



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
AGR1221

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

Helicopter Applicators, Inc.
 1670 York Road
 Gettysburg, PA 17325

DEPARTMENT OF AGRICULTURE
 ADMINISTRATIVE SERVICES
 BUILDING 2, ROOM 106
 4720 BRENDA LANE
 CHARLESTON, WV
 25312 304-558-2221

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/24/2012				

BID OPENING DATE: 03/15/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		988-72	\$120.45/gallon	\$1,144,275.00
<p>AERIAL APPLICATION OF BTI FOR BLACK FLY CONTROL</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY THE WEST VIRGINIA DEPARTMENT OF AGRICULTURE, IS SOLICITING BIDS FOR AN OPEN-END CONTRACT TO PROVIDE AERIAL APPLICATION OF BTI (BACILLUS THURINGIENSIS ISRAELENSENSIS) FOR THE PURPOSE OF BLACK FLY CONTROL PER THE ATTACHED SPECIFICATIONS.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/05/2012 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT BY THE STATE OF WEST VIRGINIA, ITS AGENCIES, OR POLITICAL SUBDIVISIONS, THE</p>						

RECEIVED
 2012 MAR 14 A 10:22
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Frank Whittaker</i>	TELEPHONE 717-337-1370	DATE 03/09/12
TITLE Sec./Treasurer	FEIN 52-1005852	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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<p>TERMS, CONDITIONS, AND PRICING SET FORTH HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>W. A. Mc...</i>	717-337-1370	03/09/12

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Sec./Treasurer	5201005852	

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CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM. REV. 01/17/2012 NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: 44 RFQ. NO.: AGR1221 BID OPENING DATE: 03/15/2012						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>no mt</i>	717-337-1370	03/09/12

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Sec./Treasurer	52-1005852	

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:				717-337-1527		
CONTACT PERSON (PLEASE PRINT CLEARLY):				Kirk A. Martin		
***** THIS IS THE END OF RFQ AGR1221 ***** TOTAL:						\$1,144,275.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	<i>[Signature]</i>	TELEPHONE	717-337-1370	DATE	03/09/12
TITLE	Sec./Treasurer	FEIN	52-1005852	ADDRESS CHANGES TO BE NOTED ABOVE	

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5

AGR1221
Black Fly Control

The West Virginia Purchasing Division, for the agency the West Virginia Department of Agriculture, is requesting bids for the aerial application of *Bti* (*Bacillus thuringiensis israelensis*) to streams identified in need of treatment in southern West Virginia for the purpose of black fly control. Future waterways determined to be in need of treatment will be added as identified. The vendor must provide the *Bti*, through direct purchase from the manufacturer, and all associated aspects of application, **including scouting trip(s) to determine hazards prior to the treatment season and to determine if aerial application is feasible for new areas.** The West Virginia Department of Agriculture, Black Fly Control Program Coordinator will provide sites (Section 3.2), dates of application, and amounts of material to be applied. All other aspects of this program are to be included in the contract.

1.5 ESTIMATED TIME SCHEDULE -Vendor must be equipped and ready to initiate *Bti* application within 10 days of notice of award. The treatment period is expected to begin in March or April and to continue through mid-October. Each treatment station is expected to receive approximately 20 applications during the course of the spray season. The exact dates of application cannot be provided in advance as they are extremely dependent upon water temperature, larval abundance, and stream discharge values. A five (5) day notice will be given to contractors prior to the initial application and forty-eight (48) hours notice will be given prior to each following application. It is anticipated that there will be between 7 and 14 days between most applications. It may not be possible to treat all streams on the same day since treatment timing is a function of larval development and is affected by weather. When possible, however, the Program Coordinator or designee will try to schedule all applications the same day. Aircraft are free to be used for other contractor commitments between applications. Table 1-1 shows a summary of the 2011 application program. Payments are based on the gallons of concentrate sprayed (*Bti* only; no provisions for dilution water are included).

The streams currently identified for treatment include the New River both above and below the Bluestone Dam, the Greenbrier River from Clover Lick to Hinton, and the lower twelve (12) miles of the Bluestone River.

1.2 AREA TO BE TREATED -*Bti* application will occur on West Virginia rivers identified as in need of treatment. Map 6-1 (Section 6) shows the state map with interstate highways marked. Map 6-2 (Section 6) shows the general river areas to be treated in Mercer, Summers, Greenbrier, and Pocahontas Counties. The State has received permission from the National Park Service to treat within the boundaries of the National Park system. Permission was not necessary from the USDA Forest Service regarding the Monongahela National Forest because the State owns the rivers, and no landing zones were designated on National Forest lands.

Exact treatment sites are marked on 7.5-minute topographic maps, which are available for review in the office of the West Virginia Department of Agriculture, Guthrie Complex, located at 275 Gus R. Douglass Lane, Building 6, Charleston, West Virginia, 25312. Individuals interested in inspecting the maps during regular work hours should contact the Black Fly Control Program Coordinator, at (304) 541-5471.

There are currently 18 application sites on the New River, 110 on the Greenbrier River and 13 on the Bluestone River, for a total of 141 sites. These sites include those locations within National Park and Monongahela National Forest boundaries. The topographic maps have the locations marked. The exact location and number of application sites may be shifted, added, or deleted based on the stream discharge rate and/or larval concentrations. These determinations will be made by Department personnel.

With the potential implementation of the National Pollution Discharge Elimination System (NPDES) in the near future, we are not sure how NPDES will impact the black fly suppression program. Please note that WVDA has little control over this process and can make no guarantees that the program will be able to treat the above number of sites during the 2012 season.

1.3 BIDDERS QUALIFICATIONS -Bids submitted by Fixed-Based Operators (FBO), or firms that are currently certified as commercial aircraft operators, with office, maintenance facilities, owned or leased aircraft, employees, qualified pilots and mechanics, and that have tools, equipment, and spare parts for the make and type of aircraft specified in this proposal will be considered. Applicators must have, or receive prior to application date, a Licensed Pesticide Application Business License from the West Virginia Department of Agriculture, pursuant to the provisions of the West Virginia Pesticide Use and Application Act. Applicators must qualify under all Federal Aviation Regulations, currently be certified for agricultural aircraft operations, and have at least two experienced pilots with a minimum of three (3) seasons black-fly-suppression within the last 10 years available throughout the suppression season.

1.4 SCOPE OF AGREEMENT -It is the purpose and intent of this contract to provide specifications for the following: aircraft, *Bti*, application equipment, and other operational requirements necessary for a successful program, for securing properly certified and approved aircraft, dispersal systems, service facilities, qualified ground personnel, and FAA certified and qualified pilots familiar with proper aerial application of *Bti* to specified sites on the streams to be treated.

TABLE 1.1: Black Fly Control Program Summary: 2011

Gallons of *Bti* Applied

Spray Date	Upper New	Lower New	Bluestone	Greenbrier	Total (gal.)
3/28/11	97	140	18	410	665
4/14/11	123	193	20	893	1229
5/5/11	87	154	26	403	670
5/18/11	95	145	18	598	856
5/26/11	111	162	20	391	684
6/6/11	152	136	9.1	247	544.1
6/14/11	152	194	10.4	132.8	489.2
6/23/11	131	170	5.2	270.8	577
6/30/11	104	160	7.8	129.7	401.5
7/7/11	138	187	6.5	95.9	427.4
7/14/11*	83	115	4.6	69.8	272.4
7/15/11				16.2	288.6
7/21/11	88	108	2.6	52.6	251.2
7/28/11	110	115	5.2	52.9	283.1
8/4/11	80	99	2.6	33.4	215
8/16/11	54	79	2.6	61.6	197.2
8/23/11	80	88	2.6	40.4	211
8/31/11	56	63	1.6	30.5	151.1
9/12/11	137	140	5.2	159.7	441.9
9/27/11	216	178	2.7	76.7	473.4
10/11/11	54	124	2	16	196
TOTALS:	2148	2750	172.7	4181	9,251.70

NOTE: "Upper New" refers to the New River between the Virginia/West Virginia border and Bluestone Lake; "Lower New" refers to the New River between Bluestone Lake and I-64; "Bluestone" refers to the lower 12 miles of the Bluestone River; "Greenbrier" refers to the Greenbrier River from Cover Lick to the confluence with the New River at Hinton.

