



Flour Bluff ISD Invasive Species Removal

Final Report

Publication CBBEP – 188

Project Number – 2422

February 2025

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Submitted to:

Coastal Bend Bays & Estuaries Program

1305 N. Shoreline Blvd. Suite 205

Corpus Christi, TX 78401

The views expressed herein are those of the authors and do not necessarily reflect the views of CBBEP or other organizations that may have provided funding for this project.

Final Report:

Flour Bluff Independent School District (FBISD) Invasive Species Removal

Contract No. 2422

Background

Invasive woody species are known to occur on properties owned by Flour Bluff Independent School District (FBISD) and are detrimental to native plant and animal species. This includes Brazilian peppertree (*Schinus terebinthifolia*) and white lead tree (*Leucana leucocephala*). Invasive plant species often out-compete native species and do not provide the quality habitat needed by native wildlife. Both Brazilian peppertree and white lead tree are aggressively growing invasive species and successfully removing them from a property requires both initial removal/herbicide treatment and the subsequent treatment of regrowth. Brazilian peppertree grows in dense thickets that are unusable to terrestrial wildlife. Contact with the oils of this tree is also known to cause dermatitis in humans, livestock, and wildlife.

The purpose of this project was to engage a contractor to perform removal/treatment of invasive species on a 51-acre property referred to as the FBISD Wetlands (Figure 1). The property is located at the intersection of Laguna Shores and Hustlin' Hornet. The treatment area was comprised of approximately 30 acres of the FBISD Wetlands.

Contractors were invited to submit bids through the State of Texas' website. Emails were also sent to local contractors involved in previous land clearing work for CBBEP. A pre-bid site visit occurred on July 16, 2024 and interested contractors were encouraged to meet on-site with Aaron Baxter (CBBEP) and Katie Doyle (FBISD). CBBEP ultimately received three bids from interested contractors (Attachment 1). Of the three submissions, BioTree Care was selected, as the lowest bidder, to conduct the removal of invasive species at the FBISD Wetlands property.

Figure 1. Map of FBISD Wetlands showing property line (blue) and areas to be treated (yellow).



Objectives

The project objectives included: 1) mechanical removal of invasive plant species, 2) spray application of herbicide to fresh cut stumps and invasive grasses, and 3) provide a summary report of removal/treatment activities.

Deliverables

Pre-treatment Conference: A pre-treatment conference was held 8/27/2024 on the FBISD Wetlands property. Oscar Perez (BioTree Care), Katie Doyle (FBISD), and Aaron Baxter (CBBEP) were in attendance. During the meeting, all project specifics were discussed in detail including project tasks, deliverables, billing, and reporting. During the meeting, it was stressed that native plant species and the sensitive wetland habitats were to be avoided during any work in the project area. At the conclusion of the meeting, BioTree Care was given permission to begin work at the FBISD Wetlands.

Initial Treatment of Invasive Species: The mechanical removal of invasive species began on 9/3/2024 and ended on 9/16/2024. Larger woody invasives, such as saltcedar (*Tamarix* sp.), Brazilian peppertree, and white lead tree, were removed using a skid steer with a mulcher attachment (Figure 2) and/or chainsaws and were then immediately sprayed with herbicide (Triclopyr with surfactant and dye indicator) to maximize absorption into the plant tissue. Mulch was left in place, on-site as requested by FBISD. Invasive grasses were treated with herbicide (Glyphosate with dye indicator) using spray applicators. Care was taken to avoid sensitive wetland habitats and native species were intentionally left in place. Figure 3 shows before and after images of the work performed under this contract.

Figure 2. Skid steer with mulcher attachment



Figure 3. Before and after photos of the FBISD Wetlands property



Treatment of regrowth: After the initial removal of invasive species occurred, the area was monitored daily for regrowth. This task was performed by students and staff of FBISD, along with community volunteers. Students assisted in the removal of regrowth by mechanical removal (hand-pulling), while herbicide was applied by trained school district staff and adult volunteers. Table 1 shows the overall timeline for initial treatment, and retreatment, of the FBISD Wetlands property.

