

AISD Environmental Stewardship Advisory Committee (ESAC)

March 30, 2022

The purpose of the ESAC is to assist the district in being a recognized example of environmental education, stewardship, and sustainability.



Mark your calendars for the 2021-2022 ESAC meeting dates!

All meetings will take place online until further notice
from 5:30 to 7:30 pm.

- October 14, 2021
- December 1, 2021
- February 2, 2022
- March 30, 2022
- **May 18, 2022 - ELECTIONS**
- Summer 2022 - ESAC Chairs and subcommittee leaders meet for strategic planning.



Breakout Group Prep

Please add your subcommittee abbreviation to the front of your name:

- FN** = Food & Nature
- AT** = Air Quality & Transportation
- ZP** = Zero Waste & Procurement
- EW** = Energy & Water

Those that do not yet have a subcommittee, please select one of the subcommittees above to join for today's discussion.





AGENDA

I. Welcome & Announcements	5:30-5:40
II. Public Comments*	5:40-5:50
III. AISD Earth Week	5:50-5:55
IV. Update: ESAC/SHAC Letter of Support	5:55-6:00
V. Update: ESAC Purpose Statement	6:00-6:10
VI. Subcommittee Breakout Groups	6:10-6:45
VII. Break	6:45-6:50
VIII. Action Areas Updates	6:50-7:25
IX. Requests for Future Meeting Topics & Adjourn	7:25-7:30

Watch live: bit.ly/ESACvideo . The link is also posted on Twitter @AISDGreen



Tech Tips

1. “Rename” yourself in Zoom with your breakout room abbreviation and full name.
 - a. This also helps us document attendance.
2. We encourage you to use your video so we can see one another’s wonderful faces!
3. This webcast is being recorded and also broadcast on YouTube.
4. Please keep your microphone muted unless you are speaking. This helps minimize background noise.



Tech Tips

5. To ask a question:

- Please use the “raise hand” button to ask a question or provide a comment, or
- Indicate in the chat that you would like to ask a question.
- You will be called on to voice your question out loud so it can be captured in the recorded session.

6. *Operation: Pumpernickel!*



ESAC Chair Election

Elections will take place May 18th



Nominate yourself or your fellow member by **May 6th!**



Public Comments

Visit austinisd.org/advisory-bodies/esac/meetings to submit public comments by noon the day of the meeting



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Aimee Aubin:

I'd like to take a moment to share the Office of Sustainability's Earth Month Calendar - which features events and resources from many ESAC members!

Earth Month Calendar - please share!

bit.ly/EarthMonthATX

Social Media Kit for Sharing:

bit.ly/EarthMonthSocialKit

ALSO: Air Quality Awareness Week is May 2-6. The Office of Sustainability has a few ATMOTUBE Air Quality Filters and would love to work with an AISD class, ideally High School or Middle School, to do a participatory citizen science course led by Phoebe Romero, our Air Quality Program Manager and a former teacher herself.

Please get in touch with me (aimee.aubin@austintexas.gov) if you have interest in bringing an air quality citizen science lesson to an AISD classroom.



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Announcements



Austin ISD

Earth Week

April 18-22

See last year's page: <https://www.austinisd.org/earthweek>



Update: ESAC/SHAC Letter of Support for Outdoor Dining & Learning

Jen Cregar



Update & Activity: ESAC Purpose Statement

Noelle Bugaj & Darien Clary



 **EQUITY & ENGAGEMENT SUBCOMMITTEE**

PURPOSE AND MEASURING SUCCESS

Steering Committee Leader: Darien Clary

Subcommittee Leader: Noelle Bugaj

Bi-weekly, Tuesdays 4:15pm. Open call to join us!



Need Help or Have Questions?

Darien Clary: darien.clary@austinisd.org

Noelle Bugaj: noelle.bugaj@austintexas.gov



Breakout Groups

Intro: Aimee Aubin, Jen Cregar, Mary Priddy



Breakout Group Prep

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We'll
be right
back!

Subcommittees are currently in breakout groups discussing their activities.

We'll be back around 6:45pm.



We'll
be right
back!

5 minute break!



Activity Updates

Energy & Water | Rey Torres & Ana Echeverria

Nature | Anne Muller

Food | Diane Grodek

Transportation & Air Quality | Rob Borowski & Kris Hafezizadeh

Zero Waste & Procurement | Amanda Mortl

Equity & Community Engagement | Noelle Bugaj



Energy & Water Update

Rey Torres



Controls upgrade and migration to the new server.

