



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA
 Department of General Services - Office of Procurement
PURCHASE ORDER

Purchase Order No.	Rev.	Date
62088		6/30/2007

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
655971	56510	90 Days ARO	Destination	

DIAMONDBACK AIRBOATS 1060 COX ROAD COCOA, FL 32926 Phone: 800-424-5624	S DEPT BOATING & WATERWAYS h 8095 RIO BLANCO ROAD T SHED 16 i STOCKTON, CA 95219 o p	C BOATING & WATERWAYS G-04 h 2000 EVERGREEN ST STE 100 a SACRAMENTO, CA 95815-3888 T r o g e		
	Agency Billing	Agency Purchase Estimate	Purchase Estimate	Revision
	32017	PE06-003	66815	1
	Agency Contact	Phone	Date Received	
CARRIE HOLLER	916-263-6676			

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT: www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf						
THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY: PRIME CONTRACTOR: NS FISCAL YEAR: 2006/2007						
1	2	EA	1940-000-0004-9	BOAT TRAILER COMBINATION (AS DESCRIBED)	47,821.0000	95,642.00
18' Airboat and Trailer; as described - meeting the requirements of attached Specification 1940-07BS-004, of (6) six pages, dated July 19, 2007. <u>Brand: Diamondback</u>						
Total Value:						95,642.00
This Purchase Order hereby replaces PO# 61838 dated 9-20-2007 THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER. SPECIFICATIONS #1940-07BS-004, OF SIX (6) PAGES, DATED JULY 19, 2007 For the purpose of this order only F.O.B. Destination will be accepted. <u>DELIVERY:</u> The airboat and trailer shall be fully functional when delivered to: Dept of Boat and Waterways, Water Hyacinth Program 8095 Rio Blanco Road Stockton California, 95219 Contact agency representative: Carrie Holler (916) 263-6676 72 hours prior to the delivery. Failure to do so will result in rejection of delivery. <u>INSPECTION:</u> The airboat and trailer shall be inspected by a Department of General Services Inspector of Automotive Equipment at the location during the the time of delivery. It will be the responsibility of the supplier to ask for inspection when the airboat and trailer are ready for delivery. The burden of proof of						

Sales and/or use tax to be extra unless noted above

Buyer	Phone	BOC Number
BRIAN SIMS	916-375-4452	



1 SCOPE

This document establishes the requirements and specifications for a 18-Foot Airboat and Trailer for Department of Boating and Waterways Aquatic Weed Control Program. The airboat shall be capable of operating in shallow water wetlands.

2 APPLICABLE SPECIFICATIONS / STANDARDS / CODES

2.1 Specifications and standards referenced in this document in effect on the opening of the invitation for bid, form a part of this specification.

2.2 Comply with United States Coast Guard (USCG) Boatbuilder's Handbook.

3 REQUIREMENTS

3.1 Airboat

3.1.1 Hull:

- Shall be current production commercial hull design, all welded aluminum construction, and all stainless steel hardware except in engine stand where extra strength is needed.
- Shall be "18 FT long x 8 FT wide", 28" minimum height mid-ship and at the transom.
- Bottom shall be one piece with no splicing
- Shall be minimum .190" thick 5086 marine grade aluminum alloy for bottom and transom.
- Shall be minimum .125" thick 5052 marine grade aluminum alloy for the sides.
- Shall be equipped with minimum 36" long non-skid surface deck in the bow area. The bow deck shall be able to support minimum of 300 pounds (sprayer and equipment).
- Shall have an access under bow bulkhead and a lockable door mounted over access opening.
- Bottom shall be reinforced with minimum of seven (7) 2"x2"x1/4" aluminum t-bars 6061 T-6 gusseted stringers on 7" centers extended from bow to transom.
- Shall have minimum of two (2) 2"x2"x1/4" aluminum cross braces.
- Shall be equipped with a gusseted (minimum four gussets) transom lip (splash guard) extending back to a minimum of 10".
- Shall have two (2) drain plugs minimum.
- Bottom shall include a minimum 1/4" thick black Ultra High Molecular Weight (UHMW) polymer sheet, mechanically fastened from within 8" of bow to stern and out to at least 8" of the sides.
- Shall be equipped with non-skid aluminum flooring on the bottom of the boat.
- Shall be equipped with a stainless steel bow eye, placed not to contact the trailer stop bar.

