

**CITY
OF
FOSTER CITY**

PARKS DEPARTMENT

**IPM
MANUAL**

PREAMBLE

City of Foster City Parks Department IPM AN INTEGRATED PEST MANAGEMENT PLAN

What is IPM? Integrated pest management (IPM) is an ecosystem-based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Pesticides are used only after monitoring indicates they are needed according to established guidelines, and treatments are made with the goal of removing only the target organism. Pest control materials are selected and applied in a manner that minimizes risks to human health, beneficial and nontarget organisms, and the environment

The Objective:
City of Foster City
IPM A Decision Making Process

The Strategies:
City of Foster City

1. Reduce the pesticide load in the environment
2. Increase the predictability and thereby the effectiveness of pest control techniques
3. Develop pest control programs that are economically, environmentally, and socially acceptable
4. Marshal agencies and disciplines into integrated pest management programs
5. Increase utilization of natural pest controls.

The Tactics:
City of Foster City

1. Planned reduction of chemicals through alternative options, Section B, page 7
2. Town wide education by way of CDPR's web site, IPM
3. Adherence to the IPM manual and practices, Section A, all
4. Incorporate the use of outside training programs and effective use of the Town's IPM provider
5. Resource and out source of latest controls available, Section B, pages 2 – 11

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Introduction

1.0 Introduction

In recent years, the use of pesticides in the urban environment has become an increasingly sensitive issue. Public concerns regarding human and environmental health have led to a shift in policy for many government agencies responsible for managing pests in the course of providing community services.

IPM Protocols adopted by The City of Foster City in 2004, requires that the City departments and City contractors who apply pesticides to City property, eliminate or reduce pesticide applications to the maximum extent feasible.

To reduce pesticide use to the maximum extent feasible, The City of Foster City has adopted the concept of Integrated Pest Management (IPM) as a viable means of controlling pest related problems while reducing pesticide usage. The fundamental concept of IPM is to implement habitat changes that disrupt the life cycle, breeding cycle, feeding cycle, and predator/prey relationships of the target pest.

The goal of IPM policy is to develop a systematic course of action to prevent pest infestations and to manage pests successfully while minimizing the risks of pesticide exposures to humans and the environment. This program will focus on all aspects of pest management such as pesticide use reduction, monitoring, notification, record-keeping, and training.

Plan Implementation

2.0 Plan Implementation:

The City of Foster City has designated a small group of trained employees to implement the IPM program. The group consists of Maintenance personnel, Environmental staff, and private contractors. These people will meet on a regular basis and work together to implement the IPM Plan.

2.1 IPM Coordinator:

The role of the IPM coordinator is to act as the liaison between the City of Foster City and the City of Foster City's tenants. This person will attend workshops and disseminate information to the site managers and the Public regarding IPM and pesticide use practices in the City of Foster City.

2.2 Site Manager;

The site manager will be designated for the Districts managed facility or property. This is the person that employees will contact when pest problems arise. Site Managers will be trained by the IPM Coordinators and will meet regularly to discuss pest control issues. The site manager will submit pesticide uses reports and other related documents to the IPM Coordinator.

2.3 IPM Service Providers:

The gardener of responsibility (designated) for the City of Foster City will be considered the main IPM Service Provider because this person is the primary applicator of pesticides on Foster City's property.

The IPM Service Provider will also be responsible for completing and submitting required forms to the Department of Agriculture Weights and Measures that detail information on pesticide applications, if required. This person will also be the main observer of pest problems on the City of Foster City's property and will keep the IPM Coordinator and Site Manager informed of pending pest problems.

The City of Foster City has contracted with an IPM consultant, **CIR**, to provide technical assistance on implementation of the IPM plan within the maintenance facility. **CIR** provides training to the gardener(s) in pest identification and control methods. Independent pest applicators may be contracted by our tenants to apply pesticides on City property. We have incorporated language in our lease, if said leases exist, that requires tenants to contract only with licensed IPM providers. All new and renewed leases will contain this requirement.

