

**Date of Report:** April 15, 2003  
**Date of Next Status Report:** NA  
**Date of Work Program Approval:** July 1, 2001  
**Project Completion Date:** April 15, 2003  
**LCMR Work Program 2001 – Final Report**

## FINAL REPORT

### **I. PROJECT TITLE:** Project GreenStart: Environmental Education

**Project Manager:** Marcie Oltman  
**Affiliation:** Minnesota Children's Museum  
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**Total Biennial Project Budget:** \$340,000

**\$LCMR Appropriation:** \$340,000  
**\$Amount Spent (through April 15, 2003):** \$340,000  
**\$Balance:** \$0

**Legal Citation:** ML 2001, 1<sup>st</sup> Special Session [Chap. 2], Sec.[ 14 ], Subd. 10g.

#### **Appropriation Language:**

10 (g) Project Green Start: Environmental Education \$340,000  
\$340,000 is from the future resources fund to the commissioner of natural resources for an agreement with the Minnesota Children's Museum to construct habitat exhibits for environmental education activities.

### **II. & III FINAL PROJECT SUMMARY**

*Earth World* is Minnesota Children's Museum's most popular permanent gallery. *Earth World* includes a series of Minnesota habitats that guide and encourage children to explore the seasons and cycles within wetland, forest and prairie. It is an immersive environment that allows visitors an opportunity to get an "inside" view of the wonders and mysteries of nature. More than 370,000 Museum visitors are introduced to Minnesota habitats and environmental concepts each year in *Earth World*. This includes 71,469 school age children (7,000 from a partnership with the St. Paul School District for K-2) and 1,616 Access members and their families (memberships given to lower income families through programs with Ramsey County RAP Headstart, Habitat for Humanity, Anoka County Headstart and the Museum Adolescent Parent Program).

With LCMR funding we updated and strengthened two main habitats in the *Earth World* gallery – wetland and forest. In these areas, we designed and implemented the

following: a large freshwater aquarium that allows display and interpretation of native turtles and fish; an interactive turtle shell that supports dramatic play; a bouldering wall that allows children to "climb" laterally on a replicated stone surface, allowing practice and development of gross motor skills; a beaver den that allows children to "become a beaver" by putting on beaver costumes and entering the beaver den; a stream and water play area where children can explore the properties of flowing water using natural materials; and, a renovated ant hill maze. At the same time, educational activities were added to extend the learning experience about Minnesota habitats. The redevelopment includes new baby animal components and the Lodge, where staff conduct informal educational programs aimed at teaching children about the Minnesota habitats of wetland, forest and prairie.

#### Project Results Use and Dissemination

Information obtained through research, prototype testing and evaluation has been implemented as a successful gallery renovation. All participants in the gallery experience (children and their adult caregivers) will benefit from the retrofitting of the gallery through increased depth of experience, a variety of age appropriate learning activities and the experience of playful exploration and learning.

#### **IV. OUTLINE OF PROJECT RESULTS**

##### **Result 1: Concept Development**

Deliverable products expected in this result include a written exhibit treatment, educational goals and messages and concept sketches.

**LCMR Budget: \$1,891**

**Balance: \$0**

##### **Personnel**

Exhibit Developer	\$ 1,705
Exhibit Designer	\$ 186
Exhibit Fabricator	\$ 0

##### **Equipment**

Development	\$ 0
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Acquisition	\$ 0
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Other	\$ 0
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**Completion Date:** September 30, 2001

##### **Result Status:**

Written exhibit treatment: Complete

Educational goals and messages: Complete

Concept Sketches: Complete

**Result 2:****Preliminary (Schematic) Development**

Deliverable products expected in this result include written visitor experience objectives, written exhibit walkthrough, preliminary component list and floor plan, consultation with architects, white model.

