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**CIMARRON WATERSHED ALLIANCE, INC.**

**ECO-CLASS:  
“EDUCATIONAL OUTREACH GRANT PROPOSAL”**

**A COLLABORATIVE PROJECT WITH THE HIGH PLAINS  
REGIONAL EDUCATION COOPERATIVE, CIMARRON  
HIGH SCHOOL, AND SPRINGER HIGH SCHOOL**

**FOR PRESENTATION TO BOARD OF DIRECTORS**

**DECEMBER 6, 2006**

PROJECT NAME: ECO-CLASS: “EDUCATIONAL OUTREACH GRANT PROPOSAL”

GRANT SUBTASK & CORE WORK PLAN TASK:

- Grant: Federal Clean Water Act Section 319 (h), FY 03 Cimarron Watershed Alliance, Inc. Project; Contract No. 05-667-5000-0009.
- Core Workplan Task III: Communicate with stakeholders, agencies, municipalities, and businesses to improve the health of the watershed and water. Subtask a: Include at least one demonstration project per year to build capacity for additional development of like projects and Subtask c: Educate the public on watershed issues and Best Management Practices (BMPs); March 18, 2006 Revision.
- Core Workplan Task IV: Evaluate projects for completion and success, evaluate compliance with standards, and monitor the state of the water and watershed. Subtask b: Compile and summarize existing data from monitoring in an effort to understand trends, BMP effectiveness, and project success in the watershed.
- Deliverables: Procurement of instructive equipment that will assist teachers in providing high quality educational experiences that deal with real life learning through the use of technology and science while involved in hands-on learning opportunities.
- Amendment: This project will be added as Amendment III.c.6 to the Cimarron Watershed Alliance Core Work Plan, March 18, 2006 Revision.

OBJECTIVE OF PROJECT: The primary objective of this project is to provide the material

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recourses that will give students tools that can be used in developing a comprehensive understanding of issues and best management practices applications relating to the continued maintenance and enhancement of water quality and quantity in the Cimarron River Watershed. This will yield a greater awareness and more in-depth understanding of the consequences of human use and management of riverine, lake, and wetland ecosystems. This understanding will in turn result a more informed natural resource use decision decision-making process in the watershed's youth.

This objective will be enhanced by Science teachers who will implement lessons focusing on water quality, wildlife, and riparian restoration projects while using technology as an instructional tool. This project is expected to provide on-going educational opportunities for secondary students in the Cimarron River Watershed (see Appendix A for leveraging effect).

### **BACKGROUND AND PROJECT DESCRIPTION:**

The High Plains Regional Educational Cooperative (HPREC) is seeking funding for an educational outreach project called "Eco-Class" that involves innovative learning opportunities for Science teachers in grades 7-12 targeting conservation practices. As an Education Specialist with the High Plains Regional Education Cooperative, I believe it is important to assist teachers in acquiring much needed equipment for individual classrooms.

At the present time, in the American Educational system, it is safe to say that the majority of students, as well as teachers, enjoy the opportunity to learn about Science with the incorporation of technology as a daily instructional tool. Most area schools within your region have implemented interactive technology equipment in the traditional

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science classroom. However, Springer Municipal Schools, in the Cimarron Watershed Alliance region, does not currently have this technology.

As part of the project, we would like to install Polyvision's Walk-n-Talk 1600 interactive whiteboard in four classrooms in the Springer district to enhance instructional delivery methods and student outcomes. This technology affords students and teachers the ability to formulate an understanding of content material by stimulating the learning process with improved instructional design opportunities. More importantly, multiple learning opportunities are provided to a diverse student population. The Walk-n-Talk board will be used as a tool for developing higher order thinking skills, collaborative learning, data collection, and analyzing information. These technological advancements provide interesting avenues for educators in helping to use highly visual hands-on learning opportunities for students on a daily basis. The teachers are thrilled to participate in this exciting opportunity.

In addition, Cimarron High School's Science teacher, Leigh Hedderman, is in need of GPS units to assist with data collection for their water quality study of the Cimarron River. We propose that CWA provides GPS units and digital cameras for these teachers. Other contributors to the Eco-Class project are providing interactive boards, USB microscopes, soil test kits, water test kits, range management kits, and various scientific equipment to meet the needs of mid and high school teachers in Cimarron, Clayton, Des Moines, Maxwell, Mosquero, Roy, Raton, Springer, Eagle Nest, and Moreno Valley to meet NM's Content Standards and Benchmarks.