The screenshot displays the AISD Niagara 4 Server web interface. The browser address bar shows the URL: `ems07/ord/station:%7Cslot:/Graphics%7Cview:Home`. The page title is "AISD Niagara 4 Server". The interface is organized into several panels:

- Site Links:** Elementary Schools Links, Middle Schools Links, High Schools Links, Miscellaneous Links.
- Plant Summary Links:** Chilled Water Plants, Hot Water Plants, Condenser Water Plants.
- Time & Weather:** Time: 3:42 PM, Date: 01-Feb-22, Current Temperature: 63.0 °F (with a "Winter Storm Watch" warning), Today's High/Low: 69.0 °F/53.0 °F, and a "Weather Report" button.
- Alarms & Histories:** Alarm Console, History Data, and a "logoff user: aisd" button.
- District Wide Calendars:** Set School Holiday Calendar, Set School Active Calendar.
- Summary Panels:** Demand Response Summary, Electrical Meter Summary.

The AISD logo is visible in the top left corner of the interface.



Case Study: Bear Creek Elementary

The screenshot shows a web-based energy management system (EMS) interface for Bear Creek Elementary. The interface is organized into several functional areas:

- Navigation and Header:** Includes a browser address bar with the URL `ems07/ord/station:%7Cslot/Drivers/NiagaraNetwork/ElementarySchools/Bear_Creek/virtual%7Cvirtual/Graphics%7Cview:Home`. The page title is "Bear_Creek".
- Left Sidebar:** Contains navigation links for "Schedules", "Floor Plans", "Chilled Water Plant", "Hot Water Plant", "Exhaust Fans", and "Demand Response".
- Central Panel:** Features a 3D architectural rendering of the school building.
- Right Panel:** Displays real-time data for "Outside Conditions" (Temperature: 67.1 °F, Humidity: 67.1 %), "Alarms" (1/0), "Down" (0), "Overrides" (1), "Power Meter Details" (Total Watts: 114 kW), "Water Meter Details" (Domestic: 2553.0 gal), and "Gas Meter Details".
- Bottom Left Panel:** A "Quick Links" section with a "Color Legend" showing the status of various units:

Unit	Status	Temperature	Location
AHU_1	Green	71.89 °F	Fitness
AHU_2	Green	71.56 °F	Cafeteria
AHU_3	Green	54.74 °F	Admin
AHU_4	Green	72.0 °F	Library
DOAS_1	Green	70.21 °F	C 1st and 2nd Floor OA
DOAS_2	Green	70.69 °F	C:3rd Floor OA
RTU_1	Red	69.74 °F	Kitchen
- Bottom Right Panel:** Includes a "Logoff" button.



Bear_Creek AHU_1 Fitness

Occupied Status: **Occupied** L
Heat/Cool Mode: **Heat** L
Smoke Status: **Normal** L
Economizer Status: **Disabled** L

E/A Damper: **95.36 %** L
Relief Fan: Cmd **Off** L, Status **Stopped** L, Speed **0.00 %** L
VFD INFO

Active Setpoint: **0.05 in/wc** L
Space Static: **0.06 in/wc** L
O/A Flow: **844.01 cfm** L
O/A Damper: **100.00 %** L
PH Valve: **0.00 %** L
CHW Valve: **0.00 %** L
HW Valve: **17.95 %** L
Supply Temp Setpoint: **82.39 °F** L
Supply Temp: **86.97 °F** L

R/A: **68.08 °F** L, R/A Damper: **50.00 %** L, Mixed Temp: **63.73 °F** L
Return Hum: **65.16 %** L
PHCoil Temp: **63.92 °F** L
Low Limit: **Normal** L
CCoil Temp: **65.14 °F** L
CCoil Condensate: **Normal** L
Supply Fan: Cmd **On** L, Status 1 **Running** L, Speed **33.00 %** L
High Static: **Normal** L
VFD INFO

