


ATTACHMENT A
to the GRANT AWARD AGREEMENT
between Lexington-Fayette Urban County Government (LFUCG) and
The Living Arts and Science Center, Inc.

**GRANT PROGRAM: 2016 Stormwater Quality Projects Incentive Grant Program
Class B (Education) Projects**

- Funded through the LFUCG Water Quality Management Fee
- Administered by the LFUCG Division of Water Quality in the Department of Environmental Quality

PROJECT TEAM AND CONTACT INFORMATION

Grantee Organization: The Living Arts and Science Center, Inc. 
362 N. Martin Luther King Boulevard
Lexington, KY 40508
KY Organization #: 0031623

Primary Project Contact: Heather Lyons, Executive Director
859-252-5222 (phone)
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Secondary Project Contact: Andrea Ooten
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Project Manager: Katherine Bullock, LASC Discovery Education Director
859-252-5222 (phone)
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Asst. Project Manager: Debbie Harner, LASC Science Educator
859-252-5222 (phone)
Ms. Bullock and Ms. Harner will design, plan, and coordinate the curriculum and activities as they relate to all of the science educational programs.

Project Team Members: LASC Science Teachers: 5 teachers who present Science Explorers, WOW programs, Professional Development, Urban Ecology, and Discovery Exhibit programs – each of whom will be trained in the water quality curriculum for incorporating into all of the various educational programs to assist them in incorporating the information into these programs.

Collaborating Organizations: University of Kentucky; Centre College; Transylvania University; Kentucky Reptile Museum; Raven Run; Salato Wildlife Sanctuary; Department of Fish and Wildlife.

TARGET AUDIENCE

- 1) **Education Partners:** Includes students, schools, teachers, libraries, etc. The LASC offers WOW outreach and field trips for over 10,500 school children; Urban Ecology program for over 400 school children in four at-risk elementary schools; Science Explorers program for over 240 students; Discovery Night program for over 2,000 children and adults; LASC classes and workshops for over 9,000 children and adults.
- 2) **Community-at-large:** LASC reaches the general public through the website, printed materials, e-newsletter and educational displays at LASC.
- 3) **Martin Luther King / East End Neighborhood:** Residents of the surrounding neighborhood attend Discovery Night and Family Fun Day, take classes at LASC, and visit regularly.

PROJECT PLAN ELEMENTS

- 1) **DEVELOP ENVIRONMENTAL EDUCATION MATERIALS:** Develop new and build upon existing curricula that focuses on water quality, stormwater issues, and water conservation. See 2) below for details on each program. Additional educational materials focusing on water quality and quantity that are to be developed include:
 - Printed teacher lesson plans and best practices for implementation in classrooms.
 - E-tips added to LASC web and Facebook sites.

2) **INCORPORATE WATER QUALITY CURRICULA INTO EXISTING LASC PROGRAMS:**

Each of the established programs will have an area of focus on water quality, including:

- a) **Wonders on Wheels (WOW) – Wonderful Water:** This program provides in-school, hands-on presentations. With funding from previous Stormwater Quality Incentive Grant programs, LASC was able to create “*Wonderful Water – the Chemistry, Cycles, and Conservation of Water*”, a presentation to take into the schools and with further development, will be presented as a part of this grant program. Activities will focus on Core Content in the sciences through presentations that are taken into schools, libraries and community centers within Fayette County. Title One schools will receive first opportunity to take advantage of these programs.
- b) **Science Explorers:** This 12 week after school program is to be five Fayette County Elementary Schools. The lesson will focus on water for sustaining life, water sampling, testing, conservation and animal habitats as part of this program.
- c) **Urban Ecology:** This five day program provided to 4th graders in four elementary schools will focus on the concepts in Kentucky’s Core Content for Science. Issues of conservation and water quality are taught through interactive games and hands on activities such as “stream in a bottle”, an activity which demonstrates the effects of pollution in a freshwater stream.
- d) **Family Fun Day:** This program is a free day of hands-on art and science activities. The event is designed for the entire family to participate in art-making and science demonstrations. LASC anticipates it will present stormwater demonstrations on the Enviroscope and tours of urban rain gardens, stormwater cistern, and other areas.
- e) **Classes and Workshops:** Throughout the year, the LASC offers classes for students from 18 months through adulthood. The classes are all structured in a variety of ways – from one day workshops to multi-session classes throughout the summer – and provide an avenue for many to learn more in a hands-on and participatory way.
- f) **Ongoing educational displays within LASC:** LASC displays educational content throughout its building each year. These semi-permanent displays showcase a wide range of educational content for visitors to the LASC including three aquariums on display for public education.

PROJECT SUSTAINABILITY

- 1) The curricula and new program elements developed with this grant will be used in LASC programming for years to come.
- 2) LASC has dedicated personnel to plan and coordinate existing and future programs.