Date	Task	Personnel
9/3/2024	Initial Removal Initiated	BioTree Care
9/16/2024	Initial Removal Completed	BioTree Care
10/10/2024	Mechanical Removal of Regrowth	FBISD 6th grade students, Katie Doyle
10/15/2024	Herbicide Treatment of Regrowth	Rene Samson, Katie Doyle, Larissa Ford
11/23/2024	Herbicide Treatment of Regrowth	Katie Doyle
12/21/2024	Herbicide Treatment of Regrowth	Katie Doyle

Table 1. Timeline for removal and retreatment of invasive species at the FBISD Wetlands property

Results

Prior to the initial removal and retreatments of invasive species at the FBISD Wetlands, the habitat was of low quality to native wildlife and dense stands of woody invasives restricted use of the property by FBISD students and staff. The two most important aspects of the FBISD Wetlands is to 1) provide native habitat for native wildlife, and 2) provide outdoor educational opportunities for students at FBISD. Figure 3 shows an aerial view captured after the initial removal activities concluded and shows the open spaces created by removal of dense stands of Brazilian peppertree and white lead tree. These open areas will allow for the expansion of native woody species, such as live oak, and the return of native herbs, forbs, and grasses.

Figure 3. Aerial view captured after the initial removal of invasive species from the FBISD Wetlands



Within a few weeks, native undergrowth species began to appear along with many pollinator insect species that rely on native grasses, herbs, and forbs to serve as food sources and host plants for their larvae. Figure 4 shows a newly emerged passionflower and a Gulf fritillary caterpillar, for which this plant species serves as a host.

Figure 4. Native passionflower and Gulf fritillary caterpillar at the FBISD Wetlands



Along with native plant species, native wildlife quickly returned to the newly accessible habitat and wildlife trail cameras were employed to capture the presence of native wildlife at the FBISD wetlands. Figure 5 shows just two examples of native wildlife use of the FBISD Wetlands, although the list of native species developed using the trail cameras also includes coyote, white-tailed deer, Virginia opossum, and raccoon.

Figure 5. Examples of native wildlife at the FBISD Wetlands (Bobcat and Javelina)





Recommendations

While the project has achieved initial success in the removal of invasive plant species, and the subsequent return of native plant and animal species, it is imperative that continued treatments of invasive species occur to prevent this property from returning to its previous state. This will require committed efforts by FBISD students, staff, and their community volunteers. Flour Bluff ISD has indicated a long-term commitment to maintaining this property to ensure that it remains in a native state and free from invasive plant species. Efforts should be made to seek out dedicated funding towards the long-term maintenance of the FBISD Wetlands.

Attachment 1: Contractor Bid Packages for FBISD Invasive Species Removal

Coastal Bend Bays & Estuaries Program – Invasive Plant Species Removal on Flour Bluff Independent School District Property

SECTION 3 – BID SHEET

Bid Sheet for Invasive Plant Species Removal on Flour Bluff Independent School District Property

This sheet must be filled out completely, either in ink or typewritten. A copy of the contractor's TDA Commercial Application License should be provided as a supplement to this bid sheet. Contractor may attach any additional supplemental information they feel is necessary.

Project No. CBBEP 2422

Contractor:

Project Name: Invasive Plant Species Removal on Flour Bluff ISD Property

Contact Information:

Bid Date:

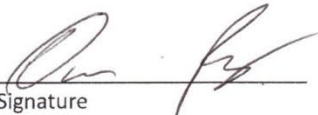
		Contractor Price
	Item Description	BID
1	Invasive Plant Species Removal and Treatment (approx 30 acres)	\$ 33,000
	Includes cutting, mulching, and herbicide treatment	
	TOTAL	\$ 33,000

Oscar Perez with BioTree Care, LLC

Printed Name

Arborist/Owner

Title


Signature

07/16/2024

Date

The winning bidder must certify the minimum insurance coverages (in the amount of \$1,000,000) and provide proof of insurance upon request by the CBBEP.



The International Society of Arboriculture

Hereby Announces That

Oscar Perez

Has Earned the Credential

ISA Certified Arborist ®

By successfully meeting ISA Certified Arborist certification requirements through demonstrated attainment of relevant competencies as supported by the ISA Credentialing Council

Caitlyn Polihon
CEO & Executive Director

30 May 2020

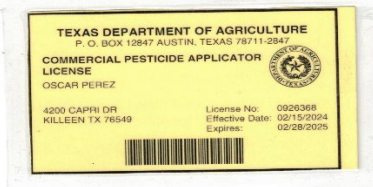
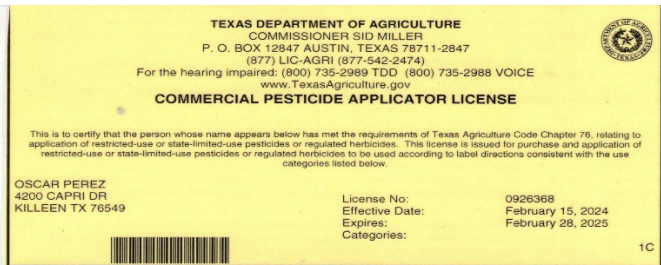
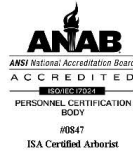
30 June 2026