**LCMR Budget: \$5,507**

**Balance: \$0**

**Personnel**

Exhibit Developer \$ 3,946

Exhibit Designer \$ 1,513

Exhibit Fabricator \$ 48

**Equipment**

\$ 0

**Development**

\$ 0

**Acquisition**

\$ 0

**Other**

\$ 0

**Completion Date:** February 28, 2002

**Result Status**

Written Visitor Experience Objectives: Complete

Written Exhibit Walkthrough: Complete

Preliminary Component List And Floor Plan: Complete

Consultation With Architects: Complete

White Model: Complete

**Result 3:****Design Development**

Deliverable products expected in this result include detailed exhibit activity descriptions, working drawings, prototypes of activities for testing, construction documents and request for construction bids. Demolition and construction of the 5<sup>th</sup> floor program area.

**LCMR Budget: \$18,677**

**Balance: \$0**

**Personnel**

Exhibit Developer \$ 10,168

Exhibit Designer \$ 2,986

Exhibit Fabricator \$ 1,023

**Equipment**

\$ 0

**Development**

\$ 0

**Acquisition**

\$ 0

**Other**

Exhibit Fabrication \$ 4,500

**Completion Date:** July 31, 2002

**Result Status:**

Program area:

Detailed exhibit activity descriptions: Complete.

Working drawings, activity prototypes: Complete.

Construction documents and request for construction bids: Complete.

Demolition and construction of the 5<sup>th</sup> floor program area: Completed in Result 4.

**Result 4: Fabrication and Installation**

Deliverable products expected in this result include demolition of existing 4<sup>th</sup> floor exhibits and fabrication of interactive components.

**LCMR Budget: \$177,206**

**Balance: \$0**

**Personnel**

Exhibit Developer	\$	12,662
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Exhibit Designer	\$	10,641
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Exhibit Fabricator	\$	18,302
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<b>Equipment</b>	\$	0
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<b>Development</b>	\$	0
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<b>Acquisition</b>	\$	0
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**Other**

Exhibit Fabrication	\$	130,663
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General Construction	\$	1,140
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Architect Fees	\$	3,611
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Books	\$	112
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Lighting Supplies	\$	75
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**Completion Date:** December 31, 2002

**Result Status:**

Demolition and construction of the 5<sup>th</sup> floor program area—complete.

Demolition and fabrication of existing 4<sup>th</sup> floor exhibits—complete.

Development, design and fabrication of the wetland area—see Result 4A.

**Result 4A: Wetland Area Design, Development, Fabrication & Installation**

This result represents a continuation of Result 4 and includes those sections of the gallery that were not completed in result 4. Deliverable products expected in this result include the design, development, fabrication and installation of the wetland area of the gallery. A contract was entered into with Themescapes, Inc. on Jan 29, 2003 for the completion of this work.

**LCMR Budget: \$131,480**

**Balance: \$0**

<b>Personnel</b>	
Exhibit Developer	\$ 4,000
Exhibit Designer	\$ 3,875
Exhibit Fabricator	\$ 2,010
<b>Equipment</b>	\$ 0
<b>Development</b>	\$ 0
<b>Acquisition</b>	\$ 0
<b>Other</b>	
Exhibit Fabrication	\$ 108,500
General Construction Supplies	\$ 746
Architect Fees	\$ 2,166
Costume Fabricator	\$ 1,922
Carpeting	\$ 5,860
Books	\$ 207
Exhibit Props	\$ 2,194

**Completion Date:** February 28, 2003

**Result Status:** Complete

**Result 5:**

**Opening and Post-Production**

Deliverable products expected in this result include post installation changes and improvements.

