

Eastern Municipal Water District 5 Year CIP Construction Network

Bruce A Mitzel P.E.
June 6, 2024



Overview



ESTABLISHED IN
1950



SERVES:



WATER / WASTEWATER / RECYCLED



WHOLESALE

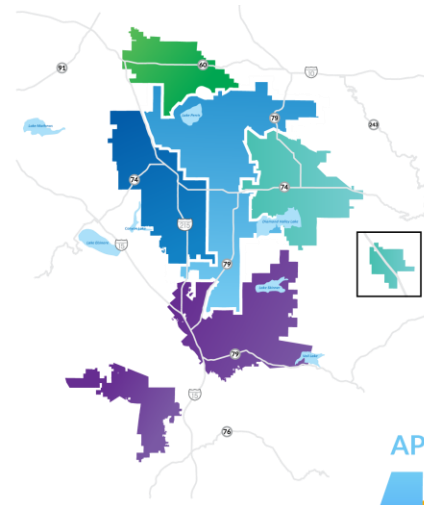


RETAIL



POPULATION NEARLY:

1,000,000



601

SQUARE MILE
SERVICE AREA

APPROXIMATELY

43%

CURRENTLY
BUILT OUT



ONE
OF THE

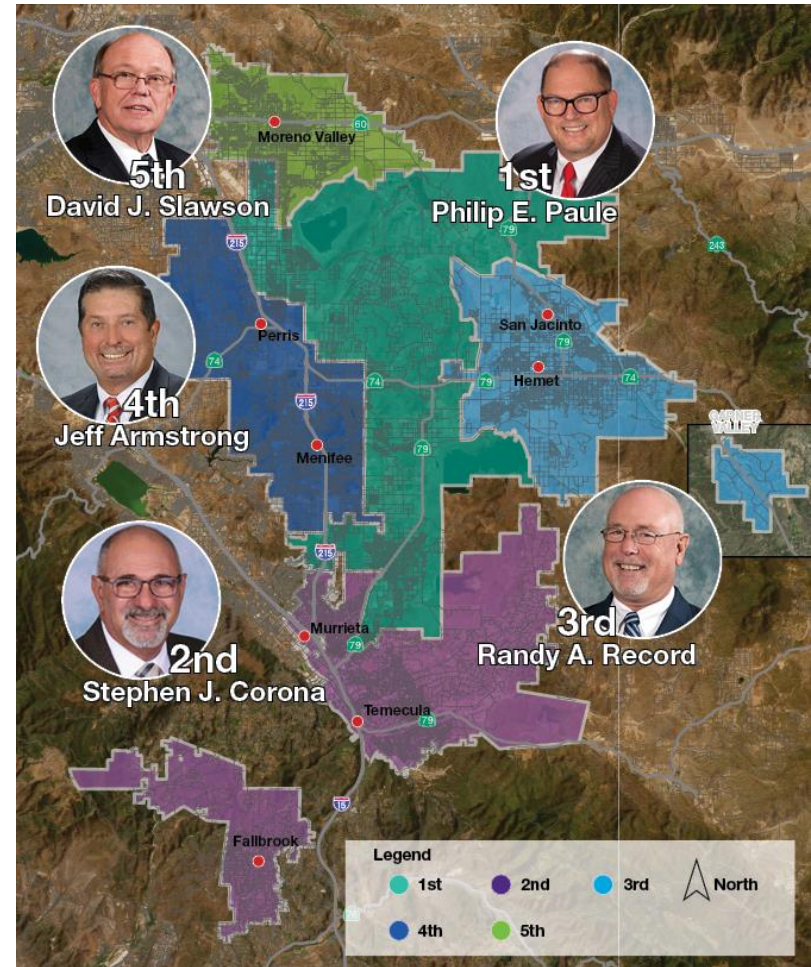


member agencies
of The Metropolitan
Water District of
Southern California



About EMWD

- Five division publicly-elected Board of Directors
- Serving from Moreno Valley to northern San Diego County
- More than 600 employees
- Annual budget of \$557 million for FY 2023-24
- Five-year capital improvement program of \$686 million for FY 2023-24 to FY 2027-28
 - \$115 million in external funding
 - More than 200 active capital projects
- Sixth largest public water utility in California
- EMWD representative to The Metropolitan Water District of Southern California: Jeff Armstrong



