

The Clark County School District (CCSD) has developed a plan for use of funds obtained for violations of air quality regulations, as outlined in NRS 445B.500. The plan will assist with ensuring that classroom instruction regarding air quality and related topics is aligned to Nevada Academic Content Standards (NVACS) for Science as well as CCSD grade-level curricula. These standards include core ideas regarding Human Impacts on Earth Systems and Global Climate Change. As stated within the standards documents, “Air and water pollution caused by human activities affect the condition of the atmosphere and of rivers and lakes, with damaging effects on other species and on human health.” A partnership with the University of Nevada, Las Vegas (UNLV), and the Clark County Department of Environment and Sustainability focusing on a pollen-monitoring program with educational components has been implemented. In addition, the plan will have a positive impact on student achievement and parent/student engagement in the community by supporting the annual Las Vegas Science and Technology Festival. Approval of the CCSD Air Quality Funds Proposal will enhance CCSD science curricula, support teachers and students, and engage the community while utilizing the funds in a way that fits the original intent. Finally, approval of this Proposal will allow CCSD to implement several sustainability-focused energy efficiency and transportation initiatives which will provide local and regional air quality improvements.

Use of funds include the following:

- Support the pollen-monitoring project in partnership with the University of Nevada, Las Vegas (UNLV), and the Clark County Department of Environment and Sustainability.
- Support the annual Las Vegas Science and Technology Festival Community Event. The Science Festival provides a unique way to get the community, both adults and children, interested and engaged in STEM field literacy, which are key barriers to understanding air quality and the AQI's impact on our community.
- Assemble task forces of teachers to continue to revise CCSD grade-level curricula to align with the NVACS for Science, to include science practices that build students' critical thinking and decision making skills needed to make sense of complex local phenomena, such as patterns of change in Clark County air quality, and designing solutions to mitigate human impacts on the environment.
- Purchase instructional materials that are aligned with the NVACS for Science and to support classroom instruction of units developed regarding clean air, ozone awareness, and health and safety issues related to air quality.
- Attend professional conferences to enhance content and pedagogical knowledge, obtain new instructional strategies, review instructional materials, learn about NVACS-aligned assessments, and enhance knowledge of instructional best-practices which directly impacts NVACS for Science-based air quality focused projects.
- Assist with the planning and delivery of professional learning opportunities for K–12 administrators and science teachers on the NVACS for Science and the curricular resources regarding human activity and impacts on the environment including air quality.
- Explore feasibility and implement projects within CCSD in partnership with the Clark County Department of Air Quality, including but not limited to bus fleet conversions, traffic

Clark County School District  
Curriculum and Instruction Division  
Air Quality Funds Proposal

2021-  
2022

management plans to reduce idling of school buses, and energy efficiency improvement projects throughout District facilities.

<b>BUDGET for 2021-2022</b>	
Books	3,000.00
Communications	500.00
Support Staff Overtime/Custodial	2,000.00
Dues & Fees	2,500.00
Education Services/LVSTF	90,000.00
Licensed Extra-duty (\$22)	60,000.00
Fringe	2,200.00
General Supplies	7,500.00
Instructional Supplies	75,000.00
Pollen Monitoring	153,687.54
Printing	2,500.00
Substitutes	5,000.00
Technology Supplies	7,500.00
Travel Out Of District	2,500.00
Air Quality Improvement Projects including, but not limited to, bus fleet conversions, traffic management plans, and energy efficiency projects	1,597,576.82
<b>Total</b>	<b>\$ 2,011,464.36</b>

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## Budget Description

### **Books**

- Books with classroom lessons and activities related to environmental change
- Books to support lessons under development for air quality instruction at the high school and middle school levels

### **Communications**

- Web-based conferencing license to allow for virtual meetings and webinars to ensure access for teachers in rural areas and reduce travel

### **Support Staff Overtime/Custodial**

- Required custodial staff and site-based technicians necessary when conducting training on Saturdays or after scheduled work days

### **Dues & Fees**

- Memberships for professional organizations and conference registrations such as NSTA, NSELA, and ISTE

### **Education Services/LVSTF**

- Support funds for the annual Las Vegas Science and Technology Festival

### **Licensed Extra-duty (\$22/hr)**

- Pay for teachers when professional learning sessions outside of contract hours
- Pay for teachers to write and develop curriculum, resources, and lessons for use in the Clark County School District
- Pay for teachers to write and develop resources and lessons utilizing the Clark County Department of Environment and Sustainability air quality monitoring data, website, and resources to include clean air, ozone awareness, and health and safety issues related to air quality

### **Fringe**

- Required to pay for benefits as part of paying support staff and licensed extra-duty pay

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### **General Supplies**

- Office and training supplies required for conducting workshops and conducting curriculum development work

### **Instructional Supplies**

- Classroom materials needed to conduct workshops
- Instructional supplies purchased for schools to support the implementation of specific lessons and/or trainings under development

### **Pollen Monitoring**

- Funds to support the ongoing UNLV pollen monitoring project
- UNLV maintains an “open purchase order” with the Clark County School District and submits invoices for payment
- Funds left on the open purchase order are carried over to the next fiscal year

### **Printing**

- Printing costs for workshops and curriculum development
- Printing of materials and posters to support the implementation of lessons under development utilizing air quality monitoring data and resources to include clean air, ozone awareness, and health and safety issues related to air quality

### **Substitutes**

- Funds to cover the cost of substitute teachers when teachers attend training or meetings during the contracted day
- Funds to cover the cost of substitutes who present workshops during the contracted day

### **Technology Supplies/Items of Value Technology**

- Technology use to support training such as copy machines, jump drives, speakers, or RGB connectors

### **Travel Out of District**

- Travel for staff to travel to professional conferences such as the National Science Teachers Association national conference and/or the National Science Teachers Association STEM conference

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**Projects with Clark County School District**

The Clark County School District will work in partnership with the Clark County Department of Environment and Sustainability to evaluate feasibility and implement projects to improve air quality including, but not limited to, bus fleet conversions, traffic management plans to reduce idling of school buses, and energy efficiency improvement projects throughout District facilities. Projects that improve the indoor environment and also result in energy savings, such as heating, ventilation, and air conditioning controls and lighting upgrades will be prioritized.

Project planning and investigation commenced in the 2020 and 2021 fiscal years with targeted spending on an electric bus during the 2021 fiscal year. Project development and implementation will continue in the 2022 fiscal year according to the estimated budget below:

- Electric School Bus & Charging Station: \$580,000
  - CCSD is leveraging multiple state and local governmental opportunities to continue to electrify its diesel bus fleet. At the Arville Bus Yard two electric school buses and the required charging infrastructure will be purchased and installed by December 2021. The funding allocated to this effort would add another electric bus and charging station to CCSD's fleet. Each electric school bus reduces greenhouse gas emissions by 70% versus its diesel equivalent.
- Improving Energy Efficiency & Indoor Air Quality in Portable Classrooms: \$810,000
  - A comprehensive inventory and assessment of approximately 1,800 portable classrooms will be performed and result in the implementation of smart thermostats and mechanical upgrades to reduce energy consumption while improving ventilation.
- Lighting Upgrades: \$207,576.82
  - CCSD will implement indoor and outdoor lighting upgrades at two to three schools to improve the experience for students and staff, while saving energy by installing LED fixtures where fluorescent and metal halide technologies are currently being used.