



Homeless Encampment
Phase 1A: Water Quality
Monitoring and Trash
Assessments Program

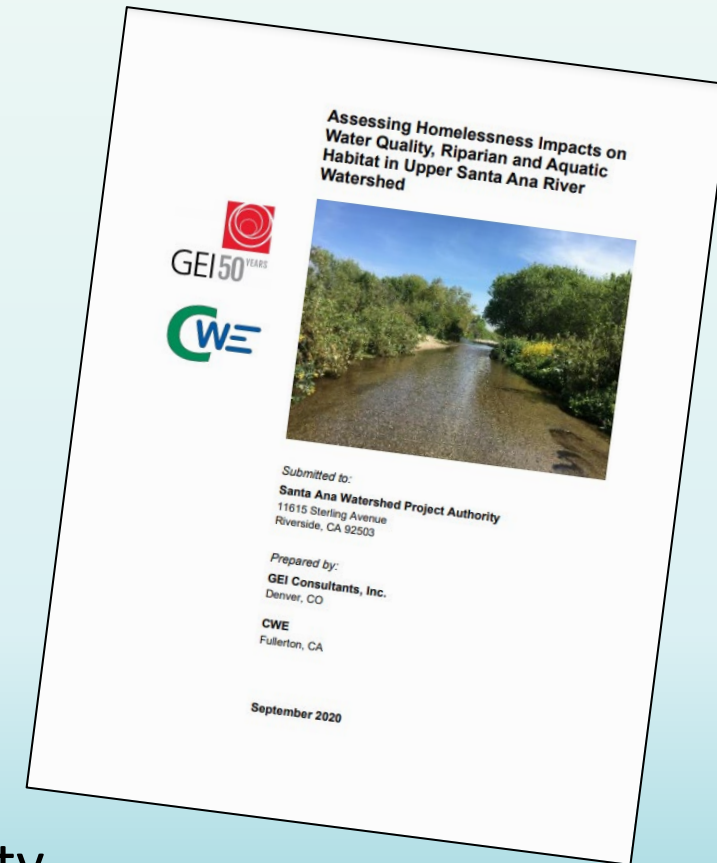
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BACKGROUND

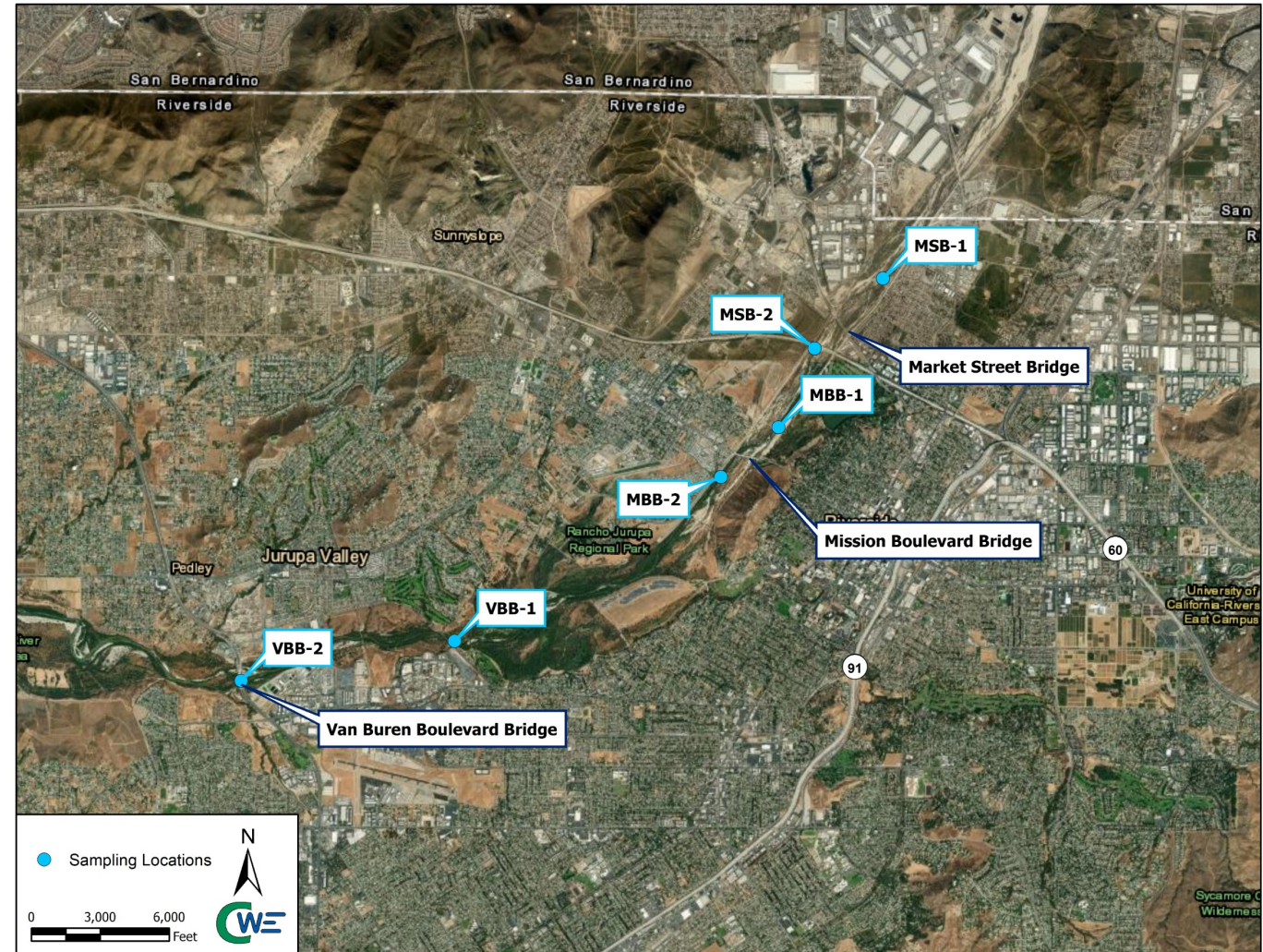
In December 2018, SAWPA commissioned a two-part study:

