

2022-23 OHS AESA Senior Capstone Project Resource Guide

OUSD Contacts, Systems & Structures

[ESA Capstone Action Project Overview](#) [ESA Capstone Research Questions, 2022-23](#)

"You have to act as if it were possible to radically transform the world. And you have to do it all the time." — Angela Davis

Message from Sarah: *Reach out to me anytime at sarah.pipping@ousd.org*



Hi OHS AESA Seniors. My name is Sarah and I work at The Center, OUSD's new Central Kitchen, Garden and Education Center. That's a picture of me fronting as a gardener in my overalls at The Center. Before working at The Center I worked for OUSD's STEM Team, nerding out with other OUSD Science teachers (like Ms. Tao!) about science education. Before that I taught 8th grade science at Life Academy and 9th grade Biology at Skyline High School. I've been in OUSD since 2010. Before that I was living my best college life at the University of Wisconsin Madison earning a Biology and Spanish degree and working as a stadium food server, at a food testing lab and babysitter. Before that I was in High School like you, but in my hometown of Wauwatosa, Wisconsin. For many years I was just a kid in my family of 5 (older sister, younger brother, mom and dad, plus cats) that loved spending time with my cousins on my Grandparents dairy farm and playing soccer and basketball. I still enjoy those things, but now also enjoy learning more about nature, hiking in the East Bay Parks, reading memoirs, eating Ethiopian food and going to trivia. A saying I heard recently that I'm pondering is: "be where your feet are" and that's my current life motto. I don't know if you needed to know all that, but I think it's important to know a bit about one another. I'm looking forward to getting to know you better over the course of this year and perhaps beyond.

I found out about your Senior Capstone Projects and I'm inspired. This is really important work and it's my belief that if you really care about your project, get realistic about your actions and collaborate with others, we can make something transformative and lasting happen. I wish I had been pushed to do a Senior Project way back when. If I had to choose my senior project today, it would be something about self sufficiency, disaster/apocalypse preparedness, community resilience and survival skills. I hope you see your capstone as a useful, meaningful opportunity. Anyways, you can tell me more when we meet. While I'm not an expert in any of your topics, I'm looking forward to learning from and with you all. One thing I am passionate about is systems thinking and connection, so I'm hoping I can be a useful resource to you to help you navigate OUSD and the people and systems that connect to the project you are focused on. Just keep in mind that this doc was created from my perspective and there's a lot I don't know or that I unfortunately will likely leave out or not represent. I'll be connecting with some other OUSD friends that can hopefully contribute to the document over time if you end up finding it to be useful to your work. Another thing to mention is that this does not include or honor the deep histories, stories and intersections of all these topics and work. That understanding, acknowledgment and connection is essential to any work we might aim to achieve.

So with all that, here is a little resource doc for you so that you know of a few people in the District that work on your research topic and have quick access to some OUSD-specific resources to check out and guide your thinking. Our district is where over 30,000 Oakland kids spend the majority of their time, so if we can make our district a healthier, safer, more sustainable place, we can have a HUGE impact on our community.

This resource is organized by Research Topic, with some additional commentary for each project idea. Check it out. I'm curious to hear what you think and where you're at in your projects. Click on your Research Topic to jump to the section of this document for resources aligned to your area of study - good luck on your work and see you soon.

- [Food Waste](#)
- [Air Quality](#)
- [Urban Heat Islands](#)
- [Energy Conservation](#)
- [Declining Pollinators](#)
- [Environmental Design Impact](#)
- [Transportation](#)
- [Water](#)