PROJECT SUCCESS MEASURES

- 1) LASC has established “full capacity” participation levels for each program and will track the numbers of participants in each program and event. LASC anticipates reaching over 6,000 children directly through WOW, Science Explorers, Family Fun Day, Urban Ecology, and regular classes and workshops. LASC also anticipates reaching an additional 12,000 to 15,000 through field trips and activities at LASC, website, and handouts.

- 2) Teachers involved with WOW, Science Explorers, Urban Ecology, and Professional Development will be provided program evaluations which will be reviewed and utilized for future program planning.

REPORTING REQUIREMENTS

In addition to the reporting requirements outlined in the Grant Award Agreement, the following special items are noted for this project:

- 1) All handouts and educational material shall be provided to the LFUCG Grant Manager in hard copy and electronic (PDF) format with Request for Funds & Project Status Report and/or Project Final Report.
- 2) Photographs and records documenting events, programs, trainings, workshops, et cetera shall be provided to LFUCG Grant Manager in electronic format with Project Final Report.
- 3) Sign-in sheets for Professional Development events shall be maintained and provided to LFUCG Grant Manager upon request. Participation attendance counts shall be maintained and provided to LFUCG Grant Manager upon request for all other events.
- 4) Material associated with printed teacher lesson plans and best practices for implementation within their classrooms for the field trips, professional development, and WOW programs shall be provided to the LFUCG Grant Manager in hard copy and electronic (PDF) format with Request for Funds & Project Status Report and/or Project Final Report.
- 5) Copies of program evaluations collected in association with the WOW outreach programs, Science Explores, Urban Ecology, and Professional Development programs shall be provided to LFUCG Grant Manager in hard copy or electronic (PDF) format with the Project Final Report.
- 6) All attachments to Request for Funds & Project Status Reports shall reference the associated line Table 2 – Eligible Expenses

EQUIPMENT

Any equipment purchased with the Grant shall remain the property of the Organization.

GRANT PERIOD & PROJECT SCHEDULE

The grant period starts on the date of execution by the Mayor and extends for the time period as listed in the Grant Award Agreement. Any time extensions must be approved in writing by the LFUCG Grant Manager. The project schedule shown in Table 1 is preliminary. Proposed changes to the project which alter this schedule significantly shall be discussed with the LFUCG Grant Manager prior to implementation.

TABLE 1 - PROJECT SCHEDULE

Activity	Anticipated Date
Curriculum Development and Planning	Spring 2016
Generate Educational Materials and Electronic Elements	Spring 2016
Begin LASC Programs, Classes, and Workshops	Spring 2016
Curriculum Development and Planning for Fall Classes	Summer 2016
Rain Garden Plantings	Summer 2016
Begin LASC Programs, Classes, and Workshops	Fall 2016
Professional Development	Fall 2016
Science Celebration Nights	Winter 2016
Continue LASC Programs, Classes, and Workshops (as necessary)	Spring 2017
Provide Project Final Report to LFUCG	30 days after project completion

PROJECT BUDGET – GRANT ELIGIBLE EXPENSES & ORGANIZATION COST SHARE

Table 2 lists the Eligible Expenses for this project. Only properly invoiced items shall be reimbursed with grant monies or counted toward the Organization’s cost share.

Any work performed on this project prior to grant award by Urban County Council and Notice to Proceed from the LFUCG Grant Administrator is not an eligible expense and shall not be reimbursed or counted toward the cost share with the following exception:

- None.

