

Dear American River Board of Trustees,

My name is Beti Girma and I am a water resource control engineer with the State of California. I would be thrilled to have the opportunity to serve on the American River Flood Control District Board of Trustees and apply my knowledge and skillset for public service. I received my B.S. in Civil Engineering from Stanford University, with a particular focus on environmental water studies. I took a number of classes that prepared me well for water engineering, from the more technical courses such as multivariable calculus, fluid hydraulics, and open-channel flow, to the more management focused courses such as construction management, engineering economics, and environmental planning. I currently work as an engineer for the State Water Resource Control Board and spend much of my time on the lead sampling in schools program, a program created to ensure safe and clean drinking water for K-12 students in California. Though I thoroughly enjoy what I do, my work focuses more on water quality rather than hydraulics and management, and I want to be able to use the engineering and management skills I developed through studying for my degree to work in environmental management. Because of this, I believe serving on the board would be a great opportunity for me to satisfy that desire to work in environmental and water management and be involved in the engineering and maintenance components as well as the financial components of managing a flood control district. Additionally, I value public service and believe this opportunity would be a great way for me to serve my community directly. As a proud resident of midtown, I love my community and I want to ensure that I and my neighbors are protected from any flooding events throughout the year. Being on the board would allow me to combine my love of engineering with my love for the City of Sacramento. Thank you for taking the time to read my statement and I hope to hear from you soon.

Regards,

Betelhem (Beti) Girma

**BETI GIRMA**  
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Email: b.girma20@gmail.com

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## **EDUCATION**

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### **Stanford University, Stanford, CA – June 2016**

- B.S in Civil Engineering – Environmental and Water Studies
  - Minor in African Studies
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## **EXPERIENCE**

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### **State Water Resources Control Board – Division of Drinking Water (DDW)**

7/17 – present

Water Resource Control Engineer – Sacramento, CA

- Worked with the Program Management Branch to analyze and submit statewide drinking water data into the Safe Drinking Water Informational System.
- Served as the program manager for AB 746, the Lead Sampling of Drinking Water in Schools Program.
- Used Microsoft Access, Excel, and ArcGIS to analyze and present drinking water data for AB 746.
- Directed DDW staff, utilities, and county and city agencies regarding proper AB 746 implementation processes.

### **State Water Resources Control Board – Division of Water Rights**

4/17 – 7/17

Water Resource Control Engineer – Sacramento, CA

- Worked with the Drought Unit within the Division of Water Rights to assess water availability during the 2016-2017 drought.
- Utilized ArcGIS to create maps of water availability and diversion data by georeferencing patents and place of use maps. I used these maps to determine the validity of a claimant's pre-1914 appropriative and/or riparian rights.

### **West Yost Associates**

8/16 – 3/17

Engineer 1 – Davis, CA

- Worked on a variety of infrastructure and water engineering projects for a number of clients including but not limited to The City of Stockton, The City of Tracy, The City of Hayward, and The City of Fresno.
- Used AutoCAD Civil 3D to develop as-built maps using existing utility maps and to design new pipe locations for recycled water and storm water pipes.
- Used GIS for spatial analysis and open channel flow water modeling.

### **Technical University Berlin – Department of Urban Water Management**

Research Intern – Berlin, Germany

6/15 – 9/15

- Conducted literature research on the amount and environmental effects of microplastics and plastics in the aquatic environment, as well as new policy implementations concerning microplastics.
- Was involved in field work, including taking and analyzing samples from a wastewater treatment plant and stormwater sewers.

### **American Association for the Advancement of Science**

Intern - Washington, D.C.

6/14 – 9/14

- Worked with the Scientific Responsibility, Human Rights, and Law Program.
- Researched and compiled reports on a wide array of topics, including ethics in computer technology, responsible innovation, human rights in Latin America, scholars at risk around the world, and environmental justice.

### **Intergovernmental Panel on Climate Change**

Intern - Stanford, CA

6/13 – 12/14

- Assisted the Working Group II Technical Support Unit in fact checking multiple chapters of the 5<sup>th</sup> Assessment Report and evaluated the report's focus on vulnerability in developing countries.
  - Published editor for the 5<sup>th</sup> Assessment Report of the IPCC Working Group II.
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## **LEADERSHIP & ACTIVITIES**

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### **International Rescue Committee**

Occasional Volunteer – Sacramento, CA

10/16 – present

### **American River College Orchestra**

Second Violinist – Sacramento, CA

8/17 - present

### **Engineers Without Borders – Sacramento Professional Chapter**

Kenya team project member – Sacramento, CA

12/18-present