Core Services



DRINKING WATER

- Approximately 166,000 accounts
 - 82,578 acre feet sold in FYE 2023
 - Imported water from State Water Project and Colorado River Aqueduct
 - Groundwater wells
 - Menifee and Perris brackish desalters



WASTEWATER

- Approximately 273,000 accounts
 - Four operating regional water reclamation facilities
 - 77 million gallons per day capacity
 - 49 millions gallons per day average



RECYCLED WATER

- Approximately 850 accounts
 - 29,692 acre feet sold in FYE 2023
 - Extensive agricultural irrigation, municipal irrigation, and environmental use
 - Mandatory use requirement in new development



A Leader in Sustainability

- EMWD has installed 21.4 MW of solar generation facilities
- Investments in battery storage to minimize costs
- EMWD continues to invest in Compressed Natural Gas (CNG) and electric fleet vehicles
 - 95 electric vehicle charging stations being installed in 2024
- Advanced Metering Infrastructure has resulted in a reduced carbon footprint through reductions in vehicle miles and emissions
- The San Jacinto Wetlands offer a home for more than 120 species of birds
- In 2022, EMWD completed its Climate Action Plan



Infrastructure



Drinking Water System

- Purpose: To provide clean, high-quality and reliable water to our communities.
 - 2 water filtration plants
 - 3 groundwater desalination plants
 - 2,635 miles of pipelines
 - 94 pump stations
 - 79 storage tanks
 - 15 potable wells
 - 14 brackish wells



Wastewater Treatment

- Purpose: To treat wastewater and turn it into a high-quality recycled water supply for the region
- Wastewater is treated using a biological and chemical process
- Four Regional Water Reclamation Facilities (RWRFs)
 - Moreno Valley
 - Perris Valley
 - San Jacinto Valley
 - Temecula Valley
- EMWD treats approximately 50 million gallons of wastewater every day and has a total capacity of 77 million gallons per day
- The remaining biosolids are transported to Arizona, where they are used as fertilizer on non-food crops such as cotton



Wastewater Collection

- Purpose: The sewer system protects public and environmental health by taking wastewater from homes and businesses to EMWD's reclamation facilities
- Wastewater is everything placed down the drain from toilets, showers, sinks, washing machines, dishwaters, etc.
- EMWD has a three-year schedule to clean every mile of sewer pipe in its service area
- EMWD operates 1,990 miles of sewer pipeline and 51 lift stations