**LCMR Budget: \$5,239**

**Balance: \$0**

<b>Personnel</b>	
Exhibit Developer	\$ 1,000
Exhibit Designer	\$ 1,000
Exhibit Fabricator	\$ 2,727
<b>Equipment</b>	\$ 0
<b>Development</b>	\$ 0
<b>Acquisition</b>	\$ 0
<b>Other</b>	
Electrical	\$ 276
Books	\$ 38
Exhibit Props	\$ 198

**Completion Date:** April 15, 2003

**Result Status:** Complete

## V TOTAL PROJECT BUDGET

All Results: Personnel	\$77,792
All Results: Equipment	\$0
All Results: Development	\$0
All Results: Acquisition	\$0
All Results: Other	\$262,208
TOTAL BUDGET:	<b>\$340,000</b>

### A.) ATTACHMENT A

## VI. PAST, PRESENT AND FUTURE SPENDING

### A. Past Spending:

Andersen Corporation has been a major partner in support of the *Earth World* gallery since it opened in our new building. They gave the lead gift of \$500,000 for *Earth World* development and installation. Andersen Corporation also has provided growing programming support with annual operating gifts. This support allowed the creation of school workshops with environmental themes, the development of Tree Top Canopy, a special presentation area, and the creation and operation of *Windows on Earth World*, a series that brings live animals to the Museum every second Sunday - a highlight for many Museum visitors and members.

In 1997 the Museum partnered with the Department of Natural Resources to launch Project GreenStart. With a legislative appropriation of \$170,000, Project GreenStart allowed many important enhancements to the Museum's environmental education programs for young children. In the first year the program focused on making *Earth World* Gallery rich with interactive experiences for children, caregivers, staff and volunteers. This gallery and programming has become a model that children's museums around the country seek to emulate. In GreenStart's second year the Museum initiated outreach programming. GreenStart programming went into neighborhoods in collaboration with Minneapolis-based *Way To Grow* to provide environmental education in urban communities as part of a kindergarten readiness program.

### B. Current and Future Spending:

The Museum's commitment to early childhood environmental education continues to be a strategic priority. Base funding for the *Earth World* gallery and GreenStart programs is included in our current operating budget. In addition, resources have been allocated for the redevelopment of certain exhibit areas in need of modification. We anticipate continued Andersen Corporation support and will be approaching the Bayport Foundation for future support.

In the 2000 Legislative session, the State of Minnesota appropriated \$500,000 in bonding money to develop *Rooftop ArtPark* on the 4<sup>th</sup> floor of Minnesota Children's Museum. This new gallery will be adjacent to *Earth World* and allow for complementary messages and a deeper, richer educational experience. However, the development of *Rooftop ArtPark* and redevelopment of *Earth World* are completely separate projects in the planning and implementation phases and are administered separately. While this project is related to the *Earth World* gallery redevelopment and expansion, it is a separate project and is administered as such.

#### **C. Project Partners:**

- Joel Stedman, Head of Interpretive Services, MN Department of Natural Resources
- Kathy Kinzig, Executive Director, Eco Education,
- Jim Roe, Director of Exhibits, MCM
- Larry Ackerley, Exhibit Designer, MCM
- Bette Schmit, Exhibit Developer, MCM
- Rebecca Stendahl, Interpretive Specialist, MCM
- Subcontractors: Themescapes, Inc.

#### **D. Time:**

The project was completed in the appropriation time period.

#### **VII. DISSEMINATION**

The opening of the new exhibits will be widely publicized to the general public through press releases, photo opportunities, web site announcements, and a grand re-opening celebration. In addition, trade publications and professional organizations will be notified of the project and appropriation.

#### **VIII. LOCATION**

The project will take place at Minnesota Children's Museum, located at 10 W. 7<sup>th</sup> St. in downtown St. Paul, Ramsey County, MN 55102.

