## **Annual Reporting for FY 2022-2023**

## Regional Supplement for Training and Outreach

# San Francisco Bay Area Small MS4 Permit Implementation

## Bay Area Municipal Stormwater Collaborative (BAMSC) Phase II Subcommittee



September 2023

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#### **List of Attachments**

Our Water, Our World Program

Our Water Our World Annual Summary Report (CASQA)

- Including: Home Depot Letter of Support

September 2023

#### Introduction

This report provides information on regionally implemented activities complying with portions of the Small Municipal Separate Storm Sewer System (MS4) Phase II Permit issued by the State Water Resources Control Board (Water Board). The Phase II Permit covers stormwater discharges from 24 municipalities and special districts (Permittees) in the North San Francisco Bay Area. In June 2014, the Bay Area Stormwater Management Agencies Association (BASMAA) sent a letter to the San Francisco Bay Regional Water Quality Control Board's Executive Officer on behalf of the Region 2 Phase II Permittees. The letter indicated that the Phase II Permittees would fulfill the outreach and education requirements within their jurisdictional boundaries through a combination of options including contributing to a regional effort through BASMAA. This report covers training and outreach activities implemented by BASMAA, now the Bay Area Municipal Stormwater Collaborative (BAMSC) and the California Stormwater Quality Association (CASQA) related to the following Phase II Permit provisions:

- E.7.a.(ii)(c) and F.5.b.2.(ii)(c) Develop and convey a specific stormwater message that focuses on the following:
  - 1) Local pollutants of concern
  - 2) Target audience
  - 3) Regional water quality issues
- E.7.a.(ii)(d) and F.5.b.2.(ii)(d) Develop and disseminate appropriate educational
  materials to target audiences and translate into applicable languages when
  appropriate (e.g., the materials can utilize various media such as printed
  materials, billboard and mass transit advertisements, signage at select locations,
  stenciling at storm drain inlets, radio advertisements, television advertisements,
  and websites);
- E.7.a.(ii)(f) and F.5.b.2.(ii)(e) Distribute the educational materials, using whichever methods and procedures determined appropriate during development of the public education strategy;
- E.7.a.(ii)(g) and F.5.b.2.(ii)(f) Convey messages to explain the benefits of waterefficient and storm water-friendly landscaping, using existing information if available;
- E.7.a.(ii)(i) and F.5.b.2.(ii)(i) Develop and convey messages specific to proper application of pesticides, herbicides, and fertilizers;
- E.7.a.(ii)(j) and F.5.b.2.(ii)(j) Within the Permittee's jurisdiction, provide independent, parochial, and public schools with materials to effectively educate school –age children about storm water runoff and how they can help protect water quality habitat in their local watershed(s);
- E.7.a.(ii)(k) and F.5.b.2.(ii)(k) Develop (or coordinate with existing, effective programs) and convey messages specific to reducing discharges from pressure washing operations, and landscape irrigation and for E.7.a.(ii)(k) only, organized

car washes and mobile cleaning;

- E.7.a.(ii)(I) and F.5.b.2.(ii)(I) Conduct storm water-friendly education for organized car wash participants and provide information pertaining to car wash discharge reduction;
- E.7.a.(ii)(m) Develop and convey messages specific to mobile cleaning and pressure wash businesses; and
- E.15.d Diazinon Total Maximum Daily Load TMDL: Conduct outreach to residents
  and pest control applicators on less toxic methods of pest control (requirement
  applies only to cities, towns and counties named in the TMDL and/or in
  Attachment G of the Phase II Permit).

One or more of the following three regional programs or projects conducted by BASMAA/BAMSC and CASQA addresses the following Permit provisions.

Provision	Mobile Cleaner Training and Recognition Program	BayWise Website	Our Water, Our World Program
E.7.a.(ii)(c) F.5.b.2.(ii)(c)		X	Χ
E.7.a.(ii)(d) F.5.b.2.(ii)(d)		Х	Х
E.7.a.(ii)(f) F.5.b.2.(ii)(e)			Х
E.7.a.(ii)(g) F.5.b.2.(ii)(f)			Х
E.7.a.(ii) (i) F.5.b.2.(ii) (i)			Х
E.7.a.(ii) (j) F.5.b.2.(ii) (j)			Х
E.7.a.(ii)(k) F.5.b.2.(ii)(k)	Х		
E.7.a.(ii)(I) F.5.b.2.(ii)(I)	Х	X	
E.7.a.(ii)(m)	X		
E.15.d		Х	X

These regionally or statewide implemented activities are conducted under the auspices of BASMAA, now BAMSC<sup>1</sup> or through CASQA. Most of the 2022-2023 annual reporting requirements of the specific Permit provisions covered in this report are completely met by regional or statewide projects and programs, except where otherwise noted herein or by Permittees in their reports.

#### **Training**

#### Mobile Cleaning Training and Recognition Program

This program addresses the following Phase II Permit provisions:

- E.7.a.(ii)(k) and F.5.b.2.(ii)(k) Develop (or coordinate with existing, effective programs) and convey messages specific to reducing discharges from pressure washing operations, and landscape irrigation and for E.7.a.(ii)(k) only, organized car washes and mobile cleaning;
- E.7.a.(ii)(I) and F.5.b.2.(ii)(I) Conduct storm water-friendly education for organized car wash participants and provide information pertaining to car wash discharge reduction; and
- E.7.a.(ii)(m) Develop and convey messages specific to mobile cleaning and pressure wash businesses.

BASMAA's long-standing <u>Surface Cleaner Training and Recognition Program</u> addresses the BMP and training aspects of the provision by focusing on the most common type of outdoor cleaning – cleaning of flat surfaces like sidewalks, plazas, parking areas, and buildings. Individual Permittees address the inspection and enforcement aspects of the provision.

Cleaners that take the web-based training and a self-quiz are designated by BASMAA as Recognized Surface Cleaners. BASMAA also created and provides marketing materials for use by Recognized Surface Cleaners. Cleaners can use the website to get trained and recognized for the first time or renew their training and recognition, as required annually. Recognized cleaners can also download marketing materials from the website. Potential customers, including Permittees can use the site to verify the recognition status of any cleaner, as can municipal inspectors.

#### **Public Information and Outreach**

#### **BayWise Website**

This project addresses the following Phase II Permit provisions:

<sup>&</sup>lt;sup>1</sup> In late FY 20-21, BASMAA dissolved as a formal non-profit organization and its members continued to meet as an informal organization under the name Bay Area Municipal Stormwater Coalition (BAMSC). Phase II BAMSC members jointly prepared this Regional Supplement for FY 22-23.

