

**2016 San Francisco Reduced-Risk Pesticide List**  
for City-owned properties

Red cells =removed from list  
Yellow cells =changed wording  
Green cells =added to list

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	Changes	Usage 2014 (lbs a.i.)
<b>GENERAL USE PESTICIDES</b>								
<b>Actinovate</b>	Fungicide	73314-1	<i>Streptomyces lydicus</i> WYEC 108	Least hazardous (Tier III)	<b>Least Limited</b>			0.0069
<b>Advion Ant Bait Arena (Dupont)</b>	Insecticide	352-664	Indoxacarb 0.1%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0002
<b>Advion Ant Gel (Dupont)</b>	Insecticide	352-746	Indoxacarb 0.05%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0001
<b>Advion Cockroach Bait Arena (Dupont)</b>	Insecticide	352-668	Indoxacarb 0.5%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0073
<b>Advion Cockroach Gel Bait (Dupont)</b>	Insecticide	352-652	Indoxacarb 0.6%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0016
<b>Agri-Fos Systemic Fungicide</b>	Fungicide	71962-1	Potassium phosphite 45.8%	Least hazardous (Tier III)	<b>Least Limited</b>	For use on high-value oaks ( <i>Quercus</i> spp.) susceptible to Sudden Oak Death, or in experiments with Sudden Oak Death control. When labelling permits, use on an experimental basis for Anthracnose control on sycamores.		9.4692
<b>Alligare Rotary 2 SL</b>	Herbicide	81927-6	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	<b>More Limited</b>	For weeds in rights of way, or invasive species in natural areas where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle.	Removed "USE UP EXISTING STOCKS," added rights of way.	0.0000
<b>Aquamaster (Roundup Custom) Herbicide</b>	Herbicide	524-343	Glyphosate, isopropylamine salt 53.8%	Most hazardous (Tier I)	<b>Most Limited</b>	<b>Subject to "Limitations on most restricted herbicides"</b> Other limitations: For aquatic uses, use for emergent plants in ponds, lakes, drainage canals, and areas around water or within watershed areas.	Added limitations on most restricted herbicides. Removed terrestrial language and red-legged frog language (redundant).	59.6281
<b>Avenger</b>	Herbicide	82052-1	d-Limonene 60%	More hazardous (Tier II)	<b>More Limited</b>	Burndown herbicide. Not for use near water.	Removed "to replace Greenmatch" and "USE UP EXISTING STOCKS."	2.0625
<b>Azatin XL</b>	Insecticide	70051-27	Azadirachtin 3%	Most hazardous (Tier I)	<b>More Limited</b>	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active. USE UP EXISTING STOCKS - Azatin is safer alternative.		0.0094
<b>Azatrol EC Insecticide</b>	Insecticide	2217-836	Azadirachtin (2328) 1.2%	More hazardous (Tier II)	<b>More Limited</b>	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active.	Changed from Tier I to Tier II	0.0000
<b>Bacillus thuringiensis insecticides (excluding mosquito control)</b>	Insecticide	Various	<i>Bacillus thuringiensis</i> (various subsp.)	Least hazardous (Tier III)	<b>Least Limited</b>			0.0000
<b>BestYet Cedarcide</b>	Insecticide	exemptprod-009	Cedarwood oil, amorphous silica	Least hazardous (Tier III)	<b>Least Limited</b>			0.0000
<b>Bond Spreader-Sticker</b>	Adjuvant	34704-50033	Synthetic carboxylated latex 50%, primary aliphatic oxyalkylated alcohol 10%	Least hazardous (Tier III)	<b>Least Limited</b>			
<b>CMR Silicone Surfactant</b>	Adjuvant	1050775-50025 [INACTIVE]	Polymethylsiloxane, nonionic	Least hazardous (Tier III)	<b>More Limited</b>			
<b>Competitor</b>	Adjuvant	2935-50173	Ethyl oleate	Least hazardous (Tier III)	<b>Least Limited</b>			
<b>Conserve SC Turf and Ornamental</b>	Insecticide	62719-291	Spinosad 11.6%	More hazardous (Tier II)	<b>Least Limited</b>	For use as a last resort in greenhouses. If feasible, alternate with other products to avoid the development of resistance. Use on high value ornamentals only.		0.0000
<b>Critter Ridder</b>	Mammal repellent	50932-10	Oil of black pepper 0.48%	Least hazardous (Tier III)	<b>Least Limited</b>			0.7353