**MINNESOTA CHILDREN'S MUSEUM**  
**Project Greenstart: Environmental Education**  
**for Minnesota's Youngest Citizens**  
**Project Number: EE50**  
**LCMR Recommended Funding: \$340,000**  
**REVISED BUDGET - 04-14-03**

		Result 1: Content Develop		
		Jul-01-01 to Sep-30-01		
		Invoice #1		
MCM				
<u>Account #</u>	<u>Description</u>	<u>Budget</u>	<u>7/1/01-9/30/01</u>	<u>Balance</u>
5000	Exhibit Developer	1,705.00	1,705.00	-
5000	Exhibit Designer	186.00	186.00	-
5000	Exhibit Fabricator	-	-	-
TOTAL Wages Salaries & Benefits		1,891.00	1,891.00	-
5600	Printing	-	-	-
5610	Photography	-	-	-
5810	Books for Programs	-	-	-
5820	Program Materials	-	-	-
5830	Aquariums & Filtration Systems/Sheet Pl	-	-	-
5835	Exhibit Props	-	-	-
5860	Lighting Supplies	-	-	-
5999	Architect	-	-	-
5999	General Construction	-	-	-
5999	Electrical	-	-	-
5999	Demolition	-	-	-
5999	Carpeting Instalation	-	-	-
5999	Costume Fabricator	-	-	-
5999	Veterinarian	-	-	-
5999	Aquarium Consultant	-	-	-
7410	Exhibit Fabrication	-	-	-
TOTAL		1,891.00	1,891.00	-



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		Result 2: Prelim Develop				Result 3: Design Develop				Result 4: Fabrication & Install			
		Oct-01-01 to Feb-28-02				Mar-01-02 to Jul-31-02				Aug-01-02 to Dec-31-02			
MCM		Invoice #1		Invoice #2		Invoice #1		Invoice #2		Invoice #1		Invoice #2	
Account #	Description	Budget	10/01/01-12/31/01	1/1/02-2/28/02	Balance	Budget	3/01/02-6/30/02	7/01/02-7/31/02	Balance	Budget	8/01/02-9/30/02	10/01/02-12/31/02	Balance
5000	Exhibit Developer	3,946.00	2,464.00	1,482.00	-	10,168.00	8,013.00	2,155.00	-	12,662.00	8,187.00	4,475.00	-
5000	Exhibit Designer	1,513.00	458.00	1,055.00	-	2,986.00	2,385.00	601.00	-	10,641.00	7,531.00	3,110.00	-
5000	Exhibit Fabricator	48.00	-	48.00	-	1,023.00	943.00	80.00	-	18,302.00	12,729.00	5,573.00	-
TOTAL Wages Salaries & Benefits		5,507.00	2,922.00	2,585.00	-	14,177.00	11,341.00	2,836.00	-	41,605.00	28,447.00	13,158.00	-
5600	Printing	-	-	-	-	-	-	-	-	-	-	-	-
5610	Photography	-	-	-	-	-	-	-	-	-	-	-	-
5810	Books for Programs	-	-	-	-	-	-	-	-	112.00	-	112.00	-
5820	Program Materials	-	-	-	-	-	-	-	-	-	-	-	-
5830	Aquariums & Filtration Systems/Sheet PI	-	-	-	-	-	-	-	-	-	-	-	-
5835	Exhibit Props	-	-	-	-	-	-	-	-	-	-	-	-
5860	Lighting Supplies	-	-	-	-	-	-	-	-	75.00	-	75.00	-
5999	Architect	-	-	-	-	-	-	-	-	3,611.00	-	3,611.00	-
5999	General Construction	-	-	-	-	-	-	-	-	1,140.00	1,140.00	-	-
5999	Electrical	-	-	-	-	-	-	-	-	-	-	-	-
5999	Demolition	-	-	-	-	-	-	-	-	-	-	-	-
5999	Carpeting Instalation	-	-	-	-	-	-	-	-	-	-	-	-
5999	Costume Fabricator	-	-	-	-	-	-	-	-	-	-	-	-
5999	Veterinarian	-	-	-	-	-	-	-	-	-	-	-	-
5999	Aquarium Consultant	-	-	-	-	-	-	-	-	-	-	-	-
7410	Exhibit Fabrication	-	-	-	-	4,500.00	4,500.00	-	-	130,663.00	87,142.00	43,521.00	-
TOTAL		5,507.00	2,922.00	2,585.00	-	18,677.00	15,841.00	2,836.00	-	177,206.00	116,729.00	60,477.00	-