- E.7.a.(ii)(c) and F.5.b.2.(ii)(c) Develop and convey a specific stormwater message that focuses on the following:
  - 1) Local pollutants of concern
  - 2) Target audience
  - 3) Regional water quality issues
- E.7.a.(ii)(d) and F.5.b.2.(ii)(d) Develop and disseminate appropriate educational
  materials to target audiences and translate into applicable languages when
  appropriate (e.g., the materials can utilize various media such as printed
  materials, billboard and mass transit advertisements, signage at select locations,
  stenciling at storm drain inlets, radio advertisements, television advertisements,
  and websites);
- E.7.a.(ii)(I) and F.5.b.2.(ii)(I) Conduct storm water-friendly education for organized car wash participants and provide information pertaining to car wash discharge reduction; and
- E.15.d Diazinon TMDL: Conduct outreach to residents and pest control applicators on less toxic methods of pest control (requirement applies only to cities, towns and counties named in the TMDL and/or in Attachment G of the Phase II Permit).

BASMAA assists with this provision by using the regional website: <u>BayWise.org</u> to list or link to member programs' lists of points of contact and contact information for the stormwater agencies in the Bay Area (<a href="https://baywise.org/about/">https://baywise.org/about/</a>).

#### **Pesticides Toxicity Control**

#### Our Water, Our World Program

The Our Water, Our World program: addresses the following Phase II Permit provisions:

- E.7.a.(ii)(c) and F.5.b.2(ii)(c) Develop and convey a specific stormwater message that focuses on the following:
  - 1) Local pollutants of concern
  - 2) Target audience
  - 3) Regional water quality issues
- E.7.a.(ii)(d) and F.5.b.2(ii)(d) Develop and disseminate appropriate educational
  materials to target audiences and translate into applicable languages when
  appropriate (e.g. the materials can utilize various media such as printed
  materials, billboard and mass transit advertisements, signage at select locations,
  stenciling at storm drain inlets, radio advertisements, television advertisements,
  and websites);
- E.7.a.(ii)(f) and F.5.b.2(ii)(e) Distribute the educational materials, using whichever methods and procedures determined appropriate during development of the

public education strategy;

- E.7.a.(ii)(g) and F.5.b.2(ii)(f) Convey messages to explain the benefits of water-efficient and storm water-friendly landscaping, using existing information if available;
- E.7.a.(ii)(i) and F.5.b.2(ii)(i) Develop and convey messages specific to proper application of pesticides, herbicides, and fertilizers;
- E.7.a.(ii)(j) and F.5.b.2(ii)(j) Within the Permittee's jurisdiction, provide independent, parochial, and public schools with materials to effectively educate school –age children about storm water runoff and how they can help protect water quality habitat in their local watershed(s); and
- E.15.d Diazinon Total Maximum Daily Load TMDL: Conduct outreach to residents
  and pest control applicators on less toxic methods of pest control (requirement
  applies only to cities, towns and counties named in the TMDL and/or in
  Attachment G of the Phase II Permit).
- BAMSC permittees that are subscribers to the California Stormwater Quality
  Association (CASQA) OWOW Program support the statewide activities like product
  lists, fact sheet updates, OWOW website and the development of an IPM advocate
  training program (See the attached Our Water Our World Annual Summary Report
  from the California Stormwatwer Quality Association (CASQA) for details of the
  annual program accomplishments.

#### **Attachments**

## Outreach Program Summary

Our Water Our World Annual Summary Report

## Our Water Our World



**Annual Report** 

California Stormwater Quality Association



August 2023

Our Water, Our World 2022 – 2023 Annual Report

#### **Preface**

The California Stormwater Quality Association (CASQA) is a nonprofit corporation that advances sustainable stormwater management protective of California water resources. With approximately 2,000 members, CASQA's membership is comprised of a diverse range of stormwater quality management organizations and individuals, including cities, counties, special districts, federal agencies, state agencies, ports, universities and school districts, wastewater agencies, water suppliers, industries, and consulting firms throughout the state. Collectively, CASQA represents over 36 million people in California.

This report provides CASQA's members with focused information on its efforts to raise awareness about the connection between pesticide use and water quality through the Our Water, Our World program (OWOW). The goal of Our Water, Our World is to support a statewide integrated pest management (IPM) outreach program that provides direct to consumer information on less-toxic IPM practices.

By focusing on true source control and public outreach, OWOW advances Principles 1 and 3 of <u>CASQA's Vision for</u> Sustainable Stormwater Management.<sup>1</sup>

#### **Acknowledgements**

Our Water, Our World is funded by CASQA, the organizations implementing the OWOW program (see Table 1 in Section 2 of this report) and is sponsored by the Bay Area Clean Water Association (BACWA). This report was prepared by CASQA with support from Suzanne Bontempo.

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<sup>&</sup>lt;sup>1</sup> https://www.casqa.org/sites/default/files/downloads/final - vision for sustainable stormwater management - 10-07-2020.pdf

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#### **Section 1. Introduction**

Our Water, Our World (OWOW) is an award-winning partnership between municipal agencies and garden centers and hardware stores that sell pest control products. Initiated in 1998, the program focuses on less-toxic, eco-friendly products and techniques as many common pesticides are harmful to sensitive species and ecosystems when they reach local creeks, bays, and the ocean.

OWOW started as a pilot project in 1998, in just a handful of stores, initiated by the Central Contra Costa County Sanitation District, the City of Palo Alto Regional Water Quality Control Plant, and the Marin Countywide Stormwater Pollution Prevention Program. The program quickly grew and was administered by the former Bay Area Stormwater Management Agencies Association from 1999 – 2021. During that time, over 130 agencies in 16 counties implemented the program, working in approximately 239 stores. Starting in January 2022, the program was transferred to CASQA, with the goal of providing statewide access to this important and successful outreach program.

From a stormwater management perspective, OWOW is an excellent opportunity and cost-efficient way to educate the public and reduce toxicity in waterways from current use pesticides. Several municipalities utilize OWOW to meet permit requirements, including the San Francisco Bay Area Municipal Regional Permit<sup>2</sup>, the Central Valley Region-wide MS4<sup>3</sup>, and the Phase II – Small MS4 General Permit<sup>4</sup>.

This report provides a summary of the OWOW program activities implemented between July 2022 and June 2023.

