY CLEANERS	439	HAMILTON AVENUE		PALO ALTO	CA	94301-1810	DRY CLEANERS
2105	EDGEWOOD CLEANERS	230	HOMER AVENUE		PALO ALTO	CA	94301-	DRY CLEANERS
2128	ELITE CLEANERS & TAILORS	464	UNIVERSITY AVENUE		PALO ALTO	CA	94301-1812	DRY CLEANERS
2166	EMERSON LAUNDRY CENTER	926	EMERSON STREET		PALO ALTO	CA	94301-2414	DRY CLEANERS
2132	EXQUISITE CLEANERS	706	COLORADO AVENUE		PALO ALTO	CA	94306-	DRY CLEANERS
2094	HOLIDAY CLEANERS	595	BRYANT STREET		PALO ALTO	CA	94301-1704	DRY CLEANERS
2117	LONDONAIRE CLEANERS (3421 ALMA)	3421	ALMA STREET		PALO ALTO	CA	94306-3556	DRY CLEANERS
2130	LYTTON CLEANERS	489	LYTTON AVENUE		PALO ALTO	CA	94301-1535	DRY CLEANERS
2096	MIDTOWN CLEANERS	2740	MIDDLEFIELD ROAD		PALO ALTO	CA	94306-	DRY CLEANERS
2171	MOON'S ONE HOUR CLEANERS	2125	SAINT FRANCIS DRIVE		PALO ALTO	CA	94303-	DRY CLEANERS
2121	NORGE CLEANING VILLAGE	240	CALIFORNIA AVENUE, SOUTH		PALO ALTO	CA	94306-1618	DRY CLEANERS
2113	NOUVELLE BRIDAL BOUTIQUE	96	TOWN & COUNTRY VILLAGE		PALO ALTO	CA	94306-	DRY CLEANERS
2106	ONE HOUR MARTINIZING	3886	EL CAMINO REAL		PALO ALTO	CA	94306-3317	DRY CLEANERS
2115	PARKS DRY CLEANERS	385	STANFORD SHOPPING CTR		PALO ALTO	CA	94304-1425	DRY CLEANERS
2109	PRIMO CLEANERS	2363	BIRCH STREET		PALO ALTO	CA	94306-1602	DRY CLEANERS

2111	REWEAVING STUDIO	3533	EL CAMINO REAL		PALO ALTO	CA	94306-2806	DRY CLEANERS
2120	ROY'S CLEANERS	2029	EL CAMINO REAL		PALO ALTO	CA	94306-1124	DRY CLEANERS
2107	STANFORD CLEANERS	2875	EL CAMINO REAL		PALO ALTO	CA	94306-2205	DRY CLEANERS
2092	TIDY TOWN CLEANERS	163	EVERETT AVENUE		PALO ALTO	CA	94301-1033	DRY CLEANERS
2095	TOWN & COUNTRY CLEANERS	42	TOWN COUNTRY VILLAGE		PALO ALTO	CA	94301-2326	DRY CLEANERS

FOOD SERVICE ESTABLISHMENTS

ID	Business Name	Street No	Street Name	Unit	City	State	Zip Code	Business Type
2501	7-ELEVEN FOOD STORE #18584	401	WAVERLEY ST		PALO ALTO	CA	94301	FOOD SERVICE
2502	7-ELEVEN STORE #2234-14315G	708	COLORADO AV		PALO ALTO	CA	94303	FOOD SERVICE
2503	A G FERRARI FOODS	200	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2504	A1 LIQUORS	3866	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2939	ABBEY'S	403	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2505	ABUNDANT AIR CAFE	1901	EMBARCADERO RD	103	PALO ALTO	CA	94303	FOOD SERVICE
2870	ACE OF SANDWICHES, THE	3866	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2506	ADDISON	650	ADDISON AV		PALO ALTO	CA	94301	FOOD SERVICE
2507	ADLAI E STEVENSON HOUSE	455	CHARLESTON RD		PALO ALTO	CA	94306	FOOD SERVICE
2910	ALL SAINT EPISCOPAL CHURCH	555	WAVERLEY ST		PALO ALTO	CA	94301	FOOD SERVICE
2509	AMARIN THAI CUISINE	407	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2511	ANDRONICO'S MARKET	180	EL CAMINO REAL	500	PALO ALTO	CA	94301	FOOD SERVICE
2514	ANTONIO'S NUT HOUSE	321	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2515	AQUARIUS THEATER	430	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2516	ASAP CALIFORNIA PIZZA KITCHEN	180	EL CAMINO REAL	136	PALO ALTO	CA	94301	FOOD SERVICE
2517	BABBO'S	180	EL CAMINO REAL	717	PALO ALTO	CA	94304	FOOD SERVICE
2902	BAJA FRESH MEXICAN GRILL	3990	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2519	BARBEQUES GALORE	2080	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2520	BARGAINS UNLIMITED	2129	SAINT FRANCIS DR		PALO ALTO	CA	94303	FOOD SERVICE
2521	BARRON PARK ELEMENTARY SCHOOL	800	BARRON AV		PALO ALTO	CA	94306	FOOD SERVICE
2522	BARRON PARK SHELL	3601	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2904	BASIA BISTRO	201	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2523	BASKIN ROBBINS ICE CREAM	2615	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2524	BAY CAFE & GOURMET DELI	1875	EMBARCADERO RD		PALO ALTO	CA	94303	FOOD SERVICE
2526	BECKMAN INSTRUMENTS CAFETERIA	1050	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2527	BEE CAFE	2479	BAYSHORE RD	708	PALO ALTO	CA	94303	FOOD SERVICE
2528	BELLA LUNA	233	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2927	BISTRO D'ASIE	445	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2529	BISTRO ELAN	448	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE

2530	BISTRO MAXINE	548	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2531	BLOCKBUSTER #06287	102	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2533	BLOOMINGDALE'S #31	180	EL CAMINO REAL	1	PALO ALTO	CA	94304	FOOD SERVICE
2535	BLUE CHALK CAFE	630	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2536	BLUE SKY 4AW3655	3000	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2538	BON APPETIT @ AFFYMAX	4001	MIRANDA AV		PALO ALTO	CA	94304	FOOD SERVICE
2911	BON APPETIT @ WM WARE	3401	HILLVIEW AV	BLDG C	PALO ALTO	CA	94304	FOOD SERVICE
2539	BORDERS & SEATTLE'S BEST	456	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2540	BOSTON MARKET #2418	3375	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2541	BOWNE OF PALO ALTO	2455	FABER PL		PALO ALTO	CA	94303	FOOD SERVICE
2542	BRAVO FONO	180	EL CAMINO REAL	99	PALO ALTO	CA	94304	FOOD SERVICE
2543	BUCA DI BEPPO	643	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2544	CABANA-CROWN PLAZA	4290	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2545	CAFE 220	220	UNIVERSITY AV	B	PALO ALTO	CA	94301	FOOD SERVICE
2546	CAFE BRIOCHE	445	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2547	CAFE PIAZZA	3000	EL CAMINO REAL	BLDG 1	PALO ALTO	CA	94306	FOOD SERVICE
2548	CAFE PRO BONO	2437	BIRCH ST		PALO ALTO	CA	94306	FOOD SERVICE
2549	CAFE RENAISSANCE / MISUNO	321	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2550	CAFE SOPHIA	2706	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2551	CAFFE DEL DOGE	419	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2552	CAFFE RIACE	200	SHERIDAN AV	102	PALO ALTO	CA	94306	FOOD SERVICE
2943	CALAFIA	855	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2553	CALIFORNIA CAFE BAR & GRILL	700	WELCH RD		PALO ALTO	CA	94304	FOOD SERVICE
2554	CALIFORNIA PIZZA KITCHEN	531	COWPER ST		PALO ALTO	CA	94301	FOOD SERVICE
2555	CASA ISABEL	2434	PARK BL		PALO ALTO	CA	94306	FOOD SERVICE
2556	CASTILLEJA SCHOOL	1310	BRYANT ST		PALO ALTO	CA	94301	FOOD SERVICE
2557	CELIA'S MEXICAN RESTAURANT	3740	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2558	CENTURY LIQUOR	2121	SAINT FRANCIS DR		PALO ALTO	CA	94303	FOOD SERVICE
2933	CHANNING HOUSE	850	WEBSTER ST		PALO ALTO	CA	94301	FOOD SERVICE
2572	CHEESECAKE FACTORY	375	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2574	CHINA DELIGHT	461	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2920	CHINA MEI	3781	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2951	CHIPOTLE		EL CAMINO REAL		PALO ALTO	CA		FOOD SERVICE
2575	CHO'S RESTAURANT	213	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2577	CIBO RESTAURANT & BAR	3398	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2578	CINE ARTS AT PALO ALTO SQUARE	3000	EL CAMINO REAL	2	PALO ALTO	CA	94306	FOOD SERVICE
2579	CLASSIC RESIDENCE BY HYATT	620	SAND HILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2923	COCONUT CARRIBEAN	642	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2581	COLD STONE CREAMERY	855	EL CAMINO REAL	9	PALO ALTO	CA	94301	FOOD SERVICE
2583	COMO ESTA TAQUERIA	2605	MIDDLEFIELD RD	A	PALO ALTO	CA	94303	FOOD SERVICE

2584	COMPADRES	3877	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2585	COUNTER, THE	369	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2586	COUNTRY SUN	440	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2587	COUPA CAFE	538	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2588	COWPER INN	705	COWPER ST		PALO ALTO	CA	94301	FOOD SERVICE
2589	CRABTREE & EVELYN	180	EL CAMINO REAL	48	PALO ALTO	CA	94304	FOOD SERVICE
2590	CRATE & BARREL	180	EL CAMINO REAL	530	PALO ALTO	CA	94304	FOOD SERVICE
2591	CROSSROADS WORLD MARKET	720	SAN ANTONIO AV		PALO ALTO	CA	94306	FOOD SERVICE
2940	CRUSTACEAN	564	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2593	DANNY BROWNS	4141	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2594	DARBAR INDIAN CUISINE	129	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2596	DIAZ MARKET STOP	3487	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2597	DIDDAMS PARTY & TOY STORES	215	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2598	DINAH'S POOLSIDE COFFEE SHOP	4261	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2599	DOMINO'S PIZZA	240	CAMBRIDGE AV	B	PALO ALTO	CA	94306	FOOD SERVICE
2600	DOUCE D'FRANCE	855	EL CAMINO REAL	104	PALO ALTO	CA	94301	FOOD SERVICE
2601	DRIFTWOOD MARKET	3450	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2602	DUVENECK SCHOOL	705	ALESTER AV		PALO ALTO	CA	94303	FOOD SERVICE
2603	EL CARMELO SCHOOL	3024	BRYANT ST		PALO ALTO	CA	94306	FOOD SERVICE
2604	ELBE RESTAURANT & RUDY'S PUB	117	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2607	EMPIRE TAP ROOM	651	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2608	EQUINOX FITNESS CLUB	435	ACACIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2609	ERNIE'S LIQUORS	3870	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2611	ESPRESSO BAR #5802	795	EL CAMINO REAL	2	PALO ALTO	CA	94301	FOOD SERVICE
2613	EUROMART	3707	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2614	EVE'S ESPRESSO	3400	HILLVIEW AV		PALO ALTO	CA	94304	FOOD SERVICE
2615	EVVIA	420	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2917	FACEBOOK	116	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2929	FACEBOOK	1601	CALIFORNIA AV		PALO ALTO	CA	94304	FOOD SERVICE
2616	FAIRMEADOW SCHOOL	500	MEADOW DR		PALO ALTO	CA	94306	FOOD SERVICE
2617	FAMBRINI'S TERRACE BISTRO	2600	EL CAMINO REAL		PALO ALTO	CA	94304	FOOD SERVICE
2618	FANNY & ALEXANDER	412	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2916	FIRST PRESBYTERIAN CHURCH	1140	COWPER ST		PALO ALTO	CA	94301	FOOD SERVICE
2619	FISH MARKET THE	3150	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2915	FLEMING'S STEAKHOUSE	180	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2620	FOOTHILL SWIM & TENNIS CLUB	3351	MIRANDA AV		PALO ALTO	CA	94304	FOOD SERVICE
2621	FRAN'S MARKET	499	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2623	FRESH TASTE CHINESE GARDEN	2111	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2624	FRY'S ELECTRONICS #1	340	PORTAGE AV		PALO ALTO	CA	94306	FOOD SERVICE
2625	FUKI SUSHI	4119	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE

2626	G & J ACQUISTIONS	1161	EMBARCADERO RD		PALO ALTO	CA	94303	FOOD SERVICE
2627	GARDEN COURT HOTEL	520	COWPER ST	2	PALO ALTO	CA	94301	FOOD SERVICE
2628	GATEAU ET GANACHE	3261	ASH ST	B2	PALO ALTO	CA	94306	FOOD SERVICE
2629	GELATO CLASSICO #2	435	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2631	GO BANANA	180	EL CAMINO REAL	163	PALO ALTO	CA	94304	FOOD SERVICE
2632	GODIVA CHOCOLATIER	180	EL CAMINO REAL	301	PALO ALTO	CA	94304	FOOD SERVICE
2634	GOOD EARTH CAFE & BAKERY	1520	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2635	GOOD EARTH PATIO CAFE	1899	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2636	GORDON BIERSCH BREWERY RESTAURANT	640	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2637	GOURMET FRANKS	180	EL CAMINO REAL	199	PALO ALTO	CA	94304	FOOD SERVICE
2638	GREEN ELEPHANT GOURMET	3950	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2571	KRONISH	3175	HANOVER ST		PALO ALTO	CA	94306	FOOD SERVICE
2643	GUCKENHEIMER @ PARC	3333	COYOTE HILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2644	GUCKENHEIMER @ ROCHE BIOSCIENCE	3431	HILLVIEW AV		PALO ALTO	CA	94304	FOOD SERVICE
2639	GUCKENHEIMER @ STIEFEL/CONNETICS	3160	PORTER DR		PALO ALTO	CA	94304	FOOD SERVICE
2646	GOODRICH	601	CALIFORNIA AV		PALO ALTO	CA	94304	FOOD SERVICE
2908	GOODRICH	950	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2909	GOODRICH	650	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2647	GUNN HIGH SCHOOL	780	ARASTRADERO RD		PALO ALTO	CA	94306	FOOD SERVICE
2648	GYROS GYROS	498	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2649	HAAGEN DAZS	180	EL CAMINO REAL	230	PALO ALTO	CA	94304	FOOD SERVICE
2650	HAAGEN-DAZS	203	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2652	HAMBOU CAFÉ	4329	EL CAMINO REAL	2	PALO ALTO	CA	94306	FOOD SERVICE
2653	HAMILTON THE	555	BYRON ST		PALO ALTO	CA	94301	FOOD SERVICE
2949	HAN	452	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2654	HAPPY DONUTS	3916	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2655	HATTORIYA	799	SAN ANTONIO AV		PALO ALTO	CA	94303	FOOD SERVICE
2656	HOBEE'S	855	EL CAMINO REAL	67	PALO ALTO	CA	94301	FOOD SERVICE
2657	HOBEE'S RESTAURANT	4224	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2658	HOLLYWOOD VIDEO #005-592	3903	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2659	HOMMA'S BROWN RICE SUSHI	2363	BIRCH ST	B	PALO ALTO	CA	94306	FOOD SERVICE
2660	HONEY BAKED HAM	4113	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2661	HOOVER SCHOOL	445	CHARLESTON RD		PALO ALTO	CA	94306	FOOD SERVICE
2662	HOUSE OF BAGELS	526	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2941	HOWIE'S ARTISAN PIZZA	855	EL CAMINO REAL	60	PALO ALTO	CA	94301	FOOD SERVICE
2664	HUNAN GARDEN RESTAURANT	3345	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2665	HYDERABAD HOUSE	448	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2667	IL FORNAIO	520	COWPER ST		PALO ALTO	CA	94301	FOOD SERVICE
2668	ILLUSIONS SUPER CLUB	260	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2669	INDOCHINE	2710	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE

2670	IZZY'S BROOKLYN BAGELS	477	CALIFORNIA AV		PALO ALTO	CA	94301	FOOD SERVICE
2671	J J & F FOOD STORE	520	COLLEGE AV		PALO ALTO	CA	94306	FOOD SERVICE
2672	JACK IN THE BOX	3885	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2673	JACK IN THE BOX	2280	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2674	JADE PALACE	151	CALIFORNIA AV	E101	PALO ALTO	CA	94306	FOOD SERVICE
2675	JAMBA JUICE #3	855	EL CAMINO REAL	69	PALO ALTO	CA	94301	FOOD SERVICE
2676	JAMBA JUICE #325	3990	EL CAMINO REAL	2	PALO ALTO	CA	94306	FOOD SERVICE
2677	JANE LATHROP STANFORD MIDDLE SCHOOL	480	MEADOW DR		PALO ALTO	CA	94306	FOOD SERVICE
2678	JANTA INDIAN CUISINE	369	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2936	JIN SHO	454	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2679	JING JING RESTAURANT	443	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2680	JOANIE'S CAFE	447	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2681	JORDAN MIDDLE SCHOOL	750	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2921	JOYA	339	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2682	JUANA BRIONES SCHOOL	4100	ORME ST		PALO ALTO	CA	94306	FOOD SERVICE
2683	JUICY SPOT AND CREAMERY	125	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2684	JUNNOON RESTAURANT	150	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2685	KAN ZEMAN	270	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2686	KANPAI	330	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2687	KEHILLAH JEWISH HIGH SCHOOL	3900	FABIAN WY		PALO ALTO	CA	94303	FOOD SERVICE
2688	KENTUCKY FRIED CHICKEN	851	SAN ANTONIO AV		PALO ALTO	CA	94303	FOOD SERVICE
2689	KIKI'S A CANDY BAR	3750	FABIAN WY		PALO ALTO	CA	94303	FOOD SERVICE
2691	KIRK'S STEAKBURGERS	855	EL CAMINO REAL	75	PALO ALTO	CA	94301	FOOD SERVICE
2693	KRUNG SIAM THAI CUISINE	423	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2694	L&L HAWAIIAN BBQ	3890	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2695	LA BAGUETTE	180	EL CAMINO REAL	170	PALO ALTO	CA	94304	FOOD SERVICE
2696	LA BODEGUITA DEL MEDIO	463	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2697	LA COMIDA	450	BRYANT ST		PALO ALTO	CA	94301	FOOD SERVICE
2698	LA CREME DE CAFE	3191	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2699	LA MORENITA RESTAURANT	800	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2700	LA STRADA	355	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2701	LAVANDA	185	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2703	LONG LIFE NOODLE CO	180	EL CAMINO REAL	393	PALO ALTO	CA	94304	FOOD SERVICE
2704	LONG'S DRUG STORE #292	352	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2705	LONG'S DRUG STORE #575	855	EL CAMINO REAL	116	PALO ALTO	CA	94301	FOOD SERVICE
2706	LONG'S DRUG STORES #429	2701	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2935	LOTUS THAI BISTRO	425	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2924	LOUI LOUI	473	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2947	LOVING HUT	165	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2708	LUCILE S PACKARD CHILDREN'S HOSP	725	WELCH RD		PALO ALTO	CA	94304	FOOD SERVICE

2931	LULU'S	855	EL CAMINO REAL	49	PALO ALTO	CA	94301	FOOD SERVICE
2710	LUNCHSTOP @ LOCKHEED MARTIN #206	3251	HANOVER ST	206	PALO ALTO	CA	94304	FOOD SERVICE
2711	LYTTON AVE COFFEE ROASTING CO	401	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2712	MACARTHUR PARK	27	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2713	MAC'S SMOKE SHOP	534	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2714	MACY'S DEPT STORES INC	180	EL CAMINO REAL	300	PALO ALTO	CA	94304	FOOD SERVICE
2716	MADISON & FIFTH	367	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2717	MANDARIN CUISINE	3417	ALMA ST		PALO ALTO	CA	94300	FOOD SERVICE
2718	MANDARIN GOURMET	420	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2719	MANGO CARIBBEAN RESTAURANT	435	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2720	MANTRA RESTAURANT	636	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2721	MAX'S OPERA CAFE	180	EL CAMINO REAL	711	PALO ALTO	CA	94304	FOOD SERVICE
2942	MAYFIELD BAKERY & CAFÉ	855	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2722	MCDONALD'S	180	EL CAMINO REAL	190	PALO ALTO	CA	94304	FOOD SERVICE
2723	MCDONALD'S RESTAURANT #3094	3128	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2725	MEDITERRANEAN WRAPS	433	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2938	MEDITERRANEAN WRAPS	209	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2928	MELT LOUNGE	544	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2726	MICHAEL'S GELATO CAFE	440	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2727	MIKE'S CAFE ETC	2680	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2728	MING'S VILLA	1700	EMBARCADERO RD		PALO ALTO	CA	94303	FOOD SERVICE
2729	MIYAKE	140	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2731	MOLLIE STONES MARKET	164	CALIFORNIA AV		PALO ALTO	CA	94300	FOOD SERVICE
2733	NEIMAN-MARCUS RESTAURANT	180	EL CAMINO REAL	400	PALO ALTO	CA	94304	FOOD SERVICE
2735	NEOTTE TEA	429	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2736	NEW YORK PIZZA	325	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2738	NOAH'S NEW YORK BAGELS #2106	278	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2739	NOLA'S	535	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2742	NORDSTROM #422	180	EL CAMINO REAL	550	PALO ALTO	CA	94304	FOOD SERVICE
2744	OAKVILLE GROCERY	180	EL CAMINO REAL	715	PALO ALTO	CA	94304	FOOD SERVICE
2919	OAXACAN KITCHEN, THE	2323	BIRCH ST		PALO ALTO	CA	94306	FOOD SERVICE
2746	OHLONE SCHOOL	950	AMARILLO AV		PALO ALTO	CA	94303	FOOD SERVICE
2748	OLD PRO	545	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2749	OLIVE GARDEN RESTAURANT	2515	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2750	OSTERIA	247	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2752	PALO ALTO BAKING COMPANY	381	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2753	PALO ALTO BOWL BAR	4329	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2754	PALO ALTO CAFE	2675	MIDDLEFIELD RD	A	PALO ALTO	CA	94303	FOOD SERVICE
2755	PALO ALTO CHEVRON	3897	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2756	PALO ALTO CITY HALL CAFE	250	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE