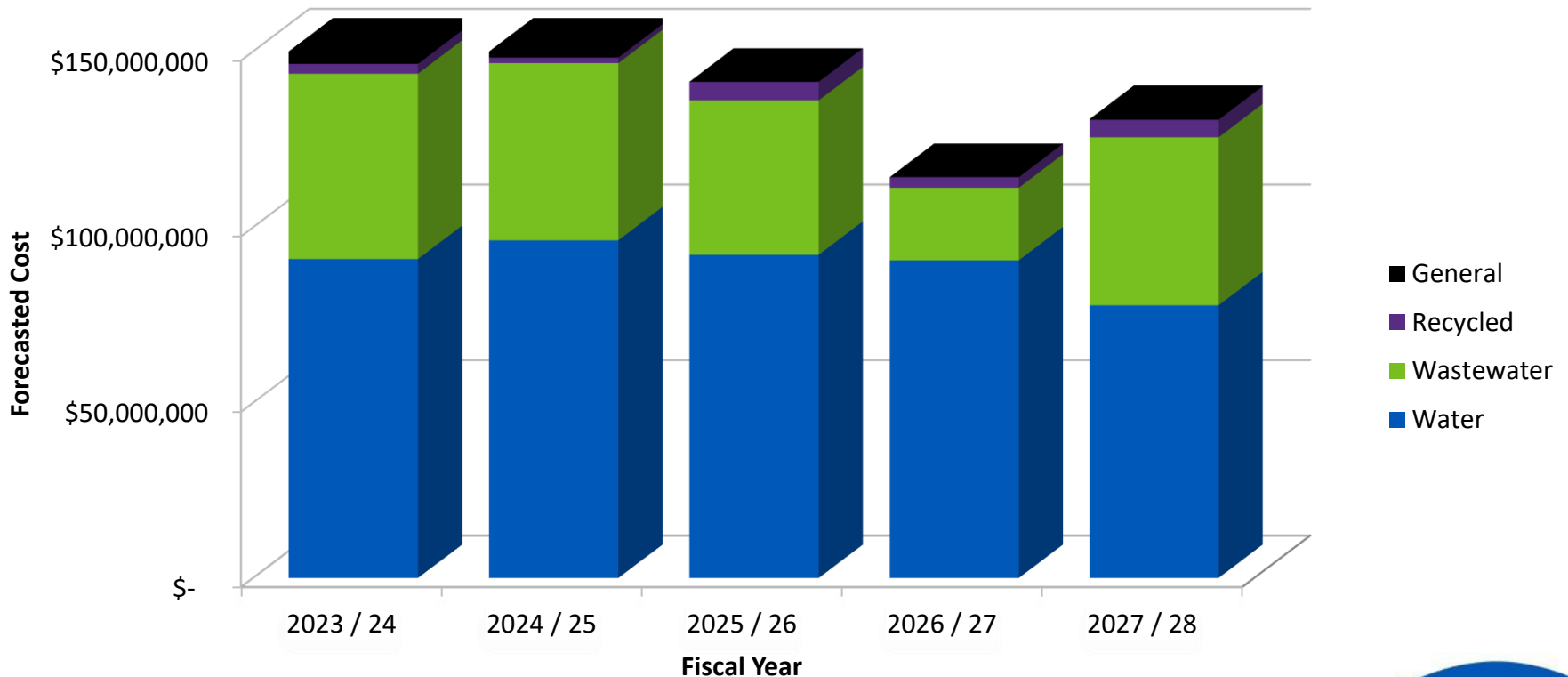
EMWD's Recycled Water Program

- Approximately \$300 million in capital investments
- Approximately 10,000 acres of agricultural irrigation
- Nationally recognized as an industry leader
- Strategic priority of 100 percent beneficial reuse in normal years
- 250 miles of recycled water pipeline
- Nearly 7,700 AF of seasonal storage
- Four pressure zones consisting of:
 - 19.5 MG of elevated storage
 - 24 active pump facilities

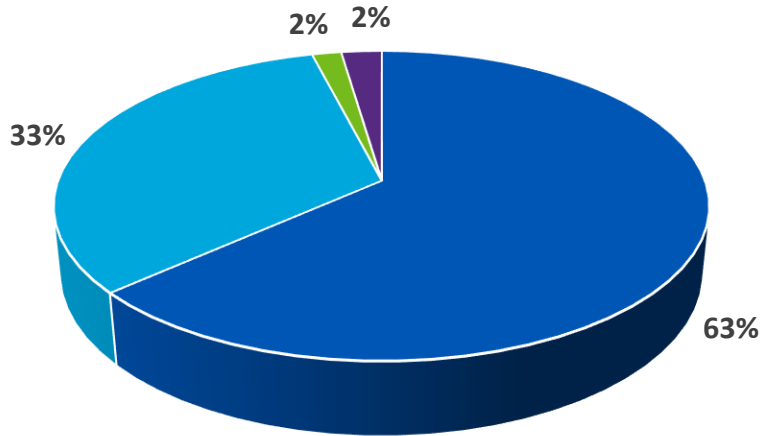


FY 2023-2028 Capital Improvement Program

- Total budget of \$686M with external funding of \$115M
 - USACE projects external funding
- Water system investments average \$90.4M/year over the five-year period