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Debug Turbo	Nematicide	70310-5	Fats & glyceric oils margosa 65.8%, azadirachtin 0.7%	More hazardous (Tier II)	Least Limited			0.0000
Detour	Mammal repellent	exemptprod-015	White pepper 3%, white mineral oil 87%, silica 10%	Least hazardous (Tier III)	Least Limited			0.0000
Eco Exempt/Essentria Jet Wasp and Hornet Killer	Insecticide	exemptprod-007	2-phenethyl propionate 2%, rosemary oil 3%	Least hazardous (Tier III)	Least Limited	Preferred alternative to Wasp Freeze but may not act quickly enough during late summer, when yellowjackets are most aggressive. Consider digging up nest and baiting with honey in evening to attract raccoons.		0.0000
Fiesta	Herbicide	67702-26	Iron HEDTA 26.52%	Most hazardous (Tier I)	More Limited			2.5857
Cimexa Insecticide Dust	Insecticide	73079-12	Amorphous silica gel 100%	Least hazardous (Tier III)	Least Limited	Only for use on rat mites, bedbugs, lice, and yellowjackets in walls when nonchemical techniques prove ineffective.		0.0770
Enstar II Insect Growth Regulator (Enstar 5E)	Insecticide	2724-476	S-kinoprene 64.1%	More hazardous (Tier II)	More Limited	USE UP EXISTING STOCKS. For use only in nurseries and on roses.		0.0000
Essentria IC3	Insecticide	exemptprod-013	Rosemary oil 10%, geraniol 5%, peppermint oil 2%, wintergreen oil, white mineral oil, vanillin, polyglyceryl oleate	Least hazardous (Tier III)	Least Limited			0.0000
Garlon 4 Ultra	Herbicide	62719-527	Triclopyr, butoxyethyl ester 60.45%	Most hazardous (Tier I)	Most Limited: Must justify use	Subject to "Limitations on most restricted herbicides" Use only for targeted treatments of high profile or highly invasive exotics via dabbing or injection. May use for targeted spraying only when dabbing or injection are not feasible. HIGH PRIORITY TO FIND ALTERNATIVE	Added: Subject to "Limitations on most restricted herbicides" Removed: Follow label requirements regarding exposure to mist. HIGH PRIORITY TO FIND ALTERNATIVE	12.8564
Genrol Point Source Roach Control Device	Insecticide	2724-469	Hydroprene 96%	Least hazardous (Tier III)	Least Limited			0.0227
Habitat	Herbicide	241-426	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triclopyr for use on invasive weeds in natural areas, such as broom, Coloneaster, or Arundgrass. USE UP EXISTING STOCK - REPLACE WITH POLARIS		0.3129
Intice Thiquid Ant Bait	Insecticide	73079-7	Borax, 5%	Most hazardous (Tier I)	Least Limited		Changed to Tier I - EU	1.8625
Maxforce FC Magnum Roach Killer Bait Gel	Insecticide	432-1460	Fipronil 0.05%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.0000
Maxforce FC Professional Insect Control Ant Bait Stations	Insecticide	432-1256	Fipronil 0.01%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.0000
Maxforce FC Professional Insect Control Roach Bait Stations	Insecticide	432-1257	Fipronil 0.05%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.0000
Maxforce FC Professional Insect Control Roach Killer Bait Gel	Insecticide	432-1259	Fipronil 0.01%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.0001
Milestone	Herbicide	62719-519	Aminopyralid, tri-sopropanolamine salt (5928) 40.6%	More hazardous (Tier II)	More Limited	For invasive species in natural areas or parklands where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle.	Added "or parklands". Changed from "Most Limited" to "More Limited."	0.0381
M-pede Insecticide/Fungicide	Insecticide	62719-515	Potash soap 49%	Least hazardous (Tier III)	More Limited	Nursery, specialty gardens, and Africanized Honey Bees.		0.0000
Nufarm Polaris Herbicide	Herbicide	228-534	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triclopyr for use on invasive weeds in natural areas, such as broom, Coloneaster, or Arundgrass.		2.4241