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Research Topic:	Food Waste	
Key OUSD Contacts*		
Name	Job Title	Email
Nancy Deming	Sustainability Manager, Nutrition & Custodial Services	nancy.deming@ousd.org
Paula Kaltenbrunner	OUSD Waste Reduction Associate, Climate Corps Fellow	paula.kaltenbrunner@ousd.org
Amy Glodde	Interim Executive Director of Nutrition Services	amy.glodde@ousd.org
Roland Broach	Executive Director of Custodial Services	roland.broach@ousd.org
	Oakland High School Cafeteria Manager	
Sherman	Oakland High Head Custodian	
Annie Sasan	Oakland High Environment-Food-Garden Champion	anne.sasan@ousd.org
Kenta Maniwa	Oakland High Environment-Food-Garden Champion	kenta.maniwa@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD Nutrition Services Webpage	Learn more about our school meals, the nutrition services team and related school meal programs and resources. Here	
OUSD Sustainability Webpage	OUSD’s Sustainability Department aims to provide all OUSD students, school staff and the community with solutions to promote District-wide sustainability – lessening greenhouse gas emissions throughout the District. The OUSD Sustainability Staff works to improve OUSD schools through our sustainability areas of focus: Energy Efficiency, Water Resilience, Waste Reduction, Green Infrastructure. The Waste Reduction subpage is the most relevant to Food Waste.	
Green Gloves Program	The Green Gloves program is all about building community capacity for properly sorting and reducing our waste. Nancy and Paula work with custodial and nutrition services staff, teachers and students to make this a reality, making sure schools have 3-bin systems throughout the campus and proper custodial gear, supporting food share and food donation, creating educational resources, and collaborating with students, classes and green teams on waste reduction efforts. Check out the resources - you’ll find videos, lots of pictures and signage, lessons and more.	
Launch and Resources	If you need help with where to start with waste reduction, check out our Waste Sorting Launch Resources Slide Deck . It includes educational resources like videos and activities plus lots of links to other resources if you want to dive deeper!	

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Documentaries	<ul style="list-style-type: none"> • Just Eat It: A Food Waste Story Nearly 50% of food ends up in the trash. Follow food's journey from farm, to retail, to fridge to see the causes of food waste. Length: 1:13 Grades: 3-12 • The Story of Stuff Video series on a variety of topics
Organization resources references	StopWaste , Refed , NRDC , Food Forward ,
ousd.org Food Waste search results	These are the results of searching "food waste" on the ousd.org website. While I haven't personally read all the results, there is likely a lot of information about food waste in OUSD and District efforts around food waste here!
OUSD Board Policies	You can do a search to see where and how Food Waste shows up in OUSD Board Policies here . Food Waste is called out in the current Wellness Policy ,
Project Ideas - OUSD Commentary from Sarah's experience & Additional Resources	
Project Ideas	Commentary
Change the Cafeteria Menu	<p>This is a worthy and important idea, but it is challenging to do and takes a long time. We do believe that student input should guide our District cafeteria menu. Did you know you can look at your cafeteria menu at any time here. So much goes into designing the cafeteria menu and Nutrition Services staff work tirelessly to source, order and prepare high quality, nutritious meals for students that follow the USDA school food program guidelines. With the opening of The Center, Nutrition Services has developed a long-term plan to revamp the school food menu and cook fresh, diverse menu items at The Center. A first step in this work is understanding how meals are designed and understanding what it takes to add a new menu item. Check out:</p> <ul style="list-style-type: none"> • USDA Learn about School Lunch • USDA School Breakfast Program • USDA School Lunch Program
Food Share Carts - unopened food gets put there and donated	Yay for Food Share Carts! Do you have one at Oakland High? Nancy & Paula and your Oakland High Nutrition Services & Custodial staff can support you with this. Here you can find Food Share information and resources. FYI: Our ideal cafeteria waste sorting set-up looks like this - see the Food Share cart at the front of the "line"?
Donation of extra cafeteria food to shelters/unhoused	A very worthy pursuit! We have a partnership with a local organization for our Food Donation program. Nancy and Paula can share more with you. Here you can find Food Share information and resources.
3-stream bin system (focus on composting)	We have the resources to make sure every area of the school has the proper waste bin system. This order form for Custodial Services, describes the sorting systems/bin set-ups available and some tips and guidelines. A big issue at our campuses is contamination - meaning even when we have the 3 bin system in place, we are not sorting properly as a community and bins get contaminated (meaning items are thrown in the wrong bin). What

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	issues do you observe at Oakland High? What are your custodial teams observations and thoughts? What do you mean by “focus on composting”?
Food drive to donate to the unhoused	At the moment, I don’t have any OUSD-specific commentary for this one. However, you can always search any topic on the ousd.org website, here are the results for searching “food drive”.