- Shall be equipped with cleanable water intake boxes on both sides in the rear bottom of boat to accommodate spray equipment (see section 3.1.16 below).
 - Shall be equipped with two (2) safety 2-in tie-down eyes (one on each side) on the transom with reinforcement plates.
 - Shall be equipped with an electrical trim tab located at center rear of boat.
- 3.1.2 Bilge Pump:**
- Shall be minimum 1700 gallon per hour.
 - Shall be equipped with a 1-1/8" discharge hose with through hull fitting.
- 3.1.3 Engine:**
- Shall be minimum 425 HP EFI marine engine (ref: GM 496 CID Levitator 8100 or comparable) rated to operate with 87-octane gasoline designated for use in California.
 - Shall be equipped with a Coast Guard (CG) approved electric fuel pump and a spin-on large fuel filter/water separator.
 - Shall be equipped with a heavy-duty starter.
 - Shall be equipped with an electronic marine distributor.
 - Shall be equipped with an engine power interrupter to electric fuel pump, which shall automatically cut-off fuel when engine temperature reaches 230° F.
- 3.1.4 Engine Stand:**
- Shall be capable of supporting the engine and accessory items, constructed with minimum 1-1/4" x 1-1/4" and 1" x 1" 16-gauge stainless steel tubing.
 - Shall be equipped with four (4) mounting points for automotive – "Moog Mounts" in the Rear and "Prothane Mounts" in the Front.
 - Shall be equipped with a dual battery rack.
 - Shall be equipped with a stainless steel radiator guard.
 - Mounts are to be shock absorbing type.
- 3.1.5 Engine Reduction Unit:**
- Shall be counter rotating drive unit (ref: Century Drive Unit CH 3 2.3-to-1 or comparable) to match engine and hull size (minimum two propellers).
- 3.1.6 Propeller:**
- Shall be a "82in 3-blade extra wide" and a "80in 3-blade narrow" fiber carbon propellers (ref: Sensenich or comparable) matched to engine horsepower and drive system.
 - Shall have an aluminum cast faceplate with six (6) grade 8 bolts.
 - Shall be stamped with bolt torque on the mounting yoke.
 - Propeller retaining bolts shall be secured with aviation safety retaining wire.

3.1.7 Exhaust System:

- Shall be equipped with stainless steel headers with exhaust dumps through the transom.
- Shall be equipped with minimum of two stainless steel mufflers (ref: MagnaFlow or comparable).

3.1.8 Water Cooling System:

- Shall be heavy-duty, large capacity, aluminum radiator mounted a minimum of 24" from the flooring.
- Shall be equipped with CG approved hoses.
- Shall be equipped with rust resistant fittings.
- Radiator shall be attached on shock absorbing mounts.
- Shall be equipped with an aluminum expansion tank and a plastic coolant recovery/overflow tank.

3.1.9 Electrical System:

- Shall be equipped with two (2) 12-Volts "deep cycle start" batteries for dual battery system with necessary electrical components and switches for both dual and/or single battery operation.
- Battery cables shall be #2 awg minimum.
- Shall be equipped with a 70-amp alternator minimum.
- All wires shall be encased in convoluted high abrasive tubing.
- All high current wires shall be #10 awg minimum.
- Shall be equipped with CG approved running lights installed on overhead guard and navigation lights.
- Shall include two plastic battery boxes with tie down straps.
- All circuits shall be individually fuse-protected.
- Shall be equipped with work lights (ref: KC or comparable) mounted on the overhead guard with shock resistant mounts. The work lights shall be wired with fused switch into the instrument panel.
- Shall be equipped with an electric power trim and wired with fused switch into the instrument panel.

3.1.10 Steering:

- Shall be 3/8" cable type steering with stainless steel inner-cable.
- Handle grip shall be located at the driver's left hand side.
- Shall be equipped with a stainless steel "argutto" steering bearing to be 1-3/16" I.D.
- Shall be equipped with stainless steel lock rings.

3.1.11 Throttle:

- Shall be cable type with stainless steel inner cable.
- Pedal assembly shall be located at the driver's right foot side.

3.1.12 Rudders:

- Shall be two (2) 5-Foot, welded aluminum, foam filled, air-foiled cross sections installed with stainless steel rods, four (4) polymer bushings, and six (6) stainless steel heims joints.
- Pivot point for steering control shall be bearing protected.
- Rudder control cable shall be connected to the "TOP" of the rudder, not at the bottom.
- Each rudder shall have a trim tab.