2757	PALO ALTO CREAMERY AT STANFORD	180	EL CAMINO REAL	2A	PALO ALTO	CA	94304	FOOD SERVICE
2758	PALO ALTO ELKS LODGE	4249	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2759	PALO ALTO HILLS GOLF & COUNTRY CLUB	3000	ALEXIS DR		PALO ALTO	CA	94304	FOOD SERVICE
2760	PALO ALTO SENIOR HIGH SCHOOL	50	EMBARCADERO RD		PALO ALTO	CA	94301	FOOD SERVICE
2761	PALO ALTO SHELL	2200	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2762	PALO ALTO SOL	408	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2763	PALO ALTO UNOCAL	835	SAN ANTONIO AV		PALO ALTO	CA	94303	FOOD SERVICE
2764	PALO VERDE SCHOOL	3450	LOUIS RD		PALO ALTO	CA	94303	FOOD SERVICE
2751	PAMF GUCKENHEIMER	795	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2913	PAMPAS	529	ALMA ST		PALO ALTO	CA	94301	FOOD SERVICE
2765	PANACHE CATERING	3261	ASH ST	B	PALO ALTO	CA	94306	FOOD SERVICE
2766	PAPA MURPHYS	2730	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2767	PAPASITO'S SPORTS BAR & GRILL	2115	SAINT FRANCIS DR		PALO ALTO	CA	94303	FOOD SERVICE
2768	PASTA D'ANGELO	326	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2769	PATXI'S CHICAGO PIZZA	441	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2770	PEET'S COFFEE & TEA	153	HOMER AV		PALO ALTO	CA	94301	FOOD SERVICE
2771	PEET'S COFFEE & TEA	855	EL CAMINO REAL	77	PALO ALTO	CA	94301	FOOD SERVICE
2772	PEET'S COFFEE & TEA #111	3904	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2773	PEKING DUCK RESTAURANT	2310	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2774	PENINSULA CREAMERY DAIRY FOUNTAIN	900	HIGH ST		PALO ALTO	CA	94301	FOOD SERVICE
2775	PENINSULA FOUNTAIN & GRILL	566	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2778	PF CHANG'S CHINA BISTRO	180	EL CAMINO REAL	900	PALO ALTO	CA	94304	FOOD SERVICE
2779	PIAZZA'S FINE FOODS GROCERY	3922	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE
2781	PIZZA CHICAGO	4115	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2782	PIZZA MY HEART	220	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2783	PLANTATION CAFE	109	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2784	PLAYA BAR AND GRILL	180	EL CAMINO REAL	244	PALO ALTO	CA	94304	FOOD SERVICE
2785	PLUTO'S	482	UNIVERSITY AV		PALO ALTO	CA	94303	FOOD SERVICE
2786	POLISH DELI	456	CAMBRIDGE AV		PALO ALTO	CA	94306	FOOD SERVICE
2787	POMMAND CAFE	3163	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2788	PRINTERS CAFE	320	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2789	PROLIFIC OVEN THE	550	WAVERLEY ST		PALO ALTO	CA	94301	FOOD SERVICE
2790	QUIZNO'S SUB	180	UNIVERSITY AV	508	PALO ALTO	CA	94301	FOOD SERVICE
2792	QUIZNO'S SUBS #828	490	CALIFORNIA AV	101	PALO ALTO	CA	94306	FOOD SERVICE
2930	R&B SEAFOOD RESTAURANT	2209	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2918	RAMEN CLUB	3924	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2793	RAMONA'S PIZZA	2313	BIRCH ST		PALO ALTO	CA	94306	FOOD SERVICE
2794	RANGOON RESTAURANT	565	BRYANT ST		PALO ALTO	CA	94301	FOOD SERVICE
2932	REPASADO	236	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2795	RICK'S ICE CREAM	3950	MIDDLEFIELD RD		PALO ALTO	CA	94306	FOOD SERVICE

2796	ROBAII	496	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2946	ROJOZ		MIDDLEFIELD RD		PALO ALTO	CA		FOOD SERVICE
2798	ROSE & CROWN	547	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2799	ROUND TABLE PIZZA	405	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2800	ROUND TABLE PIZZA	702	COLORADO AV		PALO ALTO	CA	94303	FOOD SERVICE
2801	ROUND TABLE PIZZA #15	263	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2802	S O S FINE FOODS	949	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2803	SAFEWAY #1682	2811	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2805	SAN ANTONIO AUTO SERVICES INC	699	SAN ANTONIO AV		PALO ALTO	CA	94306	FOOD SERVICE
2945	SANCHO'S TAQUERIA	491	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2640	SAP CAFÉ D-BON APPETIT	3410	HILLVIEW AV		PALO ALTO	CA	94304	FOOD SERVICE
2806	SAP CAFETERIA-BON APPETIT	3475	DEER CREEK RD		PALO ALTO	CA	94304	FOOD SERVICE
2642	SAP-BON APPETIT	3412	HILLVIEW AV		PALO ALTO	CA	94304	FOOD SERVICE
2807	SATURA CAKES	320	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2809	SCHAUB'S MEAT FISH & POULTRY	180	EL CAMINO REAL	395	PALO ALTO	CA	94304	FOOD SERVICE
2810	SCOTT'S SEAFOOD GRILL & BAR	855	EL CAMINO REAL	1	PALO ALTO	CA	94301	FOOD SERVICE
2934	SCOTTY'S BAR	548	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2811	SEE'S CANDIES #45	180	EL CAMINO REAL	680	PALO ALTO	CA	94304	FOOD SERVICE
2812	SEHBALI CAFE & HOOKAH SHOP	235	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2814	SHERATON PALO ALTO	625	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2907	SHOKOOLAT	516	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2816	SIAM ROYAL AUTHENTIC THAI CUISINE	338	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2817	SIGONA FARMERS MKT	180	EL CAMINO REAL	399	PALO ALTO	CA	94304	FOOD SERVICE
2818	SIMPLY SANDWICHES	2431	ASH ST		PALO ALTO	CA	94306	FOOD SERVICE
2950	SLIDEBAR	324	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2819	SMOG PROS ARCO #1326	840	SAN ANTONIO AV		PALO ALTO	CA	94303	FOOD SERVICE
2820	SO GONG DONG TOFU HOUSE	4127	EL CAMINO REAL	A	PALO ALTO	CA	94306	FOOD SERVICE
2824	SODEXHO @ SCHERING PLOUGH BIOPHARMA	901	CALIFORNIA AV		PALO ALTO	CA	94304	FOOD SERVICE
2825	SODEXHO @ VARIAN ASSOCIATES	3130	HANSEN WY	4B	PALO ALTO	CA	94304	FOOD SERVICE
2822	SODEXHO MGNT INC@ HP3000 HANOVER BLD	3000	HANOVER ST	20C	PALO ALTO	CA	94304	FOOD SERVICE
2823	SODEXHO MNGT INC-HP STANFORD SITE	1501	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE
2826	SOME KIND OF PLACE- A KOREAN BBQ	855	EL CAMINO REAL	85	PALO ALTO	CA	94301	FOOD SERVICE
2827	SPACE SYSTEMS LORAL	3825	FABIAN WY		PALO ALTO	CA	94303	FOOD SERVICE
2828	SPAGO	265	LYTTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2829	SPALTI RISTORANTE	417	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2830	SPOT-A-PIZZA PLACE	115	HAMILTON AV		PALO ALTO	CA	94301	FOOD SERVICE
2948	SPROUTS	168	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2831	ST ELIZABETH SETON SCHOOL	1095	CHANNING AV		PALO ALTO	CA	94301	FOOD SERVICE
2832	ST MICHAEL'S ALLEY	806	EMERSON ST		PALO ALTO	CA	94303	FOOD SERVICE
2833	STANFORD TERRACE INN	531	STANFORD AV		PALO ALTO	CA	94306	FOOD SERVICE

2834	STANFORD THEATRE FOUNDATION	221	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2835	STARBUCKS #5555	2775	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2836	STARBUCKS #9870	361	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2837	STARBUCKS COFFEE #2822	180	EL CAMINO REAL	79	PALO ALTO	CA	94304	FOOD SERVICE
2838	STARBUCKS COFFEE #2886	4131	EL CAMINO REAL	101	PALO ALTO	CA	94306	FOOD SERVICE
2839	STARBUCKS COFFEE #5541	2000	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2840	STARBUCKS COFFEE #565	276	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2841	STRAITS CAFE PALO ALTO	3295	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2926	SU HONG	4256	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2842	SU HONG RESTAURANT PALO ALTO	4111	EL CAMINO WY		PALO ALTO	CA	94306	FOOD SERVICE
2843	SUBWAY #27048	421	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2844	SUBWAY #30816	4131	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2845	SUBWAY #32950	2717	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2846	SUBWAY SANDWICH & SALAD	314	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2847	SUNDANCE MINE COMPANY	1921	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2848	SUSHI HOUSE	855	EL CAMINO REAL	158	PALO ALTO	CA	94301	FOOD SERVICE
2849	SUSHI TOMO	201	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2850	SUSHI TOMO	4131	EL CAMINO WY		PALO ALTO	CA	94306	FOOD SERVICE
2851	SUSHIYA RESTAURANT	380	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2852	SWEET THINGS	180	EL CAMINO REAL	168	PALO ALTO	CA	94304	FOOD SERVICE
2853	SZECHWAN CAFE	406	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2854	TACO BELL #0976	3850	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2855	TACO BELL #2297	910	CHARLESTON RD		PALO ALTO	CA	94306	FOOD SERVICE
2857	TAIPAN PALO ALTO	560	WAVERLEY ST		PALO ALTO	CA	94301	FOOD SERVICE
2858	TAMARINE RESTAURANT	546	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2925	TANDOORI OVEN	365	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2859	TAQUERIA AZTECA	321	CALIFORNIA AV	2	PALO ALTO	CA	94306	FOOD SERVICE
2860	TAQUERIA EL GRULLENSE	3636	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2863	TEA TIME-TEA LOVERS SHOP	542	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2864	TEAVANA # 26	180	EL CAMINO REAL	3	PALO ALTO	CA	94304	FOOD SERVICE
2865	TERMAN MIDDLE SCHOOL	655	ARASTRADERO RD		PALO ALTO	CA	94306	FOOD SERVICE
2866	TEUSCHER CHOCOLATE OF SWITZERLAND	180	EL CAMINO REAL	151	PALO ALTO	CA	94304	FOOD SERVICE
2867	THAI CITY RESTAURANT	3691	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2868	THAI GARDEN RESTAURANT	4329	EL CAMINO REAL	3	PALO ALTO	CA	94306	FOOD SERVICE
2869	THAIPHOON RESTAURANT	543	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2872	THREE SEASONS RESTAURANT	518	BRYANT ST		PALO ALTO	CA	94301	FOOD SERVICE
2874	TIBCO-BON APPETIT	3307	HILLVIEW AV		PALO ALTO	CA	94304	FOOD SERVICE
2944	TRADER JOES	855	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2875	TRADER VIC'S	4269	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2877	UNIVERSITY CAFE	271	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE

2876	UNIVERSITY CLUB OF PALO ALTO R	3277	MIRANDA AV		PALO ALTO	CA	94300	FOOD SERVICE
2922	UZUMAKI SUSHI	451	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2576	VALERO OF PALO ALTO	1963	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2880	VERO	530	BRYANT ST		PALO ALTO	CA	94301	FOOD SERVICE
2881	VILLAGE CHEESE HOUSE INC	855	EL CAMINO REAL	157	PALO ALTO	CA	94301	FOOD SERVICE
2882	VIN VINO WINE	437	CALIFORNIA AV		PALO ALTO	CA	94306	FOOD SERVICE
2883	VINO LOCALE	431	KIPLING ST		PALO ALTO	CA	94301	FOOD SERVICE
2884	WALGREENS #06869	2605	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2885	WALGREENS #0781	300	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2886	WALGREENS #3344	4170	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2887	WALTER HAYS SCHOOL	1525	MIDDLEFIELD RD		PALO ALTO	CA	94303	FOOD SERVICE
2889	WEBSTER HOUSE	401	WEBSTER ST		PALO ALTO	CA	94301	FOOD SERVICE
2890	WEIGHT WATCHERS #3069	855	EL CAMINO REAL	88	PALO ALTO	CA	94301	FOOD SERVICE
2891	WEST FRESH	2237	EL CAMINO REAL		PALO ALTO	CA	94306	FOOD SERVICE
2610	WESTERN DINING @ CPI	811	HANSEN WY		PALO ALTO	CA	94304	FOOD SERVICE
2892	WESTIN PALO ALTO	675	EL CAMINO REAL		PALO ALTO	CA	94301	FOOD SERVICE
2893	WHOLE FOODS MARKET	774	EMERSON ST		PALO ALTO	CA	94301	FOOD SERVICE
2899	WINE ROOM, THE	520	RAMONA ST		PALO ALTO	CA	94301	FOOD SERVICE
2896	ZAO NOODLE BAR	261	UNIVERSITY AV		PALO ALTO	CA	94301	FOOD SERVICE
2897	ZIBIBBO'S	430	KIPLING ST		PALO ALTO	CA	94301	FOOD SERVICE
2898	ZYME & DINE CAFE	925	PAGE MILL RD		PALO ALTO	CA	94304	FOOD SERVICE

MACHINE SHOP FACILITIES

ID	Name	No	Street Name	Unit	City	State	Zip	Business Type
9	SYNTEX CORPORATION	3401	1,2		PALO ALTO	CA	94304-	MACHINE SHOP
627	HEWLETT PACKARD LABORATORIES	1501	PAGE MILL ROAD, BLDG. 1-6		PALO ALTO	CA	94303-	MACHINE SHOP
683	SPACE SYSTEMS/LORAL	3825	FABIAN WAY, M/S D-07		PALO ALTO	CA	94303-4697	MACHINE SHOP
919	COMMUNICATION & POWER INDUSTRY	811	HANSEN WAY, BLDG-1/2		PALO ALTO	CA	94303-0750	MACHINE SHOP
1016	ALZA CORPORATION	2575	HANOVER STREET, BLD D		PALO ALTO	CA	94304-	MACHINE SHOP
1018	ALZA CORPORATION	1450	PAGE MILL ROAD, BLD N		PALO ALTO	CA	94303-	MACHINE SHOP
1020	BECKMAN INSTRUMENTS	1050	PAGE MILL ROAD, BLDG-2B/3		PALO ALTO	CA	94304-	MACHINE SHOP
1034	HAMMON PLATING CORPORATION	890	COMMERCIAL STREET		PALO ALTO	CA	94303-	MACHINE SHOP
1037	HEWLETT PACKARD	1601	BUILDING 17		PALO ALTO	CA	94304-	MACHINE SHOP
1064	VARIAN ASSOCIATES, INC	3075	HANSEN WAY, BLDG 7		PALO ALTO	CA	94304-	MACHINE SHOP
1065	VA PALO ALTO HEALTH CARE SYS	3801	MIRANDA ROAD		PALO ALTO	CA	94304-	MACHINE SHOP
1861	SAS TAP & STUD EXTRACTION	3516	EL CAMINO REAL		PALO ALTO	CA	94306-	MACHINE SHOP
1864	SPECIFIC PLATING	930	INDUSTRIAL AVENUE		PALO ALTO	CA	94303-	MACHINE SHOP

2008	BARON WELDING & IRON WORKS, INC.	255	DEMETER		PALO ALTO	CA	94303-	MACHINE SHOP
2057	QUALITY METAL SPIN/MACHIN.	4047	TRANSPORT STREET		PALO ALTO	CA	94303-	MACHINE SHOP
2801	NOVACEPT	1047	ELWELL COURT		PALO ALTO	CA	94303-	MACHINE SHOP
3186	GEMFIRE CORPORATION	2440	EMBARCADERO WAY		PALO ALTO	CA	94303-	MACHINE SHOP
1089	STANFORD UNIVERSITY	327	BONAIR SIDING		STANFORD	CA	94305-8007	MACHINE SHOP

OTHER FACILITIES

ID	Name	No	Street Name	Unit	City	State	Zip	Business Type
2954	VCA Stanford Animal Hospital	4111	El Camino Real		PALO ALTO	CA	94306	Animal Services
2959	City of Palo Alto Animal Services	3281	EAST BAYSHORE		PALO ALTO	CA	94303	Animal Services
2960	El Camino Animal Hospital	2951	El Camino Real		PALO ALTO	CA	94306	Animal Services
2961	The Animal Doctors	461	Page Mill		PALO ALTO	CA	94306	Animal Services
2957	Palo Alto Hardware	875	Alma		PALO ALTO	CA	94301	Building Material Centers
2958	Peninsula Hardware	2676	Middlefield		PALO ALTO	CA	94306	Building Material Centers
2965	Summer Winds Nursery	725	SAN ANTONIO		PALO ALTO	CA	94303	Nursuries/Greenhouses
2966	Barron Park Nursery and Florist	3876	El Camino Real		PALO ALTO	CA	94306	Nursuries/Greenhouses
2972	Ciardella's Garden Supply Inc.	1001	San Antonio		PALO ALTO	CA	94303	Nursuries/Greenhouses
2974	Common Grounds Organic Garden Supply	559	COLLEGE		PALO ALTO	CA	94306	Nursuries/Greenhouses
2967	City of Palo Alto Recycling Center	2380	Embarcadero		PALO ALTO	CA	94303	Recycling Centers

Appendix 4-2

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

FacilityName	Street_No	Street_Name	City	State	ZipCode	Buiness Category	FacilityAddress
City of Palo Alto Animal Services	3281	EAST BAYSHORE	Palo Alto	CA	94303	Animal Services	3281 EAST BAYSHORE, PALO ALTO, CA 94303
El Camino Animal Hospital	2951	El Camino Real	Palo Alto	CA	94306	Animal Services	2951 El Camino Real, PALO ALTO, CA 94306
The Animal Doctors	461	Page Mill	Palo Alto	CA	94306	Animal Services	461 Page Mill, PALO ALTO, CA 94306
VCA Stanford Animal Hospital	4111	El Camino Real	Palo Alto	CA	94306	Animal Services	4111 El Camino Real, PALO ALTO, CA 94306
A-1 Auto Service	2526	Pulgas Avenue	East Palo Alto	CA	94303	Automotive	2526 Pulgas Avenue, East Palo Alto, CA 94303
Advantage Aviation	1903	Embarcadero Road	Palo Alto	CA	94303	Automotive	1903 Embarcadero Road, Palo Alto, CA 94303
Akins Body Shop	3045	Park Boulevard	Palo Alto	CA	94306	Automotive	3045 Park Boulevard, Palo Alto, CA 94306
Akins Body Shop #2	2905	El Camino Real	Palo Alto	CA	94306	Automotive	2905 El Camino Real, Palo Alto, CA 94306
Allied Auto Works	2073	Grant Road	Los Altos	CA	94024	Automotive	2073 Grant Road, Los Altos, CA 94024
Allied Auto Works #2	1540	Miramonte Road	Los Altos	CA	94024	Automotive	1540 Miramonte Road, Los Altos, CA 94024
Anderson Honda	1766	Embarcadero Road	Palo Alto	CA	94303	Automotive	1766 Embarcadero Road, Palo Alto, CA 94303
Arco - PSI5429	699	San Antonio Road	Palo Alto	CA	94306	Automotive	699 San Antonio Road, Palo Alto, CA 94306
Art's Body Craft	280	Lambert Avenue	Palo Alto	CA	94306	Automotive	280 Lambert Avenue, Palo Alto, CA 94306
Auto Pride Car Wash	841	El Camino Real	Palo Alto	CA	94301	Automotive	841 El Camino Real, Palo Alto, CA 94301
Avis Rent-A-Car System, Inc.	4216	El Camino Real	Palo Alto	CA	94306	Automotive	4216 El Camino Real, Palo Alto, CA 94306
Barron Park Shell Service	3601	El Camino Real	Palo Alto	CA	94306	Automotive	3601 El Camino Real, Palo Alto, CA 94306
Brad Lozares Golf Shop	1875	Embarcadero Road	Palo Alto	CA	94303	Automotive	1875 Embarcadero Road, Palo Alto, CA 94303
Budget Rent-A-Car	4230	El Camino Real	Palo Alto	CA	94306	Automotive	4230 El Camino Real, Palo Alto, CA 94306
California Automotive	139	First Street	Los Altos	CA	94022	Automotive	139 First Street, Los Altos, CA 94022
CALIFORNIA CLEANERS	395	California	Palo Alto	CA	94306	Automotive	395 California, Palo Alto, CA 94306
Campus Service/Valero	715	Serra Street	Stanford	CA	94305	Automotive	715 Serra Street, Stanford, CA 94305
Carlsen Audi	1730	Embarcadero Road	Palo Alto	CA	94303	Automotive	1730 Embarcadero Road, Palo Alto, CA 94303
Carlsen Volvo	4180	El Camino Real	Palo Alto	CA	94306	Automotive	4180 El Camino Real, Palo Alto, CA 94306
Cavallino Collision Repair	1880	West Bayshore Road	East Palo Alto	CA	94303	Automotive	1880 West Bayshore Road, East Palo Alto, CA 94303
Chevron Automotive Center	2300	Homestead Road	Los Altos	CA	94024	Automotive	2300 Homestead Road, Los Altos, CA 94024
Chevron USA	3897	El Camino Real	Palo Alto	CA	94306	Automotive	3897 El Camino Real, Palo Alto, CA 94306
CMK Automotive	904	Industrial Avenue	Palo Alto	CA	94303	Automotive	904 Industrial Avenue, Palo Alto, CA 94303
CSI Chevron	2101	University Avenue	East Palo Alto	CA	94303	Automotive	2101 University Avenue, East Palo Alto, CA 94303
D & M Motors	190	Channing Avenue	Palo Alto	CA	94301	Automotive	190 Channing Avenue, Palo Alto, CA 94301
Dave's Auto Repair	830	East Charleston Road	Palo Alto	CA	94306	Automotive	830 East Charleston Road, Palo Alto, CA 94306
East Palo Alto Shell	2194	University Avenue	East Palo Alto	CA	94303	Automotive	2194 University Avenue, East Palo Alto, CA 94303
El Camino Unocal	4350	El Camino Real	Los Altos	CA	94022	Automotive	4350 El Camino Real, Los Altos, CA 94022
Elite Auto Performance	1963	El Camino Real	Palo Alto	CA	94306	Automotive	1963 El Camino Real, Palo Alto, CA 94306
Embarcadero Shell	1161	Embarcadero Road	Palo Alto	CA	94303	Automotive	1161 Embarcadero Road, Palo Alto, CA 94303
Enterprise Rent-A-Car	4193	El Camino Real	Palo Alto	CA	94306	Automotive	4193 El Camino Real, Palo Alto, CA 94306
Enterprise Rent-A-Car	814	San Antonio Road	Palo Alto	CA	94303	Automotive	814 San Antonio Road, Palo Alto, CA 94303
European/Asian Auto Center	111	Homer Avenue	Palo Alto	CA	94301	Automotive	111 Homer Avenue, Palo Alto, CA 94301
Fimbres Brothers	906	Industrial Avenue	Palo Alto	CA	94303	Automotive	906 Industrial Avenue, Palo Alto, CA 94303
Han's Car Service	904	High Street	Palo Alto	CA	94301	Automotive	904 High Street, Palo Alto, CA 94301
Heinichen's Garage	960	High Street	Palo Alto	CA	94301	Automotive	960 High Street, Palo Alto, CA 94301
Hengehold Motor Company	762	San Antonio Road	Palo Alto	CA	94303	Automotive	762 San Antonio Road, Palo Alto, CA 94303
Hengehold Truck Rental	762	San Antonio Road	Palo Alto	CA	94303	Automotive	762 San Antonio Road, Palo Alto, CA 94303
Hertz Local Edition	4220	El Camino Real	Palo Alto	CA	94306	Automotive	4220 El Camino Real, Palo Alto, CA 94306
High Street Auto	904	High Street	Palo Alto	CA	94301	Automotive	904 High Street, Palo Alto, CA 94301
Infinity Auto Salvage	2091	Bay Road	East Palo Alto	CA	94303	Automotive	2091 Bay Road, East Palo Alto, CA 94303
Jiffy Lube #1283	4201	Middlefield Road	Palo Alto	CA	94303	Automotive	4201 Middlefield Road, Palo Alto, CA 94303
Jiffy Lube #1297	4195	El Camino Real	Palo Alto	CA	94306	Automotive	4195 El Camino Real, Palo Alto, CA 94306
Jim Davis Automotive	3972	El Camino Real	Palo Alto	CA	94306	Automotive	3972 El Camino Real, Palo Alto, CA 94306
Kmas, Inc.	1001	East Charleston Road	Palo Alto	CA	94303	Automotive	1001 East Charleston Road, Palo Alto, CA 94303
Kurt & Dorn's Service	930	Emerson Street	Palo Alto	CA	94301	Automotive	930 Emerson Street, Palo Alto, CA 94301
Ladera Auto Works	465	First Street	Los Altos	CA	94022	Automotive	465 First Street, Los Altos, CA 94022
Los Altos Arco AM/PM	988	N. San Antonio Road	Los Altos	CA	94022	Automotive	988 N. San Antonio Road, Los Altos, CA 94022
Los Altos City Yard	707	Fremont Avenue	Los Altos	CA	94024	Automotive	707 Fremont Avenue, Los Altos, CA 94024
Los Altos City Yard	707	Fremont Avenue	Los Altos	CA	95122	Automotive	707 Fremont Avenue, Los Altos, CA 95122
Los Altos Union	330	S. San Antonio Road	Los Altos	CA	94022	Automotive	330 S. San Antonio Road, Los Altos, CA 94022
Maaco Painting & Bodyworks	816	San Antonio Road	Palo Alto	CA	94303	Automotive	816 San Antonio Road, Palo Alto, CA 94303
Mathew's - Carlson Bodyworks	2480	Faber Place	Palo Alto	CA	94303	Automotive	2480 Faber Place, Palo Alto, CA 94303
Mechanica Automotive	788	San Antonio Road	Palo Alto	CA	94303	Automotive	788 San Antonio Road, Palo Alto, CA 94303
Meissner Automotive	811	East Charleston Road	Palo Alto	CA	94303	Automotive	811 East Charleston Road, Palo Alto, CA 94303
Midas Muffler & Brake Shop	4200	El Camino Real	Palo Alto	CA	94306	Automotive	4200 El Camino Real, Palo Alto, CA 94306
Municipal Golf Course Maintenance	1875	Embarcadero Road	Palo Alto	CA	94303	Automotive	1875 Embarcadero Road, Palo Alto, CA 94303
Municipal Service Center	3201	East Bayshore Road	Palo Alto	CA	94303	Automotive	3201 East Bayshore Road, Palo Alto, CA 94303
National Car Rental	4218	El Camino Real	Palo Alto	CA	94306	Automotive	4218 El Camino Real, Palo Alto, CA 94306
Nine Minute Oil & Lube	3839	El Camino Real	Palo Alto	CA	94306	Automotive	3839 El Camino Real, Palo Alto, CA 94306
Oil Changers	780	San Antonio Road	Palo Alto	CA	94303	Automotive	780 San Antonio Road, Palo Alto, CA 94303
Palo Alto Aero Service	1901	Embarcadero Road	Palo Alto	CA	94303	Automotive	1901 Embarcadero Road, Palo Alto, CA 94303
Palo Alto Airport	1925	Embarcadero Road	Palo Alto	CA	94303	Automotive	1925 Embarcadero Road, Palo Alto, CA 94303
Palo Alto Auto Repair	3508	El Camino Real	Palo Alto	CA	94306	Automotive	3508 El Camino Real, Palo Alto, CA 94306
Palo Alto BMW	799	Alma Street	Palo Alto	CA	94301	Automotive	799 Alma Street, Palo Alto, CA 94301
Palo Alto Fire Station #1	301	Alma Street	Palo Alto	CA	94301	Automotive	301 Alma Street, Palo Alto, CA 94301
Palo Alto Fire Station #2	2675	Hanover Street	Palo Alto	CA	94304	Automotive	2675 Hanover Street, Palo Alto, CA 94304
Palo Alto Fire Station #3	799	Embarcadero Road	Palo Alto	CA	94303	Automotive	799 Embarcadero Road, Palo Alto, CA 94303
Palo Alto Fire Station #4	3600	Middlefield Road	Palo Alto	CA	94306	Automotive	3600 Middlefield Road, Palo Alto, CA 94306
Palo Alto Fire Station #5	600	Arastradero Road	Palo Alto	CA	94306	Automotive	600 Arastradero Road, Palo Alto, CA 94306
Palo Alto Fuel Service	1901	Embarcadero Road, #101	Palo Alto	CA	94303	Automotive	1901 Embarcadero Road, #101, Palo Alto, CA 94303
Palo Alto German Car Corporation	3939	El Camino Real	Palo Alto	CA	94306	Automotive	3939 El Camino Real, Palo Alto, CA 94306

