



**STATE OF VERMONT**  
JOINT FISCAL OFFICE

**MEMORANDUM**

To: James Reardon, Commissioner of Finance & Management  
From: Nathan Lavery, Fiscal Analyst  
Date: April 18, 2012  
Subject: JFO #2555, #2559, #2560

No Joint Fiscal Committee member has requested that the following items be held for review:

**JFO #2555** – \$790,018 grant from the U.S. Department of Health and Human Services to the Vermont Department of Mental Health. This grant will be used to provide regular crisis counseling services to survivors of Tropical Storm Irene in Addison, Bennington, Caledonia, Chittenden, Franklin, Lamoille, Orange, Rutland, Washington, Windham and Windsor Counties.

*[JFO received 3/19/12]*

**JFO #2559** – \$503,055 grant from the U.S. Department of Agriculture, passing through six Vermont farms, to the Vermont Agency of Agriculture, Food and Markets. This grant will be used to purchase water quality monitoring equipment for use in evaluating the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537).

*[JFO received 4/04/12]*

**JFO #2560** – \$350,000 grant from the Lake Champlain Basin Program to the Vermont Agency of Agriculture, Food and Markets. This grant will be used as matching funds for the water quality monitoring program to evaluate the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537).

*[JFO received 4/04/12]*

The Governor's approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: Patrick Flood, Commissioner  
Chuck Ross, Secretary



**STATE OF VERMONT**  
JOINT FISCAL OFFICE

**MEMORANDUM**

To: Joint Fiscal Committee Members  
From: Nathan Lavery, Fiscal Analyst  
Date: April 6, 2012  
Subject: Grant Requests

Enclosed please find two (2) items that the Joint Fiscal Office has received from the administration.

**JFO #2559** – \$503,055 grant from the U.S. Department of Agriculture, passing through six Vermont farms, to the Vermont Agency of Agriculture, Food and Markets. This grant will be used to purchase water quality monitoring equipment for use in evaluating the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537). **Expedited review has been requested. Joint Fiscal Committee members will be contacted by April 16 with a request to waive the balance of the review period and approve acceptance of these funds.**

*[JFO received 4/04/12]*

**JFO #2560** – \$350,000 grant from the Lake Champlain Basin Program to the Vermont Agency of Agriculture, Food and Markets. This grant will be used as matching funds for the water quality monitoring program to evaluate the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537). **Expedited review has been requested. Joint Fiscal Committee members will be contacted by April 16 with a request to waive the balance of the review period and approve acceptance of these funds.**

*[JFO received 4/04/12]*

Please review the enclosed materials and notify the Joint Fiscal Office (Nathan Lavery at (802) 828-1488; [nlavery@leg.state.vt.us](mailto:nlavery@leg.state.vt.us)) if you have questions or would like an item held for legislative review. Unless we hear from you to the contrary by April 13 we will assume that you agree to consider as final the Governor's acceptance of these requests.

MEMORANDUM

TO: Nathan Lavery  
Fiscal Analyst

FROM: Laura DiPietro  
Agency of Agriculture, Food & Markets

DATE: March 27, 2012

SUBJECT: Request to Expedite Grant Acceptance

JFO 2559

This request is to expedite the grant approval for phase 2 of the AGO Agricultural Practice Monitoring Project. A major piece of the project is the monitoring equipment that will be installed on the individual sites, which is in phase 2. This equipment takes 4-6 weeks to be delivered after the initial purchase order is placed. A PO cannot be submitted until these funds have been approved by the State and a contract executed with the contractor. The project aims to collect surface water runoff from farm fields and should include a full year of practice implementation for increased statistical power. In order to get data for the full year including the spring practices, we are trying to shorten the time frame until the equipment can be ordered and installed on site. If we are unable to get the spring data, the project may need to be extended another year which would cost more time and money.

**State of Vermont**  
 Department of Finance & Management  
 109 State Street, Pavilion Building  
 Montpelier, VT 05620-0401

Agency of Administration

[phone] 802-828-2376  
 [fax] 802-828-2428

JFO 2559

**STATE OF VERMONT  
 FINANCE & MANAGEMENT GRANT REVIEW FORM**

**Grant Summary:** This is one of three grants to provide federal capital investments in monitoring and evaluation of agricultural field best management practices. The first grant from the U.S. Natural Resources Conservation Services (JFO # 2537) was approved 12/13/2011 for \$70,000. This new grant request is for the assignment of \$503,055 in federal funds (that were received by local farmers) to Agency of Agriculture Food and Markets to purchase needed equipment for the project. The second new grant is from the Lake Champlain Basin Program and the New England Interstate Water Pollution Control Commission for \$350,000 and is described in the second AA1 form being submitted at the same time as this grant request.

