



## RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 \* Fax - 916-354-2082

### **IMPROVEMENTS COMMITTEE**

*(Directors Randy Jenco and Martin Pohl)*

Regular Meeting

August 2, 2022 at 8:00 a.m.

**This meeting will be held via ZOOM** video conference only. You can join the conference by (1) logging on to <https://us02web.zoom.us/j/83664996515>, entering Meeting ID no. 836 6499 6515 and using the audio on your computer, or (2) dialing into 1-669-900-9128 and entering the meeting code 836 6499 6515. Those wishing to join with audio only can simply call the telephone number above and enter the code. Participants wishing to join the call anonymously have the option of dialing \*67 from their phone. Please refer to your telephone service provider for specific instructions. ***PLEASE NOTE – MOBILE DEVICE USERS MAY NEED TO INSTALL AN APP PRIOR TO USE AND MAC AND PC DESKTOP AND LAPTOP USES WILL REQUIRE YOU TO RUN A ZOOM INSTALLER APPLICATION – PLEASE FOLLOW DIRECTIONS AS PROVIDED BY ZOOM. IT IS RECOMMENDED YOU ATTEMPT TO LOGIN AT LEAST 5 MINUTES BEFORE THE START OF THE MEETING.***

### AGENDA

1. **Call to Order**
2. **Consider Finding That as a Result of the COVID-19 Emergency: (i) Meeting in Person Would Present Imminent Risks to the Health or Safety of Attendees; and (ii) the Meeting is Authorized to be Held by Teleconference Pursuant to Gov. Code, § 54953, subd. (e)(1)(C).**
3. **Comments from the Public**
4. **Monthly Update**
5. **Discuss Potential Voluntary Water Restrictions**
6. **Discuss Emergency Repairs to Lift Station 3-B**
7. **Director and Staff Comments/Suggestions**
8. **Adjournment**

"In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 24 hours prior to a special meeting, will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting."

In compliance with the Americans with Disabilities Act if you are an individual with a disability and you need a disability-related modification or accommodation to participate in this meeting or need assistance to participate in this teleconference meeting, please contact the District Office at 916-354-3700 or [awilder@rmcsd.com](mailto:awilder@rmcsd.com). Requests must be made as soon as possible.



Note: This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is July 29, 2022. Posting locations are: 1) District Office; 2) Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.

## MEMORANDUM

Date: July 27, 2022  
To: Improvements Committee  
From: Michael Fritsch, P.E. - Director of Operations  
Subject: Monthly Improvements Committee Updates

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### SB 170 PROJECTS

**Water Treatment Facility Sodium Hypochlorite Conversion** – No Update

**Recycled Water Disinfection Project** – The District has sent out a second RFP for the Recycled Water Disinfection Project.

**Granlees Safety Improvements** – No Updates

### CAPITAL IMPROVEMENT PROJECT WORK PLAN

A work plan has been created to address the capital projects that will be addressed in this current fiscal year. See Attached.

### STORMWATER

**Laguna Joaquin** – No Update

**Integrated Pest Management Plan** – On 19 August 2021, Rancho Murieta Community Services District submitted a **Pyrethroid Management Plan** (Plan) in fulfillment of the Order to Submit Technical and Monitoring Reports Pursuant to California Water Code Sections 13267 And 13383 (Order) issued on 13 July 2020. Water Board staff completed their review of the Rancho Murieta CSD's Plan and did not recommend approval as the plan did not sufficiently meet the needs of the Water Board. The Executive Officer extended the Plan submittal deadline to 30 June 2023 so that the Rancho Murieta CSD could submit a revised Plan for review and approval.

The District recently revised the plan per the State's template. This plan covers the District use of pesticides. Currently the District uses no pesticides and does not intend to in the future.

**Storm Channel Area Weeding** – The District was able to get a quote from a goat herder for 2 herds for a total of 30 days for \$12,000. The District has reached out to RMA and they would be willing to assist with the cost as some of the space would technically be their responsibility. Kevin Hubred will put this cost sharing proposal before his Board.

## **SEWER**

### **Lift 6a** (between De La Cruz Dr. and Bass Lake)

Lift station 6a is currently operating with a temporarily installed emergency pump. The District has received the 3-phase replacement pumps and the replacement VFDs and will schedule installation soon.

### **Lift 3B**

Lift Station 3B has lost a pump and the District has repaired the single-phase pump to regain redundancy while the District sizes adequate (3-phase) replacement pumps. This 3-phase replacement project was previously foreseen and included in the current fiscal year CIP.

### **Recycled Water**

The Lake 11 Recycled water spill prevention design contract has been awarded and the District Engineer is nearing completion of the initial design.