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OUSD Contacts, Systems & Structures

Research Topic:	Air Quality	
Key OUSD Contacts*		
Name	Job Title	
Preston Thomas	Chief Systems and Services Officer	preston.thomas@ousd.org
Sorbor Twegbe	Environmental Health & Safety Manager	sorbor.twegbe@ousd.org
Kimberly Raney	Transportation Executive Director	kimberly.raney@ousd.org
Kat Romo	School Gardens & Living Schoolyards Program Manager	kat.romo@ousd.org
Marc White	Buildings and Grounds Director	marc.white@ousd.org
Mark Cavalli	Buildings and Grounds Coordinator	mark.cavalli@ousd.org
OUSD Garden Council	n/a - an interdepartmental District team which meets monthly to develop and refine learning garden policies and systems, review and approve project proposals and ensure oversight and sustainability of all school gardens. Kat leads this council and Mark Cavalli is a member, along with other representatives from across the District. Learn more about the OUSD Garden Council here .	gardencouncil@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
ousd.org Air Quality search results	These are the results of searching “air quality” on the ousd.org website. While I haven’t personally read all the results, there is likely a lot of information about air quality in OUSD and District efforts around air quality. This appears to be the main page on the topic.	
OUSD Board Policies	You can do a search to see where air quality shows up in OUSD Board Policies here . Air quality is called out twice in the Climate Emergency Action Plan Resolution , is a key component of the Physical School Environment focused on in the current Wellness Policy , called out as a benefit of living schoolyards in the Living Schoolyards Policy and named in the District’s Environmental Safety policy and administrative regulations. The District is currently working on passing a Sustainability Policy .	
OUSD School Gardens Toolkit	This has <i>nearly</i> everything you’ll need to know about the OUSD School Gardens Program with lots of helpful information about gardening and guidelines and tips for school gardens. If you want to work on your school garden or green your campus, this is your best friend.	
City of Oakland Equitable Climate Action Plan	The Oakland ECAP was passed in July 2020. The 2030 ECAP establishes actions that the City and its partners will take by 2030 to equitably reduce Oakland’s climate emissions and adapt to a changing climate. “Air quality” shows up 21 times, “bus” shows up 146 times, “bike” shows up 26 times and “trees” shows up 19 times in the ECAP .	

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Project Ideas - OUSD Commentary <i>from Sarah's experience</i> & Additional Resources	
Project Ideas	Commentary
Installing Air Filters at School	There have been a lot of ventilation upgrades since the start of the pandemic and increasing threat from wildfires...Preston Thomas or another OUSD staff member should be able to tell you all about that or direct you to the proper information. Your custodian likely has insight to share as well as they were instrumental in installing and maintaining air filters throughout the school during the pandemic. Also, I found this on the OUSD Sustainability webpage, Green Infrastructure subpage : "Indoor Air Quality: In collaboration with Lawrence Berkeley National Laboratory, Healthy Schools Campaign strives to improve indoor air quality at schools." Could be something to look into.
Bike share program	On the OUSD Sustainability webpage, Green Infrastructure subpage it states: "Safe Routes To School Program: Oakland Unified School District partners with the Alameda County Public Works Department and the City of Oakland Police Department. Source: Alameda Public Health Department: https://acphd.org/nutrition-services/programs/safe-routes-to-school/ ". The OUSD Wellness Policy also states: "
Bus only lane in front of the school	This sounds like a City of Oakland conversation, but could also be related to the Safe Routes to School Program. On the OUSD Sustainability webpage, Green Infrastructure subpage it states: "Oakland Unified School District partners with the Alameda County Public Works Department and the City of Oakland Police Department. Source: Alameda Public Health Department: https://acphd.org/nutrition-services/programs/safe-routes-to-school/ ".
Educating students about poor air quality locations at school (so vulnerable students can mask/avoid)	Here is the main ousd.org page on Air Quality. On the OUSD Sustainability webpage, Green Infrastructure subpage : "Indoor Air Quality: In collaboration with Lawrence Berkeley National Laboratory, Healthy Schools Campaign strives to improve indoor air quality at schools." Could be something to look into. I wonder what public health initiatives have done work similar to this. I'm also wondering what the sources or causes of certain areas with poorer air quality might be. Maybe you could partner with a graduate or PhD student, someone studying indoor air quality.
Plant trees	Are you thinking on campus or off campus? What types of trees? How will they be cared for? How are the trees on campus and around the school doing? If you're interested in trees on campus, take a look at the OUSD School Garden Toolkit for information about tree planting. Note: <i>All tree plantings need prior approval from the OUSD Garden Council prior to planting.</i> The OUSD School Garden Toolkit explains how to submit proposals and work with OUSD Garden Council - read this section . Embedded in the OUSD School Gardens Toolkit is also this helpful guide: Plants for Living Schoolyards .