#### **Section 2. Program Elements**

The OWOW program consists of several elements, which are integral to its effectiveness.

#### 2.1 INTEGRATED PEST MANAGEMENT (IPM) ADVOCATES

IPM Advocates are individuals who have been trained on how to engage with retailers and the public. They provide local implementation of the program on behalf of participating agencies. Local implementation generally consists of coordinating with participating retailers to provide in-store displays, shelf tags, in-store presentations and training, and advice to customers about pest management methods that are healthier for people and the environment. Additionally, IPM Advocates receive annual continuing education and training.

#### 2.2 EDUCATIONAL MATERIALS

In the store, consumers are directed to less-toxic products and techniques through:

- Fact sheet displays near pest products to educate the public on a wide range of pest management topics.
- Shelf tags to guide customers to less-toxic products.
- Display posters with QR codes linking directly to the OWOW website and fact sheets.

<sup>&</sup>lt;sup>2</sup> Municipal Regional NPDES Permit and Waste Discharge Requirements General Permit for Discharges from Municipal Separate Storm Sewer Systems (MS4), California Regional Water Quality Control Board – San Francisco Bay Region, 2022. Water Quality (WQ) Order R2-2022-0018-DWQ, NPDES NO. CAS612008, CA.

<sup>&</sup>lt;sup>3</sup> Municipal Regional NPDES Permit and Waste Discharge Requirements General Permit for Discharges from Municipal Separate Storm Sewer Systems (MS4), California Regional Water Quality Control Board – Central Valley, 2016. Water Quality (WQ) Order R5-2016-0040-DWQ, NPDES NO. CAS0085324, CA.

<sup>&</sup>lt;sup>4</sup> NPDES Permit for Waste Discharge Requirements for Discharges from Small MS4, California State Resources Control Board, 2013. WQ Order 2013-0001-DWQ, NPDES No. CAS000004, CA.

On the OWOW website, consumers can view the following:

- All 18 fact sheets.
- Stores participating in the OWOW program.
- Lists of less-toxic products and active ingredients.

#### 2.3 TRADE SHOWS

OWOW representatives provide exhibits annually at trade shows to educate store buyers on less-toxic products. Participation in these events helps ensure stores carry less-toxic products.

#### **Section 3: Partnerships**

The program is administered by CASQA, implemented by local cities and counties, with IPM Advocates and University of California Statewide IPM Program (UC IPM) serving as collaborative partners, as shown in Figure 1.

CASQA manages and provides the central services necessary to operate and maintain Our Water, Our World, including the development of the in-store education materials (e.g., less-toxic product lists, label files, and active ingredient lists), creation and updates of outreach materials, operation and updates to the OWOW website, vendor (i.e., retail partners and pesticide distributors) outreach, preparation of an annual report, fulfillment of outreach materials orders, and program management and development.

IPM Advocates are trained individuals that support local implementation of the OWOW program. They provide retail stores, nurseries, hardware stores, and garden centers direct to consumer information on integrated pest management tools, products, and practices. IPM Advocates are the link between the municipalities and the retailers where they reach consumers. Suzanne Bontempo was contracted by CASQA to coordinate the IPM Advocates to keep continuity within the program, hold regular meetings to communicate updates on new pests and new pest management techniques, and maintain the outreach material. The active IPM Advocates include Suzanne Bontempo, Debi Tidd, Julie Barbour, Lorenzo Levinger, Charlotte Canner, Maris Sidenstacker, and Lisa Ratusz.

The UC IPM Program provides research and expertise on IPM practices promoted throughout the state and maintains a website of less-toxic IPM for nearly 1000 home, garden, landscape, and turf pests. Karey Windbiel-Rojas, Staff Director for Urban and Community IPM, UC IPM Program has been involved with the IPM Advocate program since its inception and continues to assist with advocate training, technical resources on pest management practices, and as a liaison with UC resources.

Municipal agencies subscribe to OWOW through CASQA and implement the OWOW program in their local retail stores by contracting with IPM Advocates, using municipal staff or other contractors. Implementation may occur by a single agency at stores within their jurisdiction or organized at a regional scale, where agencies combine resources to implement the OWOW program at select stores used by multiple jurisdictions. In addition, municipal agencies conduct outreach to inform residents about the OWOW program. Table 1 provides the list of agencies implementing OWOW as of June 30, 2023. Bay Area Clean Water Agencies (BACWA) continue to support the OWOW program as a sponsor.

## PROGRAMMATIC ROLES AND RESPONSIBILITIES



Figure 1. OWOW Program Roles and Responsibilities

#### Table 1. Agencies Implementing OWOW

Bay Area City of Fremont

Alameda County City of Half Moon Bay

Alameda County Flood Control & Water Conservation City of Hayward

District

City of Healdsburg
Alameda County Public Works Agency

City of Alameda

City of Lafayette

City of Albany

City of Larkspur

City of American Canyon

City of Livermore

City of Antioch City of Los Altos

City of Belmont City of Martinez

City of Belvedere City of Menlo Park

City of Berkeley City of Mill Valley

City of Brentwood City of Millbrae

City of Brisbane City of Milpitas

City of Burlingame City of Monte Sereno

City of Calistoga City of Mountain View

City of Campbell City of Napa

City of Clayton City of Newark

City of Cloverdale City of Novato

City of Concord City of Oakland

City of Cotati City of Oakley

City of Cupertino

City of Orinda

City of Dublin

City of Palo Alto

City of East Palo Alto

City of Piedmont

City of El Cerrito City of Pinole

City of Emeryville City of Pittsburg

City of Foster City

City of Daly City

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Bay Area (Con't)

City of Pleasant Hill

City of Pleasanton

City of Redwood City

City of Richmond

City of Rohnert Park

City of San Bruno

City of San Carlos

City of San Jose

City of San Leandro

City of San Mateo

City of San Pablo

City of San Rafael

City of San Ramon

City of Santa Clara

City of Santa Rosa

City of Saratoga

City of Sausalito

City of Sebastopol

City of South San Francisco

City of St. Helena

City of Sunnyvale

City of Ukiah

City of Walnut Creek

Contra Costa Clean Water Program

Contra Costa County

County of Alameda

County of Marin

County of Napa

County of San Mateo

County of Santa Clara

Marin Countywide Stormwater Pollution Prevention

Program

Mendocino County

Napa Countywide Stormwater Pollution Prevention

Program

San Mateo Countywide Water Pollution Prevention

Program

Sonoma County

Sonoma County Water Agency

Town of Atherton

Town of Colma

Town of Corte Madera

Town of Danville

Town of Fairfax

Town of Hillsborough

Town of Los Altos Hills

Town of Portola Valley

Town of Ross

Town of San Anselmo

Town of Tiburon

Town of Windsor

Town of Woodside

Town of Yountville

Union City

Vallejo Flood and Wastewater District

Valley Water (Santa Clara Valley Water District)