TX-4625 A

Issue Date

Expiration Date

Certification Number





BIOTCAR-01

DSMITH3

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/25/2024

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	E-MAIL ADDRESS: cl_support@acrisure.com			
INSURED BioTree Care LLC 4200 Capri Drive Killeen, TX 76549	INSURER(S) AFFORDING COVERAGE			NAIC #
	INSURER A : American Builders Insurance Company Risk Retention Group, Inc.			12631
	INSURER B : Acuity, A Mutual Insurance Company			14184
	INSURER C : Berkshire Hathaway Homestate Insurance Company			20044
	INSURER D :			
	INSURER E :			
INSURER F :				

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

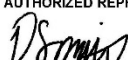
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INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			SBIC-053600-00	4/25/2024	4/25/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			ZV2286	4/25/2024	4/25/2025	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 10,000 BODILY INJURY (Per accident) \$ 500,000 PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	N9WC280745	4/26/2024	4/26/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

Proof of Coverage	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

ACORD 25 (2016/03)

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This sheet must be filled out completely, either in ink or typewritten. A copy of the contractor's TDA Commercial Application License should be provided as a supplement to this bid sheet. Contractor may attach any additional supplemental information they feel is necessary.

Project No. CBBEP 2422

Contractor:

Project Name: Invasive Plant Species Removal on Flour Bluff ISD Property

Contact Information:

Bid Date:

		Contractor Price
	Item Description	BID
1	Invasive Plant Species Removal and Treatment (approx 30 acres)	\$ 39,802.12
	Includes cutting, mulching, and herbicide treatment	
	TOTAL	\$ 39,802.12

Andrea (Andi) Binion
Printed Name

President
Title


Signature

07/25/2024
Date

The winning bidder must certify the minimum insurance coverages (in the amount of \$1,000,000) and provide proof of insurance upon request by the CBBEP.

Texas Historically Underutilized Business (HUB) Certificate



Certificate/VID Number: **1822570774600**
Approval Date: **July 21, 2022**
Scheduled Expiration Date: **July 21, 2026**

The Texas Comptroller of Public Accounts (CPA), hereby certifies that

TRITON ENVIRONMENTAL SOLUTIONS LLC

has successfully met the established requirements of the State of Texas Historically Underutilized Business (HUB) Program to be recognized as a HUB. This certificate printed **July 21, 2022**, supersedes any registration and certificate previously issued by the HUB Program. If there are any changes regarding the information (i.e., business structure, ownership, day to day management, operational control, business location) provided in the submission of the business; application for registration/certification as a HUB, you must immediately (within 30 days of such changes) notify the HUB Program in writing. The CPA reserves the right to conduct a compliance review at any time to confirm HUB eligibility. HUB certification may be suspended or revoked upon findings of ineligibility.

*Statewide HUB Program
Statewide Procurement Division*

Note: In order for State agencies and institutions of higher education (universities) to be credited for utilizing this business as a HUB, they must award payment under the Certificate/VID Number identified above. Agencies, universities and prime contractors are encouraged to verify the company's HUB certification prior to issuing a notice of award by accessing the Internet (<https://mycpa.cpa.state.tx.us/passcmblsearch/index.jsp>) or by contacting the HUB Program at 512-463-5872 or toll-free in Texas at 1-888-863-5881.

SECTION 3 – BID SHEET

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Robert Lane
TDA License No: 0318981

Project No. CBBEP 2422

Contractor:

Project Name: Invasive Plant Species Removal on Flour Bluff ISD Property

Contact Information:

Bid Date:

		Contractor Price
	Item Description	BID
1	Invasive Plant Species Removal and Treatment (approx 30 acres)	\$102,000.00
	Includes cutting, mulching, and herbicide treatment	
	TOTAL	\$102,000.00