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OhYeah!	Insecticide	exemptprod-002	Sodium lauryl sulfate	Least hazardous (Tier III)	<b>Least Limited</b>			
Orange Guard	Insecticide	61887-1	D-limonene 5.8%	More hazardous (Tier II)	<b>More Limited</b>	Soap spray is preferred for removing ant trails. Minimize use in enclosed areas due to scent. Wear protective equipment. Potential aquatic hazard - do not apply directly to water.		0.0000
Organocide	Insecticide	exemptprod-010	Sesame oil 5%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0000
Oust XP Herbicide (DuPont)	Herbicide	352-601	Sulfometuron-methyl 75%	More hazardous (Tier II)	<b>Most Limited: Must justify use</b>	For use only on airport operational areas subject to FAA requirements.	Removed: HIGH PRIORITY TO FIND ALTERNATIVE	3.4151
Pentrabark	Adjuvant	83416-50001	Polyalkyleneoxide modified heptamethyltrisiloxane	Least hazardous (Tier III)	<b>More Limited</b>			
Prescription Treatment Brand Perma-Dust	Insecticide	499-384	Boric acid 35%, petroleum distillates-hydrotreated light 10%, HFC-134A, 1,1 difluoroethane	More hazardous (Tier II)	<b>More Limited</b>	Use in situations where adhesion of dust is important and non-aerosol boric acid products are ineffective.		0.0000
Prescription Treatment Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	Insecticide	499-362	Phenothrin 12%, d-trans allethrin .129%, CO2	Most hazardous (Tier I)	<b>More Limited</b>	Use only when a concern for public safety, and in situations where use of EcoExempt product is inadequate or unsafe.		0.0420
Roundup Promax Herbicide	Herbicide	524-579	Glyphosate, isopropylamine salt 48.7%	Most hazardous (Tier I)	<b>More Limited</b>	<b>Subject to "Limitations on most hazardous herbicides"</b> Use of Aquamaster + Competitor is preferred except in situations where rainfastness is needed. .	Added subject to "Limitations on most hazardous herbicides" Removed: Use 2% dilution for cracks in hardscape, decomposed granite and edging only as last resort. OK for renovations but must put in place weed prevention measures. Note prohibition on use within buffer zone (generally 60 feet) around water bodies in red-leaved frog habitat	572.8034
Shake-Away Coyote Urine Repellant Granules	Mammal repellent	exemptprod-014	Coyote urine 5%, limestone 95%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0500
Sluggo Slug and Snail Bait	Molluscicide	67702-3	Phosphoric acid, iron(3+) salt (1:1) 1%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0025
Spraytech Oil	Insecticide	65328-50001	Soybean oil	More hazardous (Tier II)	<b>Least Limited</b>			0.0000
Stalker herbicide	Herbicide	241-398	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	<b>More Limited</b>	For invasive species in natural areas where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle. USE UP EXISTING STOCKS		0.4477
Terro Ant Killer II, Terro Ant Killer II Liquid Ant Baits, Terro-PCO Liquid Ant Bait	Insecticide	149-8	Sodium tetraborate decahydrate 5.4%	Least hazardous (Tier III)	<b>Least Limited</b>			0.0735
<b>GOLF PRODUCTS</b>								
Nufarm Quinclorac SPC 75 DF Herbicide	Herbicide	228-592	Quinclorac, 75%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play. USE UP EXISTING STOCKS.	Added USE UP EXISTING STOCKS	0.0000
Fosphite Fungicide	Fungicide	68573-2	Potassium phosphate	Least hazardous (Tier III)	<b>More Limited</b>	Only for use on golf courses.		25.4314
Heritage Fungicide	Fungicide	100-1093	Azoxystrobin 50%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play		3.9500
Lontrel Turf and Ornamental Herbicide	Herbicide	62719-305	Clopyralid, 40.9%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play. May be used 1x/year in other golf courses on greens only.	May be used 1x/year in other golf courses on greens only.	6.7231