3.1.13 Fuel Tank:

- Shall be a CG approved 50-Gallon minimum fuel tank shock mounted to the hull under rear decking.
- Tank shall have baffles inside.
- Shall be equipped with CG approved Fuel lines.
- Filler neck shall be accessible from ground level, and be able to receive fuel from 5-gallon container with no obstruction around the fuel tank.

3.1.14 Overhead Guard (Safety Cage):

- Shall be 7/8" and 1" polished stainless steel tubing, covered with 2" x 4" 12-gauge stainless steel welded wire mesh.
- Shall have two (2) hinged full size access doors with hydraulic shocks (one port and one starboard) to allow safe unrestricted access to the engine area for routine maintenance and repairs.
- Shall completely protect propeller area.
- Shall have 3" minimum clearance from the propeller.

3.1.15 Seating:

- Operator seat shall be a single seat constructed of 3/4" 16-gauge stainless steel square tubing.
- Cage underneath operator seat shall be squared at 90° to accommodate a rectangular toolbox.
- The sprayer seat shall be mounted on a fixed and adjustable pedestal (ref: Garelick model # 75035 or comparable) 24" minimum from the forward edge of the bow.
- The sprayer seat shall be molded type (ref: Garelick model# 48055 or comparable).
- Seats color shall be either white or tan.

3.1.16 Water Intake Boxes:

- Shall be equipped with two (2) water intake boxes in the stern for through-hull water intake.
- Shall be located at left and right from 1' of center (not to be located at the far left and right sides of boat), on the lowest level of the boat bottom, and high enough above the average outside water level to prevent water inflow under operating conditions.
- The box top shall be covered with a minimum 4" diameter hand-hole for clean out, with a fitted cover.
- The box bottom shall be at least 9" x 9" with a minimum of 600 "1/5in-1/4in" diameter holes.
- Shall be fitted with a welded 1 1/2" IPS taper female fitting or an aluminum hose barb fitting to accept 1 1/2" hose, facing toward bow of vessel.

3.1.17 Instruments and accessories:

- Instruments shall be panel-mounted on the right side of the operator's seat with vinyl instrument panel cover.
- Instruments and accessories shall be marine type, including but not be limited to the following:
 - A keyed ignition.
 - Light switches with boots.
 - Two toggle switches with minimum 6" long wire each mounted to the instrument panel for future use.
 - An Ammeter.
 - A fuel gauge.
 - A tachometer.
 - An electric engine oil pressure gauge.
 - A counter rotator oil pressure gauge or sight gauge.
 - An engine temperature gauge.
 - A hour meter.
 - Minimum two (2) cigarette type accessory outlets.
 - A lanyard emergency ignition kill switch.

3.2 Trailer

- 3.2.1** Shall be galvanized steel capable of carrying a "18FT x 8FT" airboat per section 3.1 above and including but not be limited to the following:
 - Frame shall be constructed with minimum 4" steel channel and 3" steel channel cross bars or comparable.

- The trailer shall be equipped with a minimum of 8 feet long support bunks to support a heavy-duty flat bottom hull. Support bunks shall have adjustable side supports to fit snugly to boat hull. Bunks shall be covered with carpet or UHMW polymer.
- Shall be equipped with a minimum of 2' wide (adjustable height from frame - 10" to 20") front cushioned buffer or "stop bar" across the front to prevent the boat from slamming the winch and winch mount.
- Shall be equipped with tandem axles each rated at 3500-lb minimum.
- Total axle width shall not exceed 102".
- Shall be equipped with two (2) safety chains, 1/2" diameter with hooks.
- Shall be equipped with a retractable tongue jack with wheel and a 2" ball coupler.
- Shall be equipped with "Easy load" ramp.
- Shall be equipped with electrically activated backing hydraulic surge brakes (ref: Dico or comparable).
- Shall be equipped with a bow stop and a 2-speed winch with nylon strap.
- Shall be equipped with Interstate Commerce Commission (ICC) running lights.
- Wheels shall be protected by heavy-duty reinforced fenders capable of being used as a step to climb into the airboat.
- Shall be equipped with a spare tire assembly stowed underneath the bow with a locking device.
- Shall be equipped with transom tie down straps.
- Shall be equipped with 3/16" thick aluminum steps in front and back of each fender protecting the taillights and side markers.
- Shall include an identification tag securely attached to the trailer, but not be limited to the following information:
 - Identification number.
 - Actual trailer carrying capacity in U.S. pounds.
 - Gross Vehicle Weight Rating (GVWR) in U.S. pounds.
 - Name of Manufacturer.
- The total height when the airboat is on the trailer shall not exceed 9' 10".