

AUGUST 16, 2022 CITY COUNCIL MEETING

CONSENT CALENDAR ITEM NO. 7 – COUNCIL COMMITTEE AND AGENCY REPORTS

ADDITIONAL MATERIAL RECEIVED AFTER POSTING OF AGENDA

BOARD MEETING HIGHLIGHTS

For the August 11, 2022, Meeting

F/ETCA BOARD OF DIRECTORS

Peggy Huang, **Chair**,
YORBA LINDA

Joseph Muller, **Vice Chair**,
DANA POINT

Trevor O'Neil,
ANAHEIM

Farrah Khan,
IRVINE

Scott Voigts,
LAKE FOREST

Patricia Kelley,
MISSION VIEJO

Mark A. Murphy,
ORANGE

Anthony Beall,
RANCHO SANTA MARGARITA

John Taylor,
SAN JUAN CAPISTRANO

David Penaloza,
SANTA ANA

Austin Lombard,
TUSTIN

Donald P. Wagner,
COUNTY OF ORANGE, 3RD DIST.

Doug Chaffee,
COUNTY OF ORANGE, 4TH DIST.

Lisa Bartlett,
COUNTY OF ORANGE, 5TH DIST.

Ryan Chamberlain, Ex-Officio
Member, CALTRANS DIST. 12

SJHTCA BOARD OF DIRECTORS

Will O'Neill, **Chair**,
NEWPORT BEACH

Janine Heft, **Vice Chair**,
LAGUNA HILLS

Richard Hurt,
ALISO VIEJO

Arlis Reynolds,
COSTA MESA

Richard Viczorek,
DANA POINT

Farrah Khan,
IRVINE

Fred Minagar,
LAGUNA NIGUEL

Cynthia Conners,
LAGUNA WOODS

Patricia Kelley,
MISSION VIEJO

John Taylor,
SAN JUAN CAPISTRANO

David Penaloza,
SANTA ANA

Donald P. Wagner,
COUNTY OF ORANGE, 3RD DIST.

Lisa Bartlett,
COUNTY OF ORANGE, 5TH DIST.

Ryan Chamberlain, Ex-Officio
Member, CALTRANS DIST. 12

ANNUAL INVESTMENT PORTFOLIO REVIEW SHOWS INVESTMENT RETURNS EXCEEDED BENCHMARKS FOR FISCAL YEAR 2022

The annual investment review, conducted by the Agencies' investment advisor, Chandler Asset Management, detailed the Agencies' strong and robust investment portfolios for Fiscal Year 2022 (FY22).

In FY22, the Agencies' combined \$1.66-billion portfolio earned \$14.1 million in interest and portfolio returns exceeded assigned benchmarks for the fiscal year ending June 30, 2022.

ROADSIDE TOLL SYSTEM ASSESSMENT

In alignment with their adopted Strategic Plan, the Boards of Directors authorized a task order with HNTB to conduct a comprehensive assessment of the various technology components that comprise the Roadside Toll System. This system is core to the Agencies' operation and the capture/creation of revenue transactions. It includes several pieces that detect and classify vehicles, read transponders, collect images of license plates and correlate the pieces to create a financial transaction. The Agencies are focused on retaining a 99.9% capture rate, planning for future investments and including capabilities that align with connected and autonomous vehicles while also increasing customer convenience.

FIRE DAMAGE REPAIRS AT TOMATO SPRINGS AND ORANGE GROVE MAINLINE TOLL POINT BUILDINGS

Repairs to the Tomato Springs and Orange Grove Mainline Toll Point buildings, located off the 241 Toll Road and 133 Toll Road, respectively, are substantially complete. The buildings were impacted during the 2020 Silverado Fire.

TCA implemented additional fire preventive measures at the affected buildings based on recommendations from the Orange County Fire Authority (OCFA), including 100-foot buffer space around the buildings, increased hardscape and using plants from OCFA's approved list of plants that reduce potential fuel sources and are drought tolerant.

Repairs to stairs at the Orange Grove facility are scheduled for completion in September and will finish the project.



BOARDS ADOPT FY23 INTERNAL AUDIT PLAN

The Joint Boards of Directors adopted the FY23 internal audit plan, which was developed based on input solicited from the Joint Capital Programs and Projects, Joint Finance and Investment and Joint Toll Operations Committees.

Internal Audit staff performs audits and other activities to provide an independent and objective review of the Agencies' financial, administrative and operational activities to help identify and mitigate risk, verify compliance to policies and procedures and facilitate process improvement.

The Audit Plan includes numerous areas that will be reviewed throughout the year including contract costing and invoicing; cybersecurity; budget allocations; performance measures and support for the annual third-party independent audit of the Agencies' financial statements.

TCA HOSTS PART OF WTS-OC TRANSPORTATION ACADEMY

On Aug. 3, the Agencies hosted future engineers and urban planners as a part of WTS Orange County's 2022 Transportation Academy.