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<b>Primo Maxx</b>	Growth regulator	100-937	Trinexapac-ethyl 11.3%, tetrahydrofurfuryl alcohol (THFA)	Most hazardous (Tier I)	<b>More Limited</b>	Only use on Harding/Fleming golf courses in preparation for major golf tournaments.	Changed "city-owned" to Harding/Fleming	3.7719
<b>Quinclorac 1.5L</b>	Herbicide	53883-336	Quinclorac, dimethylamine salt, 18.92%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play.		0.0000
<b>Sapphire</b>	Herbicide	62719-547	Penoxsulam	More hazardous (Tier II)	<b>More Limited</b>	Only use on City-owned golf courses in preparation for major golf tournaments.		0.6337
<b>Tourney</b>	Fungicide	59639-144	Metconazole, 50%; Silica-crystalline quartz	Most hazardous (Tier I)	<b>More Limited</b>	For management of pink snow mold ( <i>Microdochium nivale</i> ) on Harding Park/Fleming golf courses only in preparation for tournament play.		0.0000
<b>Trimmit 25C Plant Growth Regulator for Turfgrass</b>	Growth regulator	100-1014	Paclotrastazol 22.3%	More hazardous (Tier II)	<b>More Limited</b>	For use only on golf courses in preparation for tournament play.		1.7701
<b>Trinity TM</b>	Fungicide	7969-257	Triticonazole, 19.2%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play. May be used 1x/year in other golf courses on greens only.	May be used 1x/year in other golf courses on greens only.	0.0000
<b>Turflon Ester</b>	<b>Herbicide</b>	<b>62719-258</b>	<b>Triclopyr, butoxyethyl ester 61.6%</b>	<b>Most hazardous (Tier I)</b>	<b>Most Limited: Must justify use</b>	<b>Subject to "Limitations on most restricted herbicides".</b> Targeted treatment of golf course turf. HIGH PRIORITY TO FIND ALTERNATIVE.	Moved to "Golf products" section. Added: Subject to "Limitations on most restricted herbicides". Removed: Red-legged frog language. Changed to "targeted treatment of golf course turf."	22.8895
<b>VECTOR CONTROL PRODUCTS</b>								
<b>Agnique MMF-G</b>	Mosquito control - other	53263-30	Poly(oxy-1,2-ethanediy),alpha-isodecyl-omega-hydroxy-phosphate 32%	More hazardous (Tier II)	<b>Most Limited: Must justify use</b>	Use for late instar mosquito larvae and pupae, in combination with microbial products. DISCONTINUING - USE UP REMAINING STOCK		13.5800
<b>BVA2 Mosquito Larvicide</b>	Mosquito control - other	70589-1	Highly refined petroleum distillate (mineral oil)	More hazardous (Tier II)	<b>More Limited</b>	Use as a pupacide for public health mosquito treatments.	Tier changed from I to II. Removed: "For use only at San Francisco International Airport properties (within San Mateo Mosquito Abatement District)". Added: Use as a pupacide for public health mosquito treatments.	1628.4791
<b>Contraq All-Weather Blox</b>	Rodenticide	12455-79	Bromadiolone 0.005%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	HIGH PRIORITY FOR REMOVAL. USE UP EXISTING STOCKS. For use only in San Francisco International Airport Terminal Areas, or for commercial lessees on city properties that are not adjacent to natural areas. In commercial establishments, use of product shall be a last resort after other, less-toxic measures have been implemented, including sanitation and trapping, and only where a significant public health hazard is recognized. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use.		0.0012
<b>JT Eaton Bait Block Rodenticide with Peanut Butter Flavorizer</b>	Rodenticide	56-42	Diphacinone 0.005%	More hazardous (Tier II)	<b>More Limited</b>	See Site-Specific Limitations. For rat control only in situations with high public health concerns, where trapping is infeasible. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use. HIGH PRIORITY TO FIND ALTERNATIVE.		0.0380
<b>Mosquito control - microbial</b>	Mosquito control - microbial	Various	<i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i>	Least hazardous (Tier III)	<b>Least Limited</b>	Any microbial mosquito larvicide with active ingredients <i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i> is categorized as Least limited.		96.3120
<b>Mosquito control products - IGRs</b>	Mosquito control - IGRs	Various	S-Methoprene (5026)	Least hazardous (Tier III)	<b>More Limited</b>	Use for tanks with limited access, or other areas where frequent treatments are infeasible. For City catchment basins, microbial products are preferred. Not for use in estuarine environments except under control of San Mateo Mosquito Abatement District.		0.0000