Zone 7 Water Agency

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Central Valley Mountain House Community Service District

Butte County San Joaquin County

City of Ceres Stanislaus County

City of Davis Yuba City

City of Dixon

City of Escalon Central Coast

City of Lathrop City Buellton

City of Lincoln City of Carmel-by-the Sea

City of Lodi City of Carpinteria

City of Manteca City of Del Rey Oaks

City of Newman City of Goleta

City of Patterson City of Monterey

City of Ripon City of Pacific Grove

City of Riverbank City of Sand City

City of Roseville City of Santa Maria

City of Sacramento City of Seaside

City of Stockton City of Solvang

City of Tracy County of Monterey

City of Turlock Santa Barbara County

City of West Sacramento

City of Woodland Southern California

City of Yuba City City of Santa Clarita

County of Sacramento

County of San Joaquin Sponsor

El Dorado County Bay Area Clean Water Agencies (BACWA)

Fresno Metropolitan Flood Control District

Sacramento Stormwater Quality Partnership

#### **Section 4. Annual Program Implementation**

The following OWOW outreach services were conducted between July 2022 and June 2023.

#### 4.1 IPM ADVOCATES

After training by the University of California IPM Program, IPM Advocates are contracted by local municipalities and then assigned to stores, where they pass on their knowledge to staff and hold educational events for customers. Excellent relationships between the IPM Advocates and store management and staff are key to the successful promotion of less-toxic, eco-friendly projects.

#### **IPM Coordination**

Ms. Bontempo held regular IPM Advocate coordination meetings to communicate updates on new pests and new pest management techniques.

#### 4.2 EDUCATIONAL OUTREACH MATERIALS

Educational materials include fact sheets for specific pests, gardening and pesticide applications, shelf tags to identify ecofriendly products in stores, and the OWOW website that makes the material accessible to the public. Examples of OWOW outreach materials are provided in Appendix A.

#### **Fact Sheets**

There are 18 OWOW fact sheets available, including four (4) available in Spanish. Starting in January 2022, posters with trackable QR codes were made available in the pesticides aisle to encourage consumers to digitally access the OWOW fact sheets. The trackable QR codes record which fact sheets are viewed by consumers in retail stores. According to the data from the QR code posters, between July 2022 and June 2023, the three most viewed fact sheets were 'Ants,' 'Rats and Mice,' and 'Moles, Voles, and Gophers.' Table 2 presents a summary of QR code scans for each fact sheet. Additionally, Figure 2 shows the frequency of QR code scans per month for the reporting period.

#### Website

The <u>OWOW website</u> provides public access to the fact sheets, the less-toxic product list, and the Store Finder, which is an interactive map to search for participating stores. Updates to the <u>Store Finder</u> are made on a quarterly basis. During the 2022 – 2023 reporting year, 39 stores were added to the OWOW program and made available on the Store Finder.

#### **Store-based Product Lists**

The store-based product lists provide the current lists of the eco-friendly products that Home Depot and Ace Hardware stores sell each year. IPM Advocates use the store-based product lists to identify the eco-friendly products on store shelves using labels or "shelf talkers/tags." Each year, the product lists are reviewed, and updates are made as needed in consultation with subject matter experts. Appendix B provides the product lists for 2023.

Table 2. QR Code Scans by OWOW Product from July 2022 to June 2023

OWOW Product	QR Code Scans
OWOW Website	145
Ants	268
Aphids	152
Bed Bugs	73
Cockroaches	161
Fleas	143
Healthy Gardens	72
Hiring a Pest Company	13
Lawns	20
Moles Voles Gophers	263
Mosquitoes	140
Pesticide Use & Disposal	24
Pesticides & Water Quality	11
Rats & Mice	213
Roses	106
Snails & Slugs	118
Spiders	89
Weeds	59
Yellowjackets	54
Spanish Fact Sheets	30
Total	2,154

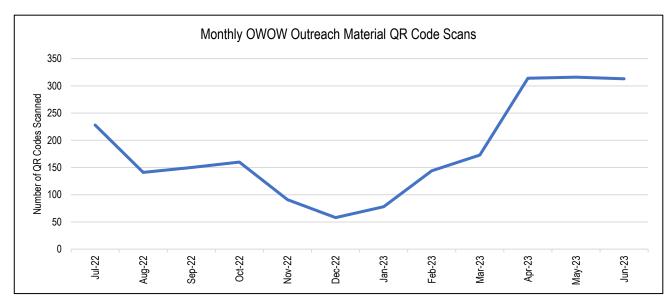


Figure 2. Monthly OWOW Outreach Material QR Code Scans between July 2022 and June 2023

#### 4.3 VENDOR OUTREACH

Education of vendors and retailers on less-toxic products is a critical step to ensure stores carry less-toxic products.

#### **Retail Partners**

Ms. Bontempo led collaboration with key retail partners. During the past year, she maintained OWOW's relationship with the Home Depot Corporate Sustainability Officer and communicated quarterly to Home Depot Corporate to keep goals aligned and to provide updates on OWOW activities in the stores. Each year OWOW receives a letter of support from the Home Depot Corporate Sustainability Officer that facilitates collaboration with local retailers (see Appendix C). Home Depot Corporate is a model retailer partner and OWOW strives to replicate this partnership with other retailers and vendors. In 2023, a successful collaboration with Outdoor Supply Hardware (OSH) led to bringing 11 of the 14 OSH stores into the OWOW program. Including these OSH stores, 39 new retailers, primarily from the Central Valley region, joined the OWOW program between July 2022 and June 2023. These additions, from counties Alameda, Butte, Contra Costa, El Dorado, Fresno, Los Angeles, Mendocino, Napa, Placer, San Joaquin, San Mateo, Santa Barbara, Santa Clara, Sonoma, and Stanislaus, demonstrate the expanding reach of the OWOW program.

#### **Vendor Communication**

Established relationships with national pesticide manufacturers and annual communication with vendors is essential to learn about new pesticide active ingredients, products, and market trends. Key vendors have reported many obstacles in 2023 as follows:

- Supply chains are still straining product supply.
- Consumers continue tend to purchase less plants and related products.
- Consumer expendable cash flow is less available due to inflation and fuel cost.