The Transportation Academy is an annual two-week immersive program that exposes undergraduate and graduate college students to different facets of the transportation industry. TCA has been a participant in the Transportation Academy since its inception in 2009.

This year, 25 students participated from as near as UCI and as far away as Old Dominion University in Virginia. The TCA-led session featured several female members from upper management, who shared their experiences and answered questions from the students.

Vector of the Month, Cat Fleas (Ctenocephalides felis)

The cat flea, *Ctenocephalides felis*, is the most common species of flea on cats, dogs, opossums and other backyard wildlife in southern California. Adult fleas are no larger than 1/8 inch long, so it is difficult to see a number of the characteristics used to describe them. These brown, wingless insects are laterally compressed, undergo complete metamorphosis, and are excellent jumpers. They have piercing-sucking mouthparts through which they obtain blood meals from their hosts.

Unlike most fleas, adult cat fleas remain on the host where feeding, mating, and egg laying occur. Females lay about 20 to 50 eggs per day. Flea eggs readily fall off the pet and land on surfaces such as bedding and carpeting in the animal's environment, where they hatch in about 2 to 5 days. Flea larvae are wormlike and feed on dried blood and excrement adult fleas produce while feeding on the pet. Larval development is restricted to protected places where there is at least 75% relative humidity. The larvae feed and crawl around for 8 to 15 days before building small cocoons in which they pupate and develop into adults. Before starting a control program, look around and in the home to determine areas where larval development occurs. Flea populations are highest in places where dogs or cats regularly sleep and are likely to be present in areas where adult fleas have left dried blood and feces.

Fully formed fleas can remain in their cocoons for up to 12 months. Warm temperatures and walking on or vacuuming carpet stimulate emergence from the cocoon. At normal room temperatures, the



entire life cycle can occur in about 18 days. An adult cat flea generally lives about 30 to 40 days on the host. You can find fleas on pets throughout the year, but numbers tend to increase dramatically during spring and early summer when conditions favor larval development.

Cat fleas are capable of transmitting a bacterial disease in humans, sometimes called cat flea typhus, which is similar to murine (rat) typhus. The symptoms of either form are similar and include headaches, chills, fever, vomiting, and rash. The disease agent of cat flea typhus, *Rickettsia felis*, is commonly found in cat fleas worldwide. In Orange County, this disease is believed to have sickened over 150 people, some very severely, since 2006.

Cat fleas also serve as intermediary hosts of dog and cat tapeworms. Cats or dogs can acquire this intestinal parasite while grooming themselves if they ingest adult fleas that contain a cyst of the tapeworm. Children occasionally can acquire these tapeworms too. Some people and pets suffer from flea bite allergic dermatitis, characterized by intense itching, hair loss, reddening of the skin, and secondary infection. Just one bite can

initiate an allergic reaction, and itching can persist up to 5 days after the bite.

New, safer, and more effective products aimed at controlling adult fleas on pets have made cat flea management without pesticide sprays, shampoos, and dusts feasible in most situations. Management of fleas on pets must occur in conjunction with regular, thorough cleaning of pet resting areas indoors and out. Once fleas infest a home, control will require a vigilant program that includes vacuuming, eliminating fleas on pets, and cleaning up and possibly

treating shaded outdoor locations where pets rest. Several types of products are available to control fleas on dogs and cats. The newer products are either applied topically to the body of the pet or provided orally. If you administer oral or topical products early in the year before flea populations begin to build, the products can prevent fleas from establishing themselves in your home. Contact your veterinarian for advice in selecting the best flea-control product for your situation.

If your home is heavily infested with fleas, take these steps to get the situation under control.

Inside the Home

1. Locate heavily infested areas and concentrate efforts on these areas.
2. Wash throw rugs and the pet's bedding.
3. Vacuum upholstered furniture. Remove and vacuum beneath cushions and in cracks and crevices.
4. Vacuum carpets, especially beneath furniture and in areas that pest frequent. Use a hand sprayer to treat all carpets with an insecticide that contains an insect growth regulator.
5. Allow carpets to dry, and then vacuum a second time to remove additional fleas the spray caused to emerge.
6. Continue to vacuum for 10 days to 2 weeks to kill adult fleas that continue to emerge from pupal cocoons.

On the Pet

1. Use a spot-on or a systemic oral treatment, which you can purchase from veterinarians or online.

Outside the Home

1. If you treat your pets with spot-on or oral treatments, you'll rarely need to spray outdoors.

Flea-borne (murine) typhus

Centers for Disease Control and Prevention, National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), Division of Vector-Borne Diseases (DVBD)



Xenopsylla cheopis, the Oriental rat flea

Flea-borne (murine) typhus, is a disease caused by a bacteria called *Rickettsia typhi*. Flea-borne typhus is spread to people through contact with infected fleas. Fleas become infected when they bite infected animals, such as rats, cats, or opossums. When an infected flea bites a person or animal, the bite breaks the skin, causing a wound. Fleas poop when they feed. The poop (also called flea dirt) can then be rubbed into the bite wound or other wounds causing infection. People can also breathe in infected flea dirt or rub it into their eyes. This bacteria is not spread from person to person. Flea-borne typhus occurs in tropical and subtropical climates around the world including areas of the United States (southern California, Hawaii, and Texas). Flea-borne typhus is a rare disease in the United States.