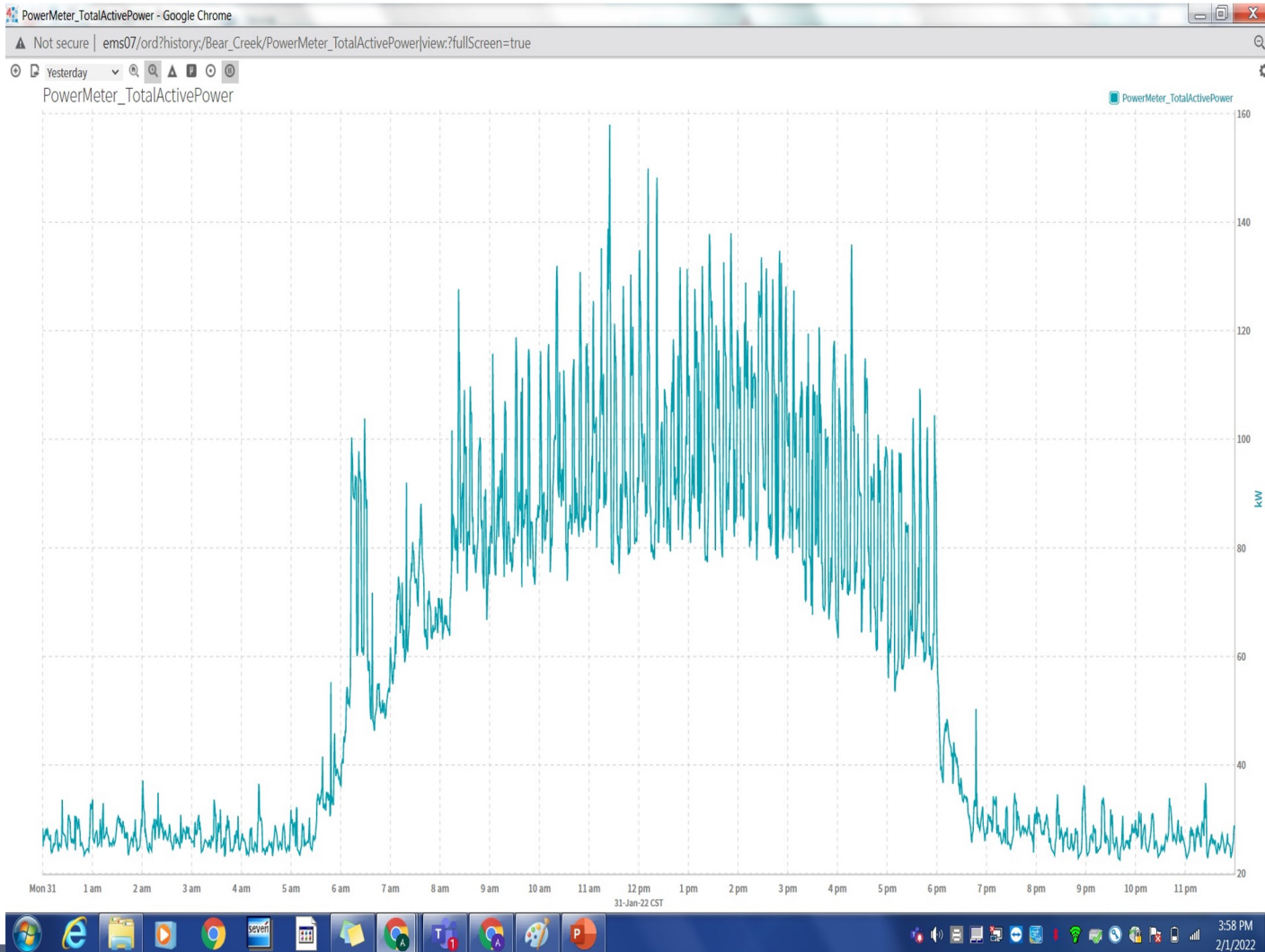
Temperature Setpoints & Settings	
Local Setpoint	84.89 °F
BAS Setpoint	72.00 °F
Humidity Setpoint	60.00 %
Occupied Offset	1.00 Δ°F
Override Time	120.00
Space Pressure Setpoint	0.05 in/wc
Outside Air Damper Reset Settings	
Unoccupied Setpoints	

Space Conditions	
Space Temperature	71.89 °F L
Space Humidity	31.63 % L
Active Space Setpoint	71.00 °F L
T-Stat Override	Idle
Space CO2	1162.60 ppm L
Space Pressure	0.06 in/wc L

Overrides	
Supply Fan Cmd	On
Supply Fan Speed	33.00 %
Chilled Water Valve	0.00 %
Hot Water Valve	17.95 %
PreHeat Water Valve	0.00 %
Outside Air Damper	100.00 %
Return Air Damper	50.00 %
Relief Air Damper	95.36 %
Relief Fan Cmd	Off

Case Study: Bear Creek Elementary

Power and Water meters: live-tracking of utilities, efficient & quick response.



Power and Water meters: live-tracking of utilities, efficient & quick response.