#### **Trade Show Booths**

Attending trade shows provides an opportunity to meet vendors, learn about the new products coming to the California marketplace, answer questions, and provide mentorship to the retail buyers. In 2022 – 2023, OWOW representatives attended the following trade show events:

- BFG Marketplace Expo, Reno NV, October 22 Retailer Show
- Northern California Home & Landscape Expo, Sacramento CA, February 2023 Consumer Show
- NorCal Landscape Trade Show, San Mateo, CA, February 2023 Landscape & Garden Professional Show

#### 4.4 TRAINING AND OUTREACH FOR RETAILERS AND CONSUMERS

IPM Advocates and other OWOW service providers conduct OWOW outreach activities to educate retailers and consumers at the local level. Local OWOW implementation activities vary between agencies. Many agencies receive tailored OWOW reports from their contracted IPM Advocate with a summary of their local OWOW data (for example, the number of trainings, the number of staff trained, and/or the number of fact sheet distributed).

IPM Advocates provided OWOW services to approximately 282 participating retailers throughout California. Table 3 provides a summary of outreach activities between July 2022 and June 2023. These activities were funded by the stormwater programs of local municipalities.

Table 3. Summary of Outreach Activities

Audience	OWOW Outreach Activity
Retailers	282 retailers participated in the OWOW program
	162 trainings conducted
	1,034 retail staff trained
Direct to Consumer	168 public outreach events
	15,532 people attended these public outreach events (In person and virtually)
	2,154 scans of QR Codes for OWOW fact sheets

IPM Advocates and other OWOW service providers conducted 154 trainings and trained 960 retail store staff. The training topics include IPM and strategies for managing pest problems with less-toxic and eco-friendly products. In addition, IPM Advocates provided tips for new gardeners and how to protect gardens in the time of drought. Education has expanded to include protecting gardens during times of drought since plants are more prone to pest problems when they are (drought) stressed. IPM Advocates provided additional digital support, which included a biannual retailer e-newsletter, along with online webinars and social media posts aimed at the public.

#### Retailer e-Newsletter

A biannual newsletter is emailed to participating retailers at the beginning of spring and fall. This newsletter contains information on seasonal pest problems and eco-management solutions. These newsletters help store staff, including managers, stay current on pest problems that might be affecting their customers. Many of the managers print the OWOW newsletter and post it for all staff to review. Out of the 282 retailers, 161 retailers receive the e-newsletter.

#### **IPM Educational Webinars**

Webinars were developed in lieu of in-person outreach events during the first year of the COVID-19 pandemic. These webinars have grown in popularity and now are a regular service provided by IPM Advocates to agencies that contract with them at the local scale. Each registrant received a program outline and a 'Helpful Gardening Resource' page.

#### **Outreach Barriers**

Many retailers continued to be impacted by supply chain challenges and inventory and labor shortages, which led to delays in scheduling retailer trainings and setting up shelf displays. Additionally, many of the retail trainings and public outreach events were further delayed until April due to the prolonged wet weather during the first half of 2023

#### **Section 5. Program Development**

To support a growing demand for OWOW outreach material and IPM Advocates, there are efforts currently underway, as well as future considerations, to advance the OWOW program.

#### 5.1 UPDATES IN PROGRESS

#### **Fact Sheets and Pocket Guide**

In 2023, four fact sheets and the pocket guide are undergoing review for technical accuracy by subject matter experts. The fact sheets undergoing review include Ants (both English and Spanish), Yellowjackets, Pesticides and Water Quality, and Fleas. The revised fact sheets will be made available to OWOW subscribers in Fall 2023. Additional fact sheets will undergo review in 2024.

#### **Universal Product List**

The Universal Product List is an Excel spreadsheet that modifies the existing store-based products lists with added functionality for sorting products by pest, product name, brand, and active ingredient. The Universal Product List will first be made available to IPM Advocates and subscribing agencies. A future consideration is transforming the spreadsheet into a user-friendly database available on the OWOW website so consumers could have an easier time finding less-toxic products for their pest problems.

#### 5.2 FUTURE CONSIDERATIONS

#### Implementation and Guidance Handbook

To bring consistency to the OWOW program's implementation, the *Implementing an IPM Partnership: A How-To Manual* dated March 2000, will be revised to describe current practices and responsibilities for OWOW subscribing agencies, IPM Advocates, and participating retailers. The primary goal of the Implementation and Guidance Handbook is to describe the core elements of local implementation, establish an annual reporting schedule, and provide consistency in retailer trainings, materials, displays, and communication.

#### **IPM Advocate Training Program**

To operate at a statewide scale, and in a sustainable manner, certain aspects of the existing OWOW program must be formalized and expanded. In 2022, CASQA began developing an outline for an IPM Advocate Training Program. As part of this initiative, CASQA intends to work with and potentially partner with Department of Pesticide Regulation (DPR). CASQA will coordinate workgroups comprised of OWOW Subscribers, current IPM Advocates, and training experts to develop a framework for the IPM Advocate Training Program.



## Appendix A – Example Outreach Materials

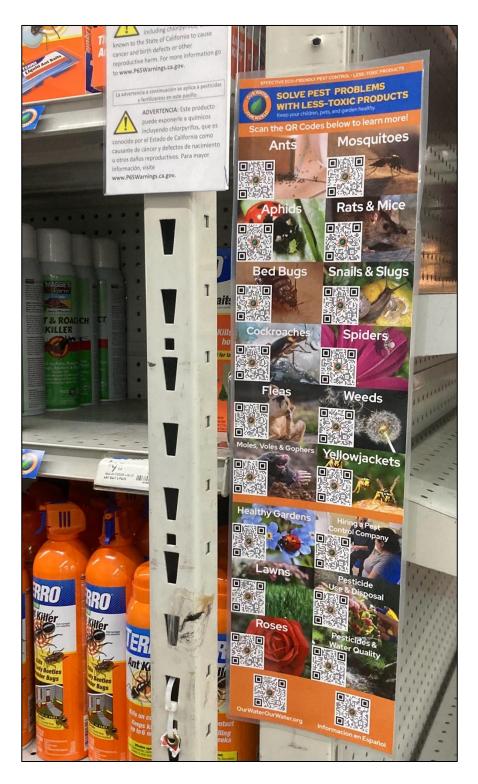


Figure A1. Trackable QR Code Poster in Store Aisle



# Bait stations containing borates or hydramethylnon Amdro Kills Ants Ant Killer, Amdro Kills Ants Ant Killing Bait, Combat Source Kill 4 products, KM Ant Pro products, Maggie's Farm Simply Effective No Spill Ant Kill, Terro Ant Killer II Liquid Ant Baits Diatomaceous earth (DE) products Concern Diatomaceous Earth Crawling Insect Killer, Safer Brand Diatomaceous Earth Ant and Crawling Insect Killer, St. Gabriel Organics Insect Dust—Diatomaceous Earth Applicator for diatomaceous earth (DE) Pest Pistol Plant-based insecticides Ecologic Ant and Roach Killer, Ecosmart Ant and Roach Killer, Orange Guard Hose attachment Bug Blaster

Argentine ants are frequent invaders in California homes. They are tiny (1/8 inch). They come inside a few at a time at first (the scouts), and then in long lines, following scent trails to a food source.