- **Task 1 – Literature Review and Assessment of Existing Information**
 - Assess current nature and extent of stream and waterbody-adjacent homeless encampments in the upper watershed
 - Provide best information about the relationships between presence of homeless encampments and impacts to water quality and riparian/aquatic habitats
- **Task 2 – Preparation of Preliminary Monitoring Program**
 - Develop a Preliminary Monitoring Program to assess the potential impacts of homeless encampments on water quality and riparian and aquatic habitats



PHASE 1A MONITORING PROGRAM

- Upstream and downstream monitoring locations of three major encampments:
 - *Market Street Bridge (MSB-1, MSB-2)*
 - *Mission Boulevard Bridge (MBB-1, MBB-2)*
 - *Van Buren Boulevard Bridge (VBB-1, VBB-2)*
- Preliminary Field Visits to confirm existence and density of encampments
 - *July 15, 2021 (complete)*
 - *August 26, 2021*
- Four Dry Weather Events
 - *September through December 2021*



AERIAL VIEW OF VAN BUREN BOULEVARD BRIDGE

- **VBB-1 (upstream site)**
 - Located upstream of the Union Pacific Railroad Bridge
 - Accessed via Santa Ana River Trail near Wilderness Avenue
- **VBB-2 (downstream site)**
 - Located just upstream of the Van Buren Boulevard Bridge
 - Accessed via Santa Ana River Trail or northeast corner of the VBB bridge
 - Avoiding confluences with RWQCP effluent outfall and Hole Lake



ESTIMATION OF VBB ENCAMPMENTS (JUNE 26 & 27, 2021)

- SAWPA obtained 3-inch high resolution imagery of the Santa Ana River Watershed
 - *Estimated 144 encampments within the Van Buren Blvd sample reach; total of 430 encampments estimated between Van Buren Blvd and Riverside Ave Bridges*



VAN BUREN BOULEVARD BRIDGE (JULY 15, 2021)



MISSION BOULEVARD BRIDGE (JULY 15, 2021)



MARKET STREET BRIDGE (JULY 15, 2021)



NEXT STEPS

- Conduct Second Preliminary Field Visit on August 26th, 2021
- Conduct First Dry Weather Event in September (~September 16)
 - *Collect water quality samples for Total Suspended Solids, E. coli, and Human Fecal Marker 183 (HF 183)*
 - *Collect water quality parameters (Temperature, pH, Dissolved Oxygen, Turbidity, Conductivity)*
 - *Perform Rapid Trash Assessments using California State Water Board protocol*

1) <i>Level of Trash</i>	4) <i>Threat to Human Health</i>
2) <i>Number of Items Found</i>	5) <i>Illegal Dumping</i>
3) <i>Threat to Aquatic Life</i>	6) <i>Accumulation of Trash</i>



Questions