**Date:** 3/27/2012

**Department:** Agriculture, Food and Markets

**Legal Title of Grant:** AGO Contract for Monitoring and Evaluation of BMP Implementation for Water Quality

**Federal Catalog #:** N/A

**Grant/Donor Name and Address:** See List of Farmers that assigned these funds to Agriculture.

**Grant Period:** From: 3/31/2012 To: 12/31/2015

**Grant/Donation:** \$503,055

	SFY 1	SFY 2	SFY 3	Total	Comments
<b>Grant Amount:</b>	\$364,095	\$69,480	\$69,480	\$503,055	

<b>Position Information:</b>	# Positions	<b>Explanation/Comments</b>
	0	

**Additional Comments:** These funds come from federal grants to farmers that the farmers assigned to Agriculture Food and Markets to buy the monitoring equipment.

Department of Finance & Management <sup>JK</sup> (Initial) 3/30/12  
 Secretary of Administration (Initial) NC 03/30/12



**STATE OF VERMONT REQUEST FOR GRANT (\*) ACCEPTANCE (Form AA-1)**

<b>BASIC GRANT INFORMATION</b>				
<b>1. Agency:</b>	Vermont Agency of Agriculture			
<b>2. Department:</b>	Agricultural Resource Management			
<b>3. Program:</b>	Water Quality			
<b>4. Legal Title of Grant:</b>	AGO Contract for Monitoring and Evaluation of BMP Implementation for Water Quality			
<b>5. Federal Catalog #:</b>	N/A			
<b>6. Grant/Donor Name and Address:</b>	See attached list of farm assignor's			
<b>7. Grant Period:</b>	<b>From:</b>	3/31/2012	<b>To:</b>	12/31/2015
<b>8. Purpose of Grant:</b>	Agricultural Water Quality Improvements in Lake Champlain Watershed			
<b>9. Impact on existing program if grant is not Accepted:</b>	This grant provides federal capital investments in the monitoring and evaluation of agricultural field best management practices to determine phosphorus reduction potentials which will help Vermont farmers to meet their obligations under the Clean Water Act and future requirements of the Lake Champlain TMDL from the Environmental Protection Agency.			
<b>10. BUDGET INFORMATION</b>				
	<b>SFY 1</b>	<b>SFY 2</b>	<b>SFY 3</b>	<b>Comments</b>
<b>Expenditures:</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	
Personal Services	\$	\$	\$	
Operating Expenses	\$364,095	\$69,480	\$69,480	Reimbursement to contractor for purchase of equipment
Grants	\$	\$	\$	
<b>Total</b>	<b>\$364,095</b>	<b>\$69,480</b>	<b>\$69,480</b>	
<b>Revenues:</b>				
State Funds:	\$	\$	\$	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$	\$	\$	
(Direct Costs)	\$	\$	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source Federal Direct Assignments of Payment-farm contracts)	\$364,095	\$69,480	\$69,480	
<b>Total</b>	<b>\$364,095</b>	<b>\$69,480</b>	<b>\$69,480</b>	
<b>Appropriation No:</b>	2200040000	<b>Amount:</b>	\$503,055	
		<b>Total</b>	\$503,055	

**MAR 29 2012**

**STATE OF VERMONT REQUEST FOR GRANT (\*) ACCEPTANCE (Form AA-1)**

**PERSONAL SERVICE INFORMATION**

**11. Will monies from this grant be used to fund one or more Personal Service Contracts?**  Yes  No  
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

Appointing Authority Name: Jolinda LaClair Agreed by:  JL  (initial)

12. Limited Service Position Information:	# Positions	Title
<b>Total Positions</b>		

**12a. Equipment and space for these positions:**  Is presently available.  Can be obtained with available funds.

**13. AUTHORIZATION AGENCY/DEPARTMENT**

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):	Signature: <u>Jolinda LaClair</u>	Date: <u>3-27-12</u>
	Title: Deputy Secretary of Agriculture	
	Signature:	Date:
	Title:	

**14. SECRETARY OF ADMINISTRATION**

<input checked="" type="checkbox"/> Approved:	(Secretary or designee signature) <u>[Signature]</u>	Date: <u>03/30/12</u>
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**15. ACTION BY GOVERNOR**

<input type="checkbox"/> Check One Box: Accepted	(Governor's signature)	Date:
<input type="checkbox"/> Rejected	<u>[Signature]</u>	<u>4/4/12</u>

**16. DOCUMENTATION REQUIRED**

**Required GRANT Documentation**

- |   |   |
|---|---|
| <input type="checkbox"/> Request Memo                           | <input type="checkbox"/> Notice of Donation (if any)              |
| <input type="checkbox"/> Dept. project approval (if applicable) | <input type="checkbox"/> Grant (Project) Timeline (if applicable) |
| <input type="checkbox"/> Notice of Award                        | <input type="checkbox"/> Request for Extension (if applicable)    |
| <input type="checkbox"/> Grant Agreement                        | <input type="checkbox"/> Form AA-1PN attached (if applicable)     |
| <input type="checkbox"/> Grant Budget                           |   |

**End Form AA-1**

(\*) The term "grant" refers to any grant, gift, loan, or any sum of money or thing of value to be accepted by any agency, department, commission, board, or other part of state government (see 32 V.S.A. §5).