#### A QUICK FIX FOR AN ANT EMERGENCY

If you deal with ants when they first come inside, a few simple steps can take care of the problem.

- Find what ants are after (usually leftover food) and where they are entering the room (usually through a crack in the wall). Mark the spot so you can find it again. If you can't find an entry point, see Step 4.
- 2. Spray lines of ants with soapy water and wipe up with a sponge, and clean up any food or spills.
- Next, block entry points temporarily with a smear of petroleum jelly or a piece of tape.
- 4. If you can't find an entry point, clean up the ants (Step 2). Place a bait station in an out-of-the-way spot on the line the ants have been following. Remember to remove the bait station when the line of ants has disappeared so you don't attract more ants into the house. (See Tips for Using Ant Baits.)

While they can be pests, ants are helpful creatures, especially outside. Ants kill and eat many pest insects, help to aerate soil, and recycle animal and vegetable material. This is good news, because it's probably not possible to eliminate ants from their outdoor habitat. The best way to manage an ant invasion is to keep them outside.

#### **KEEP ANTS AWAY**

Stikem Special pest glue, Tree Tanglefoot Insect Barrier

- Store food in the refrigerator, or in containers that seal tightly.
- Keep things clean and dry, and fix leaking faucets and pipes (ants come in to find water as well as food).
- Weather-strip doors and windows.





Choose eco-friendly products for your home and garden. Look for this symbol before you buy.

Figure A2. Ant Fact Sheet

Sticky barrier

#### **OWOW Retail Newsletter Spring 2023 Edition**

#### Spring garden pests that love cool, rainy spring weather

With the abundance of rains this season, we are also seeing an abundance of rainy season garden pests, such as slugs, earwigs, mushrooms, weeds, and assorted plant diseases. Here we will review management tips that you can share with your customers.

#### 1) Slugs & Snails W -

Remind customers to remove any soggy or rotting leaves from the plant, clear the base of the plant removing any debris to ensure the crown is clear.

Though eco-friendly slug & snail baits containing iron phosphate are favorable, they will dissolve with rainy conditions. Exclude slugs & snails by placing a barrier of copper tape around plants. Placing chunky bark mulch around slug & snail prone plants will reduce their activity as they are less likely to cross the chunky bark mulch.

After the rainy season when irrigation systems are on, avoid watering at night which favors slug & snail activity. Advise your customers to water during the sunrise hours; 4am-7am is best for the overall health of the garden.

You can read more about slug & snail management here.

#### 2) Earwigs # -

Insecticides are typically not effective for earwig control. Make a trap! You might sell earwig traps or you can coach folks on how to make a simple trap as shown on the <a href="UCIPM">UCIPM</a> website. Though earwig baits containing iron phosphate & Spinosad are available, they will dissolve with rainy conditions. Best to wait until the rains stop before using.

After the rainy season when irrigation systems are on, avoid watering at night which favors slug & snail activity. Advise your customers to water during the sunrise hours, 4am-7am is best for the overall health of the garden.

#### 3) Mushrooms \$ -

We will have more customers asking about how to remove mushrooms from their lawn or garden areas. Mushrooms often are a sign of a healthy garden environment and commonly appear in moist soils after the rain or with frequent irrigation. They are short lived and will disappear on their own. Careful handling and proper identification are important when making decisions about removing mushrooms in the garden. You can find more information here on the UC IPM mushroom page.

#### 4) Weeds 196

Keep weeds in check. Best management is to remove with tools or hand pull when they are young, once the soil has dried enough to walk on. Mow or trip taller weeds or use grazing animals. Take advantage of the benefits <a href="mailto:sheet mulching">sheet mulching</a> offers. There are many effective eco-herbicides available. Always read the label and apply according to that label. Avoid letting weeds go to seed. You can find eco-friendly herbicides and more about managing weeds here.

#### 5) Plant diseases &-

There is a good chance we will see an abundance of plant diseases due to the cool, wet spring weather. Proper identification is key to pest management. The <u>UC IPM</u> website can help with identification. Look up the plant and then from there you will find a list of pests common to that plant. From there you will find the information that will assist with managing the plant disease.

Figure A3. Spring e-Newsletter Page 1



Appendix B – 2023 Product Lists

#### 2023 Home Depot Product List

**Pesticide Bays** 

Amdro Gopher Traps

BioAdvanced Organics Houseplant Insect & Mite Control BioAdvanced Organics Tomato, Vegetable & Fruit Insect

Control

Bird-B-Gone Stainless Steel Bird Spikes

Black Flag Handheld Bug Zapper Black Flag Pantry Pest Trap Black Flag Roach Motel

Bonide Cpt Jack's Copper Fungicide

Bonide Cpt Jack's Dead Weed Brew Bonide Cpt Jack's Insecticidal Super Soap

Bonide Cpt Jack's Lawn Weed Brew Bonide Cpt Jack's Neem Max 70%

Bonide Cpt Jack's Neem Oil Bonide Cpt Jack's Orchard Spray

Bonide Cpt Jack's Rose Rx

Bonide Cpt Jack's Tomato & Vegetable

Bonide Mole Max Bonide Repels All

Buggy Bands Mosquito Repellent

Buggy Beds Bed Bug Trap

Critter Ridder

Cutter Essentials Bug Control
Cutter Essentials Outdoor Fogger
Dr. Earth Pest Control Insect Killer
EcoLogic Ant & Roach Killer
EcoLogic Bed Bug Killer