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Rodent control - diphacinone block baits	Rodenticide	Various	Diphacinone	More hazardous (Tier II)	<b>More Limited</b>	<b>See Site-Specific Limitations.</b> For rat control only in situations with high public health concerns, where trapping is infeasible. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use. HIGH PRIORITY TO FIND ALTERNATIVE.		
<b>Top Gun All Weather Bait Block Rodenticide</b>	Rodenticide	67517-66	Bromethalin 0.01%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	For use only in City-owned sewer lines, San Francisco International Airport Terminal Areas, or for commercial lessees on city properties that are not adjacent to natural areas. In commercial establishments, use of product shall be a last resort after other, less-toxic measures have been implemented, including sanitation and trapping, and only where a significant public health hazard is recognized by the San Francisco Dept. of Public Health. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use.	Added: "by the San Francisco Dept. of Public Health."	0.0658
*Some products, such as most rodenticides, have very small percentages of active ingredients and thus appear as "0"								

**Restrictions on “most hazardous” (Tier I) herbicides  
for the 2016 San Francisco Reduced Risk Pesticide List  
12/30/15**

**Background**

In light of the recategorization of glyphosate as a Class 2A “Probable (Human?) Carcinogen” by the International Agency for Research on Cancer (IARC), a consortium of San Francisco Bay Area public agencies developed a general “Policy on the Safe Use of Herbicides” in 2015. The restrictions in this document are based on that policy, and apply only when herbicides categorized as “most hazardous” are used on City-owned properties. In some cases, the allowed uses listed below may be pre-empted by the US EPA label language for the product in question.

The Reduced Risk Pesticide List limitations for individual products may refer to this language, and in some cases the permitted uses for a specific product may be more restrictive. *All other uses require an exemption granted by the San Francisco Department of the Environment.*

**Conditions of use for “most hazardous” herbicides**

*General requirements*

1. All treated areas must be clearly noticed, marked and identifiable for four days after the treatment.
2. Contractors must be fully briefed and trained in the City’s IPM program ordinance, requirements and policies.

*General prohibitions:*

3. No use for purely cosmetic purposes, including turf areas as well as other managed landscapes.
4. No use within 15 feet of designated public paths.
5. No broadcast spraying is permitted, except for targeted treatments at Harding Park golf course in preparation for tournament play.
6. No use on the grounds of schools, preschools, children’s playgrounds, or other areas frequented by children.
7. No use within buffer zones (generally 60 feet) around water bodies designated as red-legged frog habitat.

*Allowed uses (only as method of last resort):*

8. Airport runways falling under FAA regulations.
9. Utility rights of way falling under state or federal vegetation management requirements.
10. Cases judged by City pest management professionals as posing a public safety, public health or fire hazard, for example, poison oak along popular trails or resprouting trees that constitute a fire hazard.
11. Landscape renovations, provided that weed prevention measures are put in place and the treated area is fenced off for four days after treatment.
12. Invasive species that pose a threat to local, native, rare, threatened or endangered species or ecosystems, and which cannot be controlled by other means.
13. Street median strips in situations where alternative control measures pose safety risks to applicators or the public

## Rodenticides: Site-Specific Limitations

Due to the concern over primary and secondary poisoning, the type of rodenticide and the manner in which it is applied will be determined by the general site characteristics.

**Only use rodenticides in the SF Reduced-Risk Pesticide List, not explosive devices.**

To use other rodenticides, [apply for an exemption](#).

### DEFINITIONS:

<b>Landscaped area:</b>	area under cultivation
<b>Natural area:</b>	parklands (including any lightly managed grasslands, scrub or woodlands) with significant wildlife concern
<b>Primary poisoning:</b>	Non-target animal eats poison directly
<b>Secondary poisoning:</b>	Non-target animal eats poisoned target animal as prey
<b>Single-feed baits:</b>	Baits with bromodialone & bromethalin active ingredients.