Corey Gilliam

Printed Name

CFO

Title



Signature

July 22, 2024

Date

The winning bidder must certify the minimum insurance coverages (in the amount of \$1,000,000) and provide proof of insurance upon request by the CBBEP.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/22/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Edgewood Partners Insurance Center, Inc. 301 Grant Street, Suite 470 Pittsburgh, PA 15219	CONTACT NAME: Bryce Fochtman PHONE (A/C, No, Ext): 412-226-5256 E-MAIL ADDRESS: Bryce.Fochtman@epicbrokers.com FAX (A/C, No): INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: National Union Fire Ins Co Pittsburgh PA 19445 INSURER B: Endurance American Specialty Ins Co 41718 INSURER C: INSURER D: INSURER E: INSURER F:
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COVERAGES

CERTIFICATE NUMBER: 81083913

REVISION NUMBER:

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INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		GL4611651 Pesticide or Herbicide Applicator	7/1/2024	7/1/2025	EACH OCCURRENCE \$5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$5,000,000 GENERAL AGGREGATE \$5,000,000 PRODUCTS - COMP/OP AGG \$5,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY		CA7742285	7/1/2024	7/1/2025	COMBINED SINGLE LIMIT (Ea accident) \$5,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		ELD30021337100	7/1/2024	7/1/2025	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NJ) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N N/A	WC013545871-00 (AOS) WC014590641-06 (AL, IN, LA, MO)	7/1/2024 7/1/2024	7/1/2025 7/1/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Evidence of Coverage

CERTIFICATE HOLDER

CANCELLATION

Coastal Bend Bays & Estuaries Program (CBBEP)
1305 N. Shoreline Blvd, Suite 205
Corpus Christi TX 78401

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Sean Andreas

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81083913 | Master Certificate 24-25 | Bryce Fochtman | 7/22/2024 4:06:06 PM (EDT) | Page 1 of 1

Applicators are required to keep certificates of completion for 12 months following renewal of a license. 4
TAC§7.24(s)

Regulations and statutory provisions governing pesticide applicator licensees and their use of pesticides may be found in Chapter 7, Title 4, of the Texas Administrative Code and Chapter 76 of the Texas Agriculture Code, respectively. TDA's web site provides convenient links to these laws. Failure to comply with these laws, including misuse of any pesticide, may result in revocation, suspension, modification, or probation of your license and/or assessment of monetary administrative penalties.

If you have any questions regarding your license, please contact our Austin headquarters toll free at (877) LIC-AGRI (877-542-2474), or visit our web site at www.TexasAgriculture.gov. For the hearing impaired, you may call Relay Texas (800) 735-2988 (voice) or (800) 735-2989 (TDD) or visit our web site.



TEXAS DEPARTMENT OF AGRICULTURE
P. O. BOX 12847 AUSTIN, TEXAS 78711-2847

COMMERCIAL PESTICIDE APPLICATOR LICENSE

ROBERT LANE

P. O. BOX 2118
ALICE TX 78333

License No: 0318981
Effective Date: 02/29/2024
Expires: 02/28/2025

Front side

Categories: 5,9

Descriptions:

1A Field Crop	3A Landscape Maint
1B Fruit, Nut, & Veg	3B Nursery Plant Prod
1C Pasture & Rangeland	4 Seed Treatment
1D Vertebrate Pest	5 Vegetation Mgmt
1E Farm Commodity Pest Control	6 Aquatic
1F Animal Health	7 Demonstr & Research
1G Citrus	8 Reg Pest Control
1H Livestock Prot Collar	9 Aerial Application
1I M-44 Device	11 Soil Fumigation
2 Forest Pest Control	12 Public Health Pest Control (Vector)

Back side

LAMINATION ADVISED: Please cut out along heavy black lines, placing front and back sides together, and laminate.

TEXAS DEPARTMENT OF AGRICULTURE
COMMISSIONER SID MILLER
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(877) LIC-AGRI (877-542-2474)
For the hearing impaired: (800) 735-2989 TDD (800) 735-2988 VOICE
www.TexasAgriculture.gov

COMMERCIAL PESTICIDE APPLICATOR LICENSE

This is to certify that the person whose name appears below has met the requirements of Texas Agriculture Code Chapter 76, relating to application of restricted-use or state-limited-use pesticides or regulated herbicides. This license is issued for purchase and application of restricted-use or state-limited-use pesticides or regulated herbicides to be used according to label directions consistent with the User categories listed below.

ROBERT LANE
P. O. BOX 2118
ALICE TX 78333

License No: 0318981
Effective Date: February 29, 2024
Expires: February 28, 2025
Categories: 5,9