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Research Topic:	Urban Heat Islands	
Key OUSD Contacts*		
Name	Job Title	
Kat Romo	School Gardens & Living Schoolyards Program Manager	kat.romo@ousd.org
Marc White	Buildings and Grounds Director	marc.white@ousd.org
Mark Cavalli	Buildings and Grounds Coordinator	mark.cavalli@ousd.org
Tadashi Nakadegawa	Facilities Director	tadashi.nakadegawa@ousd.org
Facilities Team		
Preston Thomas	Chief Systems and Services Officer	preston.thomas@ousd.org
OUSD Garden Council	n/a - an interdepartmental District team which meets monthly to develop and refine learning garden policies and systems, review and approve project proposals and ensure oversight and sustainability of all school gardens. Kat leads this council and Mark Cavalli is a member, along with other representatives from across the District. Learn more about the OUSD Garden Council here .	gardencouncil@ousd.org
Annie Sasan	Oakland High Environment-Food-Garden Champion	anne.sasan@ousd.org
Kenta Maniwa	Oakland High Environment-Food-Garden Champion	kenta.maniwa@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD Board Policies	You can do a search to see where air quality shows up in OUSD Board Policies here . Heat is mentioned twice in the Climate Emergency Action Plan Resolution and the District is currently working on passing on Sustainability Policy . The Living Schoolyards Policy states that one of the core goals of the transformation of our schoolyards is “Strengthen OUSD’s Environmental Resilience. OUSD living schoolyards will contribute to the ecological health of their neighborhoods by planting shade trees to improve climate resilience and air quality, capturing, infiltrating and treating stormwater on site, and creating wildlife habitat by using native plants.” Contact Kat Romo to learn more about the Living Schoolyards work.	
OUSD School Gardens Toolkit	This has nearly everything you’ll need to know about the OUSD School Gardens Program with lots of helpful information about gardening and guidelines and tips for school gardens. If you want to work on your school garden or green your campus, this is your best friend. We are also working on a Living Schoolyards Materials & Standards Manual which will have lots of information about how we can green our campuses.	

