**Table of Pesticide Uses and Potential Organic Alternatives** 

Facility/Location	Pest of	Chemical	Product Overview	Pesticide	These products are part of a tool-box of alternatives, depending on the
Tuemey, Eocación	Concern	Products	Trouble Stellthew	Alternatives	target pest to be controlled.
Davids and Ones Coase	Concern	Troducts		Aiternatives	target pest to be controlled.
Parks and Open Space					
Open Space		Fusilade	Liquid spray application. Used to control grasses and grassy	Manual Weeding	A very effective way to remove weeds down to the root with no harmful side
Veterans Parkway			weeds in flower beds and ornamental planting areas.		effects to people and pets. To completely control weeds, this method can get
Joslyn/Scout House		Sedgehammer	Liquid spray application. Specifically targets nut weeds without		very expensive depending on the level of care desired. Difficult to control
City Hall Complex			killing turf.		weeds over large areas such as parks and ball fields.
Street Medians		Speedzone	Liquid spray application. Used to control broadleaf weeds in turf and planters; visible results in hours; used in spring time only.	Heat Applications	Boiling water, steam and torch guns are very effective at killing weeds.  However, the broad nature of the applications limits where they can be utilized.
Parks		Kaput-D and	Kaput D is a grain bait used in nearly all of the City's sports fields		They are best applied in the crevasses of hard surfaces where weeds are not
8th Street Parkette		Traps	to control gophers, although it has not been used anywhere in		desired, such as driveways, sidewalks and roadways.
Block 35 Park			over one year. It can be toxic to pets and wildlife that eat it, or	Corn Gluten Meal	Controls some but not all types of weeds; effective in gardens and on turf if
Bruce's Beach			that eat gophers who have ingested the product. This product is		applied directly on soil rather than turf; the area must be mist sprayed with
El Porto Parkette			a first-generation bait which is less likely to bio-accumulate in the		water directly after application and typically takes 2-3 applications for best
Larsson Parkette			food chain than second-generation baits. Once placed in a		results; not a good option for field tuft that needs to be over-seeded for turf
Live Oak Park			gopher hole, the hole is buried to prevent the product from	\( \text{\tinc{\text{\tin}\text{\tin\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\tex{\tex	density.
Marine Ave Park			coming into contact with people and pets. This product is used	Vinegar Mixtures	Requires very targeted application because vinegar mixtures kill everything they
Nelson Parkette			where fields cannot be secured from broad community access in		come into contact with. They can also adversely affect soil composition and kill
Polliwog Park			lieu of traps, which have some potential to be triggered by people		earthworms, which are desirable for soil aeration.
Sand Dune Park			and pets.		
Fields	Weeds		Gopher traps are used by the City only at the Mira Costa baseball	Herbicidal Soaps	Good for killing weeds in flower gardens, driveways, fence lines and on other
Fields	Gophers		field because the field can be closed to the community.		hard surfaces. Not good for killing weeds on turf as it will also kill grasses. Most
Begg Field Dorsey Field			held because the held can be closed to the community.		effective when used on weed seedlings. Herbicidal soaps only kill the portion of
Live Oak Field					the plant that they comes in contact with, but not the roots.
Marine Sports Complex				Matran, Burnout II	Organic products that provide non-selective weed and grass control. They are
Premiere Field				and Weed Zap	good for seedlings but do not adequately control mature weeds. These
School District Fields				Herbicides	products also kill turf and landscaping. Exempt from EPA Registration.
				Avenger	A citrus based organic product that is very effective on weeds in concrete areas.  Not a good option for gardens and grasses because it is non-selective.
Target Areas				Skythe	A fatty-acid, contact herbicide safe for people and pet contact. Effective in
Turf					controlling weeds in gardens, planted areas and grasses, but not particularly
Planters					effective on mature plants.
Gardens Hillsides				Suppress	Used by organic growers on food crops, small turf areas, gardens and around
Medians					trees for non-selective weed control.
Roadways				Gopher Controls	Traps are completely non-toxic and can be very effective. However, large areas
Sidewalks/Walkways					may be labor intensive depending on the number of gopher holes present, and
Driveways					it can be difficult to keep traps away from people and pets in open areas. Sonic
Parking Lots					gopher controls provide short term relief and may be good for small areas that
Other Hard Surfaces					are not used for sports. Kitty litter and rags soaked in pine oil poured into
					gopher holes only have limited success in eradicating gophers.