TABLE 2 - ELIGIBLE EXPENSES

ELIGIBLE EXPENSES									
Project Element	Type of Expense	Participants	Item	Unit Price	Quantity	Funded by Organization	Funded by Grant	Total Expense	
1 Project Element: in School Programs (including Urban Ecology, Science Explorers & WOW Outreach programs)									
2	Project Management, Curriculum Development and Teacher Training & Teaching Urban Ecology	Katherine Bullock, Discovery Education Director	Hours of Work	\$ 25.00 per hour	240	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	
3	Curriculum Development, program preparation, upkeep & maintenance, teaching Urban Ecology	Debbie Harner, Science Specialist	Hours of Work	\$ 18.00 per hour	80	\$ 1,440.00	\$ 1,440.00	\$ 1,440.00	
4	LASC Teacher Training and Science Celebration events for educational programs	LASC teachers	Hours of Training	\$ 15.00 per hour	70	\$ 1,050.00	\$ 1,050.00	\$ 1,050.00	
5	Providing <i>Wonderful Water</i> WOWs for Fayette Co. Schools & Libraries	LASC	10 locations with hands-on programs	\$ 500.00 per location	10	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	
6	Science Explorers Program	LASC teacher	Teaching Classes	\$ 75.00 per class	120	\$ 9,000.00	\$ 9,000.00	\$ 9,000.00	
7	All program materials, supplies, gift bags, items	Teachers- TBD	Science education materials	\$ 3.00 per student	1,640	\$ 4,920.00	\$ 4,920.00	\$ 4,920.00	
8	Program Food- student snacks and Celebration Night dinners	Caterers, Krogers, etc.	Food and drink	\$ 3.50 per person	500	\$ 1,750.00	\$ 1,750.00	\$ 1,750.00	
9	Guest Presenters	Kentucky Reptile Museum, etc.	Guest Presenters for classrooms and school celebrations	\$ 250.00 School	5	\$ 1,250.00	\$ 1,250.00	\$ 1,250.00	
10 Project Element: Educational Programming at Living Arts & Science Center (Classes, Family Fun Day, on-going exhibits)									
11	Wonderful Water No-School Day Classes- training and teaching	Various Teachers	hourly rate	\$ 28.00 per hour	30	\$ 840.00	\$ 840.00	\$ 840.00	
12	Family Fun Day water Teachers	LASC teachers- TBD	Hours of Work	\$ 15.00 per hour	15	\$ 225.00	\$ 225.00	\$ 225.00	
13	Program materials and Supplies	Various suppliers	for students	\$ 2.00 per person	200	\$ 400.00	\$ 400.00	\$ 400.00	
14	Guest Presenters	Kentucky Reptile Museum	flat fee presentation	\$ 250.00 per presentation	1	\$ 250.00	\$ 250.00	\$ 250.00	
15	Ongoing Live aquatic animals and plant exhibit	Inexpedit and various suppliers	pond plants, fresh water fish, crickets, zooplankton, water strider, snails, food, cleaner, etc.	various prices per item	4	\$ 500.00	\$ 500.00	\$ 500.00	
16 Project Element: Educational Programming - General Administration									
17	Facility Rental	LASC	Facility Rental: Science Explorers, Family Fun Day, Exhibits	\$ 250.00 per day	20	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	
18	LASC website and social media sites	LASC	Water quality and conservation resources and best practices	\$ 200.00 per month	12	\$ 2,400.00	\$ 2,400.00	\$ 2,400.00	
19	Imagine That	LASC	Printing and postage of publications	\$ 4,250.00 per issue	3	\$ 12,750.00	\$ 12,750.00	\$ 12,750.00	
20	Design of new website, news, social media, and print materials for all programs	Steven Littrell, Digital Media Coordinator	work hours	\$ 16.00 per hour	145	\$ 2,320.00	\$ 2,320.00	\$ 2,320.00	
21	Xerox	copying- all programs	Copying	\$ 0.07 per piece	6,000	\$ 420.00	\$ 420.00	\$ 420.00	
22	Office supplies	Staples	copy paper, printer cartridges, file folders, etc.	various prices per item	120	\$ 400.00	\$ 400.00	\$ 400.00	
23	Administration/Accountability	LeAnn Jenkins	payroll, invoicing, ordering	\$ 15.00 per hour	260	\$ 3,900.00	\$ 3,900.00	\$ 3,900.00	
24	Volunteers- Aquatic tanks	Drew Geravis	work hours	\$ 40.00 per hour	110	\$ 4,400.00	\$ 4,400.00	\$ 4,400.00	
25	Volunteers- program volunteers	Various	work hours	\$ 7.25 per hour	192	\$ 1,392.00	\$ 1,392.00	\$ 1,392.00	
26	Flyers and postcards	Got Print	program promotion	\$ 95.00 per thousand	6	\$ 570.00	\$ 570.00	\$ 570.00	
27	Volunteer and Outreach Coordinator	recruiting and scheduling volunteers	work hours	\$ 13.00 per hour	90	\$ 1,170.00	\$ 1,170.00	\$ 1,170.00	
28	Volunteer and Outreach Coordinator	recruiting and scheduling volunteers	work hours	\$ 13.00 per hour	90	\$ 1,170.00	\$ 1,170.00	\$ 1,170.00	
29	Printing and postage of Teacher Curriculum Guides and handouts	got Print	flat price	\$ 0.15 each	7,500	\$ 1,125.00	\$ 1,125.00	\$ 1,125.00	
30	Building Set-Up and Clean-up for Science Celebration	Bob Morgan- Facilities Coordinator	Setting up and Cleaning up LASC events	\$ 14.00 per hour	65	\$ 910.00	\$ 910.00	\$ 910.00	
31	Transportation	LASC van	transporting/traveling educational programs and teachers	\$ 75.00 per day	70	\$ 5,250.00	\$ 5,250.00	\$ 5,250.00	
TOTAL ELIGIBLE EXPENSES:						\$ 40,882.00	\$ 34,920.00	\$ 75,802.00	
COST SHARE % AFTER FIRST \$2,500 =						55.8%*			
MUST BE > 50%									