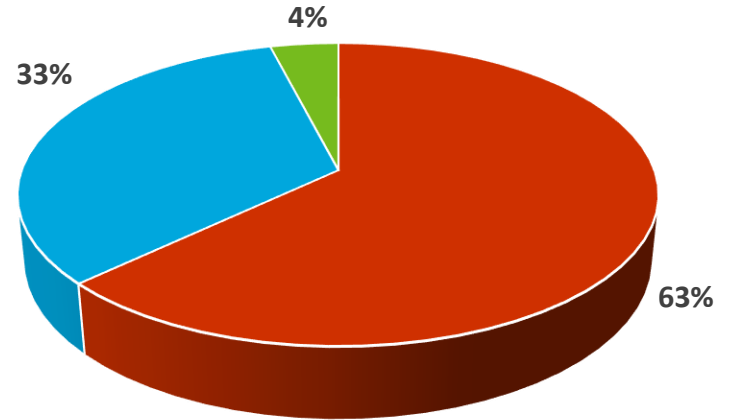


FY 2023/2024 Capital Improvement Program



■ Water ■ Wastewater ■ Recycled ■ General

Expenditures by Project Type



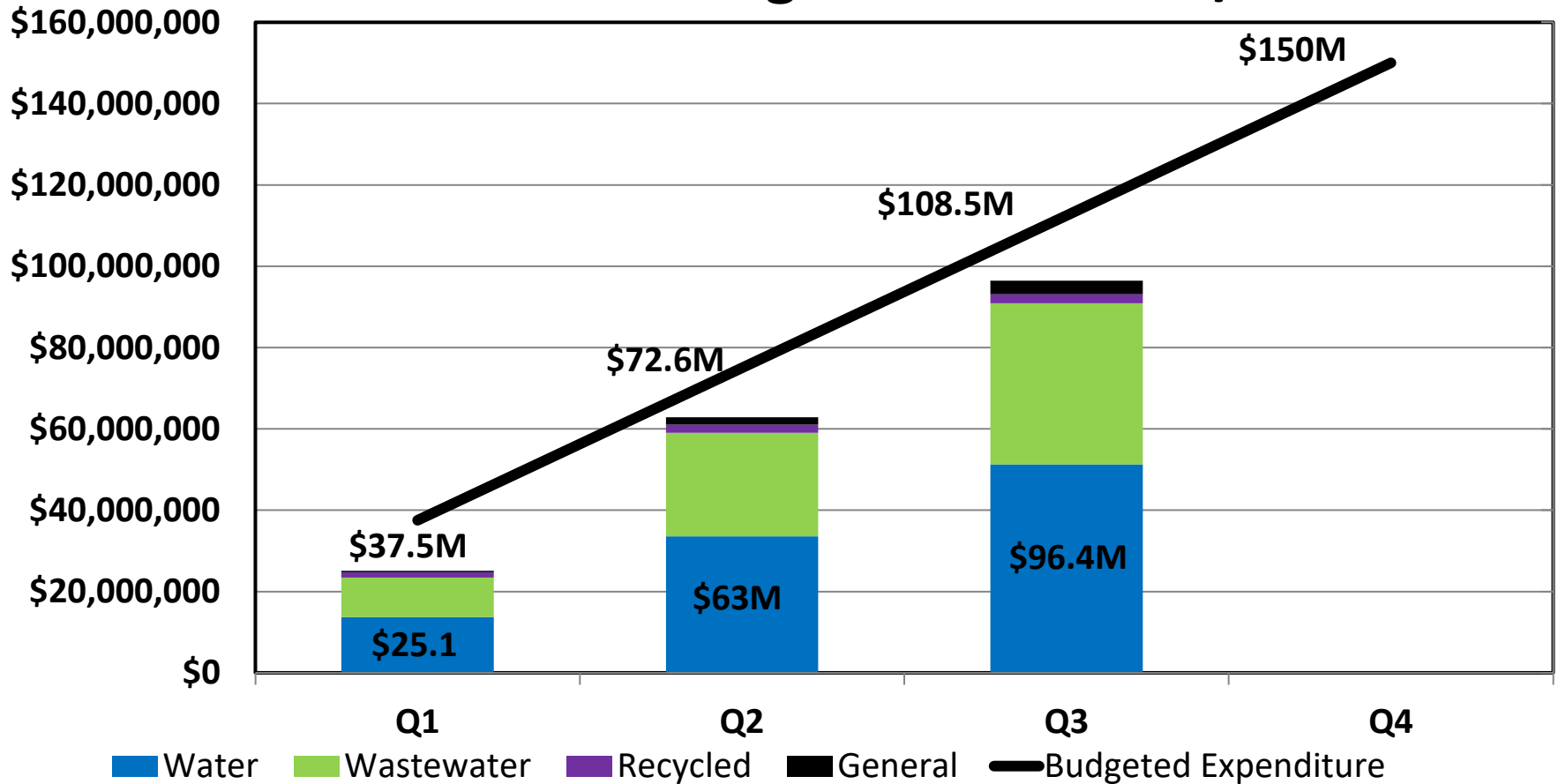
■ Construction ■ Design ■ Planning