## **WATER**

### **Integrated Water Master Plan**

Staff intend to put out an RFP for an update of the District Integrated Water Master plan that will contain the information required from the Urban Water Management Plan which will be a future requirement of the District when the District reaches 3,000 connections and becomes an Urban Water Supplier.

### **Minor Change to Permit 16762**

The District is investigating the filing of what is termed a “minor change” to the District water permit 16762 (the main water right) to allow the District to provide potable or non-potable water to the Sacramento Tree Foundation to be used at a location outside of the District boundary which is currently forbidden under the permit.

**Rio Oso Pump Replacement Update** – The Rio Oso pumps were scheduled for replacement last fiscal year. The District has received the new pumps but did not yet receive the new flex couplers. The District is scheduled to receive the flex couplers for the replacement pumps on August 12<sup>th</sup>.

The District has also received a quote for \$53,146 for the variable frequency drive (VFD) replacement for both pumps. It has been stated that the (2) VFDs for the Rio Oso pumps have surpassed their useful life by 5 years and that it would be wise to replace the VFD's sooner than later.

After receiving the flex couplers, the District will move forward with the pump replacement regardless of the status of the VFD's. After the initial pump replacement, it is planned to investigate the future modifications of the station to address permanent pump housing, piping modifications, pressure absorption, and a third pump scenario.

## **The Water Treatment Facility**

Water Treatment Facility #1 and #2 are in operation and are currently producing potable water at a rate of 2.75 mgd.

## **Water Conservation**

The District has ordered 500 hydrometers and 2,000 toilet dye kits which will be advertised as free to Ratepayers and available at the District office.

## **Reservoirs**

Clementia treatment (green clean - H<sub>2</sub>O<sub>2</sub>) was conducted for algae on 7-26. Chesbro treatment (C-Clear for algae) will be conducted with duckweed removal at recycled water Reservoir 2 on 7-28.

Adkins Engineering has provided quotes to perform a bathymetric survey on Reservoir Chesbro for \$18,000 and Reservoir Clementia for \$22,000. The survey would also provide updated stage storage curves.

## **SITE DEVELOPMENT UPDATE**

**Riverview:** Developer is working on the crossing at Bird Loop and installing the headwalls for the 36-inch and 24-inch outlets. Framing has commenced on the model homes on Mamba Court.

**Retreats:** All water and sewer mains have been installed. The District has met with the Developer regarding separation of the East from the North and the model homes in the North. Houses on the East are being framed.

**Circle K/Shell:** An oil water separator has been installed on site.

**Murieta Gardens Lot 2 (Tractor Supply):** No update

**Murieta Gardens Pet Hospital (Lot 12) & Murieta PDF Office (Lot 10)** – The District construction team has provided comments to the District Engineer from the submitted design plans.

## 2022-23 CIP Work Plan

**Condition Assessment** – Ron Greenfield, Utilities Supervisor, to contact and get quotes for PACP sewer coding and storm drain inspection. Ron to contact company that can electro scan water lines. Data will be converted to GIS.

**CIA Flow Measurement** – Mike and Travis Bohannon, Chief Plant Operator, to set up a meeting with the CIA to discuss flow measurement projects. The following projects are considered:

1. Equestrian Center flow weir – lower and replace weir to make permanent. This project will be first priority and be a good test for cooperative cost sharing. Get with District Engineer.
2. Flow measurement into Laguna Joaquin – Get with District Engineer.
3. Flow measurement near yellow bridge will likely be a gate valve replacement and installation of a new measurement flume – Get with District Engineer.
4. Install Sluice gate or easier to use stop logs for the CIA ditch near Granlees– Get with District Engineer.

**GIS Upgrades** – Mike to continue with intern data entry and expansion of capabilities with CALCAD.

**Granlees** – Mike and Travis to review preliminary engineering report. Mike to get RFP out and administer construction bid. Inhouse District CM Observation when construction begins.

**SCADA Server** – Travis to get 3 quotes.

**Rio Oso** – Travis to find contractor for existing pumps to be replaced once expansion couplings arrive. Travis to get a quote on VFD replacement. Travis and Mike to work with District Engineer to evaluate future improvements and present findings to the Improvements Committee.

**Smart Meter Replacement** - Ron/Mike to work with Aquametrics to set up to begin first phase to include Unit 6 and antenna on Van Vleck tank and then plan subsequent phases.

**Drying Bed (WTP)** – Travis to get (3) quotes for work and schedule.

**Sedimentation basin (WTP)** – Parts are in, Travis to get quotes on performing the chain and bearing replacement. Work likely to be done during lower demand times of the year.

**CI2 to NaOCl (WTP)** – Travis/Mike to review design and report to Improvements committee. Mike to administer project out to bid. Inhouse District CM Observation when construction begins.