Signs and Symptoms

Figure 1: *Xenopsylla cheopis*, the Oriental rat flea

Symptoms of flea-borne typhus begin within 2 weeks after contact with infected fleas or flea dirt. However, people may not know they have been bitten by a flea or exposed to flea dirt so tell your healthcare provider about time spent outdoors or contact with animals. Signs and symptoms may include:

- Fever and chills
- Body aches and muscle pain
- Loss of appetite
- Nausea
- Vomiting
- Stomach pain
- Cough
- Rash (typically occurs around day 5 of illness)

Severe illness is rare and most people recover completely, sometimes without treatment. Untreated disease can cause severe illness and damage to one or more organs, including the liver, kidneys, heart, lungs, and brain.

Diagnosis and Testing

- The symptoms of flea-borne typhus are similar to symptoms of many other diseases. See your healthcare provider if you develop the symptoms listed above, and be sure to mention contact with fleas, stray animals (such as cats), or wildlife (such as rats or opossums).
- Your healthcare provider may order a blood test to look for flea-borne typhus or other diseases.
- Laboratory testing and reporting of results can take several weeks, so your healthcare provider may start treatment before results are available.

Treatment

- Flea-borne typhus is treated with the antibiotic doxycycline. Doxycycline can be used in persons of any age.
- Antibiotics are most effective when given soon after symptoms begin.
- People treated early with doxycycline usually recover quickly.
- There is no evidence that persistent or chronic infections occur.

Prevention

- There is no vaccine to prevent flea-borne typhus.
- Reduce your risk of getting flea-borne typhus by avoiding contact with fleas.
- Keep fleas off of your pets. Use veterinarian-approved flea control products for cats and dogs such as flea collars, oral medication or spot-ons. Permethrin should not be used on cats. Animals that are allowed outside are more likely to come in contact with fleas and could bring them inside.
- Keep rodents and animals (e.g. opossums) away from your home, workplace, and recreational areas:
 - Store food, including pet food, in tight sealing containers.
 - Remove brush, rock piles, junk, and cluttered firewood outside of your home.
 - Seal up holes in your home where rodents can enter.
 - Keep tight lids on compost and trash cans.
 - The CDC's rodents website offers helpful suggestions on rodent control during and after a rodent infestation.
- Protect yourself from flea bites:
 - Do not feed or pet stray or wild animals.
 - Always wear gloves if you are handling sick or dead animals.
 - Use EPA-registered insect repellents external icon on your skin and clothing when spending time outside. Always follow instructions listed on the product label.

Orange County Mosquito and Vector Control District

MONTHLY REPORT: Yorba Linda JULY



	Monthly	Year to Date (YTD)	County Monthly	County YTD
OPERATIONS				
Service Requests Completed:	16	45	429	1,671
Mosquitoes:	9	34	332	1,220
Rats:	2	2	52	242
Rifa:	5	9	42	193
Number of Swimming Pools Treated/Inspected:	26	257	712	6,387
Hours Spent Treating/Inspecting Gutters	21.75	53.16	703.8	3,156.8
Undergrounds Treated:	29	50	3,700	13,651
Acres of Flood Channels Treated:	1.151	2.391	116.971	509.3034
Acres of RIFA Treated/Inspected:	86	878	6,942	39,232
Number of Inspection Treatments:	31	237	1,314	8,165
LABORATORY				
Adult Mosquitoes Collected:	261	1271	26,728	123,540
Collected From Trustee Home:	0	0	0	0
Invasive Aedes	8	8	583	878
Mosquito Pools (Samples) Tested:	16	49	879	3,994
WNV Positive Samples:	0	0	11	14
WNV Positive Birds:	0	0	0	0
Number of Human Infections/Deaths:	0	0	0	0
Fleas, Ticks, and Others Tested:	-	-	-	625
COMMUNICATIONS				
Outreach Events Attended:	1	2	5	33
General Presentations:	0	1	3	16
Educational Program Presentations:	0	0	0	111
Calls Received	-	-	278	1,413

PROJECTS IN COLLABORATION WITH OCMVCD

None at this time

COUNTY RESPONSE LEVEL / AVERAGE RATING:

Normal Season (1.0 to 2.5)
Elevated Risk (2.6 to 4.0)
High Risk (4.1 to 5.0)

TOTAL 10

AVERAGE 2.50