Expenditures by Project Phase

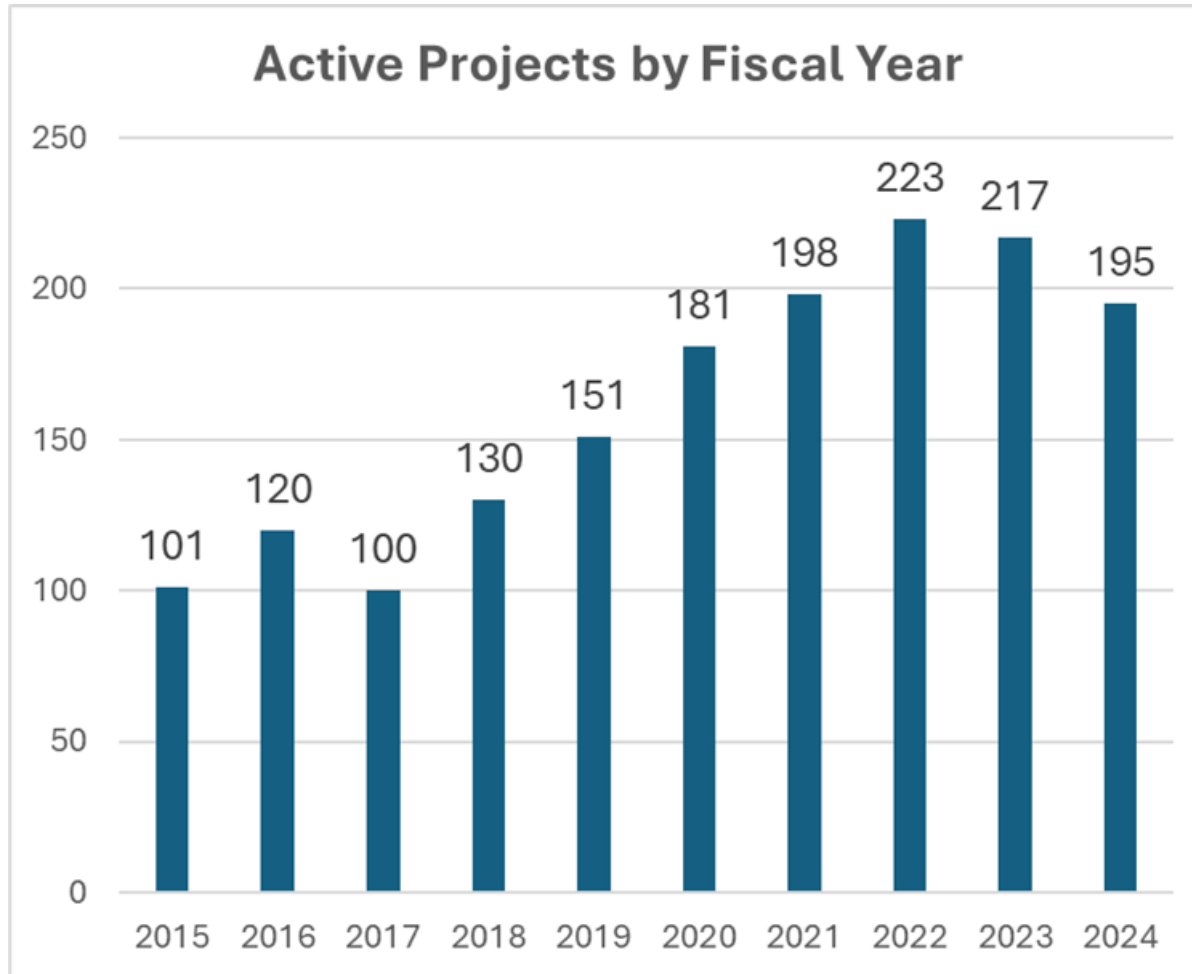
PROJECT TYPE	COUNT	2023 – 24 (\$ Million)
WATER	88	\$95.2 Mil
WASTEWATER	53	\$48.8 Mil
RECYCLED	7	\$2.5 Mil
GENERAL	5	\$3.5 Mil
TOTAL	153	\$150.0 Mil