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**REVISED BUDGET - 04-14-03**

		Result 4A: Wetlands Design, Dev, Fab & Install			
		Jan-01-03 to Feb-28-03			
MCM			Invoice #1	Invoice #2	
Account #	Description	Budget	1/01/03-1/31/03	2/01/03-2/28/03	Balance
5000	Exhibit Developer	4,000.00	3,322.73	677.27	-
5000	Exhibit Designer	3,875.00	1,270.60	2,604.40	-
5000	Exhibit Fabricator	2,010.00	276.00	1,733.92	0.08
TOTAL Wages Salaries & Benefits		9,885.00	4,869.33	5,015.59	0.08
5600	Printing	-	-	-	-
5610	Photography	-	-	-	-
5810	Books for Programs	207.00	52.62	154.62	(0.24)
5820	Program Materials	-	-	-	-
5830	Aquariums & Filtration Systems/Sheet PI	746.00	-	746.49	(0.49)
5835	Exhibit Props	2,194.00	94.15	2,099.82	0.03
5860	Lighting Supplies	-	-	-	-
5999	Architect	2,166.00	2,165.98	-	0.02
5999	General Construction	-	-	-	-
5999	Electrical	-	-	-	-
5999	Demolition	-	-	-	-
5999	Carpeting Instalation	5,860.00	-	5,860.00	-
5999	Costume Fabricator	1,922.00	400.00	1,521.52	0.48
5999	Veterinarian	-	-	-	-
5999	Aquarium Consultant	-	-	-	-
7410	Exhibit Fabrication	108,500.00	52,785.00	55,714.88	0.12
TOTAL		131,480.00	60,367.08	71,112.92	0.00

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**REVISED BUDGET - 04-14-03**

		Result 5: Opening & Post-Production			Total Project		
		Mar-01-03 to Apr-30-03					
		Invoice #1					
MCM							
Account #	Description	Budget	3/01/03-3/31/03	Balance	Budget	Invoiced	Balance
5000	Exhibit Developer	1,000.00	1,000.00	-	33,481.00	33,481.00	-
5000	Exhibit Designer	1,000.00	1,000.00	-	20,201.00	20,201.00	-
5000	Exhibit Fabricator	2,727.00	2,727.23	(0.23)	24,110.00	24,110.15	(0.15)
TOTAL Wages Salaries & Benefits		4,727.00	4,727.23	(0.23)	77,792.00	77,792.15	(0.15)
5600	Printing	-	-	-	-	-	-
5610	Photography	-	-	-	-	-	-
5810	Books for Programs	38.00	38.34	(0.34)	357.00	357.58	(0.58)
5820	Program Materials	-	-	-	-	-	-
5830	Aquariums & Filtration Systems/Sheet Pl	-	-	-	746.00	746.49	(0.49)
5835	Exhibit Props	198.00	197.56	0.44	2,392.00	2,391.53	0.47
5860	Lighting Supplies	-	-	-	75.00	75.00	-
5999	Architect	-	-	-	5,777.00	5,776.98	0.02
5999	General Construction	-	-	-	1,140.00	1,140.00	-
5999	Electrical	276.00	275.87	0.13	276.00	275.87	0.13
5999	Demolition	-	-	-	-	-	-
5999	Carpeting Instalation	-	-	-	5,860.00	5,860.00	-
5999	Costume Fabricator	-	-	-	1,922.00	1,921.52	0.48
5999	Veterinarian	-	-	-	-	-	-
5999	Aquarium Consultant	-	-	-	-	-	-
7410	Exhibit Fabrication	-	-	-	243,663.00	243,662.88	0.12
TOTAL		5,239.00	5,239.00	(0.00)	340,000.00	340,000.00	(0.00)