EcoLogic Home Insect Control 2
EcoLogig Flying Insect Killer

First Saturday Lime Insect Repellent

Fly Swatter

Garden Safe Fungicide 3

Garden Safe Houseplant & Garden Garden Safe Insecticidal Soap Garden Safe Multi Garden Insect Garden Safe Neem Oil Extract Garden Safe Rose & Flower Garden Safe Slug & Snail

Gopher Traps

Green Gobbler 20% Vinegar Weed Killer

Harris Diatomaceous Earth Harris Roach Killing Powder

Harris Roach Tablets
Havahart Live Animal Trap
Hot Shot Bed Bug Killer Dust

Liquid Fence Deer & Rabbit Repellent

Monterey Nematode Control

Mosquito Dunks Mouse Traps Mouse X

Organiocide Bee Safe 3-in-1 Garden Spray

Ortho Bed Bug Trap

Ortho Ground Clear Weed & Grass Killer (green label)

Owl, Garden Defense

Preen Natural Weed Prevent

Raid Ant Baits III Raid Fly Ribbon Raid Fly Stick Raid Fly Trap

Raid Window Fly Trap

Rat Traps Rat X

Rescue Fly Trap
Rescue Fly Trap Refill
Rescue Outdoor Fly Trap
Rescue W-H-Y Trap

Rescue W-H-Y Trap Refills Rescue Yellow Jacket Trap

Rescue Yellow Jacket Trap Cartridge Rescue Yellow Jacket Trap Refill Safer Brand Ant, Roach & Spider Killer

Safer Brand Diatomaceous Earth Crawling Insect Killer

Safer Brand Home Indoor Pest Control Safer Brand Home Multi-Insect Killer (DE) Our Water, Our World 2022 – 2023 Annual Report

Safer Brand Indoor Fly Trap

Safer Brand Indoor Fly Trap Refills

Safer Brand Snake Shield Sevin 2-in-1 Sulphur Dust

Skunk Scram Repellent Granules

Southern Ag Thuricide Bt

Terro Fruit Fly Trap
Terro Liquid Ant Bait II
Terro Liquid Ant Killer II

Terro Multi-Surface Liquid Ant Baits Terro Outdoor Liquid Ant Bait Stakes

Tom Cat Attractant Gel Tom Cat Mouse Trap Tom Cat Rat Traps

Tom Cat Rodent Repellent
Treekote Tree Wound

Uncle Ian's Dog & Cat Repellent

**Fertilizer Bays** 

Alaska Fish Plant Food 5-1-1

Bonnie Harvest Select Raised Bed Plant Food

Dr Earth Lawn Food Dr. Earth Fertilizer

Earthworm Castings

Espoma Organic Fertilizer Espoma Organic Lime

Espoma Organic Soil Acidifier

Kellogg Organic Plus Fertilizer

Mater Magic

Miracle-Gro Fertilizer Spikes Tree & Shrub

Monterey Fish & Guano Fertilizer

Osmocote

Pennington Epson Salts

Vigoro Fruit, Nut &Citrus Fertilizer Spikes Vigoro Tree & Shrub Fertilizer Spikes Uncle Ian's Mole, Gopher, Deer, & Squirrel Repellent

Victor Electric Mouse Trap Victor Electric Rat Trap Victor Gopher Traps Victor Mouse Traps

Victor Natural Rodent Repeller Packs

Victor Rat Traps

Victor Rat-A-Way Rat & Mouse Repellent

Weed Block Landscaping Fabric

Weed Control Fabric Zevo Ant, Roach & Spider Zevo Fly, Gnat & Fruit Fly

Zevo Flying Insect Trap

Zevo Flying Insect Trap Refills

Zevo Multi Insect

Zevo Wasp, Hornet, & Yellow Jacket

#### 2023 ACE Hardware Product List

Alaska Fish Fertilizer Amdro Kills Ants Ant Killer

Answer Kills Roaches Powder

**Bed Bug Traps** 

BioCare Codling Moth Traps

Bird Repellent Gel Bird Scare Tape

Bird-B-Gone Flash Tape

Bird-B-Gone Steel Bird Spikes

Black Flag Roach Motel

Black Flag Window Fly Traps

Bonide All Seasons Spray Oil

**Bonide Burnout** 

Bonide Captain Jack's Dead Bug Brew

Bonide Chipmunk, Squirrel, & Rodent Repellent

Bonide Copper Fungicide

Bonide Go Away! Rabbit, Dog, & Cat Repellent

Bonide Hot Pepper Wax Animal Repellent

Bonide Insecticidal Soap

**Bonide Mole Max** 

Bonide Mosquito Beater Bonide Mouse Magic Bonide Neem Oil

Bonide Rat Magic

Bonide Repels All

Bonide Snake Stopper Bonide Sulfur Fungicide

Bonide Tomato & Vegetable

Bonide Wilt Stop Buggy Beds Cloud Cover

Combat Ant Killing Bait Combat Roach Killing Bait Critter Ridder Sprinkler

Good Nature CO2 Rodent Trap

Gopher Baskets Gopher Hawk Gopher Scram Gopher Traps De-Fence Deer & Rabbit Repellent

Deer Off Deer Repellent Diatomaceous Earth

Dr. Earth Final Stop Disease Control Fungicide

Dr. Earth Final Stop Fruit Tree Insect Killer

Dr. Earth Final Stop Rose & Flower Insect Killer

Dr. Earth Final Stop Vegetable Insect Killer

Dr. Earth Final Stop Yard & Garden Insect Killer

Dr. Earth Organic Fertilizer
Drop in the Bucket Mouse Trap
E.B. Stone Organic Fertilizer
Earth's Ally Disease Control
Earth's Ally Insect Control
Earth's Ally Weed & Grass Killer

Earth's Ally Weed Killer

EcoSmart 3 in 1 Rose & Flower EcoSmart Ant & Roach Killer EcoSmart Flying Insect Killer EcoSmart Garden Insect Killer EcoSmart Home Pest Control

**EcoSmart Insect Killer** 

EcoSmart Insect Killing Granules EcoSmart Mosquito Fogger EcoSmart Wasp & Hornet Killer EcoSmart Weed & Grass Killer

**Epsom Salts** 

Espoma Garden Lime Espoma Organic Fertilizer Espoma Organic Insect Soap

Espoma Soil Acidifier

Fly Paper Fly Ribbon Fly Stick Fly Swatter Fly Trap

Fresh Cab Rodent Repellent

Fruit Fly Trap

Giant Destroyer Garlic Repellent Clips Deer & Rabbit

Harris 20% Vinegar Weed Killer

Harris Bed Bug Killer Diatomaceous Earth

Harris Boric Acid Roach Powder Harris Diatomaceous Earth Harris Famous Roach Tablets Harris Neem Oil Harris Roach Traps