FacilityName	Street_No	Street_Name	City	State	ZipCode	Buiness Category	FacilityAddress
PALO ALTO HILLS GOLF & COUNTRY CLUB	3000	Alexis Drive	Palo Alto	CA	94304	Automotive	3000 Alexis Drive, Palo Alto, CA 94304
Palo Alto Landfill	2380	Embarcadero Road	Palo Alto	CA	94303	Automotive	2380 Embarcadero Road, Palo Alto, CA 94303
Palo Alto Shell	2200	El Camino Real	Palo Alto	CA	94306	Automotive	2200 El Camino Real, Palo Alto, CA 94306
Palo Alto Speedometer Service	718	Emerson Street	Palo Alto	CA	94301	Automotive	718 Emerson Street, Palo Alto, CA 94301
Palo Alto Unified School District	25	Churchill Avenue	Palo Alto	CA	94306	Automotive	25 Churchill Avenue, Palo Alto, CA 94306
Palo Alto Unocal Service	835	San Antonio Road	Palo Alto	CA	94303	Automotive	835 San Antonio Road, Palo Alto, CA 94303
Park Automotive Service	3040	Park Boulevard	Palo Alto	CA	94306	Automotive	3040 Park Boulevard, Palo Alto, CA 94306
Park Avenue Motors	3241/3290	Park Boulevard	Palo Alto	CA	94306	Automotive	3241/3290 Park Boulevard, Palo Alto, CA 94306
Parking Company of America	160	Demeter Street	East Palo Alto	CA	94303	Automotive	160 Demeter Street, East Palo Alto, CA 94303
PAUSD Maintenance	50	Embarcadero	Palo Alto	CA	94306	Automotive	50 Embarcadero, Palo Alto, CA 94306
Peninsula Sanitary Service	339	Bonair Siding Road	Stanford	CA	94305	Automotive	339 Bonair Siding Road, Stanford, CA 94305
Precision Automotive	439	Lambert Avenue	Palo Alto	CA	94306	Automotive	439 Lambert Avenue, Palo Alto, CA 94306
Rainer's Service Station	1905	East Bayshore Road	East Palo Alto	CA	94303	Automotive	1905 East Bayshore Road, East Palo Alto, CA 94303
Rancho Auto Service/76	601	Los Altos Rancho	Los Altos	CA	94024	Automotive	601 Los Altos Rancho, Los Altos, CA 94024
Reitmeir's Werkstatt	309	First Street	Los Altos	CA	94022	Automotive	309 First Street, Los Altos, CA 94022
Rossi Aircraft, Inc.	1903	Embarcadero Road	Palo Alto	CA	94303	Automotive	1903 Embarcadero Road, Palo Alto, CA 94303
Say Ray Auto Service	3251	Ash Street	Palo Alto	CA	94306	Automotive	3251 Ash Street, Palo Alto, CA 94306
Shermans Auto Service	710	San Antonio Road	Palo Alto	CA	94303	Automotive	710 San Antonio Road, Palo Alto, CA 94303
Skip's Tire & Auto	317	First Street	Los Altos	CA	94022	Automotive	317 First Street, Los Altos, CA 94022
Smog Pro's Arco	840	San Antonio Road	Palo Alto	CA	94303	Automotive	840 San Antonio Road, Palo Alto, CA 94303
Stanford Auto Care	290	Lambert Avenue	Palo Alto	CA	94306	Automotive	290 Lambert Avenue, Palo Alto, CA 94306
Stanford Golf Course	327	Bonair Siding Road	Stanford	CA	94305	Automotive	327 Bonair Siding Road, Stanford, CA 94305
Stanford Grounds Equipment Garage	327	Bonair Siding	Stanford	CA	94305	Automotive	327 Bonair Siding, Stanford, CA 94305
Stanford Maintenance Shop	315	Bonair Siding	Stanford	CA	94305	Automotive	315 Bonair Siding, Stanford, CA 94305
Stanford Utilites Maintenance	327	Bonair Siding Road	Stanford	CA	94305	Automotive	327 Bonair Siding Road, Stanford, CA 94305
Streetwerke	292	Lambert Avenue	Palo Alto	CA	94306	Automotive	292 Lambert Avenue, Palo Alto, CA 94306
Touchatt Trucking	2535	Pulgas Avenue	East Palo Alto	CA	94303	Automotive	2535 Pulgas Avenue, East Palo Alto, CA 94303
Toyota of Palo Alto	690	San Antonio Road	Palo Alto	CA	94306	Automotive	690 San Antonio Road, Palo Alto, CA 94306
Usa Gasoline/Shell	929	Fremont Avenue	Los Altos	CA	94024	Automotive	929 Fremont Avenue, Los Altos, CA 94024
Valero USA	1963	El Camino Real	Palo Alto	CA	94306	Automotive	1963 El Camino Real, Palo Alto, CA 94306
Valero USA	705	San Antonio Road	Palo Alto	CA	94303	Automotive	705 San Antonio Road, Palo Alto, CA 94303
Viking Motor Body	2904	Ash Street	Palo Alto	CA	94306	Automotive	2904 Ash Street, Palo Alto, CA 94306
Village Chevron	401	Main Street	Los Altos	CA	94022	Automotive	401 Main Street, Los Altos, CA 94022
West Valley Aircraft Services	1901	Embarcadero Road	Palo Alto	CA	94303	Automotive	1901 Embarcadero Road, Palo Alto, CA 94303
West Valley Flying Club	1901	Embarcadero Road, #100	Palo Alto	CA	94303	Automotive	1901 Embarcadero Road, #100, Palo Alto, CA 94303
Yeaman Auto Body	2025	East Bayshore Road	Palo Alto	CA	94303	Automotive	2025 East Bayshore Road, Palo Alto, CA 94303
Palo Alto Hardware	875	Alma	Palo Alto	CA	94301	Building Material Centers	875 Alma, PALO ALTO, CA 94301
Peninsula Hardware	2676	Middlefield	Palo Alto	CA	94306	Building Material Centers	2676 Middlefield, PALO ALTO, CA 94306
Charleston Cleaners	3900	Middlefield	Palo Alto	CA	94306	Dry Cleaning	3900 Middlefield, PALO ALTO, CA 94306
Emerson Cleaners	926	Emerson	Palo Alto	CA	94306	Dry Cleaning	926 Emerson, PALO ALTO, CA 94306
Gate Cleaners	439	Hamilton	Palo Alto	CA	94306	Dry Cleaning	439 Hamilton, PALO ALTO, CA 94306
Holiday Cleaners	595	Bryant	Palo Alto	CA	94306	Dry Cleaning	595 Bryant, PALO ALTO, CA 94306
Mike's One Hour Cleaner	3886	El Camino Real	Palo Alto	CA	94306	Dry Cleaning	3886 El Camino Real, PALO ALTO, CA 94306
New Holiday Cleaners	2685	Middlefield	Palo Alto	CA	94306	Dry Cleaning	2685 Middlefield, PALO ALTO, CA 94306
Norge Village Cleaners	240	California	Palo Alto	CA	94301	Dry Cleaning	240 California, PALO ALTO, CA 94301
PURE CLEANERS	2103	El Camino Real	Palo Alto	CA	94306	Dry Cleaning	2103 El Camino Real, Palo Alto, CA 94306
ROY'S CLEANERS	2029	El Camino Real	Palo Alto	CA	94306	Dry Cleaning	2029 El Camino Real, Palo Alto, CA 94306
Town & Country Cleaners	855	El Camino Real	Palo Alto	CA	94301	Dry Cleaning	855 El Camino Real, PALO ALTO, CA 94301
BAJA FRESH MEXICAN GRILL	3990	El Camino Real	Palo Alto	CA	94306	Food Service	3990 El Camino Real, Palo Alto, CA 94306
BISTRO MAXINE	548	Ramona Street	Palo Alto	CA	94301	Food Service	548 Ramona Street, Palo Alto, CA 94301
BUCA DI BEPPO	643	Emerson Street	Palo Alto	CA	94301	Food Service	643 Emerson Street, Palo Alto, CA 94301
CAFE 220	220	UNIVERSITY AV	Palo Alto	CA	94301	Food Service	220 UNIVERSITY AV, (B), PALO ALTO, CA 94301
CAFE BRIOCHE	445	California Avenue	Palo Alto	CA	94301	Food Service	445 California Avenue, Palo Alto, CA 94301
Café Epi	405	University Avenue	Palo Alto	CA	94301	Food Service	405 University Avenue. Palo Alto, CA 94301
CAFFE DEL DOGE	419	University Avenue	Palo Alto	CA	94301	Food Service	419 University Avenue. Palo Alto, CA 94301
CALIFORNIA PIZZA KITCHEN	531	COWPER ST	Palo Alto	CA	94303	Food Service	531 COWPER ST, PALO ALTO, CA 94303
CELIA'S MEXICAN RESTAURANT	3740	El Camino Real	Palo Alto	CA	94303	Food Service	3740 El Camino Real, Palo Alto, CA 94303
CHEESECAKE FACTORY	375	University Avenue	Palo Alto	CA	94301	Food Service	375 University Avenue. Palo Alto, CA 94301
CHIPOTLE	2675	El Camino Real	Palo Alto	CA	94306	Food Service	2675 El Camino Real, Palo Alto, CA 94306
COCONUT CARRIBEAN	642	Ramona Street	Palo Alto	CA	94301	Food Service	642 Ramona Street, Palo Alto, CA 94301
COUNTER, THE	369	California Avenue	Palo Alto	CA	94301	Food Service	369 California Avenue, Palo Alto, CA 94301
COUPA CAFE	538	Ramona Street	Palo Alto	CA	94301	Food Service	538 Ramona Street, Palo Alto, CA 94301
CREPEVINE	367	University Avenue	Palo Alto	CA	94301	Food Service	367 University Avenue. Palo Alto, CA 94301
DA SICHUAN BISTRO	3781	El Camino Real	Palo Alto	CA	94303	Food Service	3781 El Camino Real, Palo Alto, CA 94303
EVVIA	420	EMERSON ST	Palo Alto	CA	94301	Food Service	420 EMERSON ST, PALO ALTO, CA 94301
FUKI SUSHI	4119	EL CAMINO REAL	Palo Alto	CA	94306	Food Service	4119 EL CAMINO REAL, PALO ALTO, CA 94306
GARDEN FRESH	460	Ramona Street	Palo Alto	CA	94301	Food Service	460 Ramona Street, Palo Alto, CA 94301
Gordon Biersch Brewery Restaurant	640	EMERSON ST	Palo Alto	CA	94303	Food Service	640 EMERSON ST, PALO ALTO, CA 94303
GREEN ELEPHANT GOURMET	3950	MIDDLEFIELD RD	Palo Alto	CA	94303	Food Service	3950 Middlefield Road, Palo Alto, CA 94303
HOUSE OF BAGELS	526	UNIVERSITY AV	Palo Alto	CA	94301	Food Service	526 UNIVERSITY AV, PALO ALTO, CA 94301
JACK IN THE BOX	3885	El Camino Real	Palo Alto	CA	94306	Food Service	3885 El Camino Real, Palo Alto, CA 94306
Japanese Tapas and Ramen	799	San Antonio Road	Palo Alto	CA	94303	Food Service	799 San Antonio Road, Palo Alto, CA 94303
JOYA	339	University Avenue	Palo Alto	CA	94301	Food Service	339 University Avenue. Palo Alto, CA 94301
KRUNG SIAM THAI CUISINE	423	University Avenue	Palo Alto	CA	94301	Food Service	423 University Avenue. Palo Alto, CA 94301
LA STRADA	355	University Avenue	Palo Alto	CA	94301	Food Service	355 University Avenue. Palo Alto, CA 94301
Mandarin Gourmet	420	RAMONA ST	Palo Alto	CA	94301	Food Service	420 RAMONA ST, PALO ALTO, CA 94301

FacilityName	Street_No	Street_Name	City	State	ZipCode	Buiness Category	FacilityAddress
MCDONALD'S RESTAURANT #3094	3128	El Camino Real	Palo Alto	CA	94306	Food Service	3128 El Camino Real, Palo Alto, CA 94306
MIKE'S CAFE ETC	2680	MIDDLEFIELD RD	Palo Alto	CA	94306	Food Service	2680 MIDDLEFIELD RD, PALO ALTO, CA 94306
MING'S VILLA	1700	EMBARCADERO RD	Palo Alto	CA	94303	Food Service	1700 EMBARCADERO RD, PALO ALTO, CA 94303
MIYAKE	140	UNIVERSITY AV	Palo Alto	CA	94301	Food Service	140 UNIVERSITY AV, PALO ALTO, CA 94301
OLD PRO	545	RAMONA ST	Palo Alto	CA	94301	Food Service	545 RAMONA ST, PALO ALTO, CA 94301
Panda Express	2310	EL CAMINO REAL	Palo Alto	CA	94306	Food Service	2310 EL CAMINO REAL, PALO ALTO, CA 94306
RED MANGO	429	University Avenue	Palo Alto	CA	94301	Food Service	429 University Avenue. Palo Alto, CA 94301
REPASADO	236	Hamilton Avenue	Palo Alto	CA	94301	Food Service	236 Hamilton Avenue, Palo Alto, CA 94301
ROUND TABLE PIZZA #15	263	University Avenue	Palo Alto	CA	94301	Food Service	263 University Avenue, Palo Alto, CA 94301
SU HONG	4256	El Camino Real	Palo Alto	CA	94306	Food Service	4256 El Camino Real, Palo Alto, CA 94306
TACO BELL #0976	3850	El Camino Real	Palo Alto	CA	94306	Food Service	3850 El Camino Real, Palo Alto, CA 94306
TACO BELL #2297	910	Charleston	Palo Alto	CA	94306	Food Service	910 Charleston, Palo Alto, CA 94306
TAMARINE RESTAURANT	546	UNIVERSITY AV	Palo Alto	CA	94301	Food Service	546 UNIVERSITY AV, PALO ALTO, CA 94301
TAQUERIA AZTECA	321	California Avenue	Palo Alto	CA	94306	Food Service	321 California Avenue, Palo Alto, CA 94306
TAQUERIA EL GRULLENSE	3636	El Camino Real	Palo Alto	CA	94306	Food Service	3636 El Camino Real, Palo Alto, CA 94306
THE AVENUE	403	University Avenue	Palo Alto	CA	94301	Food Service	403 University Avenue. Palo Alto, CA 94301
ZAO NOODLE BAR	261	University Avenue	Palo Alto	CA	94301	Food Service	261 University Avenue, Palo Alto, CA 94301
Palo Alto Landfill	2380	Embarcadero Road	Palo Alto	CA	94303	Landfills	2380 Embarcadero Road, Palo Alto, CA 94303
CAL SPRAY INC.	1905	Bay Road	East Palo Alto	CA	94303	Metal Finisher	1905 Bay Road, East Palo Alto, CA 94303
HAMMON PLATING	890	COMMERCIAL STREET	Palo Alto	CA	94303	Metal Finisher	890 COMMERCIAL STREET, Palo Alto, CA 94303
Image Technology Inc.	821	San Antonio	Palo Alto	CA	94303	Metal Finisher	821 San Antonio, Palo Alto, CA 94303
SPACE SYSTEMS LORAL	1034	East Meadow Circle	Palo Alto	CA	94303	Metal Finisher	1034 East Meadow Circle, Palo Alto, CA 94303
SPACE SYSTEMS LORAL	3825	Fabian Way	Palo Alto	CA	94303	Metal Finisher	3825 Fabian Way, Palo Alto, CA 94303
Specific Plating Company	936	Industrial Way	Palo Alto	CA	94303	Metal Finisher	936 Industrial Way, Palo Alto, CA 94303
VARIAN MEDICAL SYSTEMS, Inc. Building 4	3120	Hansen Way	Palo Alto	CA	94304	Metal Finisher	3120 Hansen Way, Palo Alto, CA 94304
Barron Park Nursery and Florist	3876	El Camino Real	Palo Alto	CA	94306	Nursuries/Greenhouses	3876 El Camino Real, PALO ALTO, CA 94306
Ciardella's Garden Supply Inc.	1001	San Antonio	Palo Alto	CA	94303	Nursuries/Greenhouses	1001 San Antonio, PALO ALTO, CA 94303
Common Grounds Organic Garden Supply	559	COLLEGE	Palo Alto	CA	94306	Nursuries/Greenhouses	559 COLLEGE, PALO ALTO, CA 94306
Garden Supply	4730	El Camino Real	Los Altos	CA	94022	Nursuries/Greenhouses	4730 El Camino Real, Los Altos, CA 94022
Los Altos Nursery	245	HAWTHORNE AVENUE	Los Altos	CA	94022	Nursuries/Greenhouses	245 HAWTHORNE AVENUE, LOS ALTOS, CA 94022
Summer Winds Nursery	725	SAN ANTONIO	Palo Alto	CA	94303	Nursuries/Greenhouses	725 SAN ANTONIO, PALO ALTO, CA 94303
NASA AMES RESEARCH CENTER	ms 218-1	Moffett Field	Mountain View	CA	94305	Other - Aerospace Research	ms 218-1 Moffett Field, Mountain View, CA 94305
ACME Biosciences	3941	East Bayshore Road	Palo Alto	CA	94303	Other - Biomedical Research	3941 East Bayshore Road, Palo Alto, CA 94303
Stanford School of Medicine	1050	Arastradero Road	Palo Alto	CA	94304	Other - Biomedical Research	1050 Arastradero Road, Palo Alto, CA 94304
Stanford School of Medicine	1501	California Avenue	Palo Alto	CA	94304	Other - Biomedical Research	1501 California Avenue, Palo Alto, CA 94304
Stanford School of Medicine	3373	Hillview Avenue	Palo Alto	CA	94305	Other - Biomedical Research	3373 Hillview Avenue, Palo Alto, CA 94305
StemCells Inc	3155	Porter Drive	Palo Alto	CA	94304	Other - Biotech Research	3155 Porter Drive, Palo Alto, CA 94304
Target Discovery	4030	Fabian Way	Palo Alto	CA	94303	Other - Biotech Research	4030 Fabian Way, Palo Alto, CA 94303
Palo Alto Research Center, Building 34	3406	Hillview Avenue	Palo Alto	CA	94304	Other - Computer Design and Semiconductor Design	3406 Hillview Avenue, Palo Alto, CA 94304
Palo Alto Research Center, Building 35	3333	Coyote Hill Road	Palo Alto	CA	94304	Other - Computer Design and Semiconductor Research	3333 Coyote Hill Road, Palo Alto, CA 94304
CRYSTAL TECHNOLOGY INC.	1035	East Meadow Circle	Palo Alto	CA	94303	Other - Crystal Wafer Manufacturer 469.26	1035 East Meadow Circle, Palo Alto, CA 94303
CRYSTAL TECHNOLOGY INC.	1040	East Meadow Circle	Palo Alto	CA	94303	Other - Crystal Wafer Manufacturer 469.26	1040 East Meadow Circle, Palo Alto, CA 94303
CRYSTAL TECHNOLOGY INC.	1051	East Meadow Circle	Palo Alto	CA	94303	Other - Crystal Wafer Manufacturer 469.26	1051 East Meadow Circle, Palo Alto, CA 94303
Genencor International Inc.	925	Page Mill Road	Palo Alto	CA	94304	Other - Industrial Enzyme R&D	925 Page Mill Road, Palo Alto, CA 94304
Foothill College	12345	El Monte Road	Los Altos Hills	CA	94022	Other - Junior College	12345 El Monte Road, Los Altos Hills, CA 94022
HILLVIEW CLINICAL LAB	3375	Hillview Avenue	Palo Alto	CA	94305	Other - Medical Facility with Clinical Labs	3375 Hillview Avenue, Palo Alto, CA 94305
Lucile Packard Childrens Hospital	725	Welch Road	Palo Alto	CA	94301	Other - Medical Facility with Clinical Labs	725 Welch Road, Palo Alto, CA 94301
PALO ALTO MEDICAL FOUNDATION	795	El Camino Real	Palo Alto	CA	94301	Other - Medical Facility with Clinical Labs	795 El Camino Real, Palo Alto, CA 94301
PAMF GUCKENHEIMER	795	EL CAMINO REAL	Palo Alto	CA	94304	Other - Medical Facility with Clinical Labs	795 EL CAMINO REAL , Palo Alto, CA 94304
STANFORD HOSPITAL & CLINICS	300	Pasteur Drive	Stanford	CA	94305	Other - Medical Facility with Clinical Labs	300 Pasteur Drive, Stanford, CA 94305
VA Palo Alto Health Care Affairs	3801	Miranda Avenue	Palo Alto	CA	94304	Other - Medical Facility with Clinical Labs	3801 Miranda Avenue, Palo Alto, CA 94304
Stanford School of Medicine	701B	Welch Road	Palo Alto	CA	94301	Other - Medical Research	701B Welch Road, Palo Alto, CA 94301
Stanford School of Medicine	855	California Avenue	Palo Alto	CA	94304	Other - Medical Research	855 California Avenue, Palo Alto, CA 94304
COMMUNICATIONS AND POWER INDUSTRIES	811	Hansen Way	Palo Alto	CA	94304	Other - Metal Finisher 433.15	811 Hansen Way, Palo Alto, CA 94304
Nanosys Incorporated	2625	Hanover Street	Palo Alto	CA	94304	Other - Nano Technology Research	2625 Hanover Street, Palo Alto, CA 94304
Dow Jones & Company Inc.	1701	Page Mill Road	Palo Alto	CA	94303	Other - Newspaper Printing	1701 Page Mill Road, Palo Alto, CA 94303
Diffraction Optics	4035	Transport Street	Palo Alto	CA	94030	Other - Optics Manufacturer	4035 Transport Street, Palo Alto, CA 94030
Affymax Research Institute	4001	Miranda Avenue	Palo Alto	CA	94303	Other - Pharmaceutical Research and Development	4000 Miranda Avenue, Palo Alto, CA 94304
Anacor Pharmaceuticals	1020	East Meadow Circle	Palo Alto	CA	94303	Other - Pharmaceutical Research and Development	1020 East Meadow Circle, Palo Alto, CA 94303
Anacor Pharmaceuticals	1060	East Meadow Circle	Palo Alto	CA	94303	Other - Pharmaceutical Research and Development	1060 East Meadow Circle, Palo Alto, CA 94303
Arresto Biosciences	3183	Porter Drive	Palo Alto	CA	94304	Other - Pharmaceutical Research and Development	3183 Porter Drive, Palo Alto, CA 94304
Gilead Palo Alto	1651	Page Mill Road	Palo Alto	CA	94303	Other - Pharmaceutical Research and Development	1651 Page Mill Road, Palo Alto, CA 94303
Schering Plough Biopharma (855 DNAX Research)	855	California Avenue	Palo Alto	CA	94304	Other - Pharmaceutical Research and Development	855 California Avenue, Palo Alto, CA 94304
Schering Plough Biopharma (901 DNAX Research)	901	California Avenue	Palo Alto	CA	94303	Other - Pharmaceutical Research and Development	900 California Avenue, Palo Alto, CA 94304
Steifel Labs	3160	Porter Drive	Palo Alto	CA	94304	Other - Pharmaceutical Research and Development	3160 Porter Drive, Palo Alto, CA 94304
Hewlett Packard	1501	Page Mill Road	Palo Alto	CA	94303	Other - R&D for Semiconductors, electronics, computers	1501 Page Mill Road, Palo Alto, CA 94303
dpix LLC	3406	Hillview Avenue	Palo Alto	CA	94304	Other - Semiconductor Manufacturer 469	3406 Hillview Avenue, Palo Alto, CA 94304
TRANSLUCENT PHOTONICS	952	Commercial Street	Palo Alto	CA	94303	Other - Semiconductor research	952 Commercial Street, Palo Alto, CA 94303
Lockheed Martin Missiles and Space	3251	Hanover Street	Palo Alto	CA	94304	Other - SPACE SUPPORT RESEARCH AND TESTING	3251 Hanover Street, Palo Alto, CA 94304
STANFORD UNIVERSITY	327	Bonair Siding Road	Stanford	CA	94305	Other - University	327 Bonair Siding Road, Stanford, CA 94305
City of Palo Alto Recycling Center	2380	Embarcadero	Palo Alto	CA	94303	Recycling Centers	2380 Embarcadero, PALO ALTO, CA 94303