Pest Identification and Habitat

3.0 Pest Identification and Habitat

Section 3.1 Habitat

The City of Foster City maintains approximately 150 acres of developed parks and 8 miles of levees. Among this property is a variety of different landscapes ranging from well structured parks to open fields. Each area has an acceptable level of damage from pests that it can sustain while maintaining aesthetics for the intended land use function. The aesthetics tolerances are classified as "High", "Medium", and "Low", with "High" being able to sustain the greatest amount of damage and "Low" being able to sustain the least amount of damage.

Plants

Section 3.2 Plants

Weeds and grasses represent most of the 'pests' on the City of Foster City's property, and they need to be controlled through the use of herbicides or best practices at this immediate time [01/01/2004]. Efforts have been made to reduce herbicide usage by applying herbicides at the most vulnerable point in the plants growth cycle. The City of Foster City is also experimenting with changing soil conditions to discourage growth of certain wood-stalk weeds such as fennel. Table 3.2 lists the common weeds and plants considered to be pests in the City of Foster City.

Table 3.2 Plant Pests > City of Foster City

Grasses	Perennial Weeds	Annual Weeds
Bermuda Grass	Convolvulus arvensis	Dandelions
Annual Bluegrass	Fennel	Mallow
Nutsedge	Wire Weed	Clovers
Kentucky Bluegrass	Pig Weed	Milkweed
	Wood Sorrell	Curly Dock Weed
	Ivy	Foxtails
	Blackberry	Spurge
		Crabgrass

Section 3.3 Animals

The City of Foster City does not conduct extensive animal pest control at this time. Physical barriers and good housekeeping are the methods of choice for controlling most animal pest populations. On occasion, baits and traps may be needed to reduce certain pest populations such as rats and mice. Physical barriers and good house keeping are the methods of choice for reducing infestations. Insecticide soaps and some sprays may be needed to control certain insect populations from time to time. Table 3.3 lists the common 'animal' pests found in the City of Foster City.

Table 3.3 Animal Pests >City of Foster City:

Insects	Birds	Mammals	Microorganisms
Aphids	Pigeons	Rats	Mold
Snails	Gulls	Mice	Mildew
White Fly		Gophers	Fungi
Yellow Jackets		Moles	
Mites (sic)		Voles	
Ants			
Cockroaches			
Termites			

Approved Pesticides and Non-Pesticide Alternatives

4.0 Approved Pesticides and Non-Pesticide Alternatives

Effective 01 January 2004, The City of Foster City shall discontinue use of any Toxicity Category I Pesticides (as defined by U.S. EPA in 40 CFR Section 156.10) or any pesticide containing a chemical identified by the state of California to cause cancer¹ or reproductive ¹ pursuant to California Safe Drinking Water and Toxic Enforcement Act of 1986. The City of Foster City shall also ban any pesticide classified as a human carcinogen¹ by the United States Environmental Protection Agency, Office of Prevention, Pesticides and Toxic Substances. Exemptions for pesticide use may be made pursuant to Section 39.8 of the pesticide ordinance. Category I pesticides are denoted with the word "DANGER / POISON" on the product label.

Effective 01 January 2005, The City of Foster City shall discontinue use of any Toxicity Category II¹ Pesticide (as defined by U.S. EPA in 40 CFR Section 156. 10). Exemptions for pesticide use may be made pursuant to Section 39.8 of the pesticide ordinance. Category II pesticides are denoted with the word "WARNING" on the product label.

Effective 01 January 2006 The City of Foster City shall reduce¹ the use of one or more pesticides not banned under Section 39.3 or 39.4(a) by one hundred percent (100%) the cumulative volume of such pesticides that it used in 2001. Exemptions for pesticide use may be made pursuant to Section 39.8 of the pesticide ordinance. Category III pesticides are denoted with the word "CAUTION" on the product label.