**STATE OF VERMONT REQUEST FOR GRANT (\*) ACCEPTANCE (Form AA-1)**

BASIC GRANT INFORMATION				
<b>1. Agency:</b>	Vermont Agency of Agriculture			
<b>2. Department:</b>	Agricultural Resource Management			
<b>3. Program:</b>	Water Quality			
<b>4. Legal Title of Grant:</b>	AGO Contract for Monitoring and Evaluation of BMP Implementation for Water Quality			
<b>5. Federal Catalog #:</b>	N/A			
<b>6. Grant/Donor Name and Address:</b> See attached list of farm assignor's				
<b>7. Grant Period:</b>	<b>From:</b>	3/31/2012	<b>To:</b>	12/31/2015
<b>8. Purpose of Grant:</b> Agricultural Water Quality Improvements in Lake Champlain Watershed				
<b>9. Impact on existing program if grant is not Accepted:</b> This grant provides federal capital investments in the monitoring and evaluation of agricultural field best management practices to determine phosphorus reduction potentials which will help Vermont farmers to meet their obligations under the Clean Water Act and future requirements of the Lake Champlain TMDL from the Environmental Protection Agency.				
10. BUDGET INFORMATION				
	<b>SFY 1</b>	<b>SFY 2</b>	<b>SFY 3</b>	<b>Comments</b>
<b>Expenditures:</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	
Personal Services	\$	\$	\$	
Operating Expenses	\$364,095	\$69,480	\$69,480	Reimbursement to contractor for purchase of equipment
Grants	\$	\$	\$	
<b>Total</b>	\$364,095	\$69,480	\$69,480	
<b>Revenues:</b>				
State Funds:	\$	\$	\$	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$	\$	\$	
(Direct Costs)	\$	\$	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source Federal Direct Assignments of Payment-farm contracts)	\$364,095	\$69,480	\$69,480	
<b>Total</b>	\$364,095	\$69,480	\$69,480	
<b>Appropriation No:</b>	2200040000		<b>Amount:</b>	\$503,055
			<b>Total</b>	\$503,055

MAR 29 2012

Farmers with Assignment of Payments to the Agency of Agriculture for the AGO Monitoring and Evaluation Project

Wayne Fiske  
2534 Durkee Road  
Highgate Center, VT 05459

Shelburne Farms  
1611 Harbor Road  
Shelburne, VT 05482

North Williston Cattle Inc  
347 Fay Lane  
Williston, VT 05495

Woodnotch Farms Inc  
245 Barnum Hill Road  
Shoreham, VT 05770

Kimball Brook Farm LLC  
128 Bay View Road  
North Ferrisburg, VT 05473

Deer Flats Farm LLC  
1290 VT Route 30  
West Pawlet, VT 05775





## MEMORANDUM

TO: Jeb Spaulding  
Agency of Administration

FROM: Laura DiPietro  
Agency of Agriculture, Food & Markets

DATE: March 24, 2012

SUBJECT: AGO Agricultural Practice Monitoring Project

This project is to install agricultural best management practices which will be monitored in the field to determine the beneficial water quality impacts the practices are capable of. This project has been broken into 2 phases. Phase 1 has been approved by JFO (#2537) and is contracted with the help of BGS between Vermont Agency of Agriculture, Food & Markets (VAAFAM) and Stone Environmental Inc. This request is to accept the funding for phase 2 which will also be awarded to Stone Environmental Inc. Stone was selected through a RFP process that included both phases.

### Contracted

Phase 1: Architectural & Engineering (A&E) Contract to develop a Quality and Assurance Project Plan (QAPP), do the site characterization, design the water quality monitoring stations and oversee the construction of the stations (NOTE construction cannot begin until Phase 2 is contracted because the funds to purchase the equipment are in P2). The total of this phase is \$71,410. A grant of \$70,000 has already been provided to VAAFAM from the USDA Natural Resource Conservation Service (NRCS), which included approval by the Governor's office, Joint Fiscal Committee and the Office of Finance and Management. The remaining \$1,410 will come from the VAAFAM Best Management Practices fund.