Appendix 4-3

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

Industrial Business Categories Fiscal Year

Business Categories	Num Inspection	Actual Discharge	Potential or Other
Animal Services	4	0	0
Automotive	130	0	0
Building Material Centers	2	0	0
Dry Cleaning	12	0	0
Electric/Electrical Components	1	0	0
Food Service	57	1	30
Landfills	1	0	0
Nurseries / Greenhouses	1	0	0
Nursuries/Greenhouses	5	0	0
469.26 crystal manufacturer	1	0	0
469.26 cyrstal manufacurer	1	0	0
469.26 E&EC El;ectronic Crystals	1	0	0
Aerospace Research	2	0	0
Biomedical Research	3	0	0
BIOTECH RESEARCH	1	0	0
Biotechnology R&D	1	0	0
BIOTECHNOLOGY RESEARCH	1	0	0
Computer Design and Semiconductor Design	2	0	0
Computer Design and Semiconductor Research	2	0	0
Hospital	2	0	1
Industrial Enzyme R&D	2	0	2
Junior College	1	0	0
medical clinic and laboratory	1	0	0
Medical Research	3	0	0
Metal Finisher	10	0	0
metal finisher 433.15	1	0	0
Metal Finisher Zero Discharge	1	0	0
nano technology R&D	1	0	0
Newspaper Printing	1	0	0

Business Categories	Num Inspection	Actual Discharge	Potential or Other
NON-EPA R&D	1	0	0
optical lense Mfg	1	0	0
Other - Biomedical Research	4	0	0
Other - Biotech Research	1	0	0
Other - College	1	0	1
Other - Crystal Wafer Manufacturer 469.26	3	0	0
Other - Medical Facility with Clinical Labs	8	0	0
Other - Metal Finisher 433.15	3	0	1
Other - Nano Technology Research	1	0	0
Other - Optics Manufacturer	1	0	0
Other - Pharmaceutical Research and Development	5	0	0
Other - Semiconductor Manufacturer 469	1	0	0
Other - University	2	0	1
Pharmaceutical Research	5	0	0
pharmacuetical Research	2	0	0
R&D for Semiconductors, electronics, computers	1	0	0
R&D for semiconductors, electronics, computers, and peripherals	1	0	0
Semi-conductor R&D	1	0	0
Semiconductor research	1	0	0
SPACE SUPPORT RESEARCH AND TESTING	1	0	0
University	1	0	0
Recycling Centers	1	0	0
TOTALS:	**297**	**1**	**36**

Appendix 5-1

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

CITY OF PALO ALTO - EMERGENCY PHONE LIST
REVISED JULY 2011

CALL COMMUNICATIONS AT 650-329-2413
FOR EMERGENCY CREWS OR OTHER STAND-BY EMPLOYEES

Public Works Department – Per Karen M. 7/19/11				
Division	*Contact*	*Title*	*Cell*	*Home*
Administration	Mike Sartor	**Interim Director**	650.704.3854	650.854.6945
Engineering Services	Phil Bobel	*Acting* Assistant Director	650.279.0464	650.327.5661
	Joe Teresi	Senior Engineer	650.455.4887	650.583.5476
Environmental Services	Phil Bobel	*Acting* Assistant Director	650.279.0464	650.327.5661
Environmental Compliance	Ken Torke	*Acting* Watershed Protection Manager	408.306.4645	
Landfill & Hazmat Waste	Ron Arp	Manager Environmental Control Programs	650.444.4402	925.294.9732
Solid Waste	Brad Eggleston	Solid Waste Manager	408.348.8877	408.971.2217
Waste Hauler	Paula Borges	Management Analyst	650.444.7809	408.396.0591
Water Quality Control Plant	James Allen	Plant Manager	650.444.6356	408.738.3634
Public Services	Paul Dornell	Assistant Director	408.891.7064	408.268.8258
Equipment Management	Keith LaHaie	Fleet Manager	650.740.2469	510.489.3147
Facilities Management	Dennis Huebner	Manager Maintenance Operations	650.444.6360	408.710.6177
	Mike Wong	Manager Maintenance Operations	650.380.9612	408.205.9664
	Vacant	Project Manager		
Sweeping/Traffic Control	Steve Banks	Manager Maintenance Operations	650.444.8985	650.583.1560
Sidewalk/Storm Drain/Street	John Hospitalier	Manager Maintenance Operations	650.444.6386	510.481.7313
Trees	Eugene Segna	Interim Managing Arborist	650.444.6385	408.749.9655

Reporting Spills, Dumping, and Back-Ups

The Regional Water Quality Control Plant (RWQCP) treats wastewater for the East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View, Palo Alto, and Stanford. However, **different agencies handle stormwater, collection system, and spill response issues** in these cities.

Reporting Spills, Dumping, And Back-Ups In Palo Alto

The following information is for Palo Alto residents only

Call to Report Hazardous Spills
If you notice any unusual substance in or around a storm drain, or if you see someone dumping anything into a storm drain, don't wait! Call the City of Palo Alto 24-hour communications line at 650-329-2413 immediately.

Call the City at 650-329-2413 if you see any spill of a potentially hazardous material in or around a street, or gutter, in or around local creeks or the Bay, or elsewhere in the outdoor environment. If you find out that hazardous materials have been dumped in the sewer system, call the Regional Water Quality Control Plant at 650-329-2598

Call if a Sewer Line is Blocked
Call the Utilities Emergency Line: 650-329-2579
Note: If your drains back up because roots are clogging the sewer line, use mechanical root removal, not crystal-form root killers you flush down the toilet. Mechanical root removal is the most environmentally sound method of controlling roots in sewer pipes. Use of crystal-form, copper-based root killers have been banned in the Bay Area. They are also not as effective as mechanical removal, and they contribute significant amounts of copper (which is toxic to marine life) to the Bay's sensitive ecosystem.

Call for a Clogged Storm Drain
In an emergency (flooding imminent)-call the Utilities Emergency Line at 650-329-2579

If it's not an emergency, call Storm Drain Maintenance at 650-496-6974

Reporting Spills, Dumping, and Back-Ups Cities Other Than Palo Alto

East Palo Alto Sanitary District
Back-Ups 650-325-9021
Storm Drains 650-853-3189
Spills and Dumping 650-325-9021
RWQCP(Sewer) 650-329-2598

Los Altos
Back-Ups 650-948-0482 / 650-948-8223
Storm Drains 650-948-0482 / 650-948-8223
Spills and Dumping 911
RWQCP(Sewer) 650-329-2598

Los Altos Hills
Back-Ups 650-366-1059 / 408-299-2311
Storm Drains 650-941-7222 / 408-299-2311
Spills and Dumping 911
RWQCP(Sewer) 650-329-2598

Mountain View
Back-Ups 650-903-6329
Storm Drains 650-903-6329 / 650-948-8223
Spills and Dumping 650-903-6378 / 650-903-6395
RWQCP(Sewer) 650-329-2598

Stanford
Back-Ups 650-723-2281 (Work Control)
Storm Drains 650-723-2281 (Work Control)
Spills and Dumping 650-723-2281 (Work Control)
RWQCP(Sewer) 650-329-2598

INTERDEPARTMENTAL SPILL RESPONSE PROCEDURES
(All substances except sewage)
Amended 3/8/10

A. Purpose: The purpose of these brief procedures is to define the relationships between Departments during a Spill Response, thereby clarifying the relationships among the Departments' individual Spill Response Procedures.

B. Notification:

1. Communications is to be notified of any spill immediately (Exception: A spill at the MSC or RWQCP which will be cleaned up by MSC or RWQCP staff).

2. Communications notifies Fire who becomes the Incident Commander.

3. Fire advises other Departments & Divisions as needed. (e.g., Public Works Operations, Water Quality, Open Space)

C. Lead (Incident Commander):

1. Fire has the lead (Incident Commander) until and unless all of the following are found to be true (following consultation):

    a) The spilled substance is identified (or it is determined that it cannot be identified)
    b) There is no Imminent or Substantial Endangerment
    c) The substance is not a Hazardous Substance
    d) Fire advises other affected Departments that it no longer has the lead (Incident Commander role terminated for the incident)

D. Deployment of Public Works Operations Clean-up Contractor

1. Fire will request that Public Works Operations (PW/OPS) deploy the Clean-up Contractor in accordance with PW/OPS Procedures for Emergency Response to Spills and Releases, section 3.2, Field Response (Attachment A), and following consultation.

2. Unless Fire has terminated its Incident Commander role, (paragraph C.1.d. above), Fire will direct the Clean-up Contractor, assisted by Public Works.

3. On private property, Fire will order the Responsible Party (RP) to clean up the spill. If RP is unable to clean up the spill in a safe and timely manner, Fire shall use the City Contractor, and the RP will be billed.

ECD: SPILL RESPONSE

WHAT IS HAPPENING?	ONGOING EVENT		WHAT NEEDS TO BE DONE
	IMPACTED AREA	WHAT TO DO	
Is it a sanitary sewer overflow (SSO)?	Is material in the storm drain?	Call Utilities Dispatch Call ECD. Call Communications. Stay at the scene.	Utilities must pump out the sewer, flush the storm drain, and pump out the rinse water. Investigate the cause. Reporting.
	Is material in the street or sidewalk but has not reached the storm drain?	Call Utilities Dispatch Call ECD. Call Communications. Stay at the scene.	Utilities must clean the street and disinfect the area. Investigate the cause.
Is it a construction-related discharge?	Is the material in the storm drain & the responsible party is known?	Call ECD. Try to stop the discharge. Call PWD-OPS. Issue a citation.	Responsible party must clean the storm system. If not, PWK-OPS will do the cleanup and bill the responsible party later.
	Is the material in the storm drain or creek & **the responsible party is unknown?**	Call ECD. Call PWD storm water group.	PWD-OPS must pump out the storm drain. Investigate the cause.
	Is it a threatened discharge?	Ask the party to clean up. Issue a citation.	Conduct follow-up inspection.
Is it a hazardous substance or an unknown substance?	Is it in the storm drain, creek, street, or gutter?	Call Communications and ask for FD help Call PWD-OPS. Hazardous Waste group. Call ECD. Issue a citation if the party is known.	Remain at the site until the clean up is complete.
Any other situation	Storm drain, street, creek, or gutter	Call ECD.	Wait patiently.

CONTACTS

Communications	**329 • 2413**		Environmental Compliance (ECD)	**329 • 2598**
Public Works Operations (PWD-OPS)	**496 • 6974**		Jon Hospitalier (Storm)	**496 • 6985**
Utility Operations	**496 • 6934**		Chuck Muir (Hazmat)	**496 • 6980**
Utilities Dispatch	**496 • 2579**		Frank Alvarado (Sanitary)	**496 • 6972**

Appendix 5-2

C.5.f.iii.(4) Summary of ICID Incidents by Incident Type

Summary of ICID Inspections by Incident Type

7/1/2010 — 6/30/2011

Palo Alto	ICID Incident Type	Total
	Complaint Not Found	58
	Dumping (Non-Hazardous)	1
	Food Facility Oil and Grease Discharge	1
	Illicit Connection	1
	Miscellaneous Incidents	1
	Other	25
	Paint Discharge	1
	Pools/Spas/Fountains Discharge	1
	Sanitary Spill or Leak	2
	Tracking Soil	3
	Unhardened Cement Discharge	2
	Used Oil Dumping	1
	Vehicle Washing	1
	Water Line Breaks	3
	Total:	**101**

Appendix 9-1

C.9.a City of Palo Alto Integrated Pest Management Policy

INTEGRATED PEST MANAGEMENT POLICY

POLICY STATEMENT

The City of Palo Alto will carry out its pest management operations using reduced-risk IPM techniques to reduce or eliminate chemicals to the maximum extent. Chemicals will be used only as a last resort for pest management problems. Each division that applies pesticides will maintain an active IPM plan to ensure the long-term prevention or suppression of pest problems with minimum negative impact on human health, non-target organisms, and the environment.

The City will actively pilot non-toxic alternatives for structural and landscape pest control, seeking to use the most recent technology, best management practices and least toxic methods for all pest control measures.

The City will use appropriate venues to educate staff and the public about its IPM commitment in an effort to role model less toxic approaches to structural and landscaping pest control.

PROCEDURE

The City will refer to its Integrated Pest Management Plan for implementation of policy goals.

NOTE: Questions and/or clarification of this policy should be directed to the Public Works Department.

Appendix 9-2

C.9.b 2010 City of Palo Alto Integrated Pest Management Report

City of Palo Alto
2010 IPM Program Report

April 25, 2010

Background

In 2001, the City of Palo Alto (City) adopted a reduced-risk pest management policy and drafted an Integrated Pest Management (IPM) plan to control and document the use of pesticides by City staff and contractors.

The goals of the IPM program are to:

- minimize water quality impacts from pesticide-related ecotoxicity;
- minimize total pesticide use; and
- identification of the least toxic products for use when pesticides are needed.

These goals are to be achieved through implementation and continual improvement of environmentally friendly pest control strategies. Program success will be demonstrated through annual quantification of the City's pesticide use.

Integrated pest management (IPM), also known as reduced-risk pest management, encourages long-term pest prevention and suppression through a combination of techniques including: biological controls, habitat manipulation, pest resistant plant varieties, improved landscape and building hygiene, structural maintenance and pest barriers. The IPM approach allows for the use of synthetic, chemical pesticides only as a last resort and only with the least toxic product available. The City has employed this approach for many years. However, additional regulatory storm water protection requirements have resulted in a more formal, structured IPM program. It should be noted that non-chemical controls, were in place before quantification of pesticide use began in 2001. Therefore, reductions in pesticide use that predate 2001 are not captured in the data.

A tiered system[1] based on a City of San Francisco study is used to evaluate the toxicity of chemicals used. The ranking system considers the following:

- acute human toxicity and chronic health risks;
- the level of training required to use the product;
- inclusion of a chemical on the Clean Water Act 303d list for impairment of a local water body;
- environmental toxicity; and
- a chemical's persistence and mobility in soil.

Tier 1 chemicals are of highest concern, Tier 2 are of moderate concern, and Tier 3 are of lowest concern**.** To be identified as a Tier 1 chemical, a product needs to be identified as high risk with regard to any one of the five criteria above.

A primary focus of the City's IPM program is to identify and reduce the use of the Tier 1 pesticides that exhibit ecotoxicity. Ecotoxicity, for this report, is defined as toxicity to birds, fish, bees, and aquatic indicator species or pesticides exhibiting the potential for secondary or non-target species toxicity. An example of the latter would be poisoning from consumption of rodent baits or from

[1] See Appendix I: Evaluation and Rating of Pesticide Toxicity Risk

consumption of rodents exposed to the baits. Product classifications are based on MSDSs and other resources.

This 2010 update summarizes the year's successes and challenges, reports on the City's 2010 pesticide use data, discusses program accomplishments and progress on the 2009 report recommendations, and makes recommendations for 2011.

Summary of 2010 Program Achievements and Pesticide Use Changes

1. **The City's ecotoxic pesticide use decreased to historically low levels since the program's inception in 2001. The total active ingredient use increased slightly due to a one-time application for termite control**. Ecotoxic pesticides use fell by 8% from 2009 (and 89% from its highest recorded level use in 2005) hitting another record low for use. which is significant because ecotoxicity reduction is the primary driver of the City's pesticide reduction efforts. 2010 total active ingredient use increased due to a one-time application of 215 pounds of active ingredient applied for termite control and a smaller increase in fungicide and herbicides use (it is not anticipated that this product will be used again in the near future). Two of the latter products were Tier 2.

2. **The golf course and Open Space implemented a successful perimeter trapping program for gophers which eliminated the use of fumitoxin.** Fumitoxin is an ecotoxic rodenticide and comprised a large amount of the past annual ecotoxic pesticide use. Trapping has proven to be better at controlling gopher populations than the previously used chemical controls.

3. **Twelve City parks and facilities designated pesticide-free.**
   Staff experimented by designating Sarah Wallis Park, in the California Avenue area, as pesticide free in 2010. No chemical controls for weeds, insects, fungi or rodents were used. The pilot was successful and the Parks Department added six additional sites over the course of the year at Ventura, Terman, El Palo Alto, Boulware, Hopkins, and Scott Parks. The Regional Water Quality Control Plant, Animal Services Center and three substations are also pesticide-free.

4. **Language for a new Landscape Maintenance Contract was updated.**
   The new language includes Bay-Friendly Landscaping techniques (supports IPM), the use of organic fertilizers and IPM requirements.