SECTION 2. REQUIREMENTS OF THE CONTRACTOR

2.1 GENERAL -The contractor is obligated to furnish aircraft operated and maintained on the ground and in the air with personnel and all needed support equipment to produce each application in accordance with the contract agreement. Repairs and

maintenance of aircraft are contractor responsibility. Other sections in these contract specifications will give more specific information on equipment required.

2.2 SPRAY MATERIAL

(A) Bacillus thuringiensis israelensis (Bti) -The spray material (*Bti*) will be purchased *directly* and provided by the contractor. *Bti* formulations must meet a viscosity of 700 or less as measured by a Brookfield Viscometer at 25 °C, 30 RPM using a Number 3 spindle. It will be the applicator's responsibility to insure trouble-free operation with the material purchased. Any product presenting operational problems must be immediately replaced. Unless problems are encountered, all *Bti* must be of the same formulation.

Bti may be supplied in drums or bulk tanks. The material must be properly stored to ensure its effectiveness. All *Bti* products used in this program must be new material manufactured after October 1 of the year preceding the current spray season (i.e., for the 2012 spray season, all *Bti* must be manufactured after Oct. 1, 2011).

Documentation of this fact must be provided by the contractor. The contractor assumes full responsibility for the handling, storage, security, and transportation of the product and for legal disposal of empty containers. **The contractor is responsible for ensuring that adequate material is on hand for each application.** The *Bti* will be applied undiluted where possible. During low-water periods it may become necessary to dilute the *Bti* with water if properly dispensing small quantities becomes a problem. In such situations, the contractor will supply and transport the water used for mixing. The contractor must have a water source approved by the Department before it may be used. When material is diluted with water, payment will be based on gallons of concentrate (*Bti*) applied.

(B) The only acceptable *Bti* formulation is:

Vectobac-12AS, EPA Registration 275-66

Bti vendor:

VectoBac

Jim Andrews (jim.andrews@valent.com)

Valent Biosciences (www.valentbiosciences.com)

Telephone: (910) 547-8070

Fax (847) 778-8673

2.3 APPLICATION TECHNIQUES -The *Bti* will be sprayed directly into the water from an altitude of 10 to 15 feet above the surface of the water, where possible. It is recognized that on the smaller streams with an extensive canopy this may not always be possible. The objective is to spray back and forth across the stream, applying equal swaths to produce a wide band of *Bti* drifting through that portion of the stream. It may be necessary to divide the stream into sections if the helicopter cannot carry enough insecticide to make the proper application across the full width. On the smaller streams the applications will have to be made by flying one or two diagonal passes along the stream or even by making a few short sprays passes parallel to the stream's direction of flow.

The Program Coordinator or designee will specify the volume of material to be applied at each site for each application. The correct volume of *Bti* is dependent upon the flow rate of the stream on the date of application. Excessive flow rate at any site may cause postponement of the application until the water has receded to a lower level, or cancellation of application.

All spraying will be done during daylight hours. Spraying will begin no earlier than 30 minutes after sunrise and end no later than 30 minutes prior to sunset. Acceptable spray conditions (weather) are limited mainly by factors that would affect safe flying or cause deposition of material off target areas.

2.4 ESTIMATED INSECTICIDE VOLUMES -Prior to 2009, volumes were calculated using 50th percentile flows (half the time the flow is greater and half the time the flow is less) for the rivers to be treated. However, due to a strong flow gradient through Pocahontas and Greenbrier Counties, average Greenbrier River flow was determined by using 80 percent of the flow at the Alderson gage as an estimate of flow between Anthony and Caldwell, WV. Below Alderson, the flow is typically greater; above Alderson, the flow may be as much as 70 percent lower at the Buckeye gage, and presumably lower than that above Buckeye.

Flows were checked only on the days when sprays were conducted. Historical flow data may be obtained from the USGS at <http://waterdata.usgs.gov/wv/nwis/rt>.

The actual volumes of *Bti* applied during the past eleven years of the Black Fly Program are shown on Table 2-1 and Table 2-2. Table 2-2 shows monthly application rates for 2011.

Table 2-1: Annual spray totals, WVDA Black Fly Control Program.

Year	Annual <i>Bti</i> Totals (gal.)
2001	5,107.4
2002	5,480.7
2003	6,313.7
2004	4,485
2005	7,170.4
2006	9,130.25
2007	7,882.5
2008	7,491.7
2009*	10,337.1
2010*	8,665.3
2011*	9,251.7

*Included expanded area on the Greenbrier River.

Table 2-2: Monthly spray summary, 2011 WVDA Black Fly Control Program.

Month	Total Gallons <i>Bti</i>	Number of Applications
March	665	1
April	1229	1
May	2210	3
June	2011.8	4
July	1250.3	4
August	774.3	4
September	915.3	2
October	196	1
Totals:	9251.7	20

2.5 PERSONNEL

(A) APPLICATOR'S PROJECT SUPERVISOR - The applicator shall designate one person to act as the *on-site* Applicator's Project Supervisor (APS) and supply WVDA with APS name and contact information. This person shall be familiar with the equipment being used, and with authority to act on all matters pertaining to the applicator's performance on the project. The Applicator's Project Supervisor should also be a West Virginia Certified Pesticide Applicator. If the APS is not the Certified Applicator, then the contractor must have a certified applicator present in direct supervision of the application of pesticides in accordance with the West Virginia Pesticide Use and Application Act.

(B) PILOTS -The Contractor shall provide pilots that are FAA qualified to operate the aircraft specified in the bid. Every spray pilot must have three (3) seasons of *Bti* application experience specifically for the control of black flies within the past 10 years. Any pilot-in-training must accompany an experienced pilot on six full spray days as an observer prior to doing actual spraying, then may make *Bti* applications only with an experienced pilot on board until the listed minimum qualifications are met.

All spray pilots must meet or exceed all the following minimum requirements:

Total All Aircraft	500 Hours	
Type of Aircraft to be Used in Contract		150 Hours
Night	10 Hours	
Typical Terrain	50 Hours	
In Weight Class to be Flown (light, medium, etc.)	100 Hours	
Make and Model, Preceding 60 Days		10 Hours

Thirty (30) landings and take-offs at typical altitude and terrain with loads similar to an average spray load.

C) GROUND SUPPORT -The contractor must supply adequately trained and qualified personnel in sufficient quantity to drive all necessary support vehicles, operate the equipment used to transfer and mix insecticides, and properly service each aircraft and associated pumps and spray apparatus. All personnel provided by the contractor must be able to communicate effectively in English. It is more important for these people to be familiar with the equipment than the territory. Hiring personnel with no prior experience with handling and mixing insecticides is not permitted.

All aircraft under contract must be capable of working independently of any other aircraft, thus requiring ground support personnel for the aircraft. All ground support personnel should be equipped and trained to take proper action in an emergency. These people should observe standard safety precautions in handling the insecticide solution and refueling the aircraft. The contractor is required to replace any ground support person who does not demonstrate the knowledge and capability of performing their duties.

The aircraft shall be equipped with a bullhorn or other public announcement system. This system will be used as necessary to warn people in or beside the river that the aircraft will be applying a pesticide.