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OUSD Sustainability Webpage	OUSD's Sustainability Department aims to provide all OUSD students, school staff and the community with solutions to promote District-wide sustainability – lessening greenhouse gas emissions throughout the District. The OUSD Sustainability Staff works to improve OUSD schools through our sustainability areas of focus: Energy Efficiency, Water Resilience, Waste Reduction, Green Infrastructure. The Green Infrastructure subpage may be most relevant to Urban Heat Islands.
City of Oakland Equitable Climate Action Plan	The Oakland ECAP was passed in July 2020. The 2030 ECAP establishes actions that the City and its partners will take by 2030 to equitably reduce Oakland's climate emissions and adapt to a changing climate. "Urban Heat Island" shows up 4 times in the ECAP . The City of Oakland's Sustainability webpage may also lead to some interesting findings and ideas.
Project Ideas - OUSD Commentary from Sarah's experience & Additional Resources	
Project Ideas	Commentary
Plant a garden	Where do you want to plant a garden? At school? On city property? At home? If you want to plant a garden at school, consider what the current status of your Oakland High School Garden is and who is taking care of it. Check in with your schools Environment, Food and Garden Champions, Annie Sasan and Kenta Maniwa, to learn more about the EFG Program and support for school gardens. Ensuring the existing school garden spaces have the right stewardship is the place to start before adding additional plantings or green space. If you're interested in expanding your school garden, begin by reading this section of the OUSD School Gardens toolkit to learn about the process.
Repaint the asphalt to be heat reflective	Interesting. I don't know much about this, but we've been seeing some OUSD News come through about all the new murals we are adding to our schools. I also know that as part of their Living Schoolyard design, Markham Elementary had a ground mural painted on their asphalt . However, I'm not sure if it has an ecological function. To get the right information about painting asphalt, you'll want to talk to OUSD's Facilities and Buildings & Grounds department as a start. I would also contact Preston Thomas.
Build Green Facades	Neat! I don't know much about green facades, nor do I think I've seen one at an OUSD school, but I do know anytime we plan to add a new green element to our campus we have to take ownership over it, steward the green infrastructure and have a plan for continued maintenance. OUSD employs ~8 gardeners and those gardeners take care of the landscaping at <i>all</i> of our 78 schools. So when we add more green infrastructure, it is no longer the responsibility of our District gardeners and the school community takes over stewardship of that area and it's essential that it is cared for and well maintained so that it doesn't become a hazard because then it has to be removed. If you're interested in expanding your school garden, begin by reading this section of the OUSD School Gardens toolkit to learn about the process.
Change out the astroturf?	I don't know about this. To get the right information, you'll want to talk to OUSD's Facilities and Buildings & Grounds department as a start. I would also contact Preston Thomas.

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Research Topic:	Energy Conservation	
Key OUSD Contacts*		
Name	Job Title	
Tadashi Nakadegawa	Facilities Director	tadashi.nakadegawa@ousd.org
Facilities Team		
Hiring for this position	Sustainability Manager, Facilities	
Hannah Press	Project Analyst - Planning/Implementation, Facilities	hannah.press@ousd.org
Chalyna Lazo	Climate Corps AmeriCorps Fellow, Facilities	chalyna.lazo@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD Facilities Master Plan	A school-district’s Facilities Master Plan describes a set of building and renovation projects that a district will pursue to support its educational mission.	
OUSD Sustainability Webpage	OUSD’s Sustainability Department aims to provide all OUSD students, school staff and the community with solutions to promote District-wide sustainability – lessening greenhouse gas emissions throughout the District. The OUSD Sustainability Staff works to improve OUSD schools through our sustainability areas of focus: Energy Efficiency, Water Resistance, Waste Reduction, Green Infrastructure. The Energy Efficiency subpage will be the most helpful.	
Project Ideas - OUSD Commentary from Sarah’s experience & Additional Resources		
Project Ideas	Commentary	
Install solar battery	What does this mean exactly? Having solar power at school and storing it in a battery? Hannah Press let me know that the Facilities team is working on solar for about 16 OUSD sites right now. Here is where solar has been installed. “Solar” shows up 11 times in our Facilities Master Plan and the plan states that in the future we will pursue “Innovations in back-up battery storage and solar cells occur”. On the Energy Efficiency subpage it states “Solar and Battery projects approved by OUSD Board on December 15, 2021, unanimously. Implementation of this battery project is underway in 2022.” The way I learned about solar and batteries by was completing the We Share Solar project with my 8th graders. Contact Anna Gomberg (anna@wecaresolar.org) if you’re curious about that work.	
Replace with LED lights	I’m not sure about the status of our lighting fixtures. Contacting the Facilities team should help us get an answer!	
Schoolwide blackout schedule	It would be interesting to see the impact on your schools energy use based on your blackout schedule. The Facilities team can work with PG&E to help you get data on your school’s energy use. There are also lots of organizations that work on Energy Conservation and have	