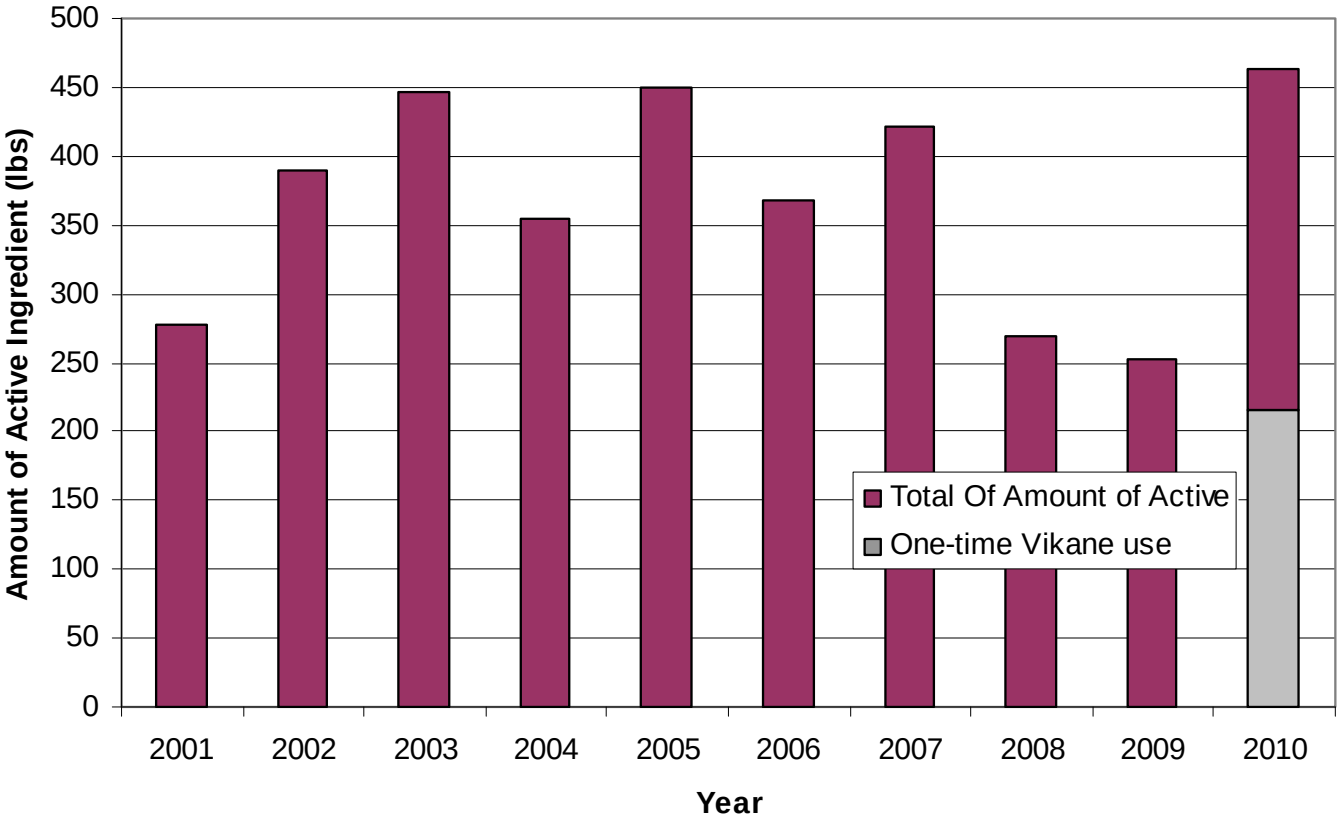
5. **A new golf course contract was awarded which includes strong requirements for IPM.**

2010 Pesticide Use Information

1. Total Active Ingredient Use Trends

Total active ingredient use increased because of a one-time application of 215 pounds for termite control and smaller increases in fungicide and herbicides use. Without this one-time application–which had not been used in prior history of the City's IPM efforts, nor is it anticipated again in the near future–this year's total active ingredient use would have been the lowest year for total active ingredients (248 lbs) and for Tier 1 (112 lbs).

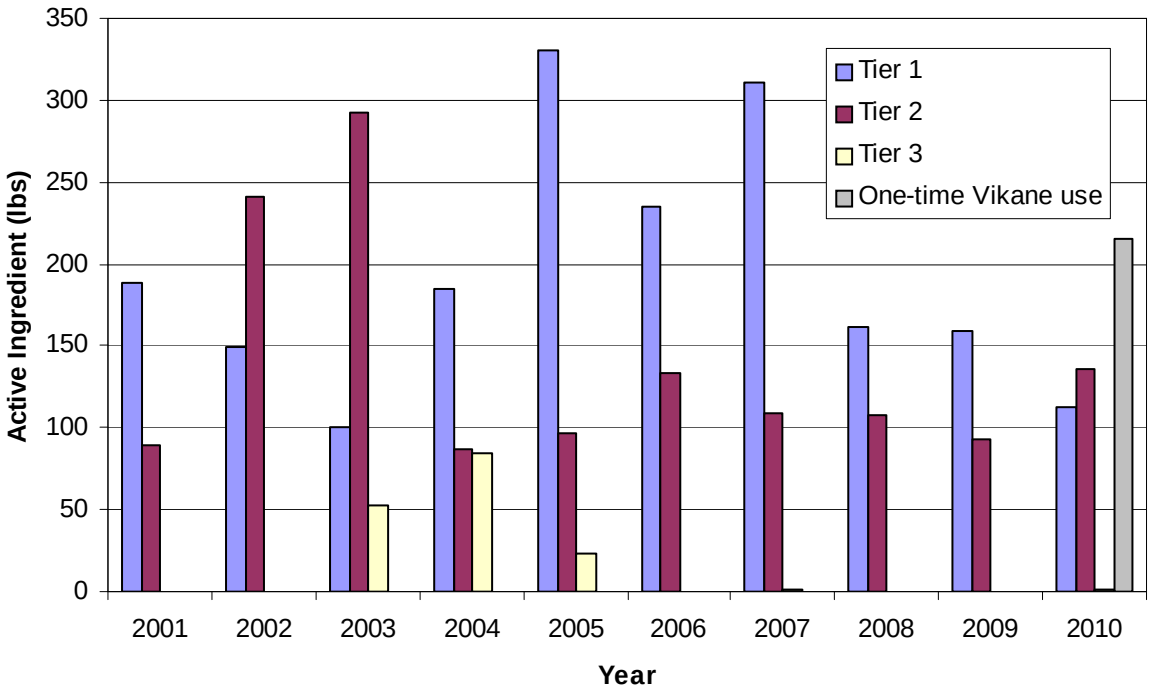
Figure 1: Total Pesticide Active Ingredient Use by Year (2001 – 2010)



2. **Tier 1-3 Pesticide Use**

The City's use of Tier 1, 2, and 3 pesticides for calendar years 2001 through 2010 is displayed in Figure 2. Figures 3 through 6 provide annual pesticide use, by tier and by target pest. The target pests are fungi, rodents, weeds, and insects, respectively.

Figure 2: Tier 1, 2 and 3 Pesticide Use by Year (2001-2010)



Tier 1 Pesticide Use

In 2010, total Tier 1 use increased by 167 pounds due to a one-time use of Vikane (sulfural fluoride, 215 lbs of active ingredient) which is used for termite control. The termiticide product has not been used by the City in over ten years, nor is its use anticipated again in the near future.

Tier 2 Pesticide Use

Tier 2 pesticide use increased by 42 pounds in 2010. Increases were due to of the use of Round-up (glyphosate herbicide) and Prostar 70 (flutolanil fungicide). Although glyphosate use increased slightly in 2010 efforts continue to be made to reduce its use. For example, the City's Tree Department decreased its Roundup use by 22% in 2010 in part by hand-removing weeds around designated utility poles in the Baylands and the foothills. Cardboard mulching is being considered to further reduce weeds around poles.

Tier 3 Pesticide and non-chemical controls

There were no Tier 3 products used in 20010. The use of non-toxic pest control measures which are favored over Tier 3 product use continue to expand. Non-chemical controls include power washing for tree pests, mulching to reduce weeds, structural repairs to deter ants and mice, and trapping for gophers.

Toxicity of Pesticides Used for Key Pests

A majority of the Tier 1 pesticides are used for controlling fungi, rodents and insects. Most Tier 2 pesticides are for weed control. Most Tier 3 products have been used for insect or weed control.

Figure 3: Summary of pesticides used to control fungus

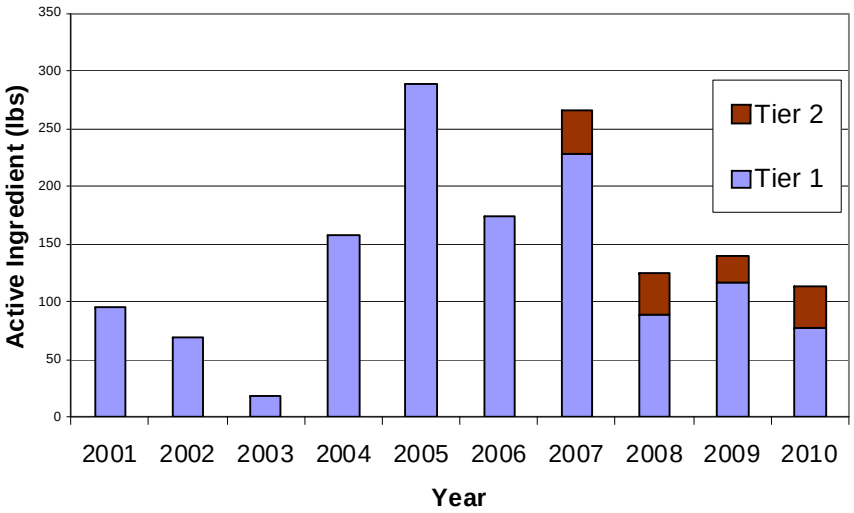


Figure 4: Summary of pesticides used to control rodents

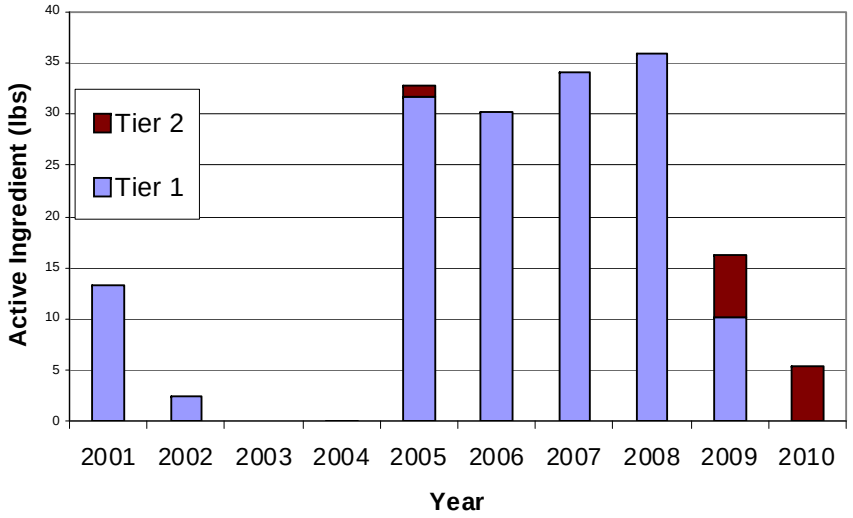


Figure 5: Summary of pesticides used to control weeds

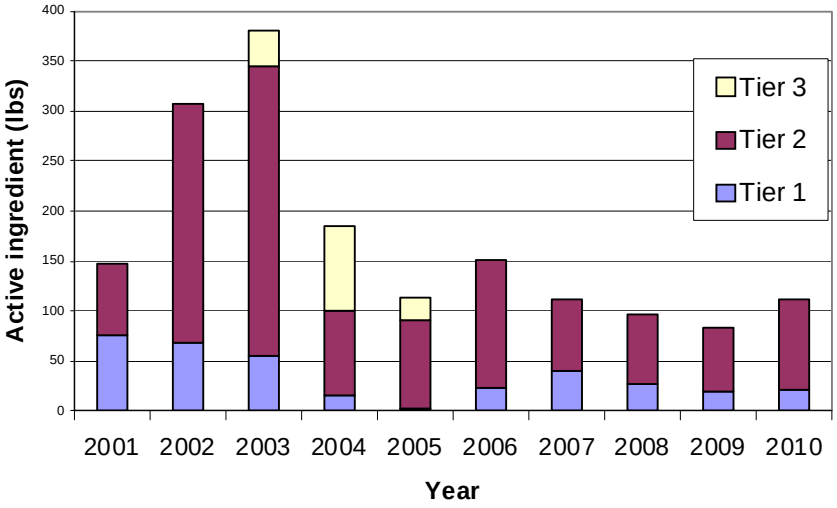
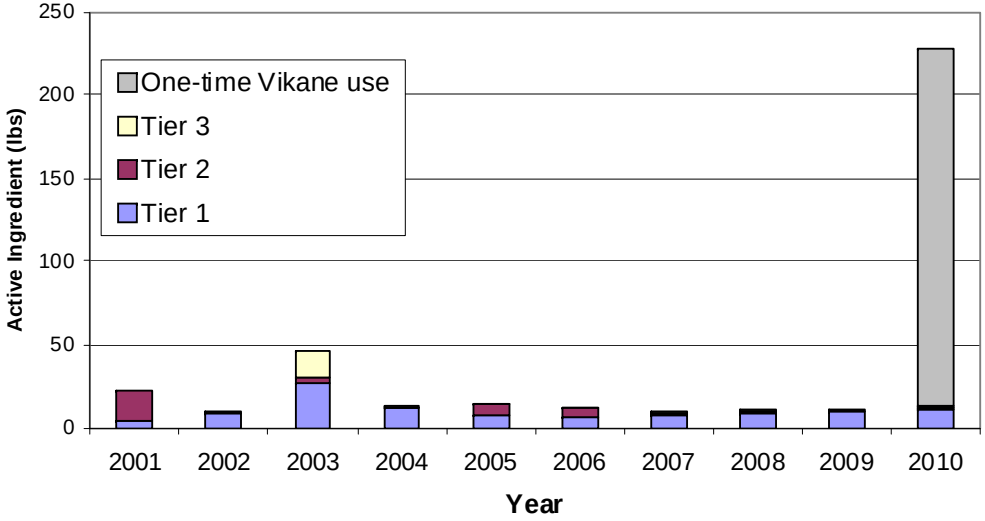


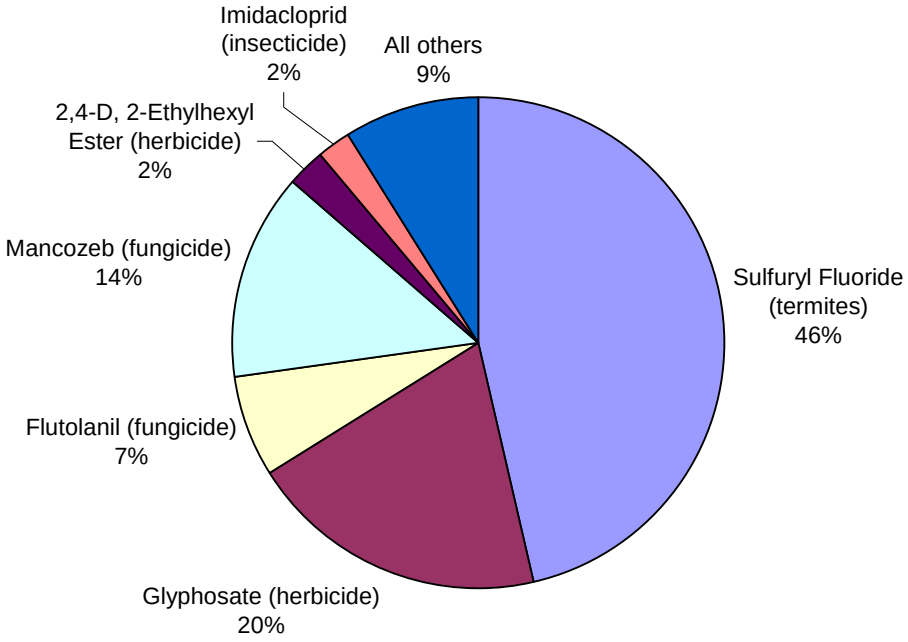
Figure 6: Summary of pesticides used to control insects



Top six active ingredients used by weight

Figure 7 presents the six most-used pesticide active ingredients by weight for 2010. Sulfuryl fluoride, mancozeb and 2, 4-D ethyl are Tier 1 pesticides, glyphosate and flutolanil are Tier 2 pesticides. Past reports were restricted to the top five most-used pesticides. The top six were included in this report to accommodate the large, one-time use of sulfuryl fluoride for termite control.

Figure 7: Top Six Pesticides Applied by Weight



Note for Figures 7 and 8: Sulfuryl fluoride was used for one termite application at the Palo Alto Main Library. Its use spiked both total and Tier 1 2010 pesticide use. The use of this product is very infrequent and should be considered an anomaly, although alternatives will be considered in the future.

Figure 8: Usage History for Top Six Active Ingredients

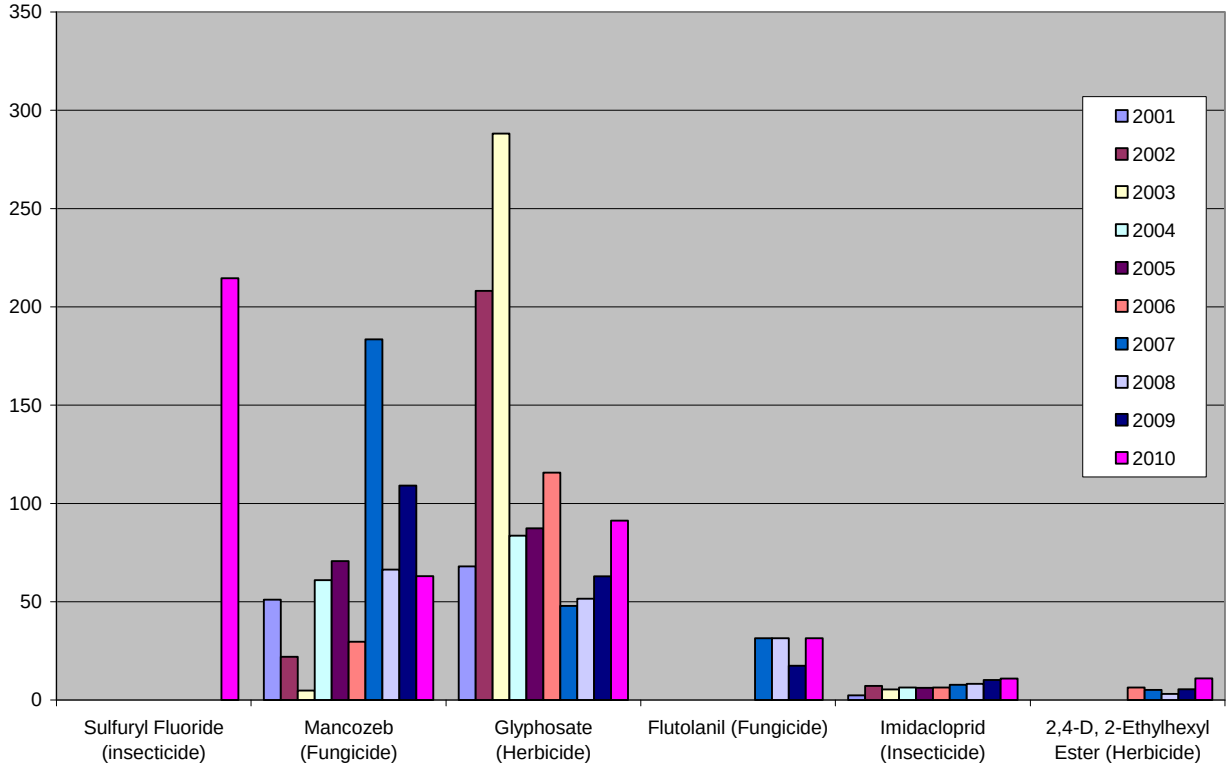


Table 1: 2009-2010 Change in Top Five Active ingredients

Active Ingredient	Trade Name	Tier	2009	2010	Amount Changed (lbs)	Percent Changed	Where Used
Sulfuryl Fluoride (Insecticide)	Vikane	1	0.0	215	215	100%	Mitchell Park Library (one time use)
Glyphosate (Herbicide)	Roundup	2	63.0	91	28	45%	Parks, Golf Operations-Trees, Open Space, Foothills
Flutolanil (Fungicide)	Prostar 70 WP	2	17.5	32	14	80%	Golf Course
Mancozeb (Fungicide)	Mancozeb DG	1	109.1	18	-91	-84%	Golf Course
2,4-D, 2-Ethylhexyl Ester (Herbicide)	Speedzone Southern	1	5.5	11	6	100%	Golf Course

Ecotoxic Pesticide Use in 2010

The primary driver of the City's IPM policy and plan is the avoidance of ecotoxicity in water bodies from pesticide use. Ecotoxicity, for this report, is defined as toxicity to birds, fish, bees, and aquatic indicator species or pesticides exhibiting the potential for secondary or non-target species toxicity. An example of the latter would be poisoning from consumption of rodent baits or from consumption of rodents exposed to the baits. Product classifications are based on MSDSs and other resources. Ecotoxic pesticides are a subset of Tier 1 pesticides as described previously in this report. A product's ecotoxicity is not the sole indicator of its threat to the environment. How, where, and when the pesticide is applied and the product's breakdown time are all factors in its ultimate environmental impact.

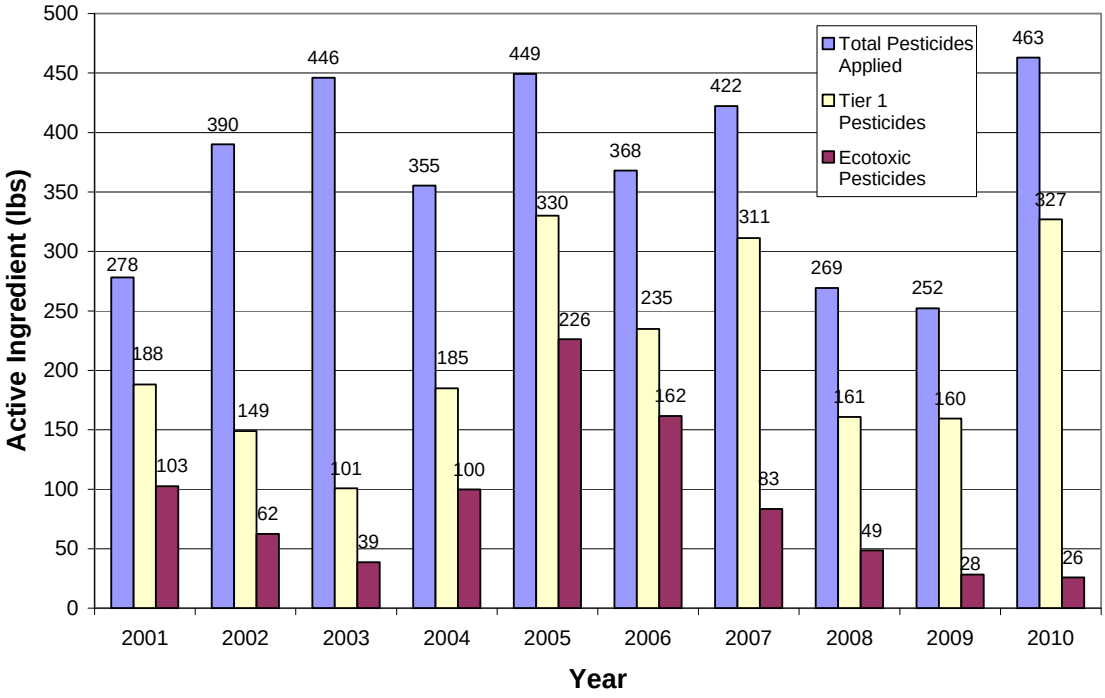
Factors to consider:

- Some product formulations use procedures or delivery devices that restrict product entry into the environment, such as containerized ant baits and dusts (applied in wall cracks and crevices).