2.6 EQUIPMENT

(A) SPECIALIZED HELICOPTER REQUIREMENTS -One category B ship is required during the high flow periods of high stream flow. During low flow periods other ships may be used, but must be approved by the Department. The following table defines the helicopter categories that may be used for the program.

Minimum Average Spray Category	Horsepower	Loads (Gals.)	Examples
A	260	70	Bell 47C Hiller 12E
B	400	120	Bell 206B Bell/Soloy 47G-3B Hiller/Soloy 12E Hughes 500C

Every aircraft furnished for this contract shall be properly licensed under regulations of the Federal Aviation Administration. All aircraft must be powered by turbine engines. Aircraft shall be clean inside and outside and shall fully comply with FAA directives and specifications and to any pertinent laws and regulations of the State of West Virginia. Helicopters with less than 260 horsepower are unacceptable.

Each aircraft engine shall be in first-class operating condition. Engine and airframe logs must be submitted at time of inspection. Each aircraft engine and airframe shall meet the following requirements:

- 1) Each engine must have operated a minimum of 50 flight hours,
- 2) Fifteen (15) of these flight hours must have occurred in the two (2) months prior to the initiation of the spray project,
- 3) No aircraft will be accepted for this project with engine or component time within 100 flight hours of the maximum time before overhaul (TBO) recommended by the manufacturer.

All aircraft used in the project will have space for one (1) passenger in addition to the pilot in the event reconnaissance flights are needed.

In the event that any spray aircraft used in this contract becomes incapacitated and cannot return safely to full operation during any one application day, the contractor must provide a replacement craft of similar capabilities.

Safety regulations prescribed by the FAA, the State of West Virginia, the contractor and the Department will be observed at all times. The pilot will ensure proper loading of the aircraft such that the tanker weight does not exceed the maximum gross weight specified by the manufacturer. A minimum of twenty (20) minutes reserve fuel supply in addition to the amount needed for the round trip is required. Windshields or bubble shall be kept clean.

(B) AIRCRAFT SPRAY SYSTEM

TANKS -Leakproof corrosion-resistant tanks with exterior filler openings are to be used. The location and size of tanks shall not impair air-worthiness by overloading or displacing the center of gravity beyond acceptable limits. Filler openings or necks should be large enough to prevent surging during filling. Tanks must be vented to the outside of the fuselage.

EMERGENCY DUMP SYSTEM -Each aircraft must be equipped with an emergency jettisonable load dumping system or emergency non-leaking dump valves of adequate capacity and adequately vented to dump the load and so installed to prevent blowback into the fuselage. In no case shall the ratio between load in gallons carried to the area of dump valves in square inches be greater than 7.65 to 1. Exposed valve control linkage must be protected to prevent unintentional opening of the valve in any manner. The control lever must be substantially mounted in the cockpit within easy reach of the pilot when he/she is wearing a shoulder harness properly.

PUMPING SYSTEM -The pumping system must be securely attached and capable of maintaining the pressure required to insure the even distribution of the insecticide. All plumbing and pumps should be large enough to handle a minimum flow rate of 40 gallons/minute. All parts should be chemically resistant to the spray materials being used.

PRESSURE GAUGE -An accurate spray pressure gauge should be located so that it can be easily read by the pilot.

SHUTOFF -To avoid contamination of areas not scheduled for treatment, the entire spray system must be leakproof and have a positive shutoff mechanism capable of eliminating dripping from the boom ports.

CLEAN SYSTEM -All aircraft spray systems and tanks must be cleaned of all foreign material and flushed with water prior to the start of this spray operation. During the spray program it may be necessary to flush the spray system with water daily or when the operation is delayed because of bad weather, etc.

STRAINER -An in-line strainer is not required, but if the contractor elects to use one it must be no finer than 50-mesh.

SPRAY BOOM -Each aircraft shall be equipped with an approved standard wet boom system of the type commonly used for aerial application of liquids. The inside of the boom should be clean. The length of the boom between the last nozzle on each end must not extend beyond the tip of the main rotor.

NOZZLES/BOOM PORTS -Nozzles are not required, the application will be made with open ports. The ports should be positioned to angle downward to reduce shearing during application. Each aircraft must be equipped with enough shut-offs, blanks, or plugs to reduce the number of operating ports down to one. The required application rate per minute may range from 40 gallons per minute to as low as 0.5 gallons per minute. It is understood that dilution must occur during low river flows.

TOTALIZER, FLOW METER/SPRAY TIMER -The applicator must be able to accurately deliver the specified volume of material to each site. This may be accomplished by providing an accurate totalizer, or a combination flow meter and timer, or by limiting the maximum number of sites to two per load. Each aircraft utilizing a totalizer must have the appropriate calibration code for the *Bti* product being used. In addition, each aircraft must be equipped with a digital timer that is activated automatically when the spray switch is operated. The timer must be capable of an accurate measurement of the cumulative spray time in minutes and tenths of minutes or seconds. Hour meters are not acceptable. This will be a definite aid to the pilot in accurately splitting a load between two or more sites and to monitor flow rate during the actual application.

CALIBRATION OF SPRAY SYSTEM -Daily calibration of spray equipment is required. Calibration must occur prior to the initial *Bti* application of the day.

(C) **FIELD TRUCKS** -A truck equipped for transporting and dispensing insecticide and aircraft fuel is required. Truck and trailer combinations are acceptable when they meet all requirements of the West Virginia Department of Highways. Other arrangements may be determined to be acceptable, but must have prior approval from the Department. The field trucks must be large enough to legally carry the minimum volume of *Bti* needed for that treatment day.

If the *Bti* is delivered in drums, then each truck must be equipped with a drum wrench and the necessary device for pumping from a drum into the bulk tank. One truck must be available with a hydraulic tailgate or other means of loading extra barrels if the day's *Bti* total exceeds the storage tank's capacity.

(D) **INSECTICIDE STORAGE TANK** -All tanks used to transport insecticides must be leak proof and corrosion-resistant. Filler openings and air vents must be adequate to prevent surging during filling. Tanks must be equipped with properly fitting covers or hatch plates and kept closed except when filling or circulating. This is done to reduce or prevent contamination by foreign material. Tanks must be thoroughly cleaned and free of rust, residues and particulate matter such as grit and sand. All tanks will be inspected before being permitted to be filled with insecticide or water. Tanks used for bulk storage of insecticide must have visual calibration markings or a dip stick calibrated at 25 gallons or finer intervals for use as a double check to the meters.

This tank must be equipped with a recirculation system designed to produce a swirling action which will mix and agitate the *Bti*. Inlet lines should direct the material parallel to the curved internal surface of the tank. Large internal tank baffles that restrict the agitation in any portion of the tank must be avoided. Additional mechanical agitation is also acceptable. The return line must be below the surface of the mixture in the tank. The tank must hold a minimum of 800 gallons.

(E) **PUMPS** -The pump used for circulation, mixing and loading must produce a sufficient flow rate to fill the aircraft it supplies in a maximum of three (3) minutes without producing high pressures. The pump used for drafting the undiluted insecticide from a 30 gallon drum must be capable of repeatedly emptying a drum in less than three (3) minutes.

A second pump, with sufficient flow rate to fill the aircraft it supplies in a maximum of three (3) minutes without producing high pressures, must be supplied to load any water that may be required for dilutions.

(F) **METERS** -All meters must be calibrated and inspected by a certified¹ operator no more than 60 days prior to the start of the spraying. Copies of this certification shall be provided to the Program Coordinator prior to the beginning of each spray season for each meter used in the program. Meters must be capable of safely handling the flow rate necessary for loading the aircraft. Meters with lighted digital displays that are difficult to see in direct full sunlight are not acceptable. The meter shall be capable of accurately metering only liquid. The meter must be capable of discriminating liquid from air. The contractor is also responsible for all flight time needed for proper calibration of the aircraft and any needed recalibration check flights.