General Site Description	Allowed Use of Rodenticides in SF Pesticide List
Inside of sewers or sewage treatment facilities:	Baits must be secured either inside the sewer or inside a bait box. Single feeding baits acceptable. Monitoring with non-toxic baits encouraged.
Commercial enterprises (such as restaurants) on leased City lands	Trapping only; single-feed rodenticides allowed as a last resort only for public health & safety considerations.
Interior of structures with occupants (i.e. office space, recreation sites)	Trapping only.
Interior of non-enclosed structures (i.e. storage, stables, airport service areas) – not adjacent to natural areas.	Trapping preferred. Secure and anchored bait stations can be placed inside on a preventative basis. <i>No single-feed baits.</i>
Exterior of structures in urbanized areas (i.e. perimeter of offices)	Trapping preferred. Secure and anchored bait stations can be placed inside on a preventative basis. No single-feed baits.
Exterior of structures in natural areas	Multiple feeding baits may be used only as last resort in case of human health concern or structural integrity. Baits must be secured within bait boxes or buried in burrows. <i>No pellets or single-feed rodenticides.</i>
Landscape not adjacent to a natural area	Bait placed deep inside burrows, minimize use of pellets, mouse sized pellets only, must be buried deep in the burrow. No single-feed baits.
Natural area or landscape adjacent to a natural area	Multiple feeding baits may be used only as last resort in case of human health concern or structural integrity. Baiting should be limited to sensitive sites such as campfire areas, or on preventing infestation of structures. Baits must be secured inside bait boxes or burrows. No use of pellets or single feeding rodenticides.

## **San Francisco Integrated Pest Management Program Policy on the Safe Use of Herbicides**

### **BACKGROUND**

The San Francisco Department of the Environment (SFE) has developed this policy for the following reasons:

1. The City seeks to minimize harm from all sources to our workers, citizens, and environment;
2. The International Agency for Research on Cancer (IARC) recently categorized glyphosate (active ingredient in Roundup®) as a “Probable Carcinogen,” and the California Office of Environmental Health Hazard Assessment has recently categorized glyphosate as a “chemical known to the state to cause cancer under the Safe Drinking Water and Toxic Enforcement Act of 1986;”
3. SFE- together with other San Francisco Bay Area public agencies - has elected to reassess its use of glyphosate;
4. The City & County of San Francisco, in all of its pest management operations, employs an integrated pest management approach that reserves hazardous pesticide use as a method of last resort;
5. SFE acknowledges that there are still some situations where limited use of glyphosate and other herbicides is necessary for the public welfare;
6. Pesticide applicators experience the highest risks from herbicide use.

### **DEFINITIONS**

*Alternative treatment options:* Physical, cultural or mechanical methods of controlling weeds, including but not limited to manual weed pulling, weed barriers, brush-cutting machines and mowers, and grazing.

*Cosmetic purposes:* Situations where the control of weeds is desired only for improved appearance, and where lack of control will not result in greater public health hazards, environmental degradation, or denigration of the parcel’s intended use.

*Risk:* The probability of adverse effects caused under specified circumstances by an agent (or activity) in an organism, a population, or an ecological system. Risk assessments require data on inherent hazards of the agent, known dose-response relationships, and the potential for exposure to the agent.



## POLICY

1. SFE will use the following guidelines to determine when use of herbicides is permissible:
  - a. The risk of using the herbicides will be weighed, using the best available science, against the risks of alternative control methods and the risk of no treatment. Our management decisions therefore aim to achieve real risk reduction from all sources, not only from chemical exposures.
  - b. Budget or staffing limitations are not in themselves adequate justifications for herbicide use. In these cases, as part of our work toward long-term herbicide reduction, our staff will develop proposals that estimate the resource needs of using safer alternative methods to attain needed levels of control.
  - c. Use of herbicides for purely cosmetic purposes is not permitted.
2. SFE, together with its other City partners, will take appropriate steps to minimize exposure to applicators and the public in cases where herbicide use is permitted.