**CI2 to NaOCl (WWTP)** – Mike resend RFP for design services. Committee to select designer. Travis/Mike to review design and report to Improvements committee. Mike to administer project out to bid. Inhouse District CM Observation when construction begins.

## **Lift Stations**

1. Lift 6A in progress, pumps ordered.
2. Cantova & FAA generator quotes due from vendor. Mike/Travis to order generators and oversee installation and testing.
3. Alameda & Starter Shack to contact EOne and verify pre-packaged stations and order. Mike/Ron to work with District Engineer on installation plans. Mike to get 3 quotes for installation.
4. Lift 3B is currently in emergency status. Travis in the process of trying to arrange a second pump to temporarily replace the one that recently burned out. Mike/Travis to work with District Engineer to size upgraded pumps and VFD.
5. Ron to get three quotes to correct ground settlement at Greens Lift.
6. Travis to arrange pump rebuild for MLN pump.

**Chlorine Analyzer Cabinet** – Travis to order and procure replacement analyzer cabinet with NEMA rated cabinet and reinstall existing analyzer from the plant by the electrician.

**Rainwater Harvesting** – Mike to contract with consulting engineer for study and present to Improvements committee. Mike RFP for design and permitting services if Board moves project forward.

**DAF Bearing Replacement (WWTP)** – Travis to get 3 quotes on DAF bearing and labor.

**Drying Bed (WWTP)** – Travis work with electrician for quote on replacement panel.

Additional Reserve Projects Needed:

**Aeration System Replacement Chesbro** – Travis to review quote with Mike and move to the Improvements Committee for approval.

**Exhaust Fan Chemical Room** – Travis to work with electrician to determine proper air changes per OSHA and get quote to install exhaust fan.

# Rancho Murieta Community Services District Integrated Pest Management Policy

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## I. PREAMBLE

The Rancho Murieta Community Services District (RMCS D) is committed to implementing an Integrated Pest Management (IPM) approach to guide the management of its facilities, landscaped areas, and rights-of-way. The IPM approach promotes the protection of the residents and visitors, as well as the local waterways, and utilizes a pest management strategy that promotes the long-term suppression of pest problems with minimum impact on non-target organisms and the environment as well as a reduction in use of pesticides. Least toxic pesticides are used only after an assessment indicates such a need, consistent with the provisions of this IPM Policy.

The adoption of this IPM Policy facilitates compliance with the Phase II Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Permit and the Basin Plan Amendment (BPA) for the Control of Pyrethroid Pesticide Discharges (Resolution R5-2017-0057).

## II. APPROACH

For the purposes of its IPM policy, the District adopts the following University of California Statewide Integrated Pest Management<sup>1</sup> (UC-IPM) definition:

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.

## III. PURPOSE

It is the purpose and intent of this IPM Policy to:

- a) Reduce reliance on and minimize the use of pesticides<sup>2</sup> as a part of District operations and on District property and rights-of-way that may adversely impact water quality; and
- b) Outline how District departments are to perform pest management so that it is consistent with this IPM Policy.

## IV. SCOPE

The IPM Policy governs District employees and contractors hired by District departments and persons acting under the authority of the District in the care and maintenance of District facilities, landscaped areas, and rights-of-way.

The term “pesticides” is a general term that includes herbicides, insecticides, fungicides, and rodenticides.

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<sup>1</sup> <https://www2.ipm.ucanr.edu/what-is-IPM/>

<sup>2</sup> As defined in Section 12753 of Chapter 2 of Division 7 of the California Food and Agricultural Code.



## V. POLICY

It is the policy of the District that:

1. Departments performing pest management will conform with the District 's IPM Policy.
2. The District 's IPM approach will include the following:
  - a) Educate and train District staff in the IPM program, practices, and policy.
  - b) Require District staff and pesticide application contractors to implement the IPM Policy on all District facilities, landscaped areas, and rights-of-way and to maintain records on and report the types and amounts of pesticides used, as well as IPM methods considered and used to prevent and control pests.
  - c) Reduce to the maximum extent practicable the use of pesticides.
  - d) Consider taking a "no-action" approach in addressing certain pest control issues.
  - e) Review and consider available non-chemical options before using a chemical pesticide.
  - f) Identify pests and least toxic methods to control pests.
  - g) Identify, evaluate, and minimize or eliminate conditions that encourage pest problems.
  - h) Conduct careful and efficient inspection, monitoring, and assessment of pest problems by designated personnel or contractor knowledgeable of IPM methods.
  - i) Maintain records on IPM methods considered and used to prevent and control pests.
  - j) Comply with all applicable local, State of California (State), and federal regulations, including pesticide use and reporting.
  - k) Conduct decision-making based on the best available science and data.
  - l) Refer residents and pest control operators to the District 's stormwater program and the local Department of Agricultural Weights and Measures for information on less toxic methods of pest control.
  - m) Provide public access to the District 's IPM Policy.
3. IPM Policy General Requirements
  - a) Eliminate the use of Category I pesticides.
  - b) Minimize the use of Category II, III, and IV pesticides.
  - c) Eliminate the use of pesticides that are classified by government agencies as known carcinogens, reproductive toxicants (teratogens, mutagens), endocrine disruptors, carbamates, organophosphates, or ground water contaminants.
  - d) Use pesticides only when necessary and select a pesticide that is both effective and least toxic.
  - e) Develop pest-specific plans to prevent or reduce the incidence of pest problems.
  - f) Require District staff and pesticide application contractors to comply with the Phase II Permit requirements to reduce the amount of pesticides and herbicides used during municipal operations and activities.