(G) **STORAGE TANK STRAINERS** -An in-line strainer must be located prior to the intake of the meter. This strainer may be on either side of the pump. The strainer elements used to screen the insecticides must be 30 to 50-mesh size and fit properly in the strainer housing. Strainer elements of finer than 50-mesh such as 80- or 100-mesh are not permitted.

¹ Certified through the WV Department of Labor, Weights and Measures Section: (304) 722-0602.

(H) RADIOS -Communications between the ground and air are the responsibility of the contractor. The contractor must supply the necessary equipment to provide two-way radio contact between the helicopter and the ground support truck. All aircraft and field trucks must be provided with FCC and FAA approved ground-to-air radio communications. These radios must be in proper working order. The range of this radio equipment must be a minimum of ten miles.

The pilot must be able to transmit and receive on-the-tower and ground-control frequencies used by the airports in the contract area. If it is not possible for the pilot to monitor both a control tower and the ground-support truck at the same time, the procedure to switch from one to the other must be simple and require only one hand.

(I) ACCESSORY EQUIPMENT -All accessory equipment, including any vehicles necessary for transporting the insecticide from storage or from one operational site to another, are the responsibility of the contractor. Accessory equipment supplied by the contractor is defined as any needed insecticide storage tanks, (equipped for agitation or recirculation), pumps, hoses, fire extinguishers, metering devices, and similar equipment necessary for mixing the insecticide and loading the spray aircraft, and any other services, equipment, and materials that may be needed.

2.7 OTHER RESPONSIBILITIES -In addition to equipment and personnel, the vendor must meet the following obligations:

(A) LOADING SITES -The selection of a suitable helispot or airfield is the responsibility of the contractor. The Department recommends that the contractor find several loading sites carefully located to minimize ferry distance. Use of the site must not present problems from a legal aspect, and permission to use the site must be obtained by the contractor. The contractor will be responsible for any damage done to or within the vicinity of the work area that is a direct result of spraying operations. The contractor must locate and secure permission for all helispots or airfields prior to the start of the project. The State owns several areas located near the operational area and the program coordinator will cooperate with the contractor in securing permission to use these sites, if they are deemed acceptable by the contractor. The contractor or his representatives must notify the Program Coordinator of the loading sites to be used prior to any spraying operations.

During previous years, Pipestem Resort State Park has provided storage for *Bti*. This location has also been used as a loading site.

The contractor shall provide safe drinking water at all loading sites, if no public drinking water source is available.

(B) MAINTENANCE -The contractor shall provide maintenance on the spray system, the aircraft, the mixing and pumping system, the trucks and the storage tanks. Care should be taken to prevent leakage of spray material at all times. Routine maintenance is to be conducted at times that will not interfere with the spray operation. Only emergency repairs are to be performed during scheduled spray hours.

(C) SECURITY -If guard service for the helicopters and/or facilitating equipment is required or desired by the contractor, the contractor shall provide the necessary personnel. Care should be taken to ensure aircraft storage sites are not located in fog-prone areas which might delay the start of the daily spray program.

(D) AIRCRAFT REFUELING -The contractor must provide enough aircraft fuel to supply the helicopter for the entire day, which must be available at each loading site. The fuel tank must be equipped with a pump to transfer the fuel through a hose and nozzle for refueling while the engine is running and/or the rotor spinning. Refueling from hand-held containers is permitted only in emergency situations and then only during a complete shutdown.

(E) NON-SPRAYING FLIGHTS -Flights to and from the project area, as well as any needed reconnaissance flights over the spray areas, are provided by the contractor. The Program Coordinator or designee may be available to ride in the helicopter on a reconnaissance flight to help the pilot become familiar with the spray sites.

(F) PILOT RESPONSIBILITY -When in flight, the pilot is responsible at all times for the safety of the helicopter and personnel. The Department will not require flying in fog, dense smoke, or in any other adverse condition that a prudent pilot would consider unsafe. It is mutually understood and agreed that the successful vendor will not be required to land at any site which an expert pilot would consider unsafe. During the spraying, the pilot is permitted to take a short break between loads whenever desired. Recommended rest periods are found in the following paragraph. It is recommended that the same pilot/pilots work the same area *throughout* the contract for increased project efficiency and safety.

1) The pilot shall take all necessary precautions to prevent discharge of the *Bti* on people in or along the river. If there are people within the treatment site, the pilot shall employ any/all of the following tactics to prevent human contact with the pesticide

a) use a public announcement system to warn people of the intent to spray (content of the announcement will be provided by the Program Coordinator) and either allow river users time to move; or,

b) move the spray transect slightly upstream or downstream based on anticipated drift, or,

c) hover above the site until all boats/rafts have cleared the area, or,

d) treat nearby sites, and return to the site after the area has been cleared.

2) The pilot is responsible for the proper loading of the aircraft. Loading will be under his/her direction and will be inspected by him/her before takeoff. The tanker weight will not exceed the maximum gross weight specified by the manufacturer under standard category. The pilot shall compensate for altitude, temperature, landing site conditions, and other adverse flying conditions.

3) The pilot will assure that the aircraft windshields or bubble is kept clean.

(G) FLIGHT DUTY/GROUND DUTY LIMITATIONS -Maximum flight time² is limited to six and one-half (6.5) hours per day. This must be broken into two (2) segments separated by a rest period of at least thirty minutes that is restricted to meals and relaxation. Other jobs, such as driving a truck or conducting aircraft maintenance will not be counted as part of a rest period. Pilots and crew members are to have at least ten (10) consecutive hours off duty prior to the start of each application day.

(H) INSPECTION -Department personnel may inspect the contractor's aircraft to determine if the equipment offered meets the Contract Specifications. If this action is deemed necessary, a qualified aircraft inspector will be provided by the Department. Performance tests, if necessary, will be conducted at a location mutually agreed upon between Department personnel and the contractor. The contractor shall assume all expenses incident to operation of the aircraft and the pilot's time during these tests. The Department may request this inspection be held thirty (30) days prior to scheduled start of spraying.

(I) FIELD EXPENSE -Costs incurred in the operation and maintenance of all the equipment on the project is the responsibility of the contractor. Expenses incurred by all contract personnel including arrangements for food, lodging and transportation are the responsibility of the contractor.

(J) INDEMNITY CLAUSE -The contractor shall indemnify and save and keep harmless the State of West Virginia and National Park Service/United States of America against all loss, cost, damage, claim, expense or liability whatsoever, because of accident or injury to persons or property of others in connection with the application under this agreement.

(K) EXPERIMENTAL SPRAYING -The Department may request that the successful vendor conduct a small amount of experimental spraying. This will be done to gain knowledge of the dispersal of the *Bti* after application in the various streams. (In the event that this is necessary, the contractor will be compensated for any such experimental work at the contractual rate.)

(L) PERSON FLYING AS NAVIGATOR -In the event the contractor needs Department personnel to accompany the pilot on a flight to act as a navigator for site location or general reconnaissance, the contractor will guarantee a minimum of \$150,000.00 insurance coverage for the Department personnel.

SECTION 3. OBLIGATIONS OF THE DEPARTMENT

3.1 APPLICATION MONITORING AND SUPERVISION -The treatment operations will be administered by the Department of Agriculture, Plant Industries Division. The Program Coordinator or designee will work with the pilot and the ground crew, acting as a dispatcher and record keeper.

² The flight time is the total time when the aircraft is off the ground. It begins with the first load of the day and ends with the landing from the last load of the day. Moving aircraft to and from the work site before and after spraying is not included.

3.2 MAPS -The Program Coordinator or designee will provide USGS 7.5 minute topographic maps with each treatment site marked and labeled. There will be no ground markers at treatment sites.