### Requested

Phase 2: This phase will be a change order to the first A&E contract with the same contractor selected from the primary RFP process. This phase will span 3 years and includes agronomic practice documentation, purchasing equipment to install the water quality monitoring stations, calibration of the installed equipment, water sample and site specific data collection, treatment application, routine facility maintenance, sample analysis, database development, statistical analysis and data interpretation, project communication, practice evaluation, site decommissioning, and reporting. There are 2 sources of funding that still need approval by the Governor's office, Joint Fiscal Committee and the Office of Finance and Management. One source is \$350,000 from the Great Lakes Fishery Commission (GLFC) funding from the Lake Champlain Basin Program (LCBP) and the New England Interstate Water Pollution Control Commission (NEIWPC), and the other is \$503,055 coming directly out of farmer federal Environmental Quality Incentive Program (EQIP) contracts through direct assignments.

The total cost of the project is expected to be \$976,042. The total funding available for the project is \$923,055 cash and \$52,987 in in-kind matches from VAAFMM and the Vermont Department of Environmental Conservation (DEC). There is an opportunity for VAAFMM and the DEC to provide an additional \$100,000 in in-kind matches through laboratory sample analysis and data collection tasks should there be cost-overruns or changes in the scope of work.

AGO Agricultural Water Quality Monitoring Project

	Total Costs	PHASE 1	PHASE 2		
	All 3 years	A&E	Direct Assignments	GLFC	In-kind
<b>monitoring design by paired site</b> - includes site characterization and study design, soil sampling, drainage area delineation, and flow prediction modeling	\$ 28,268	\$ 26,858			\$ 1,410
<b>quality assurance plan development</b>	\$ 6,397	\$ 6,397			
<b>equipment and materials (including maintenance)</b> - includes equipment purchase, monitoring supplies, non-routine maintenance, mileage, and incidentals	\$ 221,893		\$ 221,893		
<b>installation (A&amp;E)</b> - includes project kick-off meeting with landowner, monitoring facility design, and construction oversight	\$ 36,745	\$ 36,745			
<b>installation</b> - monitoring facility construction	\$ 32,106		\$ 32,106		
<b>decommissioning</b> - includes removing all equipment and any necessary site restoration	\$ 11,332		\$ 5,876	\$ 5,456	
<b>monitoring costs (data collection and sample delivery)</b> includes sample collection and routine maintenance of the monitoring facility	\$ 301,223		\$ 243,180	\$ 58,043	
<b>sample analysis</b>	\$ 114,576			\$ 62,999	\$ 51,577
<b>watershed and practice data collection</b>	\$ 20,300			\$ 20,300	
<b>database development</b>	\$ 5,242			\$ 5,242	
<b>data management</b> - includes data entry, analysis, and QA/QC	\$ 88,024			\$ 88,024	
<b>meetings</b> - semi-annual meetings with PAC	\$ 16,189			\$ 16,189	
<b>meetings</b> - annual presentations to TAC	\$ 7,975			\$ 7,975	
<b>practice evaluation</b>	\$ 8,261			\$ 8,261	
<b>reporting</b> - includes project communication, preparation of annual and final reports	\$ 77,510			\$ 77,510	
<b>total project costs</b>	<b>\$ 976,042</b>	<b>\$ 70,000</b>	<b>\$ 503,055</b>	<b>\$ 350,000</b>	<b>\$ 52,987</b>

## Vermont Agricultural Best Management Practice Monitoring and Evaluation Project Work Plan

Under the America's Great Outdoors Initiative (AGO) NRCS Vermont is working with farmers and partners to establish seven edge of field water quality monitoring stations. The purpose of the monitoring is to evaluate the effectiveness of selected agricultural best management practices (BMP's) for a period of at least 3 years. Using this new practice standard, water quality monitoring stations will be installed at the edge of fields prior to BMP implementation to collect baseline data. Samples will continue to be collected for a number of years following practice implementation (e.g., cover crops, soil aeration on hayland, and water and sediment control basin) to evaluate their effectiveness in trapping and/or removing sediments and nutrients prior to entering surface waters.

Data on the effectiveness of these BMPs will allow us to better focus our resources on those conservation systems that are most effective in addressing runoff and associated nutrient and sediment losses. This data is needed to strategically align conservation planning and financial assistance programs with those practices that provide the greatest benefit in our landscape. The information could also be used as input into phosphorus tracking systems, TMDL formulation, and for future computer modeling.