AISD Energy Management

Network Monitor Power Outages Systems Offline Equipment Maps Service Center Stats Controls Docs Jaces Dropdown EMS07 Jace Enterprise Portables										
A	B	Bowie	C-D	E-H	I-K	L	M-N	O-P	Q-T	U-Z
AISD HQ use chrome 280 kWh	Bailey Main 56.6 kWh	Bowie A Wing 112 kWh	Campbell ES 46 kWh	Eastside HS 188.3 kWh	Jordan ES 22 kWh	Lamar MS 250 kWh	Maplewood 34.2 kWh	Oak Springs 10kWh	Reilly ES 36 kWh	Uphaus PreK 95.1 kWh
Akins HS 104 kWh	Bailey MS Woodshop 200 kWh	Bowie B Wing 340 kWh	Casey 12.5 kWh	Eastside and Plant 187 kWh	Joslin ES Main 20 kWh	Langford 700 21.3 kWh	Martin MS 87 kWh	Odom Main 43 kWh	Ridgetop ES 80 kWh	Walnut Creek 114 kWh
Ann Richards 300kWh	Baldwin 75.4 kWh	Bowie C Wing 120 kWh	Casis 280 kWh	Garcia Boiler 280 kWh	Joslin Gym Caf� 280 kWh	Langford Addition 280 kWh	Mathews 280 kWh	Odom VFDs 5 kWh	Rodriguez ES 20 kWh	Webb 170 kWh
Allison ES 19 kWh	Baranoff ES 42.3 kWh	Bowie D Wing 43 kWh	Cook ES 30 kWh	Garza MS 125 kWh	Kiker ES 28 kWh	LASA 110 kWh	McDee 111 kWh	O'Henry MS 60 kWh	Rosedale ES 78 kWh	Widen 43 kWh
Anderson 400 240 kWh	Barrington 20 kWh	Bowie E & F Wings 62.1kWh	Covington Main 147.8 kWh	Gorzycki Main 97 kWh	Kealing MS 325.9 kWh	LBJ HS 400 kWh	McCallum FieldHouse 34 kWh	Ortega ES 32 kWh	Saegert Bus 64 kWh	Williams 22 kWh
Anderson BLDG A 280 kWh	Bear Creek 78 kWh	Bowie Admin 98kWh	Covington Arts 50.23 kWh	Gorzycki North 10 kWh	Kocurek ES 29 kWh	Lee ES 280 kWh	MCeALLUM Main 320 kWh	PAC 112 kWh	Sanchez ES 100 kWh	Winn Admin Library 32 kWh
Anderson BLDG B & Chillers 280 kWh	Becker 87.2 kWh	Bowie Garage 203 kWh	Cowan 30 kWh	Gorzycki South 21 kWh		Linder ES 280 kWh	McCallum Theater 76 kWh	Padron ES 44 kWh	Small ES 99 kWh	



Community involvement

Interview with LASA student: aiming to more students and community involvement in E&W during 2022.



Nature Update

Anne Muller



Nature Updates

Norman-Sims and Palm

Goal 1 (Policy)- ILA landscape standard and Joint Use Agreement updates (P)

Goal 2 (Infrastructure)- PARD amenities, Bond site visits, limestone blocks

Goal 3 (Activation)- Girls Outside, EcoRise Sustainable Schools Course, Green Administrator Cohort, Urban Forest Grant

Goal 4 (Land Management)- Tree Planting



Student: Sophie Sun

- Kealing Garden is still up and running
 - Lasa garden doing great as well
- New outdoor benches are getting a lot of use!
 - Many extracurricular activities hold meetings outside because of the new benches.



Food Update

Diane Grodek



Food

- We added another Garden to Café program, Galindo Elementary!
- All lettuce and sweet potatoes on our Winter and Spring menus are sourced locally from *Fredericksburg Peach Co.* in Spicewood, Texas.
- New entree items for Spring menus include: Korean Drumstick with Rice, Beef Chili, and Oven Roasted Turkey with Gravy
- More cafés are using reusable trays and their dishwashers with each week. After months of labor shortages, we are finally able to reintroduce some of our sustainable practices!
- Using grant money from Texas Dept. of Agriculture we were able to purchase new citrus sectionizers and apple corers for every Cafe - so look for our new, scratch-made Apple Crisp recipe on Spring menus!
- We are now offering locally made gluten free bread from [Gluten Free Yourself Bakery](#) here in Austin.
- Even in the midst of nationwide food shortages, we continue to serve salads, vegetarian options, and fresh fruit and vegetables daily.