3.3 PRE-WORK CONFERENCE -Prior to initiation of this spray program, Department representatives will meet with the contractor to discuss details and procedures. The date, time and location of this conference and who should attend will be mutually agreed upon.

3.4 SAFETY -Department personnel are required to conduct themselves in a safe manner especially in the vicinity of the spray aircraft and support equipment.

SECTION 4. AGREED DAMAGES FOR FAILURE TO PERFORM

4.1 INTRODUCTION -Accurate timing of application of the *Bti* is critical to the success of the program. For this reason delays caused by the contractor could well destroy the effectiveness of this control program. The contractor shall not be liable for assessed damage costs if the failure to meet the terms of the contract arises out of causes beyond the control and with no fault or negligence of the contractor. Such causes may include, but are not restricted to, acts of God or of the public enemy, acts of the State in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case, the failure to perform must be beyond the control and without the fault or negligence of the part of the contractor. The following items (but not limited to just these items) are considered to be failure to perform acts and subject to monetary compensation:

4.2 LATE ARRIVAL -Verbal notice will be given to the contractor five (5) days in advance of a time and location to have his equipment assembled for the start of the spray program. Following the first application, an advance notice of forty-eight (48) hours will be given to report for subsequent spraying operations. Failure to arrive on the day specified will be assessed against the amount due the contractor at the rate of \$1,500.00 per day. This same assessment applies if the aircraft is on site, but failure to have all the necessary ground support equipment or materials on site make it impossible to spray that day.

4.3 TARDINESS -The contractor will be told in advance the starting time of the spray operation on each day. Contractor personnel should be at the work site prior to the specified start time and be set up to load the ship and begin application. Tardiness on any part of the crew which delays the departure of the first load when conditions are acceptable for spraying can be assessed against the amount due the contractor at the rate of three hundred (\$300.00) dollars per spray day.

4.4 INSECTICIDE SPILLS AND DUMPS -The contractor must provide trucks for transporting the insecticide and will be held liable for any loss of the material between the receipt of delivery by the contractor and its proper dispersal from the aircraft spray system. The contractor will be liable for all aspects of cleanup and containment should an incident occur.

4.5 PROCEDURE -In cases where the contractor causes a delay as described in this Section, the incident will be detailed in writing by the Program Coordinator and submitted to the contractor's Project Supervisor. A copy will also be given to the contractor. All approved reports will be subject to the appropriate provisions and assessed costs shall be deducted before final payment is made to the contractor.

SECTION 5. AWARDING OF CONTRACT

5.1 BASIS OF PAYMENT -Contractor payment is based on the number of gallons of *Bti* concentrate properly applied to designated sites.

5.2 BIDS -The bid form requires the contractor to develop a price for providing and applying the pesticide on a per gallon basis. This price is then multiplied by the estimated gallons to be applied to produce a Total Bid Price. The award will be made to the lowest bidder who meets all the required specifications of this RFQ.

5.3 LIFE OF CONTRACT -This contract becomes effective on and extends for a period of one (1) year or until such "reasonable time" thereafter as is necessary to obtain a new contract or renew the original contract. The "reasonable time" period shall not exceed twelve (12) months. During this "reasonable time" the vendor may terminate this contract for any reason upon giving the Program Coordinator 30 days written notice.

Unless specific provisions are stipulated elsewhere in this contract document, the terms, conditions, and pricing set herein are firm for the life of the contract.

5.4 RENEWAL -This contract may be renewed upon the mutual written consent of the spending Unit and Vendor, submitted in writing to the Black Fly Control Program Coordinator, thirty (30) days prior to the expiration date. Such renewal shall be in accordance with the terms and conditions of the original contract and shall be limited to two (2) successive one (1) year periods.

5.5 CANCELLATION -The Department reserves the right to cancel this contract immediately upon written notice to the vendor if the materials or workmanship are of an inferior quality or do not conform to the specifications of the bid and bid contract herein.

5.6 INSURANCE -Successful vendors shall furnish proof of coverage of commercial General Liability Insurance prior to issuance of a contract. Unless otherwise specified in the bid documents, the minimum amount of insurance coverage required is \$250,000.00. The insurance policy shall list the WV Department of Agriculture/State of West Virginia, the National Park Service/United States of America and the USDA Forest Service as certificate holders.

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5.5 CANCELLATION -The Department reserves the right to cancel this contract immediately upon written notice to the vendor if the materials or workmanship are of an inferior quality or do not conform to the specifications of the bid and bid contract herein.

5.6 INSURANCE -Successful vendors shall furnish proof of coverage of commercial General Liability Insurance prior to issuance of a contract. Unless otherwise specified in the bid documents, the minimum amount of insurance coverage required is \$250,000.00. The insurance policy shall list the WV Department of Agriculture/State of West Virginia, the National Park Service/United States of America and the USDA Forest Service as certificate holders.

5.7 BONDS -A Bid Bond of \$5,000.00, payable to the State of West Virginia, shall be submitted with each bid. The successful bidder shall also furnish within 10 days a Performance/Labor/Material Bond for 65% of the amount of the contract. The West Virginia Attorney General's Office requires this bond to be submitted before the contract can be awarded. Bonds may be provided in the form of a certified check, irrevocable letter of credit, or bond furnished by a solvent surety company authorized to do business in the State of West Virginia. A letter of credit submitted in lieu of a Performance/Labor/Material Bond will only be allowed for projects under \$100,000.00. Personal or business checks are not acceptable in lieu of the bid bond or Performance/Labor/Material Bond.

5.8 OTHER -The Department requires that the following information will be submitted **WITH THE BID**. This information will be used to evaluate the qualifications of the bidders prior to awarding the contract; lowest bid alone may not serve as the justification for contract award:

- (A) Aircraft make and model, FAA registration number, spray system make and tank capacity for each aircraft to be used.
- (B) Names of pilots, commercial certificate numbers and limitations, if any, flight hours in command as specified, number of seasons of black-fly experience, FAA medical certificate, class and date of examination, copy of WV Pesticide Application Business license. The above information will also be provided for pilots in training, once identified, prior to flight time.
- (C) References must be submitted with the bid.

5.9 SUBCONTRACTS -The vendor who is awarded this contract, when performing work under the terms and conditions of this contract, is solely responsible for the satisfactory completion of the work and shall not be allowed to subcontract any work or services under this contract to any other person, company, corporation, firm, organization, or agency.

5.10 BID FORMAT -See the attached Pricing Page.

The total contract amount to be paid to the successful bidder is dependent on the actual gallons sprayed and the per gallon bid price. The actual amount sprayed may differ substantially from the estimates.

Contractors are advised that the actual flows encountered in the spray program may be considerably less than the estimate used to construct the current bid packages (See Section 2.3).

SECTION 6. MAPS

Map 6-1. State Map

Map 6-2. River Map

AGR1221
Pricing Page

Estimated Season spray for 2012 based on, 2011 WVDA Black Fly Control Program. Actual number of applications and Gallons of Bti to be applied will vary based on agency needs.

Estimated Application Season	Estimated Total Number of Applications	Estimated Annual Total Gallons Bti Applied	Fixed Cost per Gallon Applied	Extended Cost
March- October 2012	20	9500	\$ 120.45	\$1,144,275.00

Example: 9500 gallons X cost per gallon applied = Extended Cost.

Amount of BTI is to be distributed varies due to water flow and larval development – there is no way to predict this.

Cost is to be calculated on a price per gallon applied (material furnished by the applicator) the contract is open end.

A summary report for the 2011 Black Fly Control Program may be obtained by contacting the Black Fly Control Program Coordinator (See Section 1.2). Site locations and estimated volumes may be altered during the course of the program as needed to achieve the desired control.