Havahart Live Animal Cage Trap

Insect Sticky Traps
Jobe's Fertilizer Spikes
Jobe's Organic Fertilizer
Jobe's Organic Fertilizer Spikes
JT Eaton Kills Bed Bugs Powder
Liquid Fence Animal Repellent
Liquid Fence Deer & Rabbit
Liquid Fence Snake Repellent
Live Catch Mouse Trap

Messina's Animal Stopper Messina's Deer Stopper Messina's Rodent Stopper Messina's Squirrel Stopper

Miracle Gro Performance Organics

Mole Trap Mole X

Monterey 70% Neem Oil

Monterey Bt

Monterey Fish & Guano
Monterey Fruit Tree Spray Plus
Monterey Garden Insect Spray
Monterey Horticultural Oil

Monterey Liqui-Cop Monterey Neem Oil

Monterey Take Down Garden Spray

Mosquito Bits Mosquito Dunks

Moss Out! Roofs & Walks

Mouse Traps Mouse X Mouse Zero

Natria Grass & Weed Control

Natria Insect, Disease, & Mite Control

Natria Insecticidal Soap Natria Neem Oil Natria Rose & Flower Natria Snail & Slug Killer Bait Nature's Care Organic Fertilizer

Neem Oil Orange Guard

Organocide Bee Safe 3 in 1 Garden Spray

Ortho 3 in 1 Insect, Mite, & Disease

Ortho Bed Bug Traps
Ortho Deer B Gon

Ortho GroundClear Weed & Grass

Ortho Home Defense Ant & Roach Killer w/

**Essential Oils** 

Ortho Home Defense Crawling Bug Killer w/ Essential Oils Ortho Home Defense Flying Bug Killer w/ Essential Oils

Ortho Insect Killer Tree & Shrub

Osmocote

Owl Garden Defense

Pulverize Weed & Grass Killer Pulverize Weed Killer for Lawns Pulverize Weed, Brush & Vine Killer

Raid Ant Baits III

Raid Essentials Ant & Roach

Raid Essentials Ant, Spider, & Roach

Raid Small Roach Baits

Rat Traps Rat X Rat Zero Rescue An

Rescue Ant Baits Rescue Fly Trap Rescue Fly Trap Refill Rescue Fly TrapStik

Rescue Pantry & Birdseed Moth Traps

Rescue WHY Trap Rescue WHY Trap Refills Rescue Yellowjacket Trap

Rescue Yellowjacket Trap Cartridge Rescue Yellowjacket Trap Refill

Safer 3 in 1

Safer Ant & Crawling Insect Killer

Safer Caterpillar Killer

Safer Critter Ridder Animal Repellent Safer Critter Ridder Deer & Rabbit

Safer Diatomaceous Earth

Safer End ALL
Safer Garden Dust
Safer Garden Fungicide
Safer Houseplant Sticky Stakes
Safer Insect Killing Soap
Safer Moss & Algae Killer

Safer Neem Oil Safer Pantry Pest Trap Safer Rose & Flower Safer Snake Shield Safer Tomato & Vegetable

Safer Yellowjacket & Wasp Attractant

Safer Yellowjacket & Wasp Trap

Scarecrow

Scott's Continuous Release Fertilizer

Scotts Moss EX Scram for Cats Sevin Sulfur Dust

Shake Away Rodent Repellent

Slug Trap Sluggo Sluggo Plus Soil Moist

St. Gabriel Moss Killer Stay Away Ants Stay Away Mice

Stay Away Moths Stay Away Spider

Tanglefoot

Terro Ant Killer Liquid Terro Clothes Moth Alert

Terro Flea Trap
Terro Fly Magnet
Terro Fruit Fly Trap
Terro Indoor Fly Trap
Terro Liquid Ant Bait
Terro Moth Traps

Terro Multi-Purpose Insect Bait
Terro Multi-Surface Liquid Ant Bait

Terro Outdoor Liquid Ant Bait

Terro Roach Magnet
Terro Wasp & Fly Trap
Tom Cat Animal Repellent
Tom Cat Attractant Gel

Tom Cat Deer Repellent Tom Cat Mouse Traps Tom Cat Rat Traps

Tom Cat Rodent Repellent Victor Black Box Gopher Trap Victor Electronic Mouse Trap Victor Electronic Rat Trap

Victor Fly Magnet

Victor Mole & Gopher Repellent

Victor Mole Trap Victor Mouse Traps

Victor Mouse-A-Way Mouse Repellent Victor Natural Rodent Repeller Packs

Victor Rat Traps Victor Rat Zapper

Victor Rat-A-Way Rat & Mouse Repellent

Victor Tin Cat Mouse Trap Whitney Farms Lawn Weed Killer

Whitney Farms Organic Fertilizer
Whitney Farms Weed & Grass Control

Window Fly Trap Yard Enforcer Sprinkler



Appendix C – The Home Depot Support Letter



DATE:

January 1, 2023

TO:

California Store Managers, D28 ASMs and Department Heads

FROM:

Ron Jarvis

CC:

Steve Knott, Scott Jacobson

SUBJECT: Our Water Our World training

OUR WATER, OUR WORLD is a coalition of organizations whose purpose is to encourage consumers to use less toxic pest controls in and around their homes. They specialize in retail friendly education. Their goal is not to alienate consumers by telling them what they can't use, but instead their information focuses on less toxic pest management and ties into products currently on our shelves.

An Our Water, Our World (OWOW) representative will be in your store to help train employees and label less-toxic products with shelf-talkers. The representative may also schedule a tabling event to educate consumers. This ties in well with "How-to" weekend events. The representative will display a sampling of excellent less toxic and Eco Options products off our shelves. They will provide free informational literature and a wealth of knowledge and experience. Please enjoy this additional help in your store.

A representative will contact you before the training or demonstration date to arrange details. Please contact Suzanne Bontempo at (415) 317-0475 if you have any questions.

Thank you

from the desk of......

Ron Jarvis

Merchandising Vice President – Sustainability
THE HOME DEPOT USA, INC.
2455 Paces Ferry Road

Atlanta, GA 30339 (770) 384-4835 Fax (770) 384-4411

INTERNAL USE

Figure C1. 2023 The Home Depot Support Letter