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	competitions for schools to take part in. Maybe you'd like to participate in one of those - you could win prizes and recognition for Oakland High. Here is an example of one of those competitions from the past.
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Research Topic:	Declining Pollinators	
Key OUSD Contacts*		
Name	Job Title	
Kat Romo	School Gardens & Living Schoolyards Program Manager	kat.romo@ousd.org
OUSD Garden Council	n/a - an interdepartmental District team which meets monthly to develop and refine learning garden policies and systems, review and approve project proposals and ensure oversight and sustainability of all school gardens. Kat leads this council and works with representatives from across the District. Learn more about the OUSD Garden Council here .	gardencouncil@ousd.org
Annie Sasan	Oakland High Environment-Food-Garden Champion	anne.sasan@ousd.org
Kenta Maniwa	Oakland High Environment-Food-Garden Champion	kenta.maniwa@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD School Gardens Toolkit	This has <i>nearly</i> everything you'll need to know about the OUSD School Gardens Program with lots of helpful information about gardening and guidelines and tips for school gardens. If you want to work on your school garden or green your campus, this is your best friend.	
Project Ideas - OUSD Commentary from Sarah's experience & Additional Resources		
Project Ideas	Commentary	
Plant a native garden	Are you aspiring to plant a native garden at school? If so, consider what the current status of your Oakland High School Garden is and who is taking care of it. Check in with your schools Environment, Food and Garden Champions, Annie Sasan and Kenta Maniwa, to learn more about the EFG Program and support for school gardens. Ensuring the existing school garden spaces have the right stewardship is the place to start before adding additional plantings or green space. If you're interested in expanding your school garden, begin by reading this section of the OUSD School Gardens toolkit to learn about the process.	
Paint a mural + social media	I don't know much about this, but we've been seeing some OUSD News come through about all the new murals we are adding to our schools. To get the right information about painting asphalt, you'll want to talk to OUSD's Facilities and Buildings & Grounds department as a start. I would also contact Preston Thomas. For communications related work, reach out to John Sasaki (john.sasaki@ousd.org) OUSD's Communications director. Also, here is OUSD's Social Media Toolkit .	

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Research Topic:	Environmental Design Impact	
Key OUSD Contacts*		
Name	Job Title	
Kat Romo	School Gardens & Living Schoolyards Program Manager	kat.romo@ousd.org
Annie Sasan	Oakland High Environment-Food-Garden Champion	anne.sasan@ousd.org
Kenta Maniwa	Oakland High Environment-Food-Garden Champion	kenta.maniwa@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD School Gardens Toolkit	This has <i>nearly</i> everything you'll need to know about the OUSD School Gardens Program with lots of helpful information about gardening and guidelines and tips for school gardens. If you want to work on your school garden or green your campus, this is your best friend.	
Project Ideas - OUSD Commentary <i>from Sarah's experience</i> & Additional Resources		
Project Ideas	Commentary	
fundraising/donation for teacher fund for lights, plants, fake windows, decorations for classrooms	I don't think there's a department or staff member in OUSD dedicated to classroom interior design, although that would be cool. I was also transfixed by these "classroom eye candy" posts from one of my favorite educational bloggers. Also, I came across this book at a workshop I went to, The Space: A Guide for Educators , and while I haven't had the chance to read it, it definitely looked interesting to me. There are likely grants out there that could probably help with this too or maybe a local college design class would want to help.	
Planting trees around school	Are you thinking on campus (OUSD property) or off campus (city or private property)? What types of trees? How will they be cared for? How are the trees on campus and around the school doing? If you're interested in trees on campus, take a look at the OUSD School Garden Toolkit for information about tree planting. Note: <i>All tree plantings need prior approval from the OUSD Garden Council prior to planting.</i> The OUSD School Garden Toolkit explains how to submit proposals and work with OUSD Garden Council - read this section . Embedded in the OUSD School Gardens Toolkit is also this helpful guide: Plants for Living Schoolyards .	