**Study Design:** For this monitoring study there will be six sites with paired watershed designs, and one site with an in-line sampling design. At every site total event discharge, event mean concentration, and event export data will be collected and/or computed for each monitored event. At the start of the treatment period, a change in management is applied to the treatment watershed, while the control watershed remains in the original management. The basis of the paired-watershed approach is that there is a quantifiable relationship (i.e., a linear regression model) between paired data from the watersheds (calibration) and that this relationship is valid until a change is made in one of the watersheds (treatment). At that time, a new relationship will exist. The difference between the calibration and treatment relationships is used to evaluate and quantify the effect of treatment. For in the in-line treatment, no experimental treatment will be applied to the watershed draining into the WASCoB, instead sampling will be performed at the inlet and outlet of the structure to test the before and after treatment conditions.

**QAPP Development and Approval:** A QAPP will be developed using the Environmental Protection Agency Requirements for QA Project Plans (QA/R-5). The contractor submitted a response to the Request for Proposals (RfP) posted for the Agricultural Practice Monitoring and Evaluation Project, the QAPP should include all elements from the RfP. The QAPP should be sent to VAAFM and the Lake Champlain Basin Program for approval. The QA Project Plan is divided into four basic element groups: Project Management; Data Generation and Acquisition; Assessment and Oversight; and Data Validation and Usability. Each group consists of standard elements, 24 in all, that pertain to various aspects of the project. A QA Project Plan that addresses the basic elements will define and describe the following:

- who will use the data;
- what the project's goals/objectives/questions or issues are;
- what decision(s) will be made from the information obtained;
- how, when, and where project information will be acquired or generated;
- what possible problems may arise and what actions can be taken to mitigate their impact on the project;

- what type, quantity, and quality of data are specified;
- how “good” those data have to be to support the decision to be made; and
- how the data will be analyzed, assessed, and reported.

**Site Characterization:** Basic characterization data will be collected for each field/watershed. A topographic survey will be done using an autolevel and stadia rod. Surface elevation data will be tied to a temporary benchmark with an assumed elevation. The drainage boundary of each field will be delineated with a sub-meter GPS. Where available, LIDAR-based topographic data will be used as an ancillary dataset to refine drainage boundaries and set benchmarks in the field.

The general physical and chemical properties of soils in the selected fields will be evaluated through laboratory analysis. Soil samples from the 0-15 cm depth will be collected in each field at nodes in a sampling grid. Samples will be analyzed for pH and available P, K, Mg, Ca, Fe, Mn, and Zn following extraction in modified Morgan solution. Organic matter will be quantified by the loss on ignition method and reported in Walkley-Black method equivalents. Soil particle size will be analyzed by wet sieving and the hydrometer method.

Using the drainage areas, soils data, topographic data, and known rainfall frequencies and depths, rainfall-runoff modeling will be performed for each field using standard NRCS methods (i.e., TR-55 model). Predicted runoff volumes will be used to guide monitoring station construction, primarily to size flumes.

**Agronomic Practice Documentation:** It is assumed that for each study watershed, a record of agricultural management practices with dates applied will be developed and maintained by the Vermont Association of Conservation Districts (VACD) under separate direction from AAFM. It will be essential that VACD collects agricultural management information on a regular basis and shares it promptly with the Project Team.

In addition, the Project Team will be recording onsite observations and discussions with the farmer and capturing still images using time-lapse cameras. Taken together, these datasets will allow the Project Team to develop a chronology for each study field that includes descriptions and dates of planting, tillage, aeration, corn harvest or hay mowing, manure application/injection (source, rate, and date), mineral fertilizer application (type, rate, and date), and other important events, as appropriate. Field condition images recorded at least daily by the time-lapsed cameras will be used to verify management actions and dates where there are any questions and will aid in interpretation of the flow and pollutant transport data.

**Monitoring Facility Design and Construction:** The contractor will use commercially available monitoring systems manufactured and sold by companies that will be able to provide robust and ongoing technical support.

A simple meteorological station (Onset HOBO®) will be installed at each participating farm for the continuous monitoring of rainfall and air temperature. Precipitation and temperature data will be used to characterize and contrast hydrofobic events across monitoring stations and seasons. Temperature data will be used to establish whether recorded precipitation likely fell as rain or snow.

Air temperature will be recorded as hourly and daily, minimum, maximum and average values throughout the study period. The temperature sensor will be housed in an appropriate solar radiation shield. A tipping bucket rain gage will be installed above the maximum crop canopy level. Every tip, marking accumulation of 0.2 mm of rainfall, will be recorded in memory with a time stamp. Continuous

precipitation monitoring will be supplemented by an inexpensive, manual rain gage located at each site as a backup.

