

**Texas Parks & Wildlife Department
Texas Recreational Trails Fund – Grant Application**

7. ITEMIZED BUDGET

Bobcat Woods Trail Repair & Extension

Bill of Materials

Element	Width, Feet	Length, feet	Depth, inches	Material Description	Cost Basis	\$/foot	Cost
Concrete Trail	6	1300	4	Per spec of Dow Woods trail	Dow Woods trail section plus \$1.50/foot wood grain embossing	\$17.00	\$22,100
Concrete Trail	6	30	6	Per spec of Dow Woods trail, thickened for crossing levy road.	Dow Woods trail section plus additional reinforcement and concrete and \$1.50/foot wood grain embossing	\$22.00	\$660
Concrete stain	6	1330	NA	Direct Colors SSB	Dow Woods trail invoice @ \$1460 per 55 gallon drum, two drums		\$2,960
Crushed concrete trail base	6	320	3	Vulcan materials	Dow Woods trail experience	\$1.97	\$629
Granite topping, crushed concrete trail	6	320	1	Brazos Landscaping Supply	Dow Woods trail experience	\$1.37	\$439
Galvanized edging		640	4		Dow Woods trail section	\$1.80	\$1,153
Resurface existing boardwalk	6	1010	2	TanDek tong-in-groove, 2"X 6"X12' wood grain surface plastic composite decking with 2"X4"X12' composite edging	Dow Woods trail section. The Otter Slough Boardwalk used 2"X6"X16' TanDek for an 8-foot wide span, costing \$61.14 /foot.	\$58.11	\$58,688
Decking surface over raised boardwalk over Cocklebur Slough	6	530	2	TanDek tong-in-groove, 2"X 6"X12' wood grain surface plastic composite decking with 2"X4"X12' composite edging	Dow Woods trail section	\$58.11	\$30,796
Decking surface of ramp to reservoir observation deck.	6	200	2	TanDek tong-in-groove, 2"X 6"X12' wood grain surface plastic composite decking with 2"X4"X12' composite edging	Dow Woods trail section	\$58.11	\$11,621
Railing for raised boardwalk over Cocklebur Slough		<530			Mimic railing for boardwalk at Anahuac NWR headquarters		\$4,000
Railing for one side of ramp to reservoir observation deck.		<200			Mimic railing for boardwalk at Anahuac NWR headquarters		\$1,200
Repair of support structure under existing boardwalk	6	1010	Varies	Replace defective stringers and add stringers for max 16" span.	Ground contact rated pressure treated pine		\$3,000
Support structure for slough boardwalk	6	530	Varies	8" diameter butt tapered, driven timber piles space every ten feet in length, 3" X 10" cross bracing, 2X8 stringers max 16" centers with 2X8 blocking mid-span	Experience from building boardwalk over Otter Slough, Brazoria NWR.		\$10,000
Support structure for ramp to reservoir	6	200	Varies	Probably 6"X6" inch pilings with 2X6 stringers	Depends on elevation on sloping ground		\$5,000
Refurbish water well.					Experience from a nearby well rehab.		\$5,000
Solar pump for well				Set pump and panels. Three-panel system mounted on galv. Steel 4" pole top of pole mount.	3/1//2014 invoice from Blue Water Pump and Well Service		\$5,700

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Floating platform on slough for pond life exercise			\$2,000
Raised platform for forest understory observation			\$25,000
Miscellaneous hardware		Dow Woods Trail experience	\$300
Interpretive signs		Guesstimate 6 @ \$500 each	\$3,000
Trail benches	Outdoor bench, 3 at \$271 each	Barco Products catalog	\$813
Bid solicitations in The Facts		Dow Woods trail cost \$150 each, assume one bid for concrete and a second bid for composite decking	\$300
Contingency			\$5,639
		Total Estimated Grant Expense	\$200,000

Material cost estimates are based on the experience of elements of two recent trail construction projects: The Dow Woods Trail (built with a Texas Recreational Trails Grant awarded in 2009, and a boardwalk over Otter Slough on the Brazoria National Wildlife Refuge. All labor on this project is either volunteer or in-kind supplied by staff of the local national wildlife refuges. Heavy equipment needed for construction will be provided as in-kind from the U.S. Fish and Wildlife Service or as part of a bid contract (i.e. the concrete trail sections).

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13. PROJECT LOCATION

A. City: Brazoria County: Brazoria

B. State Legislative District Numbers: (www.senate.state.tx.us Go to Senators/Who Represents Me?). Type in the project site address to locate your Texas Senate District, Texas House Representative District and U.S. Congressional District number. Please print out the page from your computer that indicates the project location numbers and attach to this application. **Do not leave these three district numbers blank. There can only be one district number for each of these categories listed below. Please fill in completely.**

- 1. Texas Senate District No. 17
- 2. Texas House Representative District No. 25
- 3. Congressional District No. 14

LEGISLATIVE DISTRICT PRINTOUT for the Project Site

<http://www.fyi.legis.state.tx.us/address.aspx?Address1=6801+county+road+306&City=Brazoria&ZipCode=77422&DistrictType=ALL&Submit1=Find+Rep%21>

**Who Represents Me?
Districts By Address**

Find District | Member Information | District Information

[U.S. Senators](#) | [U.S. Representatives](#) | [State Senators](#) | [State Representatives](#) | [SBOE](#)

6801 County Road 306
Brazoria, TX
77422-7896
Brazoria

Texas U.S. Senators

U.S. Senators represent the entire state. Texas' current U.S. Senators are [Senator John Cornyn](#) and [Senator Ted Cruz](#). See their websites for current contact information.