Transportation & Air Quality Update

Kris Hafezizadeh, Mike Rios, & Rob Borowski

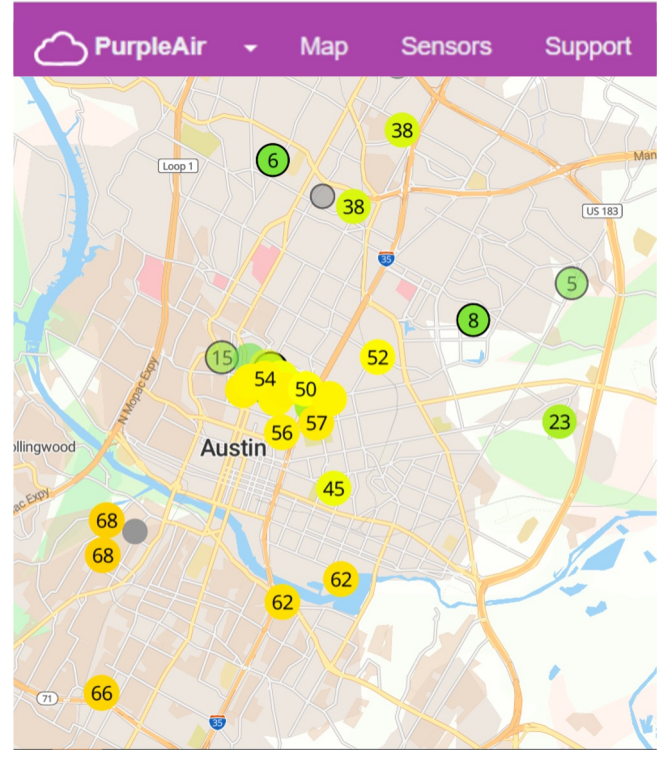
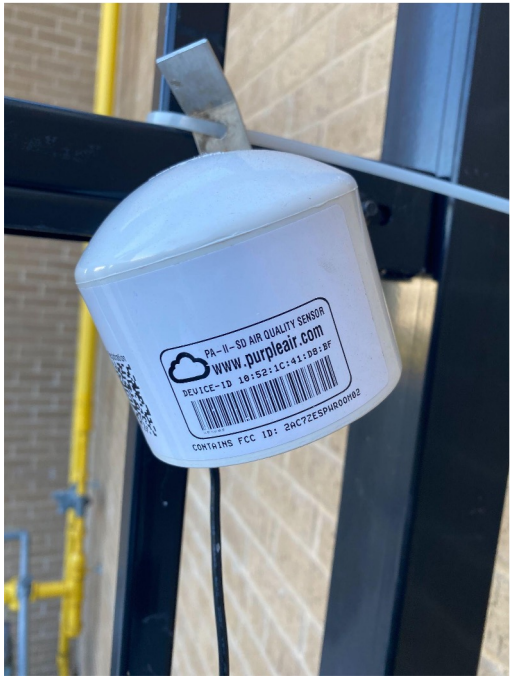


Transportation & Air Quality

- Be Air Smart Team (CAF, AISD, COA) met on January 10th to discuss updates on Purple Air sensor project
- All sensors have been installed, but there have been some technical difficulties with sensors consistently showing live data on the mapping portal
- Clean Air Force has continued to reach out to staff at each school to help integrate air quality curriculum to this work, but has experienced some difficulty with responses, likely due to the pandemic prioritization
- Be Air Smart Team will continue to meet on a monthly basis and determine a schedule for reporting back on air quality data



Transportation & Air Quality



See the data online:
www2.purpleair.com







Zero Waste & Procurement Update

Amanda Mortl



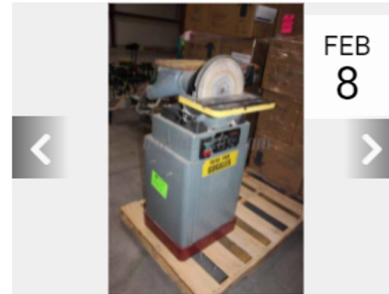
Zero Waste & Procurement Subcommittee priorities for 2021-2022:

	Small recycle bin (left) 4 available Tall, slim recycle bin (right) 8 available	contact amanda.mortwalk delivery.
	Small recycle bin (left) 4 available Small landfill bin (right) 12 available	contact amanda.mortwalk delivery.]
	Over 100 available; Small compost collection bucket: ~1 gallon	contact amanda.mortwalk delivery.
	Large posters, 1 set = landfill, recycle, compost >10 available Large bin decals/stickers, 1 set = landfill, recycle, compost >10 available	contact amanda.mortwalk delivery.]