- Even small amounts of some pesticides such as non-containerized pyrethroids (e.g., bifenthrin, cyfluthrin, delta-methrin) usually associated with sprayed ant pesticides, should be targeted for elimination based on of their persistent toxicity in urban creek and Bay sediments when rain or irrigation washes them from surface areas into waterways.

- Pesticides not identified by the EPA as known ecotoxins are not free of risk. Proprietary inert ingredients and synergistic effects of multiple active ingredients may still impact water quality. Large amounts of use of any single product should be considered a target for reduction.

Figure 9: Total Active Ingredient, Tier 1 and Ecotoxic Pesticide Use (2001-2010)



Note: See detail in Figures 1, 2 and 6 for information on this year's changes in total and Tier 1 pesticide use.

Ecotoxic pesticide use trends

The recorded use of ecotoxic and other Tier 1 active ingredients decreased during the first three years of Palo Alto's IPM program. Reductions were seen due to the expanded use of non-chemical and less toxic pesticide controls, a suspended use of some products while the goals of the City's IPM program were clarified, and because not all information was being captured from contractors. Ecotoxic pesticide use increased during 2004 and 2005 due to weather conditions which resulted in the need for more fungicide use at the golf course. Ecotoxic pesticide use decreased from 2006 to 2008 because of less PCNB and thiophanate-methyl use and because the Tier 2 fungicides fludioxonil (Medallion) and flutolanil (Pro Star) were rotated into the suite of fungicides used throughout the year. In 2009, the golf course helped reduce the City's ecotoxic use further by switching to trapping for gophers in lieu of chemical controls. This reduced the City's ecotoxic pesticide use to 28 pounds, the lowest number in the program's history.

In 2010, ecotoxic pesticide use was at a record low at 8% less than 2009 and 89% less than the highest use in 2005. This was despite a significant increase in Tier 1 and total active ingredient applied because of one treatment for termites at the Palo Alto Main Library. This record low use of ecotoxic products is due to the near phase out of chemical use for rodent control (gophers and ground squirrels) and reduced use of ecotoxic fungicides. Expanded trapping at the golf course and Foothill Park has minimized the need for fumigation for gophers and IPM turf management practices and use of Tier 2 fungicides have decreased the need for more toxic Tier 1 fungicides.

Table 2: Locations of Ecotoxic Pesticide Use in 2010 and Potential for Reduction			
Division	**Active Ingredient**	**Percent of Ecotoxic product used and pest**	**Opportunity for Reduced use**
Golf	*Carfentrazone-ethyl, dicamba, mecoprop-P, 2,4-D, 2-Ethylhexyl Ester (Speedzone, Quicksilver)	(58%) 15 lbs Weeds	**Low.** Action: Weeds are difficult to control because of high standards for golf course playability and turf stress.
Trees	Imidacloprid (Merit)	(42%) 11 lbs Insects	**Low.** Action: Staff has already significantly increased power washing to control insects and incorporates many IPM measures into tree pest management. Imidacloprid is injected into ground around tree roots and thus greatly minimizes potential release to surrounding environment.
Golf	Clopyralid (Lontrel Turf)	(<1%) 0.04 lbs Weeds	**Low.** A very small amount of this product is used each year for weeds

* Several active ingredients are used in these individual products. They have been consolidated here for ease of review instead of being reported as separate ecotoxic chemicals.

Table 3: Progress on 2010 Recommendations for City of Palo Alto IPM Program	
Recommendation	**Status**
1) Continue to follow and encourage the success of perimeter trapping for gophers.	Trapping has been enormously successful and has resulted in the near elimination of chemical control for rodents. One Tier 2 product (Giant Destroyer) was tested in 2010 for ground squirrels as seen in Figure 4, but was not particularly effective.
2) Explore options for ground squirrel control to further reduce ecotoxic pesticide use.	Live trapping followed by euthanization, and traps when squirrels are not feeding. Giant Destroyer is a Tier 2 Product was used when squirrel damage was severe, but with little success. Shade cloth barrier should continue to be used, as well as raptor perches and boxes.
3) Track and support as appropriate the expansion of EcoWise Certified.	Staff continues to track EcoWise status. BASMAA will be providing outreach on EcoWise Certified pest control companies.
4) Advocate and publicize the use of bee tunnels.	Bee tunnels have been abandoned for use. They seem to deter the bees from reentry. Instead increased public education is being looked upon to increase tolerance of bee hives.
5) Track the addition of pesticide-free parks in the City and the results of adding IPM language into landscape maintenance contracts.	This has been very successful. Twelve City properties including seven parks are now pesticide free. Others will be added pending budget availability.
6) Investigate IPM and less-toxic product alternatives for weed control at the golf course.	Less-toxic weed alternatives are currently being evaluated by the RWQCP consultant in partnership with the City of San Francisco to share and reduce costs.

IPM Program History 2001-2010

Accurately assessing the success of the City's efforts to reduce pesticide use and to use least toxic products is difficult when relying solely on yearly numerical fluctuations in pesticide use. Variations in weather patterns, natural pest population cycles, and challenges associated with quantifying pest control efforts that use biological or mechanical controls in lieu of pesticides are all important considerations.

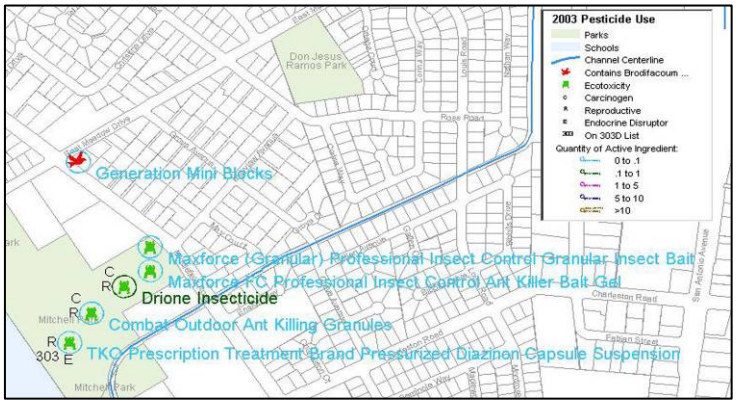
The following are a summary of key Palo Alto IPM accomplishments to date:

A visual barrier installed at the golf course decreased ground squirrel damage by 100%.

2001

- IPM policy is the first City Policy in the County to be adopted. The IPM Committee drafts the IPM Plan and Procedures.
- A tiered system for analyzing City pesticide use is adopted and the first annual report on the City's pesticide use is completed.
- IPM Committee votes to discontinue use of organophosphate pesticides due to water quality concerns associated with their use.
- Solarizing non-native plants at Pearson-Arastradero Preserve (weeds are covered in plastic tarps and destroyed by heat).
- Mechanical removal of weeds in Open Space Ponds
- Bermuda grass replaces bent grass at bowling green to reduce need for pesticides.
- City begins mulching in lieu of glyphosate use to control weeds (both pre and post emergent). Mulching becomes a significant contributor to the reduction of herbicide use in the City.
- Herbicide spraying discontinued at schools due to Healthy Schools Act.

GIS view of pesticide application next to Adobe creek



2002

- Completed five extensive IPM plans and related training for ants, weeds, yellowjackets gophers and ground squirrels.
- Identified all leased facilities and contractors for inclusion in the City's annual pesticide reports.

2003

- City receives Department of Pesticide Regulation IPM Innovator award http://www.cdpr.ca.gov/docs/ipminov/awards/03awards.htm
- Piloted new methods to reduce yellow jackets in Parks and Open Space.

- Piloted gopher reduction strategies at Foothills Park using trapping as a primary method.
- In partnership with Santa Clara County Airport and Baylands and golf course Staff implemented two new measures to reduce ground squirrel populations
  a. The installation of a visual barrier hung along the golf course/airport fence line to decrease the ground squirrels' ability to see predators and thus reduce activity.
  b. a trap design around Baylands buildings that can capture up to four ground squirrels at a time.

Goats are used to reduce weeds at Enid Pearson Arastradero Open Space Preserve.

2004

- Created pesticide data entry system using a centralized database and simplified reporting interface. This streamlines staff reporting time and allows staff to also print mandatory monthly DPR reports.
- Transferred pesticide use information in database to GIS format allowing for visual assessment of pesticide applications next to creeks and the Bay.
- Use of goats in Open Space areas to control weeds proves successful (reintroduction of goats to this area is on hold due to mountain lion concerns in that area).

A bee tunnel is installed over a bee hive in a public parking lot.

2005

- Scope of Services for City wide IPM contract drafted. RFP to go out in 2006.
- Less toxic, botanically-based insecticides ordered for Facility staff use and related *Approved Pesticide List* for Facilities and staff at the Regional Water Quality Control Plant who are responsible for their own pest control.
- Confirmed pesticide reduction hierarchy.

Dr. Gilbert Proulx provides information on gopher biology and trapping.

2006

- Hired EcoWise Certified structural pest control company to service all City facilities (Pestec)
- Identified less toxic fungicide alternatives
- Provided mini grants (<$5,000) to golf course and art center for structural pest control.
- Improved the City's database system.

2007

- Implemented EcoWise Certified contractor service into City operations and consolidated related billing

and service levels.
- Completed 50% of recommended building repairs to reduce overall conditions that encourage pest activity.
- Tested two Tier 2 fungicide alternatives.
- Held two region-wide trainings for IPM structural pest control.

2008
- Medallion and Prostar, two Tier 2 fungicides, were incorporated into ongoing use at the golf course.
- A gopher and ground squirrel workshop was held inspiring staff to experiment with the use of perimeter trapping to control these animals.
- The City's contractor, Pestec, identified a method of rerouting bees that are entering and exiting their hives away from people when human/bee interface is likely. Staff developed a public education piece and internal protocol for responding to bee complaints.
- Completed structural building repairs identified in 2007 needed for ant and rat control.
- Public Works Trees incorporates power washing to remove tussock moths from trees in City parks.

2009
- Perimeter trapping proved hugely successful and reduced aluminum phosphide use by 72%.
- The Parks Department launched its first pesticide-free park at Sarah Wallis Park.
- IPM language was added to parks maintenance contract.
- Palo Alto ecotoxic and total active ingredient pesticide use the lowest in program history.

Palo Alto's first pesticide-free park established in 2009.

2010
- Twelve City parks and facilities designated pesticide-free
- The City's ecotoxic pesticide use decreased to historically low levels since the program's inception in 2001.
- Fumitoxin, an ecotoxic pesticide and the City's most-used and rodenticide, is eliminated from use because of increased perimeter trapping for gophers.
- Language for a new Landscape Maintenance Contract was updated to include requirements for Bay-Friendly Landscaping techniques (which support IPM), the use of organic fertilizers and IPM requirements
- A new golf course contract was awarded which includes strong requirements for IPM, including trapping for rodents, close coordination with the City's IPM Coordinator and on-going reviews of alternative products to move towards less-toxic options when feasible.

2011 Recommendations for City of Palo Alto IPM Program

Based on analysis of 2010 data

Staff recommends that the City continue to target the reduction of ecotoxic pesticides and those that are used in large amounts. These recommendations factor in reduced funding and staff resources from previous years' budget reductions. Specific task recommendations are to:

1. Report on evaluation of less-toxic herbicides and fungicides that are being reviewed for golf course and park use. Reviews are being done in partnership with the City of San Francisco to share costs.

2. Track ground squirrel trapping efforts at the golf course. To reduce rodenticide use, which is problematic because of secondary poisoning, the golf course will experiment with trapping ground squirrels. The trapping method is different from that of gophers and new to staff.

3. Certify park staff as Bay-Friendly Landscaping maintenance providers. The initial goal is to have one staff member certified per year due to the time commitment of several days for training. Certifications will continue provided that the training costs remain low.

4. Track success of egg addling to reduce excessive and disruptive goose populations in Baylands. Egg addling involves identifying nests and coating young eggs with vegetable oil to reduce hatch numbers. The vegetable oil keeps oxygen from entering the egg and stops chick development. Success can be tracked by counting the number of nests/eggs addled. It will not be possible to track success by counting the number of Canada Geese present in the park due to time demands on staff. However, anecdotal observations about the number of geese will continue to be made which will be tracked in the Open Space Daily Log.

5. Monitor and evaluate the ongoing benefits, challenges and costs of pesticide free parks and expand the number of designated sites as both funding and the likelihood of continued success allow. Many pesticide-free parks have been added and observation of impacts of the conversion over the next one to three years will be used to determine the probability of long-term success. Public acceptance will also be critical.

6. Expand sheet mulching in both the Community Services Division (Open Space, Parks, and Golf) and the Public Works Division (Trees) to reduce chemical weed control as opportunity allows.

7. Investigate less-toxic termite control for future termite fumigations in and around City buildings.

8. Review and revise IPM policy and procedures to align with current goals and needs and regional pesticide concerns.

Appendix I: Evaluation and Rating of Pesticide Toxicity Risk

1. Information sources for pesticide evaluation

Information used to evaluate hazards are obtained from the sources listed in Table 1 below:

Table 1-Pesticide Information Sources

Information	Source
Product Literature	Crop Data Management Systems Website
Product MSDS	Manufacturers' Websites
Product Label	Calif. DPR Website
Other Manufacturers' Data **Registration Documents**	EPA Reregistration Eligibility Decisions (R.E.D.) Website
Ingredient Data	EPA & Other Websites
	Toxicology Literature
Specific Product Risk Ratings	San Francisco & Seattle IPM Websites

2. Defining pesticide risks. Three factors define the overall risk:

a) The level of hazard inherent in the chemical. Some pesticide ingredients can cause immediate, acute injury (e.g., eye irritation), while others may take years for their toxic chronic effects to be seen (e.g., cancer).

b) The level of exposure that the user, near-by person, or the environment might incur. For example, rat poisons may be contained in tamper-resistant traps or spread in pellet form on the ground next to a building foundation.

c) The susceptibility of the exposed person or animal to the hazard. For example, people with asthma may be more susceptible to air-born chemicals. Also, children, the elderly, or people recovering from an illness may each have a somewhat lesser tolerance to chemical exposures than would an average healthy adult.

3. Qualifying the criteria used to define pesticide risks

There are numerous hazards and exposure concerns that can potentially be used as criteria for evaluating the overall risk of any individual pesticide. Examples include: toxicity to humans and animals; potential to cause cancer; use in a sprayer versus sprinkling as a powder; and flammability.

The US Environmental Protection Agency (EPA) and California Department of Pesticide Regulation (DPR) routinely evaluate pesticides based the approximately 20 of these criteria

when making decisions about registering pesticide products. The Cities of San Francisco and Seattle use similar criteria as part of their IPM programs. RWQCP staff has primarily used the criteria list developed by San Francisco when reviewing pesticides for potential use in Palo Alto. The risk evaluation criteria are described below: These descriptions are adapted from extensive reports that are available on the San Francisco and Seattle IPM websites.

a) EPA Hazard Class: "Signal Words" are required by US EPA on pesticide labels to indicate the overall hazard category for a product, based on acutely toxic effects. Listed from most to least hazardous, the signal words are: I-Danger, II-Warning, III-Caution, or IV-Caution. It is preferable to use pesticides labeled as "Caution."

b) Use Restricted to Certified Applicators: Some products evaporate easily, are easily absorbed through skin, or have other characteristics that make them a high risk to untrained users. The EPA designates which products are to be used only by a certified applicator in its registration decisions. It is preferable to use products that have no use restrictions.

c) Chronic Toxicity: Longer term tests on active pesticide ingredients indicate their likelihood of causing cancer, reproductive or developmental harm, or disruption of hormone systems. There is uncertainty associated with evaluating animal tests of these types and applying the results to humans. Therefore, the results are stated as probabilities. For example, iprodione is a "probable human carcinogen," or iprodione is "known to the State of California to cause cancer and reproductive harm." It is preferable to avoid pesticide products that have a possibility of causing cancer, reproductive or developmental harm, or disrupting hormone systems.

d) Contains Clean Water Act (303d) Listed Chemicals: Copper, chlorpyrifos, and diazinon are three pesticide ingredients managed under the Clean Water Act. The City has a stated policy of not using products with diazinon or chlorpyrifos.

e) Ecotoxicity (Animal Toxicity): Laboratory tests on birds, fish, bees, and other wildlife indicate how these animals may react to unintended pesticide exposures (i.e., where they are not the target pest). The test results are given in terms of the dose that kills 50% of a group of birds, fish, or other test animals. It is preferable to use pesticides with the following toxicity levels:

    - Bird toxicity > 2,000 mg/kg
    - Fish toxicity > 100 mg/l
    - Bee toxicity > 11 µg per bee

f) It is preferable to avoid products that are labeled as "highly" or "extremely" toxic to these and other animals. Brodifacoum, Bromadionone and Bromethalin are considered specific high-risk animal toxins, particularly due to the possibility of secondary poisonings. In addition there are concerns about two rodenticides, chlorphacinone and diphacinone, which although less toxic, also present primary and secondary risks.

g) Persistence and mobility in soil: Some pesticides biodegrade readily and do not persist long enough to migrate from the area where they are placed while other products are more persistent. Mobility in the environment is also dependent upon partioning between the

organic components of soil and the water that moves through the soil. Water soluble pesticides tend to move through soil into the groundwater or surface water. It is preferable to use pesticides with the following characteristics:

- Persistence in soil < 30-day half-life
- Ability to move through soil = "Low"
- Not labeled as a groundwater contamination hazard

4. **Rating Pesticide Toxicity** The City of Palo Alto uses the San Francisco strategy of placing pesticides into groups, or tiers, according to their relative risks. Table 2 outlines the four tiers that are used, and the criteria that place a product into a specific tier.

Table 2. Pesticide "Tier Definition" System

All pesticide products are classified into one of four tiers based on each product's hazards:

Tier 1: Highest concern

Tier 2: Moderate concern

Tier 3: Lowest concern

Tier 4: Insufficient information

Tier 1: A product is Tier 1 if any one of the following are true:

- Product is a restricted-use pesticide
- Product contains known, likely, or probable carcinogens, reproductive toxicants (CA Prop 65 list or other published test) or endocrine disruptors as active ingredients (Illinois EPA list, or other published test results)
- Product contains diazinon, chlorpyrifos, or copper, identified as important causes of impaired waterbodies in California Regions 2 and 5 under section 303(D) of the Clean Water Act
- Product labeled as highly toxic or extremely toxic to birds, aquatic species, bees, or wildlife.
- Product contains the rodenticides brodifacoum, bromethalin, or bromadionone
- Product contains active ingredients with soil half-lives greater than 100 days (not applicable to products used only indoors or to products used only in bait stations)
- Product contains active ingredients with mobility ratings high or very high or with specific label warnings about groundwater hazard. (not applicable to products used only indoors or to products

used only in bait stations)

Tier 2: All products not specifically assigned to Tier 1 or Tier 3.

Tier 3: A product is placed into Tier 3 if all of the following are true:

- Product contains no possible or probable carcinogens
- Product contains no reproductive/developmental toxicants (CA Prop 65 list)
- Product contains no ingredients listed by Illinois EPA as known, probable, or suspect endocrine disrupters
- Active ingredient has soil half-life of 30 days or less (exception for minerals).
- Active ingredient has extremely low or very low mobility in soils.
- Product is labeled as non-toxic to fish, birds, bees, wildlife, or domestic animals.

Tier 4: Not enough information. Product registration or label not found, or key data not located for active ingredient (e.g., half-life, soil binding, ecotoxicity, etc.)

Appendix 9-3

C.9.d City of Palo Alto IPM Contract Language

CITY OF PALO ALTO CONTRACT NO.: S10134890

AGREEMENT BETWEEN THE CITY OF PALO ALTO AND AGURTO CORPORATION DBA PESTEC FOR PROFESSIONAL SERVICES IPM STRUCTURAL PEST CONTROL

This AGREEMENT is entered into on this 15th day of March, 2010, by and between the CITY OF PALO ALTO, a California chartered municipal corporation ("CITY"), and Agurto Corporation dba Pestec, a Californian corporation, located at 1555 Yosemite Avenue, Suite 46, San Francisco, CA 94124 ("CONSULTANT").

RECITALS

The following recitals are a substantive portion of this Agreement.

A. CITY intends to design a citywide Integrated Pest Management (IPM) pest control services ("Project") and desires to engage a consultant to coordinate the IPM program in connection with the Project ("Services").

B. CONSULTANT has represented that it has the necessary professional expertise, qualifications, and capability, and all required licenses and/or certifications to provide the Services.

C. CITY in reliance on these representations desires to engage CONSULTANT to provide the Services as more fully described in Exhibit "A", attached to and made a part of this Agreement.

NOW, THEREFORE, in consideration of the recitals, covenants, terms, and conditions, this Agreement, the parties agree:

AGREEMENT

SECTION 1. SCOPE OF SERVICES. CONSULTANT shall perform the Services described in Exhibit "A" in accordance with the terms and conditions contained in this Agreement. The performance of all Services shall be to the reasonable satisfaction of CITY.

SECTION 2. TERM.
The term of this Agreement shall be from the date of its full execution through March 14, 2013 unless terminated earlier pursuant to Section 19 of this Agreement.

SECTION 3. SCHEDULE OF PERFORMANCE. Time is of the essence in the performance of Services under this Agreement. CONSULTANT shall complete the Services within the term of this Agreement and in accordance with the schedule set forth in Exhibit "B", attached to and made a part of this Agreement. Any Services for which times for performance are not specified in this Agreement shall be commenced and completed by CONSULTANT in a reasonably prompt and timely manner based upon the circumstances and direction communicated to the CONSULTANT. CITY's agreement to extend the term or the schedule for performance shall not preclude recovery of damages for delay if the extension is required due to the fault of CONSULTANT.

SECTION 4. NOT TO EXCEED COMPENSATION. The compensation to be paid to CONSULTANT for performance of the Services described in Exhibit "A", including both payment for professional services and reimbursable expenses, shall not exceed Thirty Five Thousand Dollars per year ($35,000 / year). In the event Additional Services are authorized, the total compensation for services and reimbursable expenses shall not exceed Three Thousand Five Hundred Dollars ($3,500). The applicable rates and schedule of payment are set out in Exhibit "C-1", entitled "HOURLY RATE SCHEDULE," which is attached to and made a part of this Agreement.

Additional Services, if any, shall be authorized in accordance with and subject to the provisions of Exhibit "C". CONSULTANT shall not receive any compensation for Additional Services performed without the prior written authorization of CITY. Additional Services shall mean any work that is determined by CITY to be necessary for the proper completion of the Project, but which is not included within the Scope of Services described in Exhibit "A".

SECTION 5. INVOICES. In order to request payment, CONSULTANT shall submit monthly invoices to the CITY describing the services performed and the applicable charges (including an identification of personnel who performed the services, hours worked, hourly rates, and reimbursable expenses), based upon the CONSULTANT's billing rates (set forth in Exhibit "C-1"). If applicable, the invoice shall also describe the percentage of completion of each task. The information in CONSULTANT's payment requests shall be subject to verification by CITY. CONSULTANT shall send all invoices to the City's project manager at the address specified in Section 13 below. The City will generally process and pay invoices within thirty (30) days of receipt.