Texas U.S. Representative

Congressional District 14--Congressman Randy Weber
[Texas Congressional Member Websites](#)

Texas State Senator

Texas State Senate District 17--[Senator Joan Huffman](#)
Capitol Office: CAP 3E.2
Capitol Phone: (512) 463-0117
Capitol Address: P.O. Box 12068, Capitol Station
Austin, TX 78711
District Address: P.O. Box 541774
Houston TX 77254
Phone: (281) 980-3500
[State District Offices](#)

Texas State Representative

Texas State House District 25--[Representative Dennis Bonnen](#)
Capitol Office: CAP 1W.6
Capitol Phone: (512) 463-0564
Capitol Address: P.O. Box 2910
Austin, TX 78768
District Address: 122 East Myrtle
Angleton TX 77515
Phone: (979) 848-1770

Select District Type:

**Texas Parks & Wildlife Department
Texas Recreational Trails Fund – Grant Application**



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Texas Mid-Coast NWR Complex
2547 County Road 316
Brazoria, TX 77422

Texas Parks and Wildlife Department
Recreational Grants, Coordinator

January 13, 2015

Dear Sirs

I am writing to convey our support for the grant application you have received from the Friends of Brazoria Wildlife Refuges. The application, titled "Bobcat Woods Trail Extension" is a replacement of the existing boardwalk and an expansion and upgrade of the trail. The trail development is consistent with the Texas Mid-coast NWR Comprehensive Conservation Plan (2013), which includes a Compatibility Determination for wildlife observation and photography on public use trails. The Bobcat Woods is within the primary public use area at San Bernard NWR. The expansion of the trail will connect the Wolfweed levee trail to the Bobcat Woods trail at the north end by crossing Cacklebur Slough and forming a loop instead of an up and back trail.

If you need any further information, please let me know.

Sincerely,

Jennifer Sanchez, Project Leader, Texas Mid-Coast NWR Complex

**Texas Parks & Wildlife Department
Texas Recreational Trails Fund – Grant Application**



January 14, 2015

The Dow Chemical Company
2301 N. Brazosport Blvd.
Freeport, Texas 77541-3257

Mr. Edward Barrios, President
Friends of Brazoria Wildlife Refuges
P.O. Box 505
Lake Jackson, Texas 77566

Dear Ed:

I am honored to be asked to serve as Honorary Chair for your biannual *A Taste for Nature* fundraiser event scheduled for October of this year and am delighted to accept.

My personal commitment is also in line with The Dow Chemical Company's commitment to raise the level of public education, enjoyment, as well as awareness of nature and the environment. All this made my decision easy.

I wish you a great success at the event! I'm confident this fundraiser will help continue and improve these programs, while providing funds for new or remodeling "brick and mortar" projects like the expansion of the Bobcat Woods Nature Trail planned for the San Bernard National Wildlife Refuge.

Best regards,

A handwritten signature in cursive script that reads "Earl Shipp".

Earl Shipp
Vice President – U.S. Gulf Coast Operations

**Texas Parks & Wildlife Department
Texas Recreational Trails Fund – Grant Application**

KATHRINE G. McGOVERN

2211 NORFOLK, SUITE 800
HOUSTON, TEXAS 77098-4044
(713) 524-5255 FAX (713) 524-5112

December 22, 2014

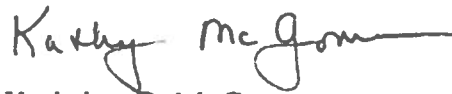
Ed Barrios
President
Friends of Brazoria Wildlife Refuges
P.O. Box 505
Lake Jackson, TX 77566

Dear Mr. Barrios:

Please find enclosed my personal check in the amount of \$35,000.00 as a donation to Friends of Brazoria Wildlife Refuges. The funds are to be used for the following: \$25,000.00 for the Brazoria Wildlife Refuge; and \$10,000.00 for the San Bernard Wildlife Refuge.

With all best wishes for a happy and prosperous New Year.