- Engagement:
 - City/external: Youth pathway for City Zero Waste block leaders;
 - Internal: Inter-committee collab w/ eco-teams (survey)
- Recommend options for sharing surplus internally (survey)





Zero Waste & Procurement Updates



Austin Independent School District (Surplus) - Austin, TX

📅 Closes: Tuesday, February 8, 2022

 Add to Calendar

 3701 Woodbury, Austin, TX 78704, US (map)


Selling Student Furniture, Pre-K Furniture, Cafeteria Equipment and More - B.P. -14%



Austin Independent School District (Vehicles) - Austin, TX

📅 Closes: Tuesday, February 8, 2022

 Add to Calendar

 511 E 51st Street, Austin, TX 78723, US (map)

Selling Service Trucks, Cars and ATV's - B.P.14%

[Surplus online auction](#) closes Feb 8th



Equity & Community Engagement

Noelle Bugaj



Equity & Community Engagement

You already heard from us!

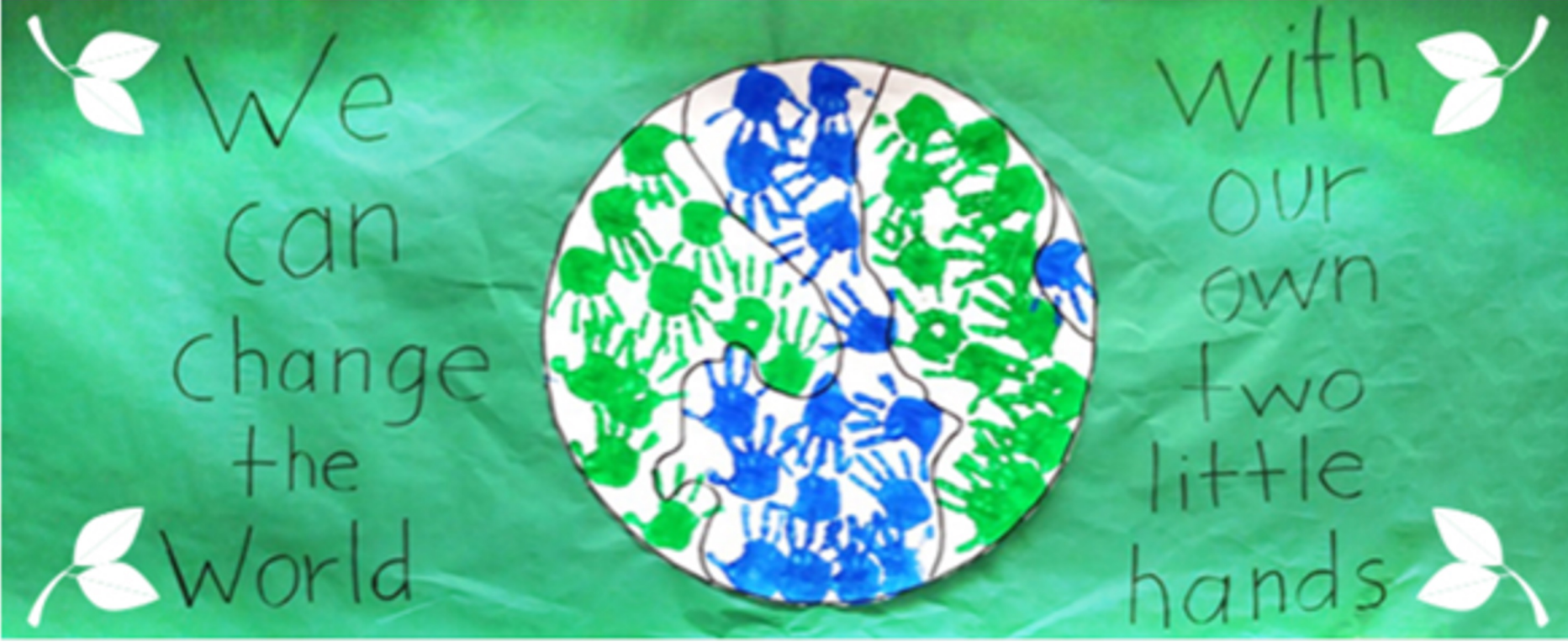


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THANK YOU for all you do to help AISD be green!