Sewer System					
Sewers	Cockroaches	Insecta	Effective roach control for the City's sewer system by infusing the	None	There is no other product on the market that can effectively control and kill
			active ingredient, Chlorpyrifos, into latex coating (paint) and		roaches inside the sewer system without being washed away. The latex coating
			lining the upper portion of sewer manholes. It is very toxic to		of this product binds to the sewer shaft for approximately two years, killing
			birds and fish, and moderately toxic to humans. Because it is		roaches that try to exit sewer lids. The active ingredient is triggered/released by
			applied using paint, it does not wash away.		the mucous of cockroaches. There are no other uses of this product and there
					is no human contact after its application.

Facility/Location	Pest of	Chemical	Products Currently Used/Application		Pesticide	These products are part of a tool-box of alternatives, depending on the
	Concern	Products		Щ	Alternatives	target pest to be controlled.
City Buildings and Faciliti	ies					
Park Facilities  Bathrooms Class Rooms Creative Arts Center Little Red House Manhattan Heights Marine Sports Complex Recreation Offices Snack Stands Sheds  City Buildings City Hall Complex City Hall Annex Fire Station 2 Joslyn Metlox Police/Fire Bldg. Public Works Yard Scout House Water Plant	Rats and Mice	First Strike Soft Bait	Contains the active ingredient Difethialone. Used to kill rats and mice. It is considered highly toxic, and is a second-generation poison that bio-accumulates in the food chain. The best organic alternative to this product is Terad3BLOX rat bait.		Traps Terad3BLOX Rat Bait	Traps are effective at controlling rats and mice in some facility locations, but can be difficult to retrieve in attics and other hard-to-reach places. Traps are also labor intensive to set and periodically check. The active ingredient in Terad2BLOX is Vitamin D3 in high concentration, a chemical which is produced in human skin upon exposure to UVB light. It comes in a solid form and is eaten by rats and mice, who have less tolerance for higher doses of Vitamin D3. Pets may be susceptible to exposure if ingesting the product. Indoor use in City facilities should not impact pets. Terad3BLOX Rat Bait can be used in box traps as an effective organic poison.
	Ants Cockroaches Flies Insects Spiders Silver Fish Termites Ticks Wasps	Advion Cockroach Gel Bait	Contains the active ingredient Indoxacarb, considered by EPA to be a "reduced risk pesticide." For indoor use at City facilities, out of reach of the general community. This product is considered a very mild chemical that does not have significant effects on humans and pets who may come into contact with it. It is toxic to cockroaches, but not to other beneficial insects. It has no fumes and does not spread.		Bio-pesticides	There are a variety of bio-pesticides on the market that attack specific pests like ants, silverfish, roaches, etc. There too many organic option to list them all, but they are generally effective for indoor use and building perimeters, while safe for human and pet contact. Many of these products carry the Organic Materials Review Institute (ORMI) seal of approval. See also the list of EPA Minimum Risk Pesticides.
		Suspend SC D Fense Dust	Contains the active ingredient Deltamethrin. The U.S. EPA classifies deltamethrin as "Not Likely to Be a Human Carcinogen" by all routes of exposure. It is the synthetic version of Pyrethrin, a natural insecticide made from chrysanthemum flowers. Used to control a wide variety of insects.		Ecovia EC	A liquid botanical oil insecticide. It has broad-spectrum applications and kills a wide range of flying, crawling and sucking insects such as ants, cockroaches, spiders, fleas, bed bugs, flies, wasps, mosquitoes, ticks, brown marmorated stink bugs, kudzu bugs, white flies, aphids. It is human and pet safe and can be used indoors and outdoors.
		Exponent  Wasp Freeze II  Taurus SC  Alpine WSG  Avert Dry Flowable Roach Bait and Vendetta Plus  Bifen I/T  Nyguard	This product has no insecticidal properties but rather is used to enhance the effectiveness of other products ingested by insects.  Effective against wasps but is a mild irritant to human.  Contains the active ingredient Fipronil. It is used outdoors to control termites and a variety of other insects such as ants, silver fish and cockroaches. Toxicity levels and impacts vary from none to high depending on the species exposed.  Contains the active ingredient Dinotefuran, which the EPA has designated as a "Reduced Risk Alternative" for a broad spectrum of insects, including honey bees. It is used to kill a wide variety of insects.  These products contain the active ingredient Abamectin, which is primarily used to control cockroaches indoors and outside.  Contains the active ingredient Bifenthrin. Used to control a wide variety of insects, both indoors and outdoors. Moderately toxic to animals if ingested. It is a synthetic version of the pyrethrin family (chrysanthemum flowers).  Contains the active ingredient Pyridine. Used to control roaches, fleas, flies and other insects indoors and outside. It does not kill insects, but rather retards growth so they cannot reproduce.		Essentria IC3 Essentria Granular	Broad spectrum insect control. This product kills a broad spectrum of flying and crawling insects. It is a National Organic Program compliant product that comes in both liquid and granular applications