Sincerely,



Kathrine G. McGovern

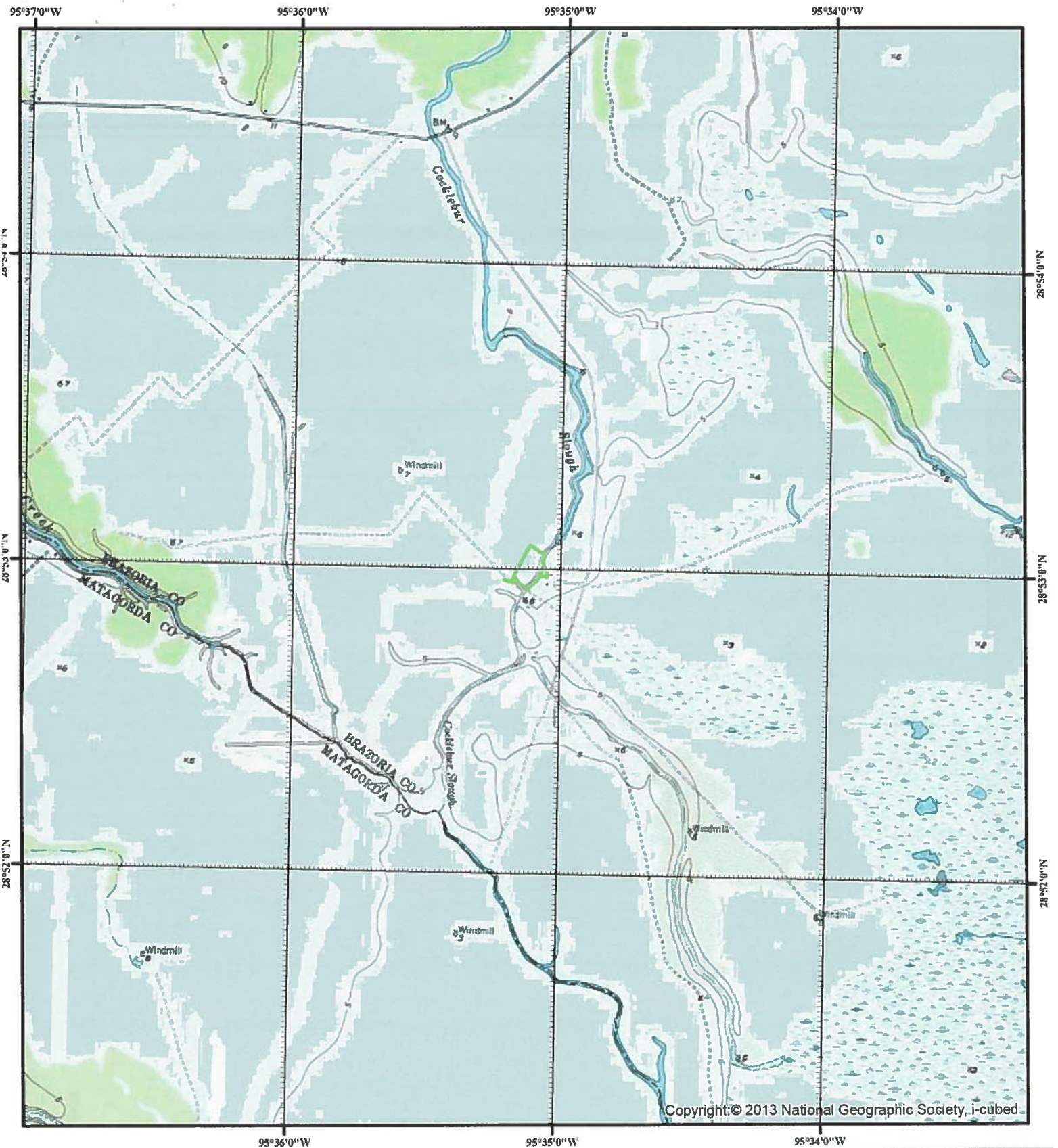
KGMcG/j

Enclosure



U.S. Fish & Wildlife Service
Texas Mid-coast National Wildlife Refuge Complex

San Bernard NWR
Bobcat Woods Trail



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legend
Bobcat Woods Trail



Friends of Brazoria
Wildlife Refuges



979-297-1815

president@refugefriends.org

http://refugefriends.org

Board of Directors

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Dennis Mudderman

David Plunkett

Dick Schaffhausen

Tom Taroni

Torry Tvedt

Advisory Board – USFWS

Jennifer Sanchez

The Friends of Brazoria Wildlife
Refuges is a non-profit 501(c)(3)
Corporation. Tax ID number
76-0440298

 ORIGINAL

January 15, 2015

Texas Parks and Wildlife Department
Recreational Trails Program
4200 Smith School Road
Austin, Texas 78744

Dear Sirs;

The Friends of Brazoria Wildlife Refuges is pleased to submit the attached application for a grant from the Recreational Trails Program, with funds to be used for the rehabilitation and extension of the Bobcat Woods Trail on the San Bernard National Wildlife Refuge.

I shall be happy to answer any further questions you might have or to provide additional details that you might desire.

Thank you for considering our grant proposal.

Sincerely,

Martin Cornell

Grant Administrator and Member of the Board
Friends of Brazoria Wildlife Refuges

Texas Parks & Wildlife
RECEIVED

JAN 21 2015

Recreation Grants Branch