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Research Topic:	Transportation	
Key OUSD Contacts*		
Name	Job Title	
Preston Thomas	Chief Systems and Services Officer	preston.thomas@ousd.org
Sorbor Twegbe	Environmental Health & Safety Manager	sorbor.twegbe@ousd.org
Kimberly Raney	Transportation Executive Director	kimberly.raney@ousd.org
Marc White	Buildings and Grounds Director	marc.white@ousd.org
Mark Cavalli	Buildings and Grounds Coordinator	mark.cavalli@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD Transportation Department	Here is the website for OUSD Transportation Department. While they focus on transportation that the District provides to students, they might have information, ideas or connections for your project ideas.	
OUSD Board Policies	You can do a search to see where air quality shows up in OUSD Board Policies here . In the Wellness Policy , Safe Routes to School is discussed. The District is also currently working on passing a Sustainability Policy .	
City of Oakland Equitable Climate Action Plan	The Oakland ECAP was passed in July 2020. The 2030 ECAP establishes actions that the City and its partners will take by 2030 to equitably reduce Oakland’s climate emissions and adapt to a changing climate. “Bus” shows up 146 times and “bike” shows up 26 times in the ECAP .	
Project Ideas - OUSD Commentary from Sarah’s experience & Additional Resources		
Project Ideas	Commentary	
Bike share program	<p>Students can contact Mr. Shea Mack, Operations Manager for Bikes Make Life Better, at shea@meta.com. He has extensive experience setting up and managing bike shares and has volunteered to make himself and his team members available to students to consult on their projects. He can also connect students with “Bike East Bay,” a local bike advocacy organization.</p> <p>On the OUSD Sustainability webpage, Green Infrastructure subpage it states: “Safe Routes To School Program: Oakland Unified School District partners with the Alameda County Public Works Department and the City of Oakland Police Department. Source: Alameda Public Health Department: https://acphd.org/nutrition-services/programs/safe-routes-to-school/”. The OUSD Wellness Policy also states: “</p>	
Bus only lane in front	This sounds like a City of Oakland conversation, but could also be related to the Safe Routes	

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of the school	to School Program. On the OUSD Sustainability webpage, Green Infrastructure subpage it states: "Oakland Unified School District partners with the Alameda County Public Works Department and the City of Oakland Police Department. Source: Alameda Public Health Department: https://acphd.org/nutrition-services/programs/safe-routes-to-school/ ".
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OUSD Contacts, Systems & Structures

Research Topic:	Water	
Key OUSD Contacts*		
Name	Job Title	
Preston Thomas	Chief Systems and Services Officer	preston.thomas@ousd.org
Marc White	Buildings and Grounds Director	marc.white@ousd.org
Mark Cavalli	Buildings and Grounds Coordinator	mark.cavalli@ousd.org
Tadashi Nakadegawa	Facilities Director	tadashi.nakadegawa@ousd.org
Facilities Team		
Hiring for this position	Sustainability Manager, Facilities	
Hannah Press	Project Analyst - Planning/Implementation, Facilities	hannah.press@ousd.org
Chalyna Lazo	Climate Corps AmeriCorps Fellow, Facilities	chalyna.lazo@ousd.org
Key OUSD Resources		
Resource	Description & Why/How the Resource May Be Useful	
OUSD Facilities Master Plan	A school-district’s Facilities Master Plan describes a set of building and renovation projects that a district will pursue to support its educational mission.	
OUSD Sustainability Webpage	OUSD’s Sustainability Department aims to provide all OUSD students, school staff and the community with solutions to promote District-wide sustainability – lessening greenhouse gas emissions throughout the District. The OUSD Sustainability Staff works to improve OUSD schools through our sustainability areas of focus: Energy Efficiency, Water Resilience, Waste Reduction, Green Infrastructure. The Water Resilience page will be the most helpful.	
Project Ideas - OUSD Commentary from Sarah’s experience & Additional Resources		
Project Ideas	Commentary	
low flow vacuum flush toilet	Interestingly, low-flow toilets do not come up in a search of the OUSD Facilities Master Plan . You’ll want to reach out to the Facilities team and get in contact with our District Plumbers to learn more!	