## Land | Water | Air

Community Design for Equitable Futures in the Duwamish Valley

MLA Capstone Project Exhibition Georgetown Steam Plant

Friday, May 31, 2024 5:30-8:00p

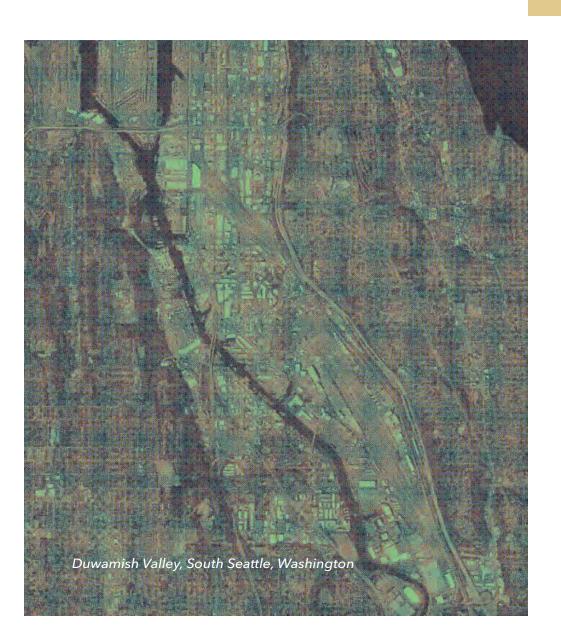
#### **Work Authored By:**

Malka Hoffman Nat Gregorius Kat Golladay Meredith Grupe Meaghan O'Connor Lenth Daquan Proctor

**Advised By:** 

Catherine De Almeida, Associate Professor

#### description



This exhibition showcases the research and design efforts of three graduate student projects in the UW Landscape Architecture Department advised by Associate Professor Catherine De Almeida. Each project addresses distinct environmental injustices in the Duwamish Valley of South Seattle.

#### **LAND**

Repairing Waste Relations focuses on Seattle's solid waste management system and its disproportionate impact on the Duwamish Valley. This design research aims to make purposefully invisibilized systems visible; support a culture of care and collective agency of land, people, and material; and create accessible resources for community to further existing efforts toward a Regenerative Waste Economy.

Authors: Malka Hoffman and Nat Gregorius

#### **WATER**

Pollution Prevention: Mitigation Strategies for the Duwamish River and its Inhabitants offers Green Stormwater Infrastructure strategies focused on improving the Duwamish River's water quality. Authors: Meaghan O'Connor Lenth, Meredith Grupe, and Kat Golladay

#### **AIR**

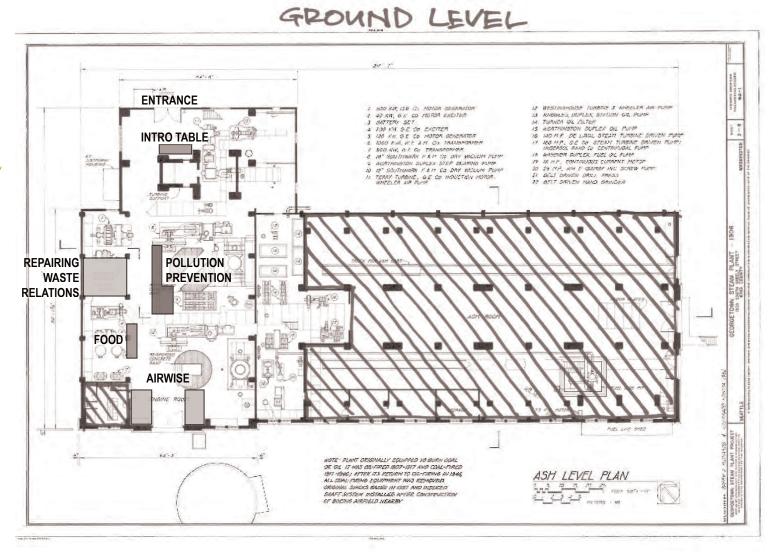
AirWise: Collection for Clean
Air is centered on air quality
enhancement, emphasizing the
importance of environmental justice
and community health disparities.
This project asks, "How can
design interventions in the built
environment address air quality
health inequities, and foster a more
equitable urban environment?"
Author: Daquan Proctor