## VI. IMPLEMENTATION

This IPM Policy shall be implemented by District departments and through an IPM Coordinator. Several areas important to the implementation of the IPM Policy are outlined below, including a description of the IPM Coordinator role.

#### a. IPM Coordinator

The Operations Director is designated as the District 's IPM Coordinator and is responsible for coordinating with the departments involved in pest management to ensure that the IPM Policy is implemented. The IPM Coordinator is assisted by various District staff.

The primary responsibilities include the following:

1. Education and Training:
  - a) Communicate the goals and requirements of the IPM Policy to District departments.
  - b) Request and maintain information regarding the District 's IPM trainings offered or attended.
  - c) Provide information to District staff performing pest management as needed to ensure that the requisite IPM practices are implemented.
2. IPM Applications and Guidelines:
  - a) Ensure District staff and pesticide application contractors are authorized as Pesticide Applicators and are complying with the District 's IPM Policy.
3. Product Selection and Product Use Approval:
  - a) Work with District staff performing pest management to develop a form for exemption requests.
  - b) Ensure that no products on the prohibited use product list are applied unless District approves an exemption request.
4. Notification of Pesticide Applications:
  - a) Use a standardized design for a pesticide application notification sign that includes the date of application, the name and type of product used, the signal word, and a contact telephone number where the public may call for information about the proposed application on all school sites as required by the Healthy Schools Act.
5. Pesticide Application Contracts:
  - a) Ensure that contracted pesticide applicators are appropriately trained and certified, implement IPM, and follow the District 's health and safety procedures and OSHA requirements.
6. Record Keeping:
  - a) Work with District staff performing pest management to develop forms summarizing pesticide use.
  - b) Provide direction regarding the pesticide application recordkeeping and reporting of the methods and pesticides used/applied on the District 's facilities, landscaped areas, and rights-of-way.
  - c) Review the pesticide application records (Pesticide Use Reports (PURs)) and follow-up reports to ensure that the activities are consistent with the IPM Policy.
  - d) Provide information to the District 's Operations Director for the stormwater Annual Report or other required reporting, as needed.

#### Education and Training

Education and training of appointed personnel is critical to the success of the IPM Program. Key staff and contractors involved in pest management or application will be educated in IPM policies and procedures. Education may include classroom training, on-site training, or informal meetings and will typically be held once a year. IPM topics discussed may include, but not be limited to, pest control action thresholds; pest management decisions; pest monitoring and identification; prevention; control; and effectiveness evaluations.

### **IPM Applications and Guidelines**

Only persons specifically authorized by the IPM Coordinator as Pesticide Applicators will be permitted to bring or use pesticides on District property. Pesticide applicators must follow regulations and label precautions. Applicators will have training in IPM and must comply with the District's IPM Policy.

### **Product Selection and Product Use Approval**

Except for pesticides granted an emergency exemption, the District will not use any products on the prohibited use product list below. If it is determined that an EPA registered pesticide must be used, then the least-toxic material will be chosen.

1. Prohibited Use Products: Pesticides used by the District shall not contain the following ingredients:
  - a) Organophosphates, or organochlorines, or carbamates listed by the United States Environmental Protection Agency (Office of Pesticides Programs, Document 735-F-99-14, May 1999), or California Department of Pesticide Regulation Chemical Inquiries Database.
  - b) Glyphosate or glyphosate containing products.
2. Banned Use Areas: Except in the case of an emergency, no pesticides will be applied on District playground properties. Currently there are no playground properties controlled by the District.

### **Notification of Pesticide Applications**

The District shall provide the public and its employees with notification of pesticide applications through the use of signs at all school sites as required by the Healthy Schools Act. Currently there are no schools controlled by the District.

### **Pesticide Application Contracts**

Where pesticide management and/or applications are provided by contractors, the District will contract with IPM-trained and/or IPM-certified pest control applicators. A clause will be included within the contract to ensure that pesticide applicators implement IPM and follow the District's safety data sheet (SDS) and health and safety program.