Table 4.1

Currently, The City of Foster City only applies Toxicity Category II and III pesticides.

Category III Pesticides:
Applied by the City of
Foster City

Chemical Name	Type	Target Pest	Annual Usage
Round-up Pro	Herbicide	Grasses/Annual	
Surflan AS	Pre-Emergent	Ann & Perm. Weeds	
Safer Insecticide	Insecticide Soap	Aphids	
Buffer Plus	Spreader Adjuvant	Not applicable	
Stik	Spreader Adjuvant	Not applicable	
Glystar	Herbicide	Label Listed	
Rodeo	Herbicide	Aquatics	

Monitoring

5.0 Monitoring

It is essential to perform thorough and consistent monitoring of pests to ensure the success of IPM. Monitoring provides quantitative data on pest populations and whether the current IPM approach is effective. If the results from the monitoring indicate that the current IPM method is not effective, adjustments can be made to increase the success of IPM before a complete pest invasion occurs.

5.1 Responsibilities

The person responsible for monitoring pest populations will be the gardener (IPM Service Provider). This person is responsible for pesticide applications and regularly visits all areas where pesticides are or were being applied in the City of Foster City. Monitoring will consist of a series of quantitative measures of pests or evidence of pests per unit area. For example, if a lawn contained a species of crab grass, the gardener would measure an area and estimate the percentage of that area that contained this species of crab grass. The gardener would then apply IPM techniques and conduct follow-up evaluations using the same sized area to determine if the crab grass population is increasing or decreasing. The IPM program can be modified based on objective observations and statistics rather than conjecture. If the pests or evidence of pest(s) is/are found in the work place by employees or tenants, they can report it to the Site Manager. Non-poisonous traps, such as sticky traps or trap doors, may be used to catch pests for identification and monitoring purposes.

The IPM Service Provider will be responsible for completing and submitting the necessary monitoring and pesticide usage forms (see Appendixes) to the Site Manager.

Training

6.0 Training

Employee training is an important part of a successful IPM plan. Since IPM is a relatively new field of study, there is a steady flow of new information coming from researchers and academia that may be useful in the City of Foster City IPM plan. The most effective way for the people involved in IPM to obtain this information is through constant training, periodical review, and meetings with other IPM practitioners. The City of Foster City will provide the time and the resources to the employees for the purpose of training.

6.1 IPM Coordinator:

This individual should attend all of the meetings and training sessions sponsored by the Department of Agriculture or other accredited courses. This person should also attend seminars or training offered by other sources that directly relates to IPM theory, methods or special topics that may be useful in maintaining the IPM program for the City of Foster City. The IPM Coordinator will in turn be responsible for disseminating acquired information to the Site Managers and providing training to other grounds employees of Foster City. The IPM Coordinator should gather information from training courses and update the IPM plan on an annual basis.

6.2 Site Manager:

This individual should attend general IPM training presented by associations providing IPM training. This person should also attend seminars or training offered by other

sources that directly relates to IPM theory, methods or special topics that may be useful in maintaining the IPM program for the City of Foster City.

6.3 IPM Service Provider:

This individual will attend technical training seminars on methods of IPM, application techniques, pest identification, and other related topics. The training may be offered by the Department of Agriculture, universities, private companies, or contractors. An independent IPM service Provider may be contracted to provide training to the City of Foster City's IPM Service Provider.

6.4 Maintenance Personnel:

This group of individuals will receive annual training developed by the IPM Coordinator and conducted by the maintenance supervisors. The training will be presented in a "tailgate" and cover basic IPM theory and the City of Foster City's IPM program. They will be encouraged to reduce pesticide use and to notify the IPM Coordinator before using any new pesticides.

Signage

7.0 Signage:

Uniform sign posting is required by the IPM Ordinance to notify the public and employees of the City of Foster City when and where pesticides are being applied to the City of Foster City property. Signs will be posted by the IPM Service Provider in accordance with the IPM Ordinance.