#### description

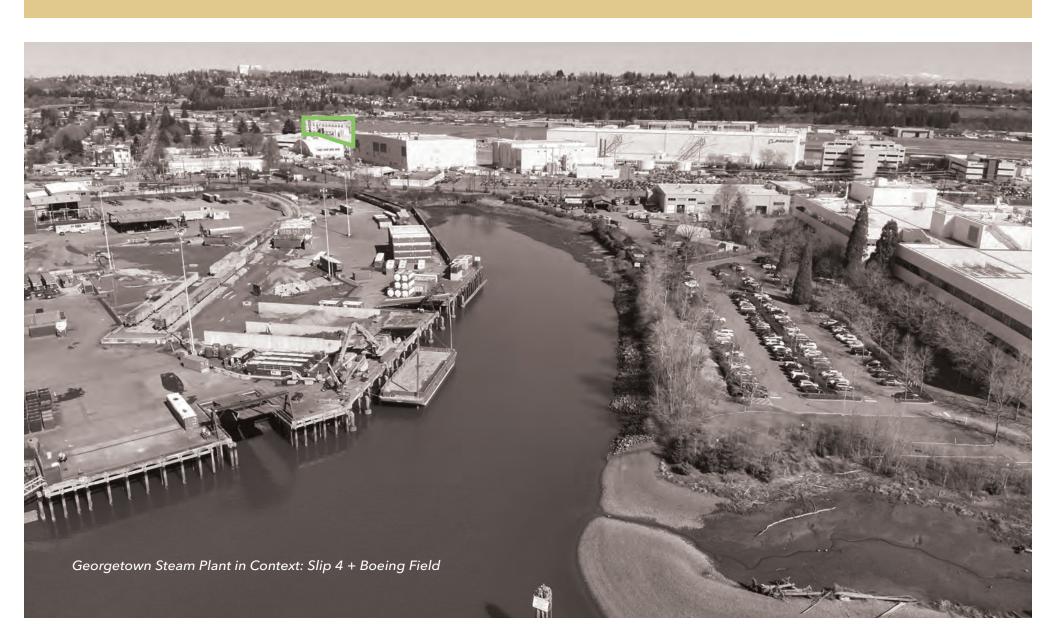
### exhibition layout

The work exhibited in this event seeks to center and amplify Duwamish Valley communities through design research tools such as mapping, case study analysis, and speculative visioning.

We acknowledge that our work and studies take place on the ancestral lands of the Coast Salish peoples including the Muckleshoot, Suquamish, and Duwamish Tribes, and stand in solidarity with all Native peoples and their continued struggle towards justice and sovereignty.



## georgetown steam plant



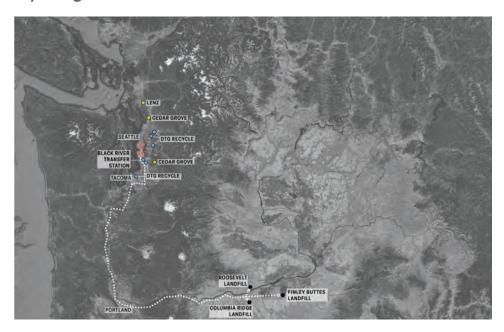
# LAND

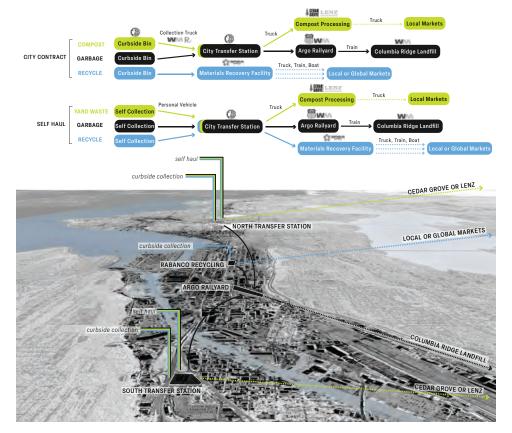
### REPAIRING WASTE RELATIONS

Repairing Waste Relations focuses on Seattle's solid waste management system and its disproportionate impact on the Duwamish Valley. This design research aims to make purposefully invisibilized systems visible; support a culture of care and collective agency of land, people, and material; and create accessible resources for community to further existing efforts toward a Regenerative Waste Economy.



#### Repairing Waste Relations









Iris and Jackson pack up a bag of things to take to their local Material C Iris can exchange her shirt for something that fits better.