SECTION 6. QUALIFICATIONS/STANDARD OF CARE. All of the Services shall be performed by CONSULTANT or under CONSULTANT's supervision. CONSULTANT represents that it possesses the professional and technical personnel necessary to perform the Services required by this Agreement and that the personnel have sufficient skill and experience to perform the Services assigned to them. CONSULTANT represents that it, its employees and subconsultants, if permitted, have and shall maintain during the term of this Agreement all licenses, permits, qualifications, insurance and approvals of whatever nature that are legally required to perform the Services.

All of the services to be furnished by CONSULTANT under this agreement shall meet the professional standard and quality that prevail among professionals in the same discipline and of similar knowledge and skill engaged in related work throughout California under the same or similar circumstances.

SECTION 7. COMPLIANCE WITH LAWS. CONSULTANT shall keep itself informed of and in compliance with all federal, state and local laws, ordinances, regulations, and orders that may affect in any manner the Project or the performance of the Services or those engaged to perform Services under this Agreement. CONSULTANT shall procure all permits and licenses, pay all charges and fees, and give all notices required by law in the performance of the Services.

SECTION 8. ERRORS/OMISSIONS. CONSULTANT shall correct, at no cost to CITY, any and all errors, omissions, or ambiguities in the work product submitted to CITY, provided CITY gives notice to CONSULTANT. If CONSULTANT has prepared plans and specifications or other design documents to construct the Project, CONSULTANT shall be obligated to correct any and all errors, omissions or ambiguities discovered prior to and during the course of construction of the Project. This obligation shall survive termination of the Agreement.

SECTION 9. COST ESTIMATES. If this Agreement pertains to the design of a public works project, CONSULTANT shall submit estimates of probable construction costs at each phase of design submittal. If the total estimated construction cost at any submittal exceeds ten percent (10%) of the CITY's stated construction budget, CONSULTANT shall make recommendations to the CITY for aligning the PROJECT design with the budget, incorporate CITY approved recommendations, and revise the design to meet the Project budget, at no additional cost to CITY.

SECTION 10. INDEPENDENT CONTRACTOR. It is understood and agreed that in performing the Services under this Agreement CONSULTANT, and any person employed by or contracted with CONSULTANT to furnish labor and/or materials under this Agreement, shall act as and be an independent contractor and not an agent or employee of the CITY.

SECTION 11. ASSIGNMENT. The parties agree that the expertise and experience of CONSULTANT are material considerations for this Agreement. CONSULTANT shall not assign or transfer any interest in this Agreement nor the performance of any of CONSULTANT's obligations hereunder without the prior written consent of the city manager. Consent to one assignment will not be deemed to be consent to any subsequent assignment. Any assignment made without the approval of the city manager will be void.

SECTION 12. SUBCONTRACTING.

CONSULTANT shall not subcontract any portion of the work to be performed under this Agreement without the prior written authorization of the city manager or designee.

CONSULTANT shall be responsible for directing the work of any subconsultants and for any compensation due to subconsultants. CITY assumes no responsibility whatsoever concerning compensation. CONSULTANT shall be fully responsible to CITY for all acts and omissions of a subconsultant. CONSULTANT shall change or add subconsultants only with the prior approval of the city manager or his designee.

SECTION 13. PROJECT MANAGEMENT. CONSULTANT will assign Luis Agurto as the

project director to have supervisory responsibility for the performance, progress, and execution of the Services to represent CONSULTANT during the day-to-day work on the Project. If circumstances cause the substitution of the project director, project coordinator, or any other key personnel for any reason, the appointment of a substitute project director and the assignment of any key new or replacement personnel will be subject to the prior written approval of the CITY's project manager. CONSULTANT, at CITY's request, shall promptly remove personnel who CITY finds do not perform the Services in an acceptable manner, are uncooperative, or present a threat to the adequate or timely completion of the Project or a threat to the safety of persons or property.

The City's project manager is Mike Wong, Public Works Department, Facilities Division, 3251 East Bayshore Road, Palo Alto, CA 94303, Telephone: (650) 496-6989. The project manager will be CONSULTANT's point of contact with respect to performance, progress and execution of the Services. The CITY may designate an alternate project manager from time to time.

SECTION 14. OWNERSHIP OF MATERIALS. Upon delivery, all work product, including without limitation, all writings, drawings, plans, reports, specifications, calculations, documents, other materials and copyright interests developed under this Agreement shall be and remain the exclusive property of CITY without restriction or limitation upon their use. CONSULTANT agrees that all copyrights which arise from creation of the work pursuant to this Agreement shall be vested in CITY, and CONSULTANT waives and relinquishes all claims to copyright or other intellectual property rights in favor of the CITY. Neither CONSULTANT nor its contractors, if any, shall make any of such materials available to any individual or organization without the prior written approval of the City Manager or designee. CONSULTANT makes no representation of the suitability of the work product for use in or application to circumstances not contemplated by the scope of work.

SECTION 15. AUDITS. CONSULTANT will permit CITY to audit, at any reasonable time during the term of this Agreement and for three (3) years thereafter, CONSULTANT's records pertaining to matters covered by this Agreement. CONSULTANT further agrees to maintain and retain such records for at least three (3) years after the expiration or earlier termination of this Agreement.

SECTION 16. INDEMNITY.

16.1. To the fullest extent permitted by law, CONSULTANT shall protect, indemnify, defend and hold harmless CITY, its Council members, officers, employees and agents (each an "Indemnified Party") from and against any and all demands, claims, or liability of any nature, including death or injury to any person, property damage or any other loss, including all costs and expenses of whatever nature including attorneys fees, experts fees, court costs and disbursements ("Claims") resulting from, arising out of or in any manner related to performance or nonperformance by CONSULTANT, its officers, employees, agents or contractors under this Agreement, regardless of whether or not it is caused in part by an Indemnified Party.

16.2. Notwithstanding the above, nothing in this Section 16 shall be construed to require CONSULTANT to indemnify an Indemnified Party from Claims arising from the active negligence, sole negligence or willful misconduct of an Indemnified Party.

16.3. The acceptance of CONSULTANT's services and duties by CITY shall not operate as a waiver of the right of indemnification. The provisions of this Section 16 shall survive the expiration or early termination of this Agreement.

SECTION 17. WAIVERS. The waiver by either party of any breach or violation of any covenant, term, condition or provision of this Agreement, or of the provisions of any ordinance or law, will not be deemed to be a waiver of any other term, covenant, condition, provisions, ordinance or law, or of any subsequent breach or violation of the same or of any other term, covenant, condition, provision, ordinance or law.

SECTION 18. INSURANCE.

18.1. CONSULTANT, at its sole cost and expense, shall obtain and maintain, in full force and effect during the term of this Agreement, the insurance coverage described in Exhibit "D". CONSULTANT and its contractors, if any, shall obtain a policy endorsement naming CITY as an additional insured under any general liability or automobile policy or policies.

18.2. All insurance coverage required hereunder shall be provided through carriers with AM Best's Key Rating Guide ratings of A-:VII or higher which are licensed or authorized to transact insurance business in the State of California. Any and all contractors of CONSULTANT retained to perform Services under this Agreement will obtain and maintain, in full force and effect during the term of this Agreement, identical insurance coverage, naming CITY as an additional insured under such policies as required above.

18.3. Certificates evidencing such insurance shall be filed with CITY concurrently with the execution of this Agreement. The certificates will be subject to the approval of CITY's Risk Manager and will contain an endorsement stating that the insurance is primary coverage and will not be canceled, or materially reduced in coverage or limits, by the insurer except after filing with the Purchasing Manager thirty (30) days' prior written notice of the cancellation or modification, CONSULTANT shall be responsible for ensuring that current certificates evidencing the insurance are provided to CITY's Purchasing Manager during the entire term of this Agreement.

18.4. The procuring of such required policy or policies of insurance will not be construed to limit CONSULTANT's liability hereunder nor to fulfill the indemnification provisions of this Agreement. Notwithstanding the policy or policies of insurance, CONSULTANT will be obligated for the full and total amount of any damage, injury, or loss caused by or directly arising as a result of the Services performed under this Agreement, including such damage, injury, or loss arising after the Agreement is terminated or the term has expired.

SECTION 19. TERMINATION OR SUSPENSION OF AGREEMENT OR SERVICES.

19.1. The city manager may suspend the performance of the Services, in whole or in part, or terminate this Agreement, with or without cause, by giving ten (10) days prior written notice thereof to CONSULTANT. Upon receipt of such notice, CONSULTANT will immediately discontinue its performance of the Services.

19.2. CONSULTANT may terminate this Agreement or suspend its performance of the Services by giving thirty (30) days prior written notice thereof to CITY, but only in the event of a substantial failure of performance by CITY.

19.3. Upon such suspension or termination, CONSULTANT shall deliver to the City Manager immediately any and all copies of studies, sketches, drawings, computations, and other data, whether or not completed, prepared by CONSULTANT or its contractors, if any, or given to CONSULTANT or its contractors, if any, in connection with this Agreement. Such materials will become the property of CITY.

19.4. Upon such suspension or termination by CITY, CONSULTANT will be paid for the Services rendered or materials delivered to CITY in accordance with the scope of services on or before the effective date (i.e., 10 days after giving notice) of suspension or termination; provided, however, if this Agreement is suspended or terminated on account of a default by CONSULTANT, CITY will be obligated to compensate CONSULTANT only for that portion of CONSULTANT's services which are of direct and immediate benefit to CITY as such determination may be made by the City Manager acting in the reasonable exercise of his/her discretion

19.5. No payment, partial payment, acceptance, or partial acceptance by CITY will operate as a waiver on the part of CITY of any of its rights under this Agreement.

SECTION 20. NOTICES.

All notices hereunder will be given in writing and mailed, postage prepaid, by certified mail, addressed as follows:

To CITY: Office of the City Clerk
City of Palo Alto
Post Office Box 10250
Palo Alto, CA 94303

With a copy to the Purchasing Manager

To CONSULTANT: Attention of the project director
at the address of CONSULTANT recited above

SECTION 21. CONFLICT OF INTEREST.

21.1. In accepting this Agreement, CONSULTANT covenants that it presently has no interest, and will not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or degree with the performance of the Services.

21.2. CONSULTANT further covenants that, in the performance of this Agreement, it will not employ subconsultants, contractors or persons having such an interest. CONSULTANT certifies that no person who has or will have any financial interest under this Agreement is an officer

or employee of CITY; this provision will be interpreted in accordance with the applicable provisions of the Palo Alto Municipal Code and the Government Code of the State of California.

21.3. If the Project Manager determines that CONSULTANT is a "Consultant" as that term is defined by the Regulations of the Fair Political Practices Commission, CONSULTANT shall be required and agrees to file the appropriate financial disclosure documents required by the Palo Alto Municipal Code and the Political Reform Act.

SECTION 22. NONDISCRIMINATION. As set forth in Palo Alto Municipal Code section 2.30.510, CONSULTANT certifies that in the performance of this Agreement, it shall not discriminate in the employment of any person because of the race, skin color, gender, age, religion, disability, national origin, ancestry, sexual orientation, housing status, marital status, familial status, weight or height of such person. CONSULTANT acknowledges that it has read and understands the provisions of Section 2.30.510 of the Palo Alto Municipal Code relating to Nondiscrimination Requirements and the penalties for violation thereof, and agrees to meet all requirements of Section 2.30.510 pertaining to nondiscrimination in employment.

SECTION 23. ENVIRONMENTALLY PREFERRED PURCHASING. CONSULTANT shall comply with the City's Environmentally Preferred Purchasing policies which are available at the city's Purchasing Department which are incorporated by reference and may be amended from time to time.

SECTION 24. NON-APPROPRIATION

24.1. This Agreement is subject to the fiscal provisions of the Charter of the City of Palo Alto and the Palo Alto Municipal Code. This Agreement will terminate without any penalty (a) at the end of any fiscal year in the event that funds are not appropriated for the following fiscal year, or (b) at any time within a fiscal year in the event that funds are only appropriated for a portion of the fiscal year and funds for this Agreement are no longer available. This Section 24.8 shall take precedence in the event of a conflict with any other covenant, term, condition, or provision of this Agreement.

24.2. The individuals executing this Agreement represent and warrant that they have the legal capacity and authority to do so on behalf of their respective legal entities.

SECTION 25. MISCELLANEOUS PROVISIONS.

25.1. This Agreement will be governed by the laws of the State of California.

25.2. In the event that an action is brought, the parties agree that trial of such action will be vested exclusively in the state courts of California in the County of Santa Clara, State of California.

25.3. The prevailing party in any action brought to enforce the provisions of this Agreement may recover its reasonable costs and attorneys' fees expended in connection with that action. The prevailing party shall be entitled to recover an amount equal to the fair market value of legal services provided by attorneys employed by it as well as any attorneys' fees paid to third

parties.

25.4. This document represents the entire and integrated agreement between the parties and supersedes all prior negotiations, representations, and contracts, either written or oral. This document may be amended only by a written instrument, which is signed by the parties.

25.5. The covenants, terms, conditions and provisions of this Agreement will apply to, and will bind, the heirs, successors, executors, administrators, assignees, and consultants of the parties.

25.6. If a court of competent jurisdiction finds or rules that any provision of this Agreement or any amendment thereto is void or unenforceable, the unaffected provisions of this Agreement and any amendments thereto will remain in full force and effect.

25.7. All exhibits referred to in this Agreement and any addenda, appendices, attachments, and schedules to this Agreement which, from time to time, may be referred to in any duly executed amendment hereto are by such reference incorporated in this Agreement and will be deemed to be a part of this Agreement.

24.10 If, pursuant to this contract with CONSULTANT, City shares with CONSULTANT personal information as defined in California Civil Code section 1798.81.5(d) about a California resident ("Personal Information"), CONSULTANT shall maintain reasonable and appropriate security procedures to protect that Personal Information, and shall inform City immediately upon learning that there has been a breach in the security of the system or in the security of the Personal Information. CONSULTANT shall not use Personal Information for direct marketing purposes without City's express written consent.

IN WITNESS WHEREOF, the parties hereto have by their duly authorized representatives executed this Agreement on the date first above written.

CITY OF PALO ALTO

_____
Purchasing Manager

_____
Director of Public Works

APPROVED AS TO FORM:

_____
Senior Asst. City Attorney

AGURTO CORPORATION DBA PESTEC

By:_____

Name:_____

Title:_____

Attachments:
EXHIBIT "A": SCOPE OF WORK
EXHIBIT "B": SCHEDULE OF PERFORMANCE
EXHIBIT "C": COMPENSATION
EXHIBIT "C-1":SCHEDULE OF RATES
EXHIBIT "D": INSURANCE REQUIREMENTS

EXHIBIT "A"
SCOPE OF SERVICES

Project Description
The Contractor shall furnish all supervision, labor, materials, and equipment necessary to evaluate, monitor, and provide pest management services for City of Palo Alto buildings. Pest control methods shall first strive to use non-chemical controls such as trapping and pest proofing, followed by chemical controls only if non-chemical methods fail.

1. **Using IPM strategies, the contractor shall control structural pests to include:**
   a) **Insects and other arthropods:** These include ants, cockroaches, yellow jackets and other wasps and bees, and any other arthropod pest not specifically excluded from the contract.

   b) **Mice and rats:** The contractor shall adequately suppress rats and mice found inside and outside buildings. Pick-up and proper disposal of dead vertebrates is also included in this scope of work, unless other arrangements for collection and disposal are agreed upon by Facility and Site Supervisors

   c) **Pests excluded from contract:**
   - Termites and other wood destroying organisms
   - Mosquitoes (mosquito abatement)
   - Pests that primarily feed on outdoor vegetation unless they are invading a structure
   - Birds, bats, snakes and all other vertebrates not listed above

   d) **Removal of stinging insects**- the contractor shall remove nests of yellow jackets when they pose a human safety threat and are located on City property. The contractor shall work with Environmental Compliance and other City departments as needed to identify how bee hive access can be altered to avoid hive removal or destruction. Africanized bee nests shall be destroyed. Bee removal must be supervised by a CONTRACTOR employee, and performed on behalf of CONTRACTOR, if the service is not performed by a CONTRACTOR employee directly.

   e) **Reduce pest problem hotspots** with the goal of solving structural and hygiene challenges so that facilities currently requiring a monthly service can reduce their need for chemical pest control and regular service.

2. **The contractor must provide regular pesticide reporting information in electronic format outlined in Section C7.**

Specific Work Tasks
The contractor shall:

1. **Control pests while minimizing human exposure to pesticides, secondary poisoning to non-target animals and pesticide-related water pollution** by adhering to the following conditions:

    a. The following products shall **not** be used for insect control:
        i. Products labeled with the signal word "danger"
        ii. Organophosphate products (e.g., diazinon or chlopyrifos)
        iii. Carbamate products (e.g., carbaryl)
        iv. Pyrethroid products (see expanded list, Attachment AA). Containerized pyrethroid products, or pyrethroid products whose application method prevents pyrethroid release to the environment may be authorized by the IPM coordinator.
    b. Containerized baits are preferred for ant control
    c. No **spray insecticides** may be used **except** insecticidal soaps and plant-based products (e.g., pyrethrins, mint oil, rosemary oil, etc.). **Emergency use of other pesticides may be authorized by the City's IPM coordinator.**
    d. Trapping and exclusion shall be the primary rodent control methods. To prevent bait resistance and secondary poisoning, rodent baits shall only be used when trapping and exclusion are unsuccessful and **in consultation with the IPM Coordinator.**
    e. No outdoor applications of pesticides of any kind shall be applied on impervious surfaces when a 40% or greater chance of rain is forecast within three days unless the pesticides are containerized baits that will not contribute to runoff pollution.
    f. Prior to application, contractor must notify manager or supervisors overseeing the employees in the working areas that are to be treated with any pest control product other than containerized baits.
    g. Submit all MSDSs for products that shall be used and receive authorization for their use from the City of Palo Alto IPM Coordinator and Facilities Supervisor prior to commencement of work. No additional products may be introduced for use without prior authorization from the City IPM coordinator.
    h. Contractor and the Facilities Supervisor shall agree upon the extent and scope of minor repairs and pest proofing needed at facilities that are that are to be performed by contractor: e.g., crack and crevice sealing for ant and cockroach exclusion. Contractor will provide recommendations and corresponding proposals for major repairs such as rodent proofing to assist facilities maintenance staff in their decision making process. If the city does not provide the repairs or hygiene needed that are designated as their responsibility, the contractor is not responsible for the continuation of pest problems.

2. **Respond to new or emergency pest management requests within 24 hours** of service call. If the CONTRACTOR technician is not available at a time of emergency, the service request shall be routed to other available technicians based on proximity and experience with the pest(s).

3. **Reduce pest populations** at sites designated by the Facilities Supervisor that have historically had regular pest problems requiring monthly service with the goals of:
   - reducing the frequency and severity of pest problems using IPM strategies
   - reducing access and favorable conditions that support pests, and
   - reducing the need for chemical pest control

4. **Pest Monitoring**
   a. Services shall be provided monthly to all sites except as listed Exhbit "B" and shall be divided into four groups so that a CONTRACTOR technician shall be in a City of Palo Alto building every week. Requests for services that fall between the scheduled monthly visits shall be handled during the technician's weekly visit to City of Palo Alto locations, unless otherwise directed.
   b. Upon request, during the CONTRACTOR technician's visit to the service site they shall refer to the pest sighting log book for reports of pest activity. If there is a report in the log book, the technician shall contact the reporting person for more information if necessary and then proceed to identify:
      1. The extent of the infestation
      2. The control options that are most appropriate to the specific location of pest(s) occurring
      3. The conditions conducive to the pest(s)
      4. If the technician can treat the pest using a non-chemical method they shall carry out the treatment or make arrangements with the necessary building staff to do so. If necessary, the technician shall make a follow-up visit prior to the next monthly service to evaluate the effectiveness of the treatment.

      If there is not a report in the log book, the technician will inspect the premises and identify:
      1. If there is evidence of pest activity
      2. If present pest(s) necessitate a treatment
      3. The conditions conducive to the pest(s)
      4. The control options available to this specific site and pest(s)

   c. All service records will be signed and dated by the site contact and kept on site and/or in the Pest Sighting Log Book so they may be reviewed.

5. **Track pest management and pesticide use.** The following records must be kept and procedures followed while servicing these sites:

a. EcoWise Certified Inspection Report and Needed Repairs (Attachment BB) Copies of inspection records and repair recommendations must be provided to site manager and Facility Supervisor after each site visit. With the approval of the IPM Coordinator, the contractor's own reporting forms may be used if the same criteria as the City's are used.
b. ***Contractor Pesticide Application Form*** (see Section C7 "Requirements" for instructions). This information is critical as the City tracks information about non-chemical control methods and many aspects of pesticide use in order to reduce the most toxic pesticides and volume of pesticides used. The contractor must also have Internet access and the ability to enter pesticide use information on-line if the City provides that reporting mechanism.

6. Uniforms and Equipment

All personnel, while working in or on government-owned or leased premises, shall have at a minimum the Contractor's company name easily identifiable, affixed thereon in a permanent or semi-permanent manner on vehicles and uniforms. Additional personal protective equipment, required by State Law for the safe performance of work, must be determined and provided by the Contractor. Vehicles used by the Contractor must be clearly marked and identified in accordance with State and local regulations.

7. Requirements

a. The contractor: must currently be certified by *EcoWise Certified* as an IPM Service Provider OR meet program's current requirements. EcoWise is a project of the Association of Bay Area Governments (see www.ecowisecertified.org). **An equivalent certification may be negotiated** by the contractor and IPM Coordinator if the City or contractor wish to use a different certification program.

b. The contractor must provide regular pesticide reporting information in electronic format using the City's *Contractor Pesticide Application Form* (**Microsoft Excel**) to be provided after the proposal is awarded. The Excel file must be **emailed** to the City's IPM Coordinator: julie.weiss@cityofpaloalto.org by the 15th of each month for the previous month's work or as otherwise approved by the IPM Coordinator. The contractor must also have Internet access and the ability to enter pesticide use information on-line if the City provides that reporting mechanism.

c. The contractor must be in compliance with all federal, state, and local pest control operator requirements and regulations and maintain current licenses.

i. Firm must be a registered structural pest control company in the State of California.
ii. At least one supervisor of onsite operations must possess a valid Structural Pest Control Operators license for Branch 2 (General Structural Pests).

iii. All onsite staff must possess, at least, valid Structural Pest Control Applicator certification and/or Qualified Applicator Certificates.
iv. Firm must demonstrate five (5) years minimum experience with industrial, commercial, and institutional accounts immediately preceding a submission of RFP.
v. Four (4) verifiable references must be provided.
vi. All onsite supervisors must possess, at least, valid Structural Pest Control Field Representative Licenses for Branch 2.