The primary hydraulic device used at each runoff monitoring station will be an appropriately-sized H-flume manufactured by Tracom, unless potential tailwater problems are anticipated based on topographic survey at the watershed outlet. If tailwater problems (which can result in submergence of the flume and invalidation of stage data) cannot be avoided through optimum flume placement and through trenching below the flume outlet, a flume more tolerant of submerged conditions will be installed, such as the HXL flume recently developed by researchers at the University of Wisconsin-Platteville. Each flume will be bolted to a manifold made from a  $3/4$ -inch plywood sheet, which will be partially buried such that the flume entrance is level with the ground. Plywood wingwalls will be installed as needed to direct flow into the flume. Through the life of the monitoring phase, the flume will be kept level using a system of threaded adjustable rods and shims.

An ultrasonic water level sensor (ISCO 2110 Ultrasonic Flow Module) will be installed in each flume to continuously measure stage (water level). Level data will be converted to flow rate based on the established hydraulic properties of the flume. These data will be used for generation of runoff event hydrographs and in calculation of pollutant transport rates. Averaged level data will be logged at approximately three-minute intervals on a connected Interface Module (ISCO 2105-Ci Interface Module).

Also connected to the ISCO 2105-Ci Interface Module will be an ISCO 6712 autosampler. The autosampler will be programmed to pump runoff water on a flow proportional basis into bulk (12 L) sample containers. To minimize the occurrence of under-sampling and overfilling, a two-part program will be used whereby the autosampler pumps sample to two containers at different intervals of accumulated flow. One bottle is intended to capture a representative runoff sample from small to medium sized events and a second bottle is intended to capture the medium to large events. The second bottle will be filled at approximately  $1/10^{\text{th}}$  the frequency of the first bottle. If the capacity of bottle 1 is exceeded, the sample will be rejected and bottle 2 will be used instead. If the capacity of bottle 1 is not exceeded, bottle 1 will be used and any sample in bottle 2 will be discarded. To double the container volume available for very large runoff events, a third bottle may be filled at the same flow pacing interval as bottle 2 after bottle 2 is filled. If this overflow bottle is used, samples from both bottles 2 and 3 will be submitted for analysis to allow calculation of event mean concentrations at a later date. Using this sampling program, most small storms will provide sufficient sample (approximately 1.5 L is required) to perform the requested analyses and most large storms will not exceed the container capacity; runoff events varying in size by more than a factor of 100 can be representatively and automatically sampled.

In addition to optimizing the autosampler program as described above, sampler pacing settings will be adjusted seasonally and in advance of major predicted storms, with the intent of representatively sampling every runoff-producing storm. Adjustment to the program to increase or decrease the sampling frequency will be made either by direct connection or via remote access.

After each monitored storm event, field technicians will collect subsamples from the appropriate bulk sample bottle for delivery to the Vermont DEC laboratory. The entire volume of collected sample in bottle 1 or bottle 2 will be poured into a 14-L polyethylene churn splitter, a device that consistently agitates the water to deliver representative subsamples from a spigot. A dedicated churn splitter will be stored in each instrument shelter and will be decontaminated after each use. The subsamples will be

collected in containers provided by the DEC laboratory.

Using the ISCO 2105-Ci Interface Module with integral IP modem, we expect that two-way remote communication will be possible at all monitoring locations. The hydrologic and sampling data from each station will not need to be called up and downloaded but will rather be pushed at approximately 15-minute intervals to a common server maintained by the Contractor, at which point the data will be directly viewable on a customized web site. Battery voltage data will also be pushed to the server. The ability to view station status and monitoring data in near-real time, on any computer with internet access, will enhance both the scientific quality of the data (by enabling earlier detection of instrument malfunctions and power losses and remote changes in instrument programming) and the dissemination of data to all approved parties. The 2105-Ci units will also be programmed to send text messages to each sampling team to notify them that a runoff event is in progress, which will improve staff response time. Finally, we will have the capability of changing nearly any part of the instrument programming from our offices, which will be particularly useful in adjusting sampler pacing based on weather forecasts and resolving instrument malfunctions.

Based on the Verizon cellular telephone reception found at five of the sites, we expect two-way remote communications will be possible at five of the farms with no additional hardware and a relatively inexpensive data plan (\$10/month per station). However, cellular telephone reception at the Franklin site is very poor. We expect to be able to establish reliable communication despite the poor reception at the field and WASCob (water and sediment control basin) stations in Franklin by using powerful antennas. If this is insufficient, a combination of a network extender and repeaters may be needed. As a backup, logged data at any station may be downloaded to a laptop computer using a data cable.

Each station will be powered by a Kyocera KD135GX 135-Watt solar panel and two 12-volt deep cycle marine batteries connected in parallel. The autosampler, ultrasonic level module, interface module, solar power charge controller, batteries, samples bottles, and churn splitter will be housed in a secure instrument shelter.

To measure water temperature and conductivity of the runoff stream, a HOB0® Conductivity meter will be used. The Data Logger will be installed in a trough in the runoff channel below the flume. These data will be downloaded onsite using a waterproof shuttle device and brought into the project database.