As detailed in the District's IPM contractors are responsible for the filing of all required records and reports, including, but not limited to, Notice of Intent to Apply and PURs, as specified by all county, State, and federal agencies.

### **Record Keeping**

The District shall maintain records of the IPM methods used and pesticide applications for a period consistent with the District's record retention policy. This information may also be reported within District stormwater Annual Reports or other required reporting if pesticides are used during the year. The information reported shall include the following:

1. All the information listed below will be documented on an official Pest Control recommendation form to be supplied by a Pest Control Adviser (PCA) annually prior to any pest control operation. The form will include:
  - a) Name of the entity responsible.
  - b) Specific site of the application.
  - c) The target pest.
  - d) The date the pesticide was used and re-entry period if applicable.
  - e) Date of expiration of the PCA recommendation.

- f) Schedule, timing, and conditions.
  - g) The name and active ingredient of the pesticide to be applied and EPA registration number.
  - h) The pesticide signal word.
2. The IPM Coordinator or PCA will prepare a follow-up record to include:
- a) Prevention and other non-chemical methods of control used.
  - b) Chemical methods used.
  - c) The effectiveness of the pesticide or management action.
  - d) If application was undertaken in a pest control emergency, provide explanation of circumstances of the emergency.

## VII. RECOMMENDED PEST CONTROL PRODUCTS

The District recommends that the pesticides purchased for use on District facilities, landscaping, or rights-of-way follow the guidelines of the IPM Policy such that they are the most effective and present the lowest risk to the environment. Pesticide application should only be used when needed and in combination with other approaches to ensure effective, long-term control.

Our Water, Our World (OWOW), a program that partners with cities and counties to promote less-toxic, eco-friendly pest solutions and products, has developed lists of less-toxic pesticides that are organized by:

- Brand,
- Pest, and
- Active ingredients.

The products lists are intended to capture less-toxic products that are compatible with IPM policies and can be found on the “Active Ingredients” page of the OWOW website:

<https://ourwaterourworld.org/pesticide-ingredients/>.

Those purchasing pesticides on behalf of District should consult these lists prior to selecting a pesticide for purchase. Contracted pesticide applicators should also be encouraged to utilize the lists when purchasing materials for application on District property.

## VIII. PRACTICES

Any pest control chemicals would be stored in a secure building at the District Maintenance Shop, located at the wastewater treatment facility.

CHEMICAL APPLICATION PRACTICES	
<b>User Qualifications</b>	<ul style="list-style-type: none"> <li>■ Chemical application and advice on pest management problems will be made by the IPM Coordinator or a licensed pest control company, particularly in the creation of customized IPM problems, which may require detailed knowledge of the biology and ecology of a particular species.</li> <li>■ If pesticides are required, District staff will determine, or coordinate with a licensed pest control company to determine, the best product and application in accordance with the approval requirements.</li> <li>■ Only trained personnel can prepare and use all chemicals.</li> </ul>
<b>Species Considerations</b>	<ul style="list-style-type: none"> <li>■ Time the treatment to coincide with the presence of the pest.</li> <li>■ Use a selective chemical that has the least effect on non-target species and treat only the area affected.</li> </ul>

<p><b>User Safety</b></p>	<ul style="list-style-type: none"> <li>■ Users must wear protective clothing appropriate to the pest chemical application used.</li> <li>■ Ensure that anyone handling toxic chemicals never works alone and that the work area is well-ventilated.</li> <li>■ Wear a respirator for outdoor spraying or dusting of organic phosphorus compounds.</li> <li>■ Eating, drinking, and smoking must be prohibited when using or handling chemicals.</li> <li>■ Users must be familiar with the chemicals they are likely to be using, the effects the chemicals may have on the body, and how the chemicals may enter the body.</li> <li>■ Users must be aware of the signs and symptoms of acute poisoning related to chemicals they are using. They must stop work if they are feeling ill and seek medical advice.</li> </ul>
<p><b>Equipment</b></p>	<ul style="list-style-type: none"> <li>■ Equipment must be frequently checked and properly maintained, both for health and safety reasons and to minimize spray drift.</li> </ul>
<p><b>Weather/Time Restrictions</b></p>	<ul style="list-style-type: none"> <li>■ Spraying must not be carried out in unsuitable weather. Anyone operating sprayers must have access to a wind-speed meter, and only spray when the wind speed is negligible.</li> <li>■ Spraying must not take place within 48 hours of a rain event.</li> <li>■ Hours of work must be controlled so that building occupants are not exposed.</li> </ul>