FY 2023/24 Capital Improvement Program Performance

Actual Cost to Budgeted Cost FY 23/24



Historic Project Counts



Upcoming RFPs - Water

- Coming Soon
 - Comprehensive Booster Station Assessment – July/August 2024
 - Pettit Tanks (2 - 4.5 MG) – Preliminary Design Refinement and VE – October/November 2024 (\$35M)
- Within ~12-months
 - Sun City Leaky Pipeline Phase 4 – Final Design (\$2.5M)
 - Sun City Leaky Pipeline Phase 5 – Final Design (\$3.0M)
 - Well 84D Equipping (\$4M)
 - Well 56 Wellhead Treatment – Final Design (\$9M)
 - Well 57 Wellhead Treatment – Prelim. Design (\$6M)
- Contact
 - Greg Kowalski P.E.
Engineering Manager
kowalskg@emwd.org

Upcoming RFPs – Wastewater/Reclamation

- Wastewater
 - MVRWRF Rehab & Expansion Project (\$65M incl soft cost) – 2024 RFP
 - PVRWRF Interim Improvements (Reduced to \$20M for “phase 1”)- late 2024/early 2025 RFP
 - PVRWRF Misc Rehabilitation Projects (\$15M) – late 2024
 - SJVRWRF Misc Rehabilitation Projects (\$15M)- late 2024/early 2025
 - TVRWRF Misc Rehabilitation Projects (\$15M)- late 2024/early 2025
 - Cawston Lift Station (\$25M) – 3Q 2024
- Reclamation
 - Rider St 21-inch sewer(\$4M)- 2025
 - French Valley RW Gap Pipeline (\$5M) – 2025 RFP
 - Bradley Rd South RW pipeline (\$5M) - 2025
 - Winchester Rd 24-inch RW pipeline corrosion protection 2025
 - Corrosion Protection – Misc PW and RW pipelines (i.e. our annual allocation): late 2024/early 2025
- Contact
 - Scott Toland P.E.
Engineering Manager
tolands@emwd.org

Upcoming RFPs – Construction Services

- Coming Soon
 - TVRWRF & PVRWRF Side Stream Treatment (Summer 2024)
- Within ~12-months
 - Goetz Road Prestressed Tank and Transmission Main (Fall 2024)
 - SJAWPF & Associated Pipeline (Early 2025)
- Contact
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Contact Information

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