We must prepare our youth to be productive citizens in the twenty-first century workplace. We must create educational opportunities that prepare the children to be

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successful in their future jobs in the Technological Age. Educational change must target instructional opportunities and strategies to develop technologically savvy learners with the ability to think logically and work collaboratively in today's ever changing society.

**SITE AND LOCATION:** This project will be developed under the direction of the HPREC, Cimarron High School, and Springer High School at the respective school's campuses.

**COST:** (To include Grant and CWA In-Kind Matching)

**Grant:** Cost to the Cimarron Watershed Alliance Grant will be **\$19,954.47** for the purchase of project supplies, project development, and initial maintenance (see Appendix B for cost structure).

**CWA Match:** **\$7,981.78**, which will be generated by project and CWA in-kind activities

**Total Project Economic Activity:** **\$27,936.25**

**SCHEDULE AND TIMELINE:** The administration of this project will commence upon the approval of the Cimarron Watershed Alliance, Inc. Board of Directors. Purchase equipment for technology instruction and schedule professional development trainings for the 2006-07 school year. Develop a schedule of events for classroom learning experiences and provide workshops on how to incorporate technology in the learning environment. Teachers will begin implementing units of study geared around conservation practices by January 2007.

**PROJECT EVALUATION & MAINTENANCE PLAN:** This project will be evaluated by information produced by student usage and feedback as compiled by the Team Leaders under the direction on the CWA Monitoring Committee. The

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Team Leaders will report to the Cimarron Watershed Alliance Stakeholders on project effectiveness as directed by the CWA Monitoring Committee.

**TEAM LEADER AND PARTICIPANTS:**

Team Leaders: Shari Zimmer, Leigh Hedderman, and **NEED SPRINGER TEAM LEADER**

Participants: HPREC, Cimarron High School, Springer High School, and the Cimarron Watershed Alliance.

**PERMISSIONS AND PERMITTING:**

Dredge & Fill Clearance Required? \_\_ Yes X No

Is any work proposed within the high water mark of a river, stream or Arroyo  
\_\_ Yes X No

Cultural Resource Clearance Required? \_\_ Yes X No

Does this proposal involve any earth disturbing activity? \_\_ Yes X No

**LIABILITY:** *(None foreseen; please add your comments about same).*

**ACKNOWLEDGMENTS:**

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**TEAM LEADER**

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**DATE**

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**CWA EXECUTIVE OFFICER**

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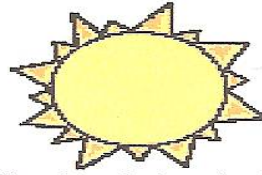
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Appendix A