<p><b>BASIC PLANT AND FUNGI CONTROL PRACTICES</b></p>	
<p><b>Maintenance</b></p>	<ul style="list-style-type: none"> <li>■ Keep the building grounds well-maintained. Clear plant debris, especially from fruit-bearing trees.</li> <li>■ Maintenance personnel shall use mulch and other landscaping best practices, warding off weeds and other pests.</li> <li>■ Keep vegetation trimmed at least 18 inches from the building.</li> </ul>
<p><b>Plantings</b></p>	<ul style="list-style-type: none"> <li>■ Maintain and plan landscape features to eliminate safe havens for pests.</li> <li>■ Avoid monocultures by mixing plant species in planters and gardens.</li> </ul>
<p><b>Manual Controls</b></p>	<ul style="list-style-type: none"> <li>■ Landscaping shall be hand weeded and chemical control shall be kept to a minimum. This measure prevents human and environmental exposure to hazardous chemicals.</li> </ul>
<p><b>Chemical Controls</b></p>	<ul style="list-style-type: none"> <li>■ When chemical use is necessary, replace hazardous substances with least-toxic chemicals as defined by <b>Our Water, Our World; 2020 San Francisco Reduced-Risk Pesticide List</b>.</li> </ul>

<b>Inspection Schedule and Location</b>	<ul style="list-style-type: none"> <li>Responsible parties will inspect the site at regular intervals to monitor and apply pest controls operations.</li> </ul>
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<b>BASIC ANIMAL PEST CONTROL PRACTICES</b>	
<b>Site/Building Cleanliness</b>	<ul style="list-style-type: none"> <li>Keep garbage containers clean, free of odors, and covered. Sanitation measures reduce habitat and food sources for pests.</li> <li>Keep areas around garbage containers free of spillage or garbage to prevent the collection of trash or debris on the ground around or underneath the containers.</li> <li>Keep grounds free of high weeds, trash, old equipment, and debris, as these conditions create ideal harborage for rodents.</li> </ul>
<b>Structural Integrity</b>	<ul style="list-style-type: none"> <li>Maintain the building exterior in good condition with no holes or openings larger than ¼ inch including, but not limited to, windows, doors, fans, vents, etc. to keep pests from entering the building.</li> <li>Address any deficiencies in the building exterior with corrective measures, i.e., cementing, screening, caulking, installing stripping on door bases, etc.</li> <li>Maintain door sweeps on all applicable doors to produce a good seal to the ground.</li> </ul>
<b>Inspection Schedule and Location</b>	<ul style="list-style-type: none"> <li>Visual inspections shall be performed monthly to identify problem areas.</li> </ul>

<b>SPECIFIC ANIMAL CONTROL STRATEGIES</b>	
<b>Ants</b>	<ul style="list-style-type: none"> <li>Always keep food items in sealed containers or store them in the refrigerator or freezer. Clean surfaces and storage areas to remove crumbs and stains. Keep sinks and worktops clean and dry.</li> <li>Prune branches close to the building or anything that might create a bridge for the ants to cross.</li> <li>In areas where ants are present, wipe the areas down with soapy water to prevent the formation of major scent trails. If there already is an established trail, wipe backwards from the food source to the entrance of the trail.</li> <li>Treat only areas that have active pest infestations. Temporary blockades can be made using chili powder, cinnamon, boric acid, or sticky substances such as petroleum jelly.</li> <li>Baits are best put in the path of an ant trail and then removed after the ant activity stops.</li> <li>Identify the ant species for most relevant measures.</li> </ul>

<b>Aphids</b>	<ul style="list-style-type: none"> <li>■ Prune out infested leaves.</li> <li>■ Knock off aphids by spraying with a strong stream of water.</li> <li>■ Wait for hot weather; most aphids are gone by mid-June.</li> <li>■ Release ladybugs on heavily infested plants.</li> <li>■ Spray with insecticidal oil or soap (Safer soap).</li> </ul>
<b>Bed Bugs</b>	<ul style="list-style-type: none"> <li>■ Call professional pest management to inspect and treat for the presence of bed bugs indicted by the initial inspection.</li> </ul>
<b>Caterpillars</b>	<ul style="list-style-type: none"> <li>■ Obtain a correct identification of the caterpillar to prescribe the most appropriate form of control.</li> <li>■ Bacterial insecticides derived from natural ingredients are available to control caterpillars.</li> </ul>
<b>Cockroaches</b>	<ul style="list-style-type: none"> <li>■ There are five main species of cockroaches and effective control depends on identifying them correctly.</li> <li>■ All food handling areas should be cleaned frequently.</li> <li>■ IPM measures for controlling cockroaches include effective hygiene and exclusion practices, sticky traps lined with pheromones, boric acid, and insect growth regulators.</li> </ul>
<b>Dust Mites</b>	<ul style="list-style-type: none"> <li>■ Fabrics, bedding, and carpets attract and generate dust and dust mites. To keep dust mites at bay, keep building well-ventilated and dry.</li> </ul>
<b>Scales (hard and soft)</b>	<ul style="list-style-type: none"> <li>■ Provide plant with proper irrigation.</li> <li>■ Encourage natural enemies (ladybugs, lacewings).</li> </ul>