Volumes of *Bti* needed are calculated using the following formula to obtain an approximate 11 ppm concentration at a given treatment site:

$$\text{water flow (in ft}^3\text{/ second)}/ 200 = \text{Bti required (in gal.)}$$

For instance, the water flow at a given site is 9400 ft.³/ second:

$$9400 \text{ ft.}^3\text{/ second} / 200 = 47 \text{ gal. Bti}$$

Estimated gallons of *Bti* required to treat New River (from WV border to Sandstone), based on 2011

Spray Season	Number of Sites (Avg.)	Avg. Flow (ft ³ /sec.)	<i>Bti</i> Volume (gal.) per site	Number of Applications	Total <i>Bti</i> (gal.)
TOTALS:	12.5 avg.	6543 avg.*	30 avg.*	20	4898

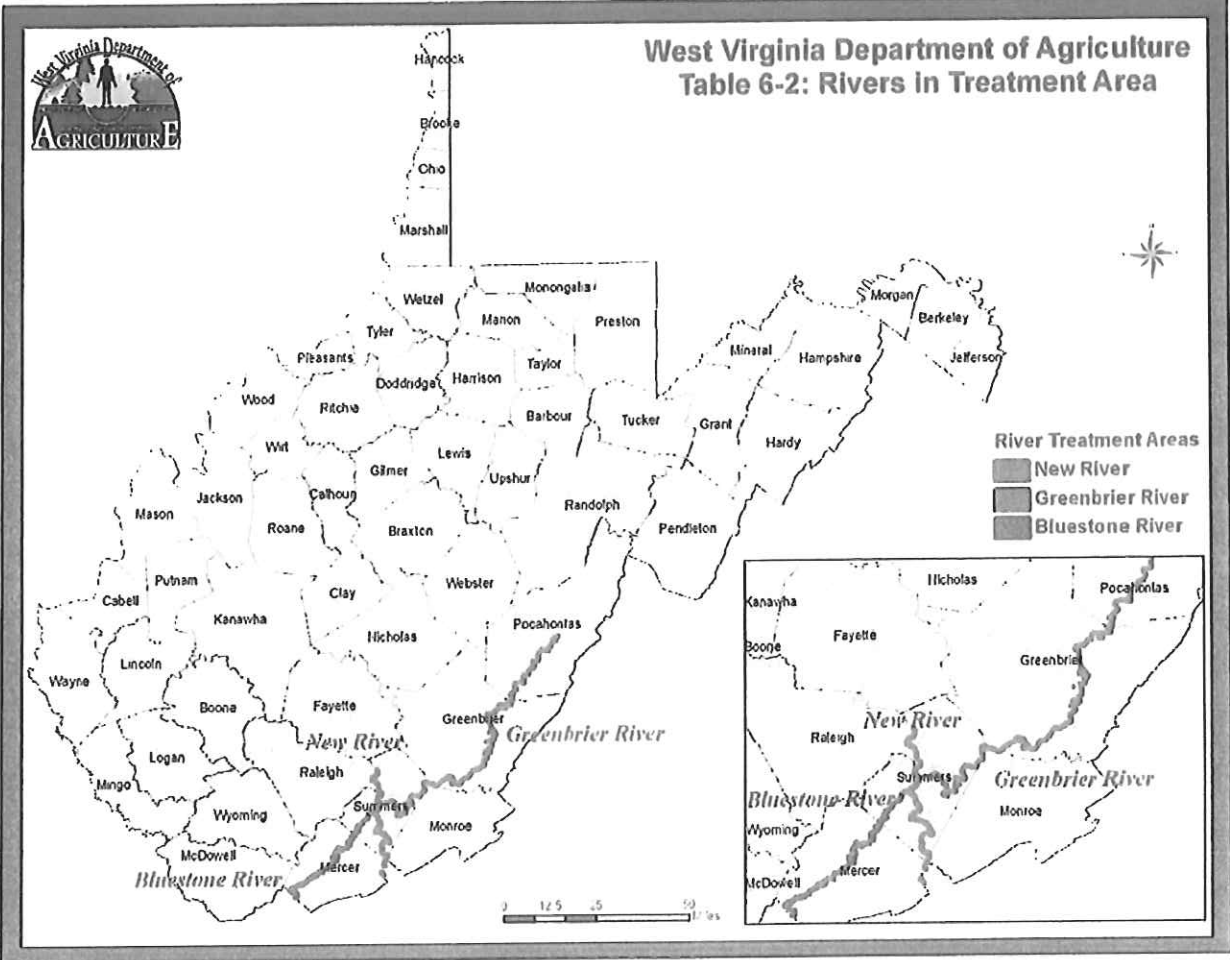
Estimated gallons of *Bti* required to treat Bluestone River (lower 12 miles), based on 2011.

Spray Season	Number of Sites (avg.)	Avg. Flow (ft ³ /sec.)	<i>Bti</i> Volume (gal.) per site	Number of Applications	Total <i>Bti</i> (gal.)
TOTALS:	10 avg.	331 avg.	1.5 avg.	20	172.7

Estimated gallons of *Bti* required to treat Greenbrier River, Clover Lick to Hinton, based on 2011.

Month	Number of Sites (avg.)	Avg. Flow (ft ³ /sec.)*	<i>Bti</i> Volume (gal.) per site	Number of Applications	Total <i>Bti</i> (gal.)
TOTALS:	81 avg.	2227 avg.*	8.9 avg.*	20	4181

*Avg. inflated by one atypical high-flow day. ** Incomplete spray due to insufficient *Bt*.



BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, HELICOPTER APPLICATORS, INC.
of 1670 YORK ROAD, GETTYSBURG, PA 17325, as Principal, and FIRST NATIONAL INSURANCE COMPANY OF AMERICA
of BLUE BELL PA, a corporation organized and existing under the laws of the State of
WA with its principal office in the City of SEATTLE, WA, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of FIVE THOUSAND & 00/100 \$5,000.00 for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
AERIAL APPLICATION OF BFI TO STREAMS IN SOUTHERN WEST VIRGINIA
FOR THE PURPOSE OF BLACK FLY CONTROL

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
15TH day of MARCH, 20 12.

Principal Corporate Seal

HELICOPTER APPLICATORS, INC.
(Name of Principal)
By Glen A. Mater
(Must be President or
Vice President)
Vice President
(Title)

Surety Corporate Seal

FIRST NATIONAL INSURANCE COMPANY OF
(Name of Surety) AMERICA

J. C. Rushworth
Attorney-in-Fact
J. C. RUSHWORTH

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
must be affixed, a power of attorney must be attached.**

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

3090464

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

FIRST NATIONAL INSURANCE COMPANY OF AMERICA
SEATTLE, WASHINGTON
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That First National Insurance Company of America (the "Company"), a Washington stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint. **ALAN P. LUBAS, J. C. RUSHWORTH, SHEILA E. TURNBULL, SARAH E. SMITH, ALL OF THE CITY OF LANCASTER, STATE OF PENNSYLVANIA**

, each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FIFTY MILLION AND 00/100***** DOLLARS (\$ 50,000,000.00*****)** each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE IV - Execution of Contracts: Section 12. Surety Bonds and Undertakings.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitations as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article IV, Section 12 of the By-laws, Garnet W. Elliott, Assistant Secretary of First National Insurance Company of America, is authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of First National Insurance Company of America has been affixed thereto in Plymouth Meeting, Pennsylvania this 31st day of August, 2010.