Monitoring will occur on up to 20 runoff events (weather permitting) each year of the study. An effort will be made to extend the traditional monitoring (ice-free) season to April 1 - November 30, weather depending, by covering flumes and sample lines in an insulated housing. At the WASCob (Franklin), reduced tillage/manure injection (Franklin and Williston), and cover crop-only (Pawlet) treatment sites, a limited program of winter/early spring thaw event sampling will be undertaken. These practices were identified for winter and early spring monitoring because of the interest in quantifying reductions in sediment and nutrient export attributable to these practices outside of the growing season. At these sites, flow monitoring will be continued through the winter months and a three-bottle, multi-stage, passive siphon sampler array will be placed adjacent to each flume. The siphon samplers will draw water from intake tubes secured at three levels on the sidewall of each flume. These winter and early spring data will be used to assess the magnitude of nutrient and sediment transport during this period relative to the other eight months of the year, but they will not be used together in statistical models with the composite sample data.

**Study Implementation:** Farms are under contract through NRCS to participate in the project for a



three-year period. The conservation and monitoring practices will be implemented in a manner consistent with current NRCS practice standards. A monitoring station will be constructed at the outlet of each paired field/watershed. To evaluate the effectiveness of the WASCoB, similar monitoring stations will be installed above and below the WASCoB.

**Initial Calibration Period:** Calibration of the paired watersheds is required to develop the quantitative relationship between the control and treatment areas that will permit subsequent detection of treatment effects at a known level of confidence. Furthermore, monitoring during the calibration period of one to two years (depending on weather), will allow quantification of pollutant loads in runoff under current management practices. The calibration period will be considered complete when statistical analysis demonstrates reasonably strong regression relationships between paired sediment and nutrient concentration and export data, with regression error small enough to permit detection of anticipated changes in concentration and export. See Statistical Analysis, below, for more information. Adequacy of calibration will be assessed using statistical techniques of the paired-watershed analysis (Grabow et al. 1998). After this point, the land treatments may be implemented.

**Treatment Application:** The effects of three field conservation practices (or "treatments") will be evaluated using the paired watershed design, while the effect of the WASCoB (NRCS Practice 638, national version) will be evaluated by comparing pollutant concentrations and mass transport entering and leaving the structure. Evaluation of the field practices, but not of the WASCoB, will necessitate a prescribed change in management of one field in each pair while management of the remaining field remains consistent for the duration of the study. When the Project Team has sufficient data to develop an acceptable statistical relationship between each watershed pair, they will inform the project partners and participating farmer that the treatment phase may begin.

Overall, the calibration period is expected to be complete within one to two years from the start of monitoring and the treatment period to be the balance of the planned three-year study. This timeframe assumes relatively normal rainfall patterns without extended droughts. Insufficient rainfall and/or problems implementing the conservation treatments may necessitate extending the monitoring period at any given site beyond three years to obtain adequate data for meaningful evaluation.

AAFM will be responsible for ensuring conservation practices are implemented per the appropriate NRCS practice standards. The field practices that will be evaluated are as follows:

- Three paired watershed projects testing soil aeration on hayland with manure applications. The three farms are located in Shoreham and Ferrisburg in Addison County, and Shelburne in Chittenden County.
- Two paired watershed projects testing reduced tillage with manure injection. One of these farms is in the town of Franklin in Franklin County and the other is in the town of Williston in Chittenden County.
- One paired watershed projects testing cover cropping. This farm is in the town of Pawlet in Rutland County.
- One in line project testing a water and sediment control basin. This project is the only one that is not anticipated to be a paired watershed design and instead will sample above and below the treatment area. This project is in Franklin County on the same farm that is testing reduced tillage with manure injection.

No aeration will be performed in the treatment fields until calibration has been achieved. During the treatment period, aeration will be performed in the treatment watersheds prior to each manure application. In certain cases the Project Team will recommend which field in a watershed pair should be aerated. If there is not a scientific reason to select one watershed for treatment, AAFM or the farmer

may choose based on their own considerations.

Conventional tillage, surface manure application, and no fall-seeded cover crop are assumed to be the typical management practices on the study cornfields Pawlet. These practices will be continued through the calibration period. During the treatment period, the Pawlet farm will continue to practice conventional tillage and surface manure application, but will plant a cover crop shortly following corn harvest. Given the time necessary to instrument monitoring stations and the need to collect all data in accordance with an approved QAPP, it may be necessary to delay planting of a cover crop until after harvest in 2013, in order to obtain data in both spring and fall periods without a cover crop present. The Project Team may need to continue the monitoring program through the late fall of 2014 to provide sufficient post-treatment data for the cover crop treatment.