**SPECIFIC ANIMAL CONTROL STRATEGIES CONTINUED**

<p><b>Flies</b></p>	<ul style="list-style-type: none"> <li>■ Collection of waste and residues should be carried out at least twice a week.</li> <li>■ Keep refuse areas clean to avoid providing flies with breeding grounds.</li> <li>■ Ensure bin lids fit tightly and the bins are cleaned regularly.</li> <li>■ Use fine mesh window and door screens as a barrier against entry by any flying insect.</li> <li>■ Ultra-violet (UV) fly killing equipment is very effective so long as it is situated correctly. In food preparation areas, UV equipment should only be used once all possible precautions have been taken to keep flying insects out. Position the UV equipment close to an entry point, at right angles to the nearest competing light source such as a window. In many catering establishments, poorly situated UV equipment poses a greater food hygiene hazard than lacking pest repellants altogether. This is because when placed next to the food preparation area, they draw flies to the food, which they are likely to contaminate before being killed.</li> <li>■ Natural chemical treatments include pyrethrum extracted from the <i>Chrysanthemum cineraria folium</i> plant that can be used in kitchens and restaurants.</li> </ul>
<p><b>Mosquitoes</b></p>	<ul style="list-style-type: none"> <li>■ Find and eliminate their habitat.</li> <li>■ Do not allow flowerpots, buckets, plastic sheeting, or other open containers outside to collect water.</li> <li>■ Drain unused pools or fountains so that the water cannot become stagnant.</li> <li>■ Drain or fill depressions, mud flats, and other areas that might hold water.</li> <li>■ Repair leaking taps and air-conditioning units so that puddles cannot form and ensure that septic tanks and sewage systems are properly maintained and in good working order.</li> <li>■ Avoid over-irrigating lawns and gardens, and keep weeds and grass well-clipped.</li> <li>■ To prevent mosquitoes from coming indoors, fit fine-mesh screens to porches, doors, and windows.</li> </ul>
<p><b>Fabric/Clothing Moths</b></p>	<ul style="list-style-type: none"> <li>■ Fabrics should be washed and then put in bags and placed in a freezer. When taken out to thaw, shake the fabrics vigorously to remove dead larvae.</li> <li>■ Clean the areas where fabrics have been stored with vinegar and water.</li> <li>■ Store fabrics in cedar chests or closets. Place cedar chips or blocks or lavender sachets in drawers.</li> <li>■ For acute moth problems, reusable traps can be baited with a controlled-release pheromone system to lure moths into the trap and disrupt their mating cycle.</li> <li>■ Avoid mothballs and insect foggers.</li> </ul>
<p><b>Pantry Moths</b></p>	<ul style="list-style-type: none"> <li>■ Vacuum affected areas.</li> <li>■ Scrub all surfaces with hot water and detergent, especially in corners and around the edges of removable shelves. White vinegar also works.</li> <li>■ Food items and containers should be thoroughly cleaned with a detergent and water solution and wiped down with a vinegar rinse before being put back. Use air-tight containers made of hard plastic, glass, or metal and not plastic bags.</li> <li>■ Kill any moths with a fly swatter or moth traps.</li> </ul>



	<ul style="list-style-type: none"> <li>■ Peppermint gum, bay leaves, peppercorns, and cloves may also help deter pantry moths.</li> </ul>
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<b>SPECIFIC ANIMAL CONTROL STRATEGIES CONTINUED</b>	
<b>Rodents</b>	<ul style="list-style-type: none"> <li>■ Rodent control should start with a survey to determine the source of the problem and the conditions that encourage the infestation.</li> <li>■ Remove food sources.</li> <li>■ Eliminate places of refuge.</li> <li>■ Openings in building foundations and walls should be closed or screened with wire mesh that has holes not more than 1.25 cm (0.5 in) wide. Where pipes enter masonry, force heavy hardware cloth or steel wool into the opening, then fill it with concrete.</li> <li>■ Continuous surveillance is necessary and places where rodents have been gnawing to gain entry to a building should be sealed with metal flashing.</li> <li>■ Doors are particularly vulnerable to rodent entry so ensure that external doors and windows close tightly with no gaps at the bottom.</li> <li>■ Materials stored in the open, in sheds or in building should be stacked at least 30 cm (1 ft.) above the ground.</li> <li>■ Stringent waste disposal practices should be observed – secure all waste in closed containers and not just plastic bags.</li> <li>■ Wash bins regularly. Make sure composting bins are designed to prevent rodents from entering.</li> <li>■ Bait should be sticky to ensure that the mouse triggers the trap mechanism even if it only lightly touches the bait. Mice prefer peanut butter or chocolate. Bacon, oatmeal, or apples can also be used as bait.</li> <li>■ An alternative to snap traps is a battery-operated trap that generates a high voltage once the rat or mouse is inside.</li> </ul>
<b>Slugs and Snails</b>	<ul style="list-style-type: none"> <li>■ There are various non-chemical solutions to eliminate slugs and snails, including putting salt or sharp shingle around vulnerable plants, drowning them in beer, or simply throwing them over a fence. Elemental copper bands also repel snails and slugs. Remove daytime hiding places (weeds, debris, etc.).</li> </ul>
<b>Wasps and Hornets</b>	<ul style="list-style-type: none"> <li>■ A simple trap can be made by putting beer or a solution of jam or honey and water in an open jar around the grounds. If this does not work, there are branded traps available containing specially formulated attractant baits.</li> </ul>