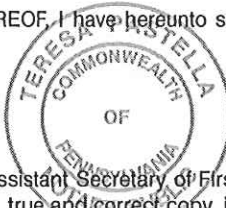
FIRST NATIONAL INSURANCE COMPANY OF AMERICA

By Garnet W. Elliott
Garnet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 31st day of August, 2010, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of First National Insurance Company of America; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of First National Insurance Company of America thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Notarial Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires Mar. 28, 2013
Member, Pennsylvania Association of Notaries

By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of First National Insurance Company of America, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article IV, Section 12 of the By-laws of First National Insurance Company of America.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of First National Insurance Company of America at a meeting duly called and held on the 18th day of September, 2009.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 15TH day of MARCH, 2012.



By David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

BID BOND PREPARATION INSTRUCTIONS

AGENCY _____ (A)
RFQ/RFP# _____ (B)

Bid Bond

- (A) WV State Agency
(Stated on Page 1 "Spending Unit")
Request for Quotation Number (upper
right corner of page #1)
- (C) Your Company Name
- (D) City, Location of your Company
- (E) State, Location of your Company
- (F) Surety Corporate Name
- (G) City, Location of Surety
- (H) State, Location of Surety
- (I) State of Surety Incorporation
- (J) City of Surety Incorporation
- (K) Minimum amount of acceptable bid
bond is 5% of total bid. You may state
"5% of bid" or a specific amount on
this line in words.
- (L) Amount of bond in figures
- (M) Brief Description of scope of work
- (N) Day of the month
- (O) Month
- (P) Year
- (Q) Name of Corporation
- (R) Raised Corporate Seal of Principal
- (S) Signature of President or Vice
President
- (T) Title of person signing
- (U) Raised Corporate Seal of Surety
- (V) Corporate Name of Surety
- (W) Signature of Attorney in Fact of the
Surety

NOTE: Dated, Power of Attorney with Raised
Surety Seal must accompany this bid
bond.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,
_____ (C) of _____ (D), _____ (E),
as Principal, and _____ (F) of _____ (G),
_____ (H), a corporation organized and existing under the laws
of the State of _____ (I) with its principal office in the City of
_____ (J), as Surety, are held and firmly bound unto The State
of West Virginia, as Obligee, in the penal sum of _____ (K)
(\$ _____ (L)) for the payment of which, well and truly to be made,
we jointly and severally bind ourselves, our heirs, administrators, executors,
successors and assigns.

The Condition of the above obligation is such that whereas the Principal
has submitted to the Purchasing Section of the Department of Administration
a certain bid or proposal, attached hereto and made a part hereof to enter into a
contract in writing for _____ (M)

NOW THEREFORE .

(a) If said bid shall be rejected, or

(b) If said bid shall be accepted and the Principal shall enter into a
contract in accordance with the bid or proposal attached hereto and shall furnish
any other bonds and insurance required by the bid or proposal, and shall in all
other respects perform the agreement created by the acceptance of said bid then
this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the
Surety for any and all claims hereunder shall, in no event, exceed the penal
amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the
obligations of said Surety and its bond shall be in no way impaired or affected by
any extension of time within which the Obligee may accept such bid: and said
Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their
hands and seals, and such of them as are corporations have caused their corporate
seals to be affixed hereto and these presents to be signed by their proper officers,
this _____ (N) day of _____ (O), 20 _____ (P).

Principal Corporate Seal _____ (Q)

(R)

(Name of Principal)

By _____ (S)
(Must be President or
Vice President)

(T)
Title

(U)
Surety Corporate Seal

(V)
(Name of Surety)

(W)
Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to
transact surety insurance. Raised Corporate Seals must be affixed and a Power of
Attorney must be attached.

State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 _____ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 _____ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 N/A _____ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 _____ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
 N/A

3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 _____ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
 N/A

4. **Application is made for 5% resident vendor preference for the reason checked:**
 N/A _____ Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 _____ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
 N/A

6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 _____ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
 N/A

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Helicopter Applicators, Inc Signed: 
 Date: 03/09/12 Title: Secretary/Treasurer

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. AGR1221

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Helicopter Applicators, Inc.

Authorized Signature: *[Signature]* Date: 03/12/12

State of Pennsylvania

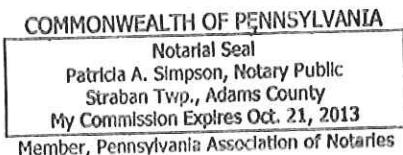
County of Adams, to-wit:

Taken, subscribed, and sworn to before me this 12 day of March, 2012.

My Commission expires 10/21, 2013.

AFFIX SEAL HERE

NOTARY PUBLIC *Patricia A. Simpson*



RFQ NUMBER: AGR1221

HELICOPTER APPLICATORS, INC. - AIRCRAFT INFORMATION

<u>MAKE/MODEL</u>	<u>FAA REG. #</u>	<u>SPRAY SYSTEM</u>	<u>TANK CAPACITY</u>
Bell OH58A+	N654HA	Simplex	100 Gallons
Bell OH58A+	N655HA	Simplex	130 Gallons
Bell OH58A+	N653HA	Simplex	130 Gallons
Bell 47/Soloy	N652HA	Simplex	100 Gallons
Bell OH58C	N656HA	Simplex	130 Gallons
Bell OH58A+	N659HA	Simplex	130 Gallons
Bell 206BII	N3917G	Simplex	100 Gallons
Bell 206L1	N660HA	Simplex	160 Gallons
Bell 206L4	N657HA	Simplex	160 Gallons
Bell 206L3	N651HA	Simplex	160 Gallons
Bell UH1-H	N658HA	Simplex	300 Gallons

RFQ NUMBER: AGR1221

HELICOPTER APPLICATORS, INC. - PILOT INFORMATION

Name: Glenn Martin

Comm. Certificate Numbers: FAA No. [REDACTED]

Ratings: Rotorcraft - Helicopters
Airplane Single Engine Land

West Virginia Applicators License: No. [REDACTED]

Flight Hours in Command:

Total All Aircraft: 18,125

Type of Aircraft to be Used in Contract: [REDACTED]

Night: 670

Typical Terrain: 5,300

In Weight Class to be Flown: 5,550

Make and Model, Preceding 60 days: 25

Number of Seasons of black fly spraying experience: 31

FAA Medical Certificate:

Class: Second

Date of Exam: [REDACTED]

Name: Daniel Rudisill

Comm. Certificate Numbers: FAA No. [REDACTED]

Ratings: Rotorcraft - Helicopters
Airplane Single Engine Land

West Virginia Applicators License: No. [REDACTED]

Flight Hours in Command:

Total All Aircraft: 9,550

Type of Aircraft to be Used in Contract: 3,975

Night: 120

Typical Terrain: 3,615

In Weight Class to be Flown: 3,975

Make and Model, Preceding 60 days: 30

Number of Seasons of black fly spraying experience: 15

FAA Medical Certificate:

Class: Second

Date of Exam: [REDACTED]

Name: Brian Redding
Comm. Certificate Numbers: FAA No. [REDACTED]
Ratings: Rotorcraft - Helicopters
Airplane Single Engine Land
West Virginia Applicators License: No. [REDACTED]
Flight Hours in Command:
Total All Aircraft: 4,525
Type of Aircraft to be Used in Contract: 2,595
Night: 190
Typical Terrain: 1,725
In Weight Class to be Flown: 2,595
Make and Model, Preceding 60 days: 25
Number of Seasons of black fly related spraying experience: 11
FAA Medical Certificate:
Class: Second
Date of Exam: [REDACTED]

Name: Gerald Racey
Comm. Certificate Numbers: FAA No. [REDACTED]
Ratings: Rotorcraft - Helicopters
West Virginia Applicators License: No. [REDACTED]
Flight Hours in Command:
Total All Aircraft: 12,525
Type of Aircraft to be Used in Contract: 3,775
Night: 1,425
Typical Terrain: 4,075
In Weight Class to be Flown: 4,600
Make and Model, Preceding 60 days: 25
Number of Seasons of black fly spraying experience: 12
FAA Medical Certificate:
Class: Second
Date of Exam: [REDACTED]