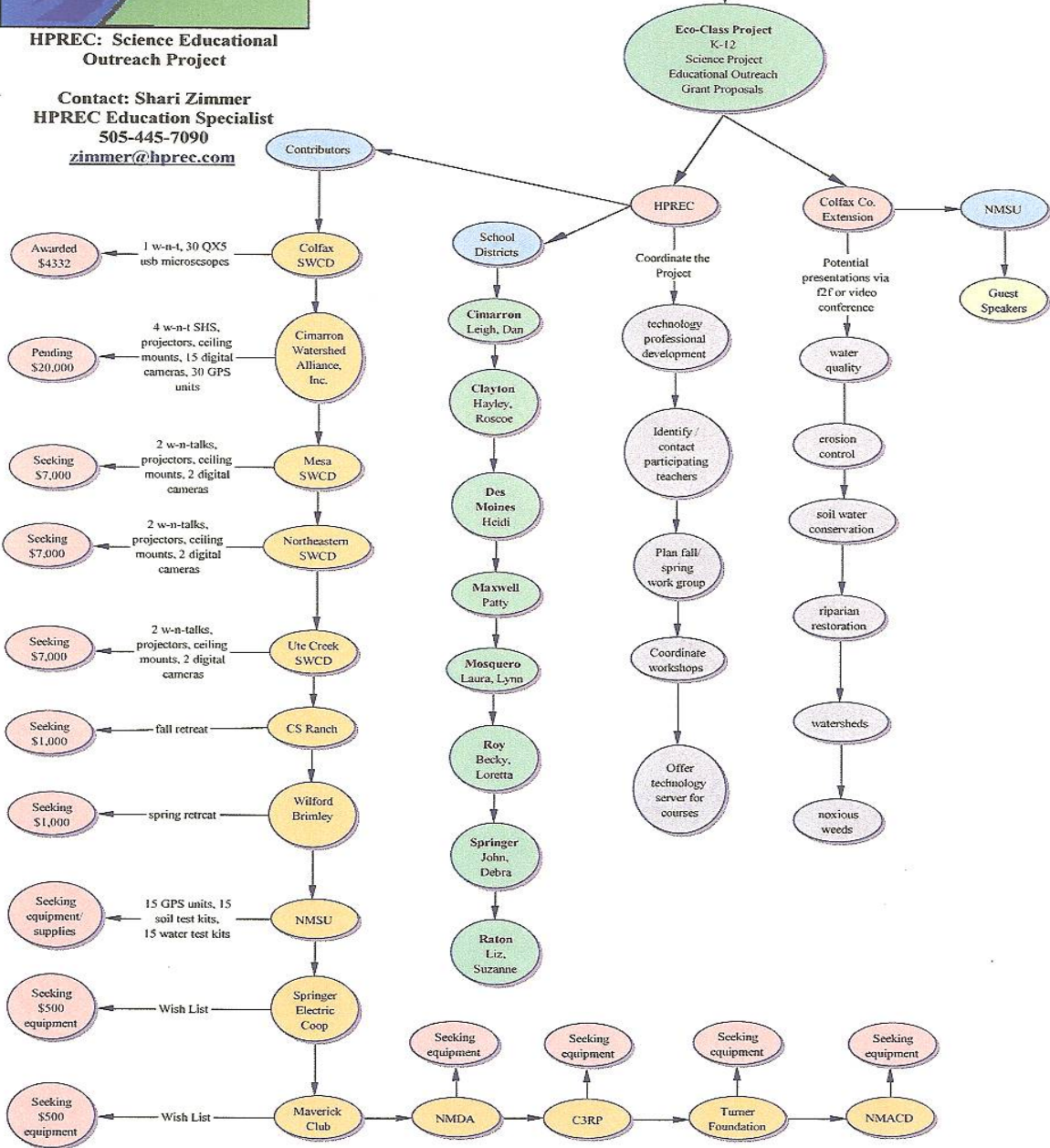
HPREC: Science Educational Outreach Project

Contact: Shari Zimmer  
 HPREC Education Specialist  
 505-445-7090  
[zimmer@hprec.com](mailto:zimmer@hprec.com)



Imagine...the benefit of

bringing technology into the Science classroom to teach conservation practices...



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**Appendix B**  
**Eco-Class Grant Proposal**

**Total Budget:**

**\$20,000**

| Product  | Contract             | CDW    | Mfg Part #   | Qty | Price      | Ext. Price |
|--|----------------------|--------|--------------|-----|------------|------------|
| <u>Mitsubishi SD205R</u>   | Tcpn Contract #r4713 | 987883 | SD205R       | 4   | \$749.99   | \$2,999.96 |
| <u>Mitsubishi Universal Projector Ceiling Mount: XD200</u>       | Tcpn Contract #r4713 | 697514 | PROJ-UCM     | 4   | \$175.00   | \$700.00   |
| <u>PolyVision Walk-and-Talk Lightning Interactive Whiteboard</u> | Tcpn Contract #r4713 | 882194 | WTL1600ET    | 4   | \$1,899.99 | \$7,599.96 |
| <u>Garmin eTrex Legend</u>                                       | Tcpn Contract #r4713 | 293857 | 010-00256-00 | 30  | \$142.99   | \$4,289.70 |
| <u>Canon PowerShot SD600 Digital ELPH - digital camera</u>       | Tcpn Contract #r4713 | 947548 | 1079B001     | 15  | \$290.99   | \$4,364.85 |

|                    |             |
|--------------------|-------------|
| <b>Sub-Total</b>   | \$19,954.47 |
| Shipping:          | \$0.00      |
| <b>Grand Total</b> | \$19,954.47 |

\*Tax may change if this quote is amended.