## IX. DEFINITIONS FOR USE WITH THIS POLICY

1. “Basin Plan Amendment” or “BPA” means the regulatory requirements for the Control of Pyrethroid Pesticide Discharges that was adopted by the Central Valley Water Board on June 8, 2017, with the adoption of Resolution R5-2017-0057. The BPA established measurable pyrethroid concentration goals and an implementation program for the control of pyrethroid pesticides that are or could potentially impact aquatic life in the Sacramento and San Joaquin River watersheds.
2. “Contractor” means a person, firm, or corporation or other entity, including a governmental entity that enters into a contract with the District for pest management services.
3. “Integrated Pest Management” or “IPM” means 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.<sup>3</sup>
4. “IPM Coordinator” means the designated agent or employee experienced in IPM field and office work and is responsible for IPM program coordination for the District.
5. “IPM Policy” means this Integrated Pest Management Policy.
6. “Pest” means any pest as defined in Section 12754.5 of Chapter 2 of Division 7 of the California Food and Agricultural Code. Pest includes any of the following that is or is liable to become, dangerous or detrimental to the public health or the agricultural or nonagricultural environment of the State:
  - a) Any insect, predatory animal, rodent, nematode or weed;
  - b) Any form of terrestrial, aquatic, or aerial plant or animal, virus, fungus, bacteria or other microorganism (except viruses, fungi, bacteria or other microorganisms on or in living man or other living animals);
  - c) Anything that the Secretary of the California Department of Food and Agriculture or the Director of Pesticide Regulation for the California Department of Food and Agriculture by regulation declares to be a pest.
7. “Pest Control Adviser” or “PCA” means any person possessing a current pest control adviser license issued by the California Department of Pesticide Regulation. The PCA license is required for making pest control recommendations in the landscape setting.
8. “Pest Control Operator” or “PCO” means any person possessing a current pest control operator license issued by the California Department of Pesticide Regulation. The PCO license is required when performing structural pest control.
9. “Pest-Specific Plan” means a written plan addressing the management and control of a particular pest. Components of Pest-Specific Plans should include pest biology, impacts, pest thresholds, recommended treatments, monitoring frequency, cultural practices, and site modifications to prevent or reduce the incidence of pest problems.
10. “Pesticide” means pesticide as defined in Section 12753 of Chapter 2 of Division 7 of the California Food and Agricultural Code. Pesticide includes any of the following:
  - a) Any substance or combination of substances which is intended to be used for defoliating plants, regulating plant growth, or for preventing, destroying, repelling or mitigating any

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<sup>3</sup> <https://www2.ipm.ucanr.edu/what-is-IPM/>

pest which may infest or be detrimental to vegetation, man, animals or households or be present in any agricultural or nonagricultural environment whatsoever;

b) Any spray adjuvant.

11. "Pesticide Applicator" means any person or company hired by a District Department who applies pesticides, as defined in this section, to property owned, leased or managed by the District.
12. "Phase II Permit" means the State Water Resources Control Board's Phase II Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000004, Order No. 2013-0001, adopted February 5, 2013, and subsequent reissuances of this Order.
13. "Signal Word" means the toxicity category word on the pesticide label: Danger, Warning, Caution or None Required. See Toxicity Category I; II, III, IV product.
14. "Pesticide Use Report Form" or "PUR" means a document that records pesticide use or other treatment practices within and associated with City owned, managed, or leased structures.
15. "Toxicity Category I; II, III, IV product" means any pesticide, as defined in 40 Code of Federal Regulations Section 156.10, meeting the appropriate toxicity categories and bearing on the front label panel the signal word Danger, Warning, Caution or None Required.