Name: William Farwell

Comm. Certificate Numbers: FAA No. [REDACTED]

Ratings: Rotorcraft - Helicopters

Airplane Single Engine Land, Airplane Multi Engine Land

West Virginia Applicators License: No. [REDACTED]

Flight Hours in Command:

Total All Aircraft: 2,970

Type of Aircraft to be Used in Contract: 1,350

Night: 190

Typical Terrain: 1,750

In Weight Class to be Flown: 1,500

Make and Model, Preceding 60 days: 20

Number of Seasons of black fly spraying experience: 8

FAA Medical Certificate:

Class: Second

Date of Exam: [REDACTED]

Name: Donald Gembe

Comm. Certificate Numbers: FAA No. [REDACTED]

Ratings: Rotorcraft – Helicopters

West Virginia Applicators License: No. [REDACTED]

Flight Hours in Command:

Total All Aircraft: 10,700

Type of Aircraft to be Used in Contract: 2,650

Night: 685

Typical Terrain: 1,950

In Weight Class to be Flown: 2,750

Make and Model, Preceding 60 days: 25

Number of Seasons of black fly spraying experience: 18

FAA Medical Certificate:

Class: Second

Date of Exam: [REDACTED]

WEST VIRGINIA DEPARTMENT OF AGRICULTURE
1900 Kanawha Blvd., East
Pesticide Regulatory Programs
Charleston, WV 25305-0190

LICENSED PESTICIDE APPLICATION BUSINESS

Issued to:
Helicopter Applicators, Inc.
1670 York Road
Gettysburg PA 17325

License No: [REDACTED]
Plants ID: ØØØANF

Has met the requirements of the State Code of West Virginia, Chapter 19, Article 16A, Section 7, to engage in the business of applying pesticides.

Qualifying Individual: **Glenn A. Martin**

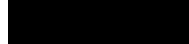
Categories of Operation:

- | | | |
|-------------------------------------|-------------------------|--------------------------|
| 1 - Agricultural Plant Pest Control | 3 - Forest Pest Control | 6 - Aquatic Pest Control |
| 7 - Right-of-Way/Industrial Weed | 9 - Public Health | 13D - Mosquito Control |
| 13E - Black Fly Control | 14 - Aerial | |

Date Issued



Expiration Date



Commissioner of Agriculture

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

APPLY PESTICIDES CORRECTLY

* LICENSES EXPIRE DECEMBER 31ST EACH YEAR
* IF YOU HAVE ANY QUESTIONS, CALL (304) 558-2209

Here is your new applicator/technician card. Keep this stub for your records.
Please remove the punch out license and retain this sheet for your category information.

The category(ies) you are certified or registered in and the year it expires are listed below. * 20 credits are required each 3 year period for applicators and 4 credits every year for registered technicians.

Check your applicator information at www.kellysolutions.com/wv

YOUR PESTICIDE LICENSE IS ATTACHED BELOW.

PUNCH OUT LICENSE CARD HERE

3,6,9,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATION

Expires: 12/31/2012

Commercial Pesticide Applicator

William Farwell

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325

William Farwell

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed
--	---------------------	---------------------	-------------------

3-Forest Pest Control	0	20	20 Due 12/31/2014
6-Aquatic Pest Control	0	20	20 Due 12/31/2014
9-Public Health	0	20	20 Due 12/31/2014

NOT
TRANSFERABLE

Shirley R. Douglas

AUTHORIZED REPRESENTATIVE

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

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YOUR PESTICIDE LICENSE IS ATTACHED BELOW.

PUNCH OUT LICENSE CARD HERE

1,3,6,7,13D,13E,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATIO

Expires: 12/31/2012

Commercial Pesticide Applicator

Gerald L. Racey

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325



AUTHORIZED REPRESENTATIVE

NOT
TRANSFERABLE

Gerald L. Racey

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed
--	---------------------	---------------------	-------------------

1-Agricultural Plant Pest Control	0	20	20	Due 12/31/2014
13D-Mosquito Control	14	20	6	Due 12/31/2013
13E-Black Fly Control	14	20	6	Due 12/31/2013
3-Forest Pest Control	0	20	20	Due 12/31/2014
6-Aquatic Pest Control	12	20	8	Due 12/31/2013
7-Right-of-Way/Industrial Weed	0	20	20	Due 12/31/2014

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

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3,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATION

Expires: 12/31/2012

Commercial Pesticide Applicator

Brian J. Redding

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325

Brian J. Redding

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed	
3-Forest Pest Control	0	20	20	Due 12/31/2014



AUTHORIZED REPRESENTATIVE

NOT
TRANSFERABLE

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

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PUNCH OUT LICENSE CARD HERE

3,13E,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATION

Expires: 12/31/2012

Commercial Pesticide Applicator

Daniel Rudisill

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325

Daniel Rudisill

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed	
13E-Black Fly Control	18	20	2	Due 12/31/2012
3-Forest Pest Control	0	20	20	Due 12/31/2014



AUTHORIZED REPRESENTATIVE

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TRANSFERABLE

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

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1,3,6,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATION

Expires: 12/31/2012

Commercial Pesticide Applicator

Glenn A. Martin

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325

Glenn A. Martin

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed
--	---------------------	---------------------	-------------------

1-Agricultural Plant Pest Control	14	20	6	Due 12/31/2013
3-Forest Pest Control	14	20	6	Due 12/31/2013
6-Aquatic Pest Control	12	20	8	Due 12/31/2013

NOT
TRANSFERABLE



AUTHORIZED REPRESENTATIVE

West Virginia Dept. of Agriculture
Pesticide Regulatory Programs
1900 Kanawha Blvd., East
Charleston, WV 25305-0190

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PUNCH OUT LICENSE CARD HERE

3,7,14

FOR USE ONLY IN CATEGORIES ABOVE

WEST VIRGINIA CERTIFICATION

Expires: 12/31/2012

Commercial Pesticide Applicator

Donald E. Gembe

Helicopter Applicators, Inc.

1670 York Road

Gettysburg PA 17325

Donald E. Gembe

Continuing Education Credit Information	Credits Acquired	Credits Required	Credits Needed
--	---------------------	---------------------	-------------------

3-Forest Pest Control	14	20	6 Due 12/31/2013
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7-Right-of-Way/Industrial Weed	12	20	8 Due 12/31/2013
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AUTHORIZED REPRESENTATIVE

NOT
TRANSFERABLE

RFQ NUMBER: AGR1221

HELICOPTER APPLICATORS, INC. - REFERENCES

Pennsylvania DEP

Contact: Andy Kyle or Dave Rebuck
(717) 346-8241

Scope of Work: Have applied Vectobac 12AS throughout the Commonwealth of Pennsylvania for black fly control for the past 25+ years. In 2011, we sprayed over 90,000 gallons of BTI on rivers throughout Pennsylvania.

Burlington County Mosquito Control

Contact: Chip Chappine
(609) 265-5064

Scope of Work: Applying adulticide and larvicide for the purpose of mosquito control throughout Burlington County, NJ.

New Jersey Mosquito Control

Contact: Bob Kent or Claudia O'Malley
(609) 292-1054

Scope of Work: Applying adulticide and larvicide for the purpose of mosquito control throughout New Jersey.

Pennsylvania DEP

Contact: Matt Helwig
(717) 346-8243

Scope of Work: Applying adulticide and larvicide for the purpose of mosquito control throughout Pennsylvania.

South Florida Water Management District

Contact: Jimmy Hines
(863) 228-1978

Scope of Work: Aerial Aquatic Herbicide throughout Florida

United States Forest Service

Contact: Brad Onken
(304) 285-1565

Scope of Work: Applying B.T. for the purpose of Gypsy Moth control in various states.