Attachment AA

Pyrethroid Active Ingredients

Allethrin
Beta-Cyfluthrin
Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
d-trans allethrin
Esbiothrin
Esfenvalerate
Lambda-Cyhalothrin
Permethrin
Phenothrin
Prallethrin
Resmethrin
s-Bioallethrin
Sumithrin
Tau-Fluvalinate
Tetramethrin
Tralomethrin

Attachment BB

(1 of 2 pages)

EcoWise Certified Inspection Report and Needed Repairs

Date: _____EcoWise Certified IPM Practitioner: _____

Customer Contact: _____

☐ Facilities Supervisor ☐ Site Contact ☐ Site Manager ☐ Other

(If not already on record) Work Ph: _____ Cell: _____
Pager: _____

Building Name/Address: _____

Pest(s), or pest evidence observed: ☐ Ants ☐ Bedbugs ☐ Bees ☐ Birds ☐ Cockroaches ☐ Fleas ☐ Flies ☐ Mice ☐ Rats ☐ Spiders ☐ Stored Product Pests ☐ Other

Number of pests/extent of damage:

PCO	Facilities	Site Manager.	**Pest exclusion work needed** (note location in or around the building in space after item and suggested point person):	
☐	☐	☐	1. Seal holes in wall around pipes, cables, and wires	☐Inside ☐Outdoors
☐	☐	☐	2. Seal cracks and crevice with caulk or paint	☐Inside ☐Outdoors
☐	☐	☐	3. Seal other holes 1/4" or larger	☐Inside ☐Outdoors
☐	☐	☐	4. Screen drains	☐Inside ☐Outdoors
☐	☐	☐	5. Cap drains	
☐	☐	☐	6. Inside doors: ☐Repair ☐Replace ☐Weather-strip ☐Add kickplate ☐Add door sweep ☐Other _____	
☐	☐	☐	7.Outside doors: ☐Repair ☐Replace ☐Weather-strip ☐Add kickplate ☐Add door sweep ☐Other_____	
☐	☐	☐	8. Windows: ☐Repair ☐Replace ☐Weatherstrip ☐Screen ☐Other	
☐	☐	☐	9. Cover air vents with ¼" hardware cloth	
☐	☐	☐	10. Seal/repair air conditioning units	
☐	☐	☐	11. Repair roof	

☐ ☐ ☐ 12. Move compost into rodent proof container

☐ ☐ ☐ 13. Keep tight-fitting lids on garbage cans and dumpsters

☐ ☐ ☐ 14. Store grass seed and birdseed in rodent-proof containers

☐ ☐ ☐ 15. Store human and pet food in pest-proof containers/perishables in refrigerator

☐ ☐ ☐ 16. Store rodent nesting material (fabric, paper, rug scraps, insulation) in rodent-proof containers

Notes:

General conducive conditions to be corrected (Note location in space after item):

☐ ☐ ☐ 17. Fix leaky plumbing ☐Inside ☐Outdoors

☐ ☐ ☐ 18. Correct excessive moisture problems, specifically

☐ ☐ ☐ 19. Eliminate standing water

☐ ☐ ☐ 20. Improve drainage

☐ ☐ ☐ 21. Remove clutter, esp. near sinks, stoves, & refrigerators

Notes:

☐PCO ☐Facilities ☐Site Manager.

Pest exclusion work needed (note location in or around the building in space after item):

☐ ☐ ☐ 22. Bring order to storage rooms/closets/garage/storage shed

☐ ☐ ☐ 23. Store items off the ground and 18" away from wall

☐ ☐ ☐ 24. Dispose of insect- or rodent-infested goods

☐ ☐ ☐ 25. Remove debris, lumber or rock piles

☐ ☐ ☐ 26. Remove debris from roof/gutters

☐ ☐ ☐ 27. Move firewood as far as possible from structure

☐ ☐ ☐ 28. Cut grass or weeds

☐ ☐ ☐ 29. Remove fallen fruit or nuts

☐ ☐ ☐ 30. Remove pet food after pets have finished

☐ ☐ ☐ 31. Remove pet waste

☐ ☐ ☐ 32. Remove spilled birdseed

☐ ☐ ☐ 33. Cut vegetation back from building walls at least 18"; leave a clear border around foundation

☐ ☐ ☐ 34. Remove ivy or other vines from sides of buildings or nearby trees

☐ ☐ ☐ 35. Trim back tree branches 3' to 6' from building

☐ ☐ ☐ 36. Trim, treat, or remove vegetation harboring honeydew-producing insects (aphids, scales, mealy bugs)

Notes:

Sanitation

☐ ☐ ☐ 37. Improve cleanliness of __break room(s) __equipment __appliance drip pans __garbage cans __floors __floor drains __sink drains __counters __dumpsters __area around dumpster __elevator pit __recycling area __other/notes:

☐ ☐ ☐ 38. Empty indoor trash cans at end of every day; if trash cannot be emptied, tie knot in liner at end of day

☐ ☐ ☐ 39. Store mops and brooms off floor on racks

☐ ☐ ☐ 40. Remove food from employee desks/store in pest proof containers

☐ ☐ ☐ 41. Other/Notes:

Communication with Customer

☐ Discussed inspection findings with site manager

☐ Discussed customer's pest tolerance level that triggers treatment

☐ Discussed treatment options with site manager

☐ Discussed responsibilities of technician and site manager

☐ Referred repairs to Facilities Supervisor

☐ Gave customer fact sheets or other educational materials (list):

☐ Discussed possible outcomes of treatment methods, how long they will take, what to expect

Notes:

Signed_____, EcoWise Certified IPM Practitioner

☐ Copy sent/given to Facilities Supervisor Date_____

☐ Copy sent/given to Site Manager Date_____

Attachment CC

City of Palo Alto IPM Policy

The City of Palo Alto will carry out its pest management operations using reduced-risk IPM techniques to reduce or eliminate chemicals to the maximum extent. Chemicals will be used only as a last resort for pest management problems. Each division that applies pesticides will maintain an active IPM plan to ensure the long-term prevention or suppression of the pest problems with minimum negative impact on human healthy, non-target organisms, and the environment.

The City will actively pilot non-toxic alternatives for structural and landscape pest control, seeking to use the most recent technology, best management practices and least toxic methods for all pest control measures.

EXHIBIT "B"
SCHEDULE OF PERFORMANCE

CONSULTANT shall perform the Services so as to complete each milestone within the number of days/weeks specified below. The time to complete each milestone may be increased or decreased by mutual written agreement of the project managers for CONSULTANT and CITY so long as all work is completed within the term of the Agreement. CONSULTANT shall provide a detailed schedule of work consistent with the schedule below within 2 weeks of receipt of the notice to proceed.

Milestones	Level of Service No. of Visits per Year
1. Fire Station #2	Monthly
2. Fire Station #3	Monthly
3. Fire Station #4	Monthly
4. Animal Services	Monthly
5. Children's Theater	Monthly
6. Cubberley Center	Monthly
7. Art Center	Monthly
8. MSC-B	Monthly
9. Golf Course Maintenance	Monthly
10. Main Library	Monthly
11. Mitchell Park Library	Monthly
12. Utility Control Center	Quarterly
13. Elwell Court	Monthly
14. Lucie Stern Center	Monthly
15. Regional Water Quality Control Plant	Monthly

EXHIBIT "C"
COMPENSATION

The CITY agrees to compensate the CONSULTANT for professional services performed in accordance with the terms and conditions of this Agreement based on the hourly rate schedule attached as Exhibit C-1.

The compensation to be paid to CONSULTANT under this Agreement for all services described in Exhibit "A" ("Services") shall not exceed $35,000 per year for a potential of three years. In the event CITY authorizes any Additional Services, the maximum compensation shall not exceed $3,500 per year for work performed or expenses incurred for which payment would result in a total exceeding the maximum amount of compensation set forth herein shall be at no cost to the CITY.

ADDITIONAL SERVICES

The CONSULTANT shall provide additional services only by advanced, written authorization from the CITY. The CONSULTANT, at the CITY's project manager's request, shall submit a detailed written proposal including a description of the scope of services, schedule, level of effort, and CONSULTANT's proposed maximum compensation, including reimbursable expenses, for such services based on the rates set forth in Exhibit C-1. The additional services scope, schedule and maximum compensation shall be negotiated and agreed to in writing by the CITY's Project Manager and CONSULTANT prior to commencement of the services. Payment for additional services is subject to all requirements and restrictions in this Agreement.

EXHIBIT "C-1"
HOURLY RATE SCHEDULE

1. Fire Station #2	$115 / Month
2. Fire Station #3	$115 / Month
3. Fire Station #4	$115 / Month
4. Animal Services	$115 / Month
5. Children's Theater	$115 / Month
6. Cubberley Center	$250 / Month
7. Art Center	$115 / Month
8. MSC-B	$50 / Month
9. Golf Course Maintenance	$115 / Month
10. Main Library	$115 / Month
11. Mitchell Park Library	$115 / Month
12. Utility Control Center	$125 / Quarter
13. Elwell Court	$115 / Quarter
14. Lucie Stern Center	$115 / Month
15. Regional Water Quality Control Plant	$250 / Month
16. On-Call Service (within 5 business days)	$125 / Hour
17. Emergency Services (within 24 hours)	$125 / Hour
18. Training and Consultation Services	$0 / Hour

EXHIBIT "D"
INSURANCE REQUIREMENTS

CONTRACTORS TO THE CITY OF PALO ALTO (CITY), AT THEIR SOLE EXPENSE, SHALL FOR THE TERM OF THE CONTRACT OBTAIN AND MAINTAIN INSURANCE IN THE AMOUNTS FOR THE COVERAGE SPECIFIED BELOW, **AFFORDED BY COMPANIES WITH AM BEST'S KEY RATING OF A-:VII, OR HIGHER, LICENSED OR AUTHORIZED TO TRANSACT INSURANCE BUSINESS IN THE STATE OF CALIFORNIA.**

AWARD IS CONTINGENT ON COMPLIANCE WITH CITY'S INSURANCE REQUIREMENTS, AS SPECIFIED, BELOW:

REQUIRED	TYPE OF COVERAGE	REQUIREMENT	MINIMUM LIMITS	
			EACH OCCURRENCE	AGGREGATE
YES YES	WORKER'S COMPENSATION EMPLOYER'S LIABILITY	STATUTORY STATUTORY		
YES	GENERAL LIABILITY, INCLUDING PERSONAL INJURY, BROAD FORM PROPERTY DAMAGE BLANKET CONTRACTUAL, AND FIRE LEGAL LIABILITY	BODILY INJURY PROPERTY DAMAGE BODILY INJURY & PROPERTY DAMAGE COMBINED.	$1,000,000 $1,000,000 $1,000,000	$1,000,000 $1,000,000 $1,000,000
YES	AUTOMOBILE LIABILITY, INCLUDING ALL OWNED, HIRED, NON-OWNED	BODILY INJURY - EACH PERSON - EACH OCCURRENCE PROPERTY DAMAGE BODILY INJURY AND PROPERTY DAMAGE, COMBINED	$1,000,000 $1,000,000 $1,000,000 $1,000,000 $1,000,000	$1,000,000 $1,000,000 $1,000,000 $1,000,000 $1,000,000
	PROFESSIONAL LIABILITY, INCLUDING, ERRORS AND OMISSIONS, MALPRACTICE (WHEN APPLICABLE), AND NEGLIGENT PERFORMANCE	ALL DAMAGES	$1,000,000	
YES	**THE CITY OF PALO ALTO IS TO BE NAMED AS AN ADDITIONAL INSURED**: CONTRACTOR, AT ITS SOLE COST AND EXPENSE, SHALL OBTAIN AND MAINTAIN, IN FULL FORCE AND EFFECT THROUGHOUT THE ENTIRE TERM OF ANY RESULTANT AGREEMENT, THE INSURANCE COVERAGE HEREIN DESCRIBED, INSURING NOT ONLY CONTRACTOR AND ITS SUBCONSULTANTS, IF ANY, BUT ALSO, WITH THE EXCEPTION OF WORKERS' COMPENSATION, EMPLOYER'S LIABILITY AND PROFESSIONAL INSURANCE, **NAMING AS ADDITIONAL INSUREDS CITY, ITS COUNCIL MEMBERS, OFFICERS, AGENTS, AND EMPLOYEES.**		

I. INSURANCE COVERAGE MUST INCLUDE:

A. A PROVISION FOR A WRITTEN THIRTY DAY ADVANCE NOTICE TO CITY OF CHANGE IN COVERAGE OR OF COVERAGE CANCELLATION; AND

B. A CONTRACTUAL LIABILITY ENDORSEMENT PROVIDING INSURANCE COVERAGE FOR CONTRACTOR'S AGREEMENT TO INDEMNIFY CITY.

C. DEDUCTIBLE AMOUNTS IN EXCESS OF $5,000 REQUIRE CITY'S PRIOR APPROVAL.

II. CONTACTOR MUST SUBMIT CERTIFICATES(S) OF INSURANCE EVIDENCING REQUIRED COVERAGE.

III. ENDORSEMENT PROVISIONS, WITH RESPECT TO THE INSURANCE AFFORDED TO "ADDITIONAL INSUREDS"

A. <u>PRIMARY COVERAGE</u>

WITH RESPECT TO CLAIMS ARISING OUT OF THE OPERATIONS OF THE NAMED INSURED, INSURANCE AS AFFORDED BY THIS POLICY IS PRIMARY AND IS NOT ADDITIONAL TO OR CONTRIBUTING WITH ANY OTHER INSURANCE CARRIED BY OR FOR THE BENEFIT OF THE ADDITIONAL INSUREDS.

B. <u>CROSS LIABILITY</u>

THE NAMING OF MORE THAN ONE PERSON, FIRM, OR CORPORATION AS INSUREDS UNDER THE POLICY SHALL NOT, FOR THAT REASON ALONE, EXTINGUISH ANY RIGHTS OF THE INSURED AGAINST ANOTHER, BUT THIS ENDORSEMENT, AND THE NAMING OF MULTIPLE INSUREDS, SHALL NOT INCREASE THE TOTAL LIABILITY OF THE COMPANY UNDER THIS POLICY.

C. NOTICE OF CANCELLATION

1. IF THE POLICY IS CANCELED BEFORE ITS EXPIRATION DATE FOR ANY REASON OTHER THAN THE NON-PAYMENT OF PREMIUM, THE ISSUING COMPANY SHALL PROVIDE CITY AT LEAST A THIRTY (30) DAY WRITTEN NOTICE BEFORE THE EFFECTIVE DATE OF CANCELLATION.

2. IF THE POLICY IS CANCELED BEFORE ITS EXPIRATION DATE FOR THE NON-PAYMENT OF PREMIUM, THE ISSUING COMPANY SHALL PROVIDE CITY AT LEAST A TEN (10) DAY WRITTEN NOTICE BEFORE THE EFFECTIVE DATE OF CANCELLATION.

NOTICES SHALL BE MAILED TO:

PURCHASING AND CONTRACT ADMINISTRATION
CITY OF PALO ALTO
P.O. BOX 10250
PALO ALTO, CA 94303

Appendix 10-1

C.10.d City of Palo Alto Recycling Guide

DETAILED MATERIAL GUIDE RESIDENTS

greenwaste of palo alto
650.493.4894

RECYCLABLES- Please place all recyclable materials in your blue recyclables container.
Contents of cart cannot exceed weight limit of 200 lbs. All items must fit inside the recyclables container with the lid closed.

METAL

- Aerosol cans *(empty, non-hazardous)*
- Appliances, small metal (e.g., toaster, blender)
- Building materials (e.g., metal, plumbing fixtures)
- Cans (e.g., food, beverage, pet food)
- Foil, foil trays, pans
- Furniture
- Hardware (e.g., keys, nails, screws)
- Household items (e.g., pots, pans, trays, utensils)
- Lids, caps
- Lighting fixtures
- Paint cans *(empty, no excessive residue)*
- Pipe
- Scrap metal
- Sporting goods
- Toys
- Tools
- Trays
- Umbrellas

PAPER (staples, tape okay)

- Bags (e.g., white, colored, non-metalic)
- Books (e.g., hard/soft cover, telephone)
- Boxes (e.g., cereal, cracker, tissue, shoe, mailing)
- Carbonless (e.g., receipts)
- Cardboard *(flatten, unwaxed)*
- Catalogs
- Colored, white, glossy
- Egg cartons
- Envelopes (e.g., Fed-Ex, UPS, plastic window okay)
- Frozen food packaging
- Junk mail
- Magazines
- Manila folders
- Newspaper *(inserts okay)*
- Non-metalic wrapping, tissue paper
- Paper ream wrappers
- Photographs
- Self-stick notes
- Shredded paper *(tie in a clear plastic bag)*

GLASS (clear and colored, except blue and red)

- Bottles
- Jars

FILM PLASTICS (Please place inside a clear plastic bag and knot the top of the bag)

- Bags (e.g., bread, dry clean, grocery, newspaper, produce, merchandise, zip lock)
- Bubble wrap
- Case wrap (e.g., beverage container, snack flats)
- Liners (e.g., cereal box)
- Pallet/shrink wrap
- Plastic packaging wrap (e.g., wrap from toilet paper, napkins, paper towels, diapers)
- Shipping envelopes *(labels removed)*

PLASTICS (all types, with or without a number) Note: Polystyrene aka Styrofoam® is NOT accepted

- Auto parts *(small)*
- Bottles (e.g., beverage, laundry and household cleaners, personal care products, prescription)
- Baskets
- Buckets
- Cartridges (e.g., toner, ink jet, printer)
- Coolers
- Computer housing
- Crates
- Drums
- Lids
- Flower pots
- Food containers (e.g., cottage cheese, margarine, yogurt, take-out)
- Pet carriers
- Pipe *(non-PVC)*
- Product packaging
- Shelving
- Toys (e.g., pools, play structures)
- Trays

ELECTRONICS (anything with a computer chip) Note: Televisions and computer monitors NOT accepted

- Appliances (e.g., coffee maker, microwave oven)
- Camera
- Calculator
- Cell phone *(inside clear tear-resistant bag)*
- Computer (e.g., desk top, lap top)
- Computer mouse, cables
- Fax machine
- Home entertainment (e.g., game system, DVR, VCR, stereo, radio)
- Keyboard
- Pager
- PDAs
- Printer
- Scanner

DETAILED MATERIAL GUIDE RESIDENTS

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650.493.4894

YARD TRIMMINGS- Please place all yard trimmings in your green yard trimmings container.
Contents of cart cannot exceed weight limit of 200 lbs. All items must fit inside the yard trimmings container with the lid closed.

ACCEPTABLE ITEMS include:

- Branches, stumps*
- Flowers
- Grass clippings
- Holiday trees**
- Leaves
- Lumber***
- Plants, shrubs
- Sawdust***
- Wood chips***
- Wood waste***

Not Accepted (Place in garbage): Animal waste, bamboo, cactus, dirt, flax, ivy, painted or treated wood, palm, pampas grass, poison oak, sod, stable bedding, yucca

*Branches must be less than 6 inches in diameter and shorter than 4 feet in length.
**Undecorated, unflocked, remove stands, tinsel and decorations. Tree sections must not exceed 4 feet in length.
*** Must be untreated/unpainted to be considered accepted in the yard trimmings section.

WASTE REDUCTION/ZERO WASTE- It is the goal of GreenWaste of Palo Alto to help the Palo Alto community reduce the amount of waste that is landfilled! Palo Alto has a goal of zero waste to landfills by 2021. Zero waste goes beyond recycling by taking a whole systems approach to managing the flow of resources. For more information on how to help Palo Alto reach zero waste, please visit www.cityofpaloalto.org/zerowaste.

Reduce: Many materials that end up in the garbage start at the store. When shopping for groceries or other products, please do your part to prevent waste by selecting items that have minimal packaging and bring your own reusable bags.

Reuse: A significant portion of garbage in the waste stream is generated by using disposable products that could be replaced with reusable items, integrate reusable items into everyday activities such as using reusable containers when bringing food or drinks to work.

Recycle: Materials that have historically been garbage may now be recyclable!

Donate: Items that are in good condition and are no longer useful to you may be donated to thrift stores, consignment shops, antiques stores and nonprofit groups. Find a second home for items that were once your treasure by contacting a local organization that accepts donated items for reuse. Please contact customer service at (650) 493-4894 or visit www.greenwaste.com/paloalto for a list of local reuse organizations. The list below includes commonly donated items that are accepted by local organizations:

- Art & craft supplies
- Bikes
- Books
- Speakers
- Audio CD's
- Carpet & rugs
- China/porcelain
- Dishes & utensils
- Desks
- Eyeglasses
- Furniture
- Household items
- Jewelry
- Linens
- Mirrors
- Musical instruments
- Pots & pans
- Shoes
- Small appliances (e.g., hair dryers, coffee makers, telephones, etc.)
- Sporting goods

Goodwill Industries
4085 El Camino Way
Palo Alto, CA 94306
Tel: (650) 494-1416

Salvation Army
Tel: 1-800-SA-TRUCK (728-7825)

Friends of Palo Alto Library
Tel: (650) 213-8755

DETAILED MATERIAL GUIDE RESIDENTS

greenwaste of palo alto
650.493.4894

GARBAGE- Please place all NON-reusable, NON-recyclable, NON-compostable and NON-Hazardous items in your garbage container.
Contents of cart cannot exceed weight limit of 200 lbs. All items must fit inside the garbage container with the lid closed

COMPOSITE MATERIALS
- Aseptic containers (e.g., juice boxes, soy milk)
- Foil wrapped beverage pouches (e.g., Capri Sun®)
- Photographs - Polaroid

PAPER
- Carbon paper
- Padded envelopes
- Newspaper *(dirty w/ paint, pet waste or food/grease)*
- Stickers *(in sheets or rolls)*
- Thermal fax paper

GLASS
- Ceramics
- Cookware- glass (e.g., Pyrex™)
- Dishware
- Mirrors
- Windows

PLASTIC
- Disposable razors
- Hoses (e.g., car, garden)
- Rubber bands
- Tarps
- Toothpaste & ointment tubes
- Webbing/mesh from lawn furniture

EXPANDED POLYSTYRENE (Styrofoam®)
- Cups and plates
- Egg cartons - molded foam
- Foam packing (e.g., blocks)
- Meat trays
- Packing "peanuts"

HOUSEHOLD HAZARDOUS WASTE-

These items cannot go into the garbage, recycling or compostables container for collection. For additional information on proper disposal, contact the City's Hazardous Waste Program at (650) 496-6980.

- Auto fluids *(all except motor oil)*
- Brake fluid
- Car batteries
- Cleaning fluids
- Compact fluorescent lights (CFL)
- Fire extinguishers
- Fluorescent light bulbs *(tube)*
- Mercury thermometers & thermostats
- Motor oil mixed with antifreeze
- Paints
- Pesticides & fertilizers
- Pool & spa chemicals
- Prescription drugs (no controlled substances)
- Propane tanks (BBQ or camp stove only)
- Sharps & syringes
- Solvents
- Transmission fluid

Household Hazardous Waste ACCEPTED at the curb:
Used Motor Oil, Oil Filters and Household Batteries. To recycle motor oil and oil filters at curbside, you must use FREE GreenWaste issued oil jugs and filter bags because they are designed to prevent leaks. To recycle household batteries, such as AA, AAA, D or Nickel Cadmium put inside a sealed clear tear-resistant bag and place next to your recycling container. Place filled oil jugs and filter bag on curb near your recycling cart for collection. Oil mixed with antifreeze, transmission fluid, or any other automotive fluid will not be collected. To order FREE oil jugs, filter bags and battery bags, please contact Customer Service Department (650) 493-4894.

OTHER STUFF

Large Item Collection: You can have bulky items, such as sofas, refrigerators, televisions or tires picked up at your curb for a small fee. To schedule a pick up appointment please contact Customer Service Department 48 hours before your next scheduled pick up day.

Extra Services: Please contact Customer Service Department at (650) 493-4894 to arrange for extra pick up of garbage or to order a debris box.