Iris, Grandpa Joe, and The Shirt spend their morning on a walk through their neighborhood. Iris tells Grandpa Joe all about the "Trash to Treasure" art class she's taking at Seattle ReCreative in Georgetown this summer.





Ario pulls up to the 13th Avenue South Material Commons and unloads some materials into the categorized bins. Other neighbors are there dropping off and picking up their supplies, as well as hanging out in the gathering space, and shopping at the Free Store.



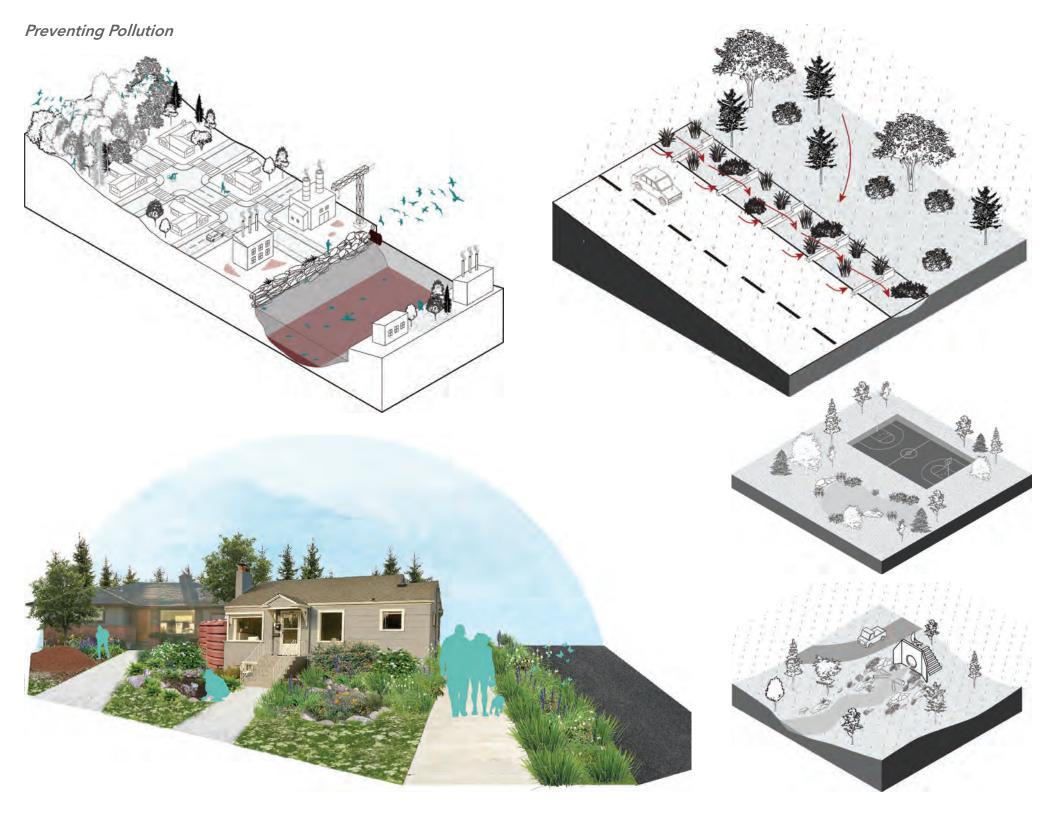




# WATER PREVENTING POLLUTION

Preventing Pollution aims to mitigate the ongoing pollution of the Duwamish River by connecting and amplifying existing community efforts, conducting spatial analysis, and developing speculative scenarios for functional outdoor spaces. Utilizing methods such as GIS mapping, literature reviews, and both site-based and transect-based design approaches, we identify critical areas for intervention and propose scalable solutions.





# AIRWISE

The built environment plays a crucial role in shaping health outcomes. Airwise, focuses on the disparities exacerbated by air quality within urban settings. The research employs a place-conscious approach to unveil the unequal distribution of environmental risks and harms, particularly affecting marginalized communities in the Duwamish Valley. Applying a health equity framework, the project progresses through phases of exploration, localization, strategy development, and communication, with the aim of providing actionable design interventions to mitigate health inequities. The research serves as a practical guide for designers and communities, emphasizing the transformative potential of health equity-driven design interventions in fostering healthier and more equitable urban environments.





FILTERED NATURAL VENTILATION