¹ **NOTE:** The signage will and must comply with the specific regulations of the California Department of Pesticide Regulation if operating on designated Non-Production Agriculture site. This legal requirement may be in contrast to the 'Safe Schools Act'.

7.1 Requirements:

7.1.1 Signs shall be posted at least one (1) day before the application of the pesticide and remain posted at least one (1) day after application of the pesticide¹.

7.1.2 Signs shall be posted (a) at every entry point where the pesticide is applied if the pesticide is applied in an enclosed area, and (b) in highly visible locations around the perimeter of the area where the pesticide is applied if the pesticide is applied in an open area.

7.1.3 Signs shall be of a standard design that is easily recognizable to the public and workers.

7.1.4 Signs shall contain the following information:

- a) the name of the chemical
- b) The EPA number
- c) The date of the posting
- d) The date for re-entry to the treated area(s)
- e) The name and contact number for the City of Foster City-

7.2 Exemptions:

7.2.1 The City of Foster City shall not be required to post signs in right of way locations that the general public does not use for recreational purposes. However, the City of Foster City has developed a public access telephone number that will provide information about pesticide applications in the right of way areas. The public access telephone number must be prepared to supply the same information as required in the postings for right of way areas with general public access. Information about the public access number will be managed by the Parks Department and shall be posted in the main lobby of the City of Foster City's public works office.

7.2.2 The City of Foster City. is not required to post signs in accordance with section 7.1 of this document in areas where baits are used. However, a permanent sign will be posted in each building or vehicle where pesticide baits are used on a continuous basis and in conspicuous locations when baits are used in out side areas. The permanent sign must contain the following information:

- a) The name of the chemical
- b) The EPA number
- c) The date of the posting
- d) The date for re-entry to the treated area(s)

City of Foster City

Signage

Chemical	
EPA Number	
Date of Posting	
Date for Re-Entry to the Treated Area	
<u>Note:</u> For Comments or Considerations, Please Contact:	

Tenant and Contractor Specifications

8.0 Tenant and Contractor Specifications:

Any contractor retained by the City of Foster City to apply pesticides on the City of Foster City's property must comply with the all requirements as stated in the IPM ordinance. Any new or renewed lease agreement(s) with a contractor as of 01 January 2004 will require the contractor to comply with the IPM Protocol when applying pesticides or contracting pest services. This requirement will be stated in the lease agreement as follows.

~~As of 01 January 2004, Tenant shall comply with provisions of Section 39.9 of Chapter 39 of the City of Foster City Administrative Code (the Pesticide Ordinance) which (i) prohibit the use of certain pesticides on City property, (ii) require the posting of certain notices and the maintenance of certain records regarding pesticide usage, and (iii) require Tenant to submit to the district an integrated pest management (IPM) plan that (a) lists, to the extent reasonably possible, the types and estimated quantities of pesticide the Tenant may need to apply to the premises during the terms of this Lease, (b) describe steps Tenant will take, to meet the City's IPM Policy described in section 39.1 of the Pesticide Ordinance, and (c) identifies, by name, title, address and telephone number, an individual to act as the Tenant's primary IPM contact person with the City. In addition, Tenant shall comply with the requirements of Sections 39.4(a) and 39.6(b) of the Pesticide Ordinance as of January 1, 2004 and January 1, 2005, respectively. Nothing herein shall prevent Tenant, through the City, from seeking a determination from~~

~~the Commission on the Environment that it is exempt from complying with certain portions of the Pesticide Ordinance as provided in Section 39.8 thereof.~~

Tenants will be notified in writing of their obligations to follow the IPM ordinance prior to resigning their rental lease agreement. Notices will be sent to the business owner approximately 2 months before the lease is up for renewal. A sample copy of the letter sent to tenants can be found in Section 9 Appendixes.