



ST. CHARLES
SINCE 1834

AGENDA ITEM EXECUTIVE SUMMARY

| | |
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| Title: | Recommend Approval of the Purchase of Replacement Airboat for the Fire Department |
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| | |
|------------|-------------------------------|
| Presenter: | Fire Chief Joseph Schelstreet |
|------------|-------------------------------|

Please check appropriate box:

| | | | |
|---|----------------------------------|--|---------------------|
| | Government Operations | | Government Services |
| X | Planning & Development (2/10/14) | | City Council |

| | | | | | | |
|-----------------|----------|-----------|-----|---|----|--|
| Estimated Cost: | \$62,000 | Budgeted: | YES | X | NO | |
|-----------------|----------|-----------|-----|---|----|--|

If NO, please explain how item will be funded:

Executive Summary:

The Fire Department currently possesses a multi-function airboat that is utilized both during times when the Fox River has open water as well as when it is ice covered. The airboat has the ability to traverse the ice rapidly and can move from open water to ice freely. It also has the ability to provide a stable platform for dive rescue operations and offers a capacity range not present in the inflatable boat owned by the Department. The current boat is 27 years old and is due for replacement. A specification was developed and placed out to bid and Diamondback Airboats was the successful bidder. In order to facilitate the addition of several desired options, the Foreign Fire Insurance Fund has allocated up to \$15,000 additional for the purchase. This is a budgeted expense.

Attachments: *(please list)*

Airboat Bid Documents

Recommendation / Suggested Action *(briefly explain):* Recommend Approval of the Purchase of a Replacement Airboat for the Fire Department

For office use only:

Agenda Item Number: 4a

| Hull | Diamond Back Air Boat | American Air Boat | Alumatech Air Boat |
|-----------------------------|---|--|-------------------------------------|
| Length | 18' w/ 30" grassrake | 18' w/ 24" grassrake | 18' short Grass rack |
| Beam | 8' | 8' | 8' |
| Weight | 3400# | 3600# | |
| Sides | 30" | 30" | 30" |
| Transom | 28" | 26" | ? |
| Hull Ca | | | |
| Aluminum Alloy | 5086 | 5086 | 5086 |
| Bottom Thickness | 0.25 | 0.25 | 0.19 |
| Side Thickness | 0.125 V-crimp | 0.125 V-crimp | 0.125 |
| T-Bars | 9 = 2"x2" x 1/4 .190 gussets at Transom | 5 Heavy Duty 2"x2"x 3/8 and 2 Ext Duty 2x3x1/2 | 4 short 7 full |
| Ice Brakes | Yes | No | No |
| Bottom Polymer | 3/8 UHMW black | 3/8 UHMW black | 3/8 UHMW black |
| Side Polymer | 1/4 UHMWBlack | 3/8 UHMW black | 1/4 UHMW black |
| Gunnel Walls | 6"to 8" | none | 8" |
| Drain Plugs | 2-1" | 2-1" | 1 |
| Floor | Aluminum w/Rhino non-skid surface | Aluminum w/Epox non-skid surface | Alum Floor |
| I-Beam | 3 - 3" I-beam Alum cross braces | 2 Heavy duty Alum 2-1/2 x 3" | 1 I-beam Alum cross brace |
| Motor | | | |
| Motor | PCM 6.0 450 HP EFI | PCM 6.0 450 HP EFI | 500 HP Water Thunder |
| Exhaust | Stainless Steel w/ stainless steal mufflers | Stainless Steel w/ steal mufflers | |
| Engine Block heater | Yes | Yes | Stainless Steel w/ steal mufflers |
| Propeller | 82" 3 blade Carbon Fiber wide Blade | Ultra Quiet 3 Blade Composite | 84" 3 blade Carbon Fiber wide Blade |
| Drive Unit | Century CH 2.3:1 Black Hawk Belt | Century CH 2.3:1 | Century CH 2.3:1 |
| Oil Cooler | Hayden heavy duty oil cooler | Hayden heavy duty oil cooler | YES |
| Fuel Filter water separator | Yes | yes | YES |
| Fuel | Min 91 Octane NO/ethanol | Min 91 Octane NO/ethanol | Min 91 Octane NO/ethanol |
| Radiator | Heavy Duty 31x24 Alum | Afco Heavy Duty Alum | Heavy Duty Alum |
| Fuel Tank | 40 gal Alum | 40 gal Alum | 40 gal Alum |
| Engine Stand | | | |
| Frame | 1-1/4" x 1-1/4" .065 Wall Stainless Steal | 18 Gage Stainless Steal | SS |
| Seating | | | |
| Seats | 2 up 3 down w/ storage | 1up 3 down w/ storage | 2 up 3 down |

| Prop Guard | | | |
|-------------------|----------------|----|----|
| Tubing | SS 1" and 7/8" | SS | SS |
| Access Doors | yes both sides | No | |

| Accessories | | | |
|--------------------|--|--|-----------------------------------|
| Gages | Tach, hour, oil, volt, temp, fuel | Tach, hour, oil, volt, temp, fuel | Tach, hour, oil, volt, temp, fuel |
| Pumps | 1700 GPH | 2000 GPH | |
| Dual Batteries | Yes | | YES |
| Lighting | LED all storage - LED Light Bar - Nav Lights | LED all storage - LED Light Bar - Nav Lights - Scene | |
| GPS | NO | YES | YES |
| Nav Lights | In Grassrake and Tower | | In Grassrake and Tower |

| Paint | | | |
|--------------|----------------------|------|-------------|
| Hull | 2 tone stripe w/name | No | NO |
| Frame | Powder Coat | Epox | Powder Coat |

| Trailer | | | |
|----------------|------------------|------|-----------------|
| | Galvanized | Alum | Galvanized |
| Brakes | Electric 2 axles | None | Electric 1 axle |

| Warranty | | | |
|-----------------|-----------|-----------|--|
| Hull | Life Time | Life Time | |
| Motor | 1 Year | 1 Year | |
| Belt Drive | 1 Year | 1 Year | |
| Prop | 1 Year | 1 Year | |
| Trailer | | | |
| Poly | | 2 Years | |
| SS work | | 5 Years | |

| | | | |
|----------------|-------------------------------|-------------------------------|------|
| Classes | Free 2 day 2 people Free Room | Free 2 day 2 people Free Room | none |
|----------------|-------------------------------|-------------------------------|------|

| | | | |
|----------------|---|--|--|
| Options | Ice Brake 1,800.00 (included in price) | | |
| | Windshield 2,150.00 (not included in price) | | Windshield 1,395 (not included in price) |

| | | | |
|---------------------------|-----------|------------------------------|-----------|
| Total w/o Delivery | 59,862.00 | 57,850.00 w/o Trailer Brakes | 57,214.00 |
|---------------------------|-----------|------------------------------|-----------|

**St.Charles Fire Dept. Foreign Fire Insurance Company Tax Fund
Request for Fund Distribution**

Date: 1-24-2014

Purpose: Funds not to exceed 15,000.00 to be used in addition to city's 50,000.00 towards the purchase of a new airboat.

Description of Fund Distribution: (Be specific to the price and quantity req'd)

Diamondback 18" Airboat, motor, and trailer. See attached documentation for description.

Reference of Alternative Vendors:
American Airboats
Alumatech

Submitted by: Fire fighter / Medic Dave Chmelar

This portion to be completed by the Foreign Fire Insurance Tax Board

Date received

Date Reviewed

Approved

Denied

Tabled