The existing practices at the Williston and Franklin sites are assumed to include conventional tillage, surface manure application, and no cover cropping of corn land. The Vermont version of the reduced tillage practice standard (NRCS Practice 329) indicates that a cover crop must be planted if the crop residue level is low. The standard specifically requires: "Low residue row crops such as silage corn must have a winter cover crop established." Therefore, the applicable experimental treatment at the Franklin and Williston sites is a combination of reduced tillage, manure injection, and a winter cover crop. Evaluation will include the combined effect of these practices; no data will be produced at these sites on the individual effectiveness of the component practices. It is possible that adequate calibration will be achieved in 2012. Reduced tillage/manure injection treatments could then be implemented in spring 2013, although beginning the treatment period following the 2013 growing season is more likely.

In quantifying the effectiveness of conservation practices, timing is more critical for the reduced tillage/manure injection and the cover cropping treatments than for the hayland aeration treatment. The periods when the cover cropping and reduced tillage/manure injection practices are expected to be most effective are during the critical erosion periods before a crop canopy develops in the spring and after corn harvest in the fall. Conversely, the effectiveness of the hayland aeration treatment can be successfully assessed from approximately late May through November. Because evaluation of the cover cropping and reduced tillage/manure injection treatments is more constrained, there may need to be an extended monitoring period at the Franklin, Williston, and Pawlet sites.

No experimental treatment will be applied in the watershed draining to the WASCoB. Agricultural management of the WASCoB drainage area will be documented in the same way as the field treatment watersheds, however management will not be prescribed beyond requesting that the drainage area continue to receive typical agronomic rates of manure and/or mineral fertilizer application through the study period and that these actions be fully documented.

**Sample Collection and Routine Facility Maintenance:** There are considerable challenges in meeting the demands of operating monitoring stations sampling transient events across a wide geographic area. The Project Team includes four, location-specific monitoring teams, each with an experienced, dedicated team leader. The team leader will be responsible for ensuring that someone is always available for sample collection, drawing on VACD staff and Project Team staff as appropriate. Each team will be responsible for sample collection and routine facility maintenance for their assigned stations. Routine maintenance will include:

- downloading the HOBO® data loggers (precipitation / air temperature and conductivity / water temperature)
- checking/cleaning the tipping bucket funnel, the solar panel, and the sample intake tubing and screen

- cleaning the ultrasonic level sensor and conductivity sensor and recalibrating if necessary
- checking/replacing instrument desiccant
- checking/servicing batteries
- verifying that the flume is level
- clearing vegetation from around the stations
- checking for erosion and rodent holes near the flume approach and wingwalls

Occasionally station maintenance needs will be beyond that which the team leader can provide. The contractor will be available throughout the duration of the project to assist team leaders in ensuring that significant issues are addressed as they arise and facilities are brought back online after any upsets as soon as is practicable.

The contractor will coordinate the efforts of and collaboration between the location-specific monitoring teams in order to achieve a consistent, coordinated effort. The contractor will also be responsible for ensuring that each team leader has access to the necessary staff resources and for coordinating the periodic delivery of samples to the Vermont DEC laboratory.

**Sample Analysis:** Water samples from both the regular and the winter/early spring monitoring periods will be split in the field using a churn splitter to provide subsamples for analysis by the DEC laboratory. Using sample containers provided by the DEC laboratory, sample splits will be made for the following parameters: TP, TDP, TN, TDN, TSS, and chlorides. A minimum of 10% additional field QC samples will be added. Subsamples intended for TDP and TDN analyses will be filtered (0.45- $\mu$ m pore size membrane) immediately in the field. Appropriate preservatives will be added as necessary and the samples will be stored on ice or refrigerated until transfer to the laboratory within seven days of collection (seven days is the shortest holding time among the analytes after the field processing steps described). These steps will simplify the logistics of delivery of samples to the laboratory, particularly from events that are sampled outside of normal business hours. The DEC laboratory will use their approved methods and QA/QC procedures to perform the required analyses, at no cost to the Project Team. Samples will typically be delivered to the laboratory by courier service.

#### **Data Management and Analysis**

**Database Development:** In order to facilitate effective and efficient analysis, a database will be built that manages all pertinent field data. A single relational database (Microsoft Access or similar) will be designed and used for the storage and management of farm management practice data, weather data (temperature and rainfall), hydrologic data (runoff level and flow rate), runoff temperature and specific conductance, autosampler logs, and analytical results. Automated routines will be developed within the database for importing continuously collected records (air temperature, rainfall, water temperature, specific conductance, runoff level, and flow rate) to the greatest extent possible.

**Statistical Analysis:** The data set used for the primary statistical analyses will include total event discharge ( $m^3$ ), event mean concentration (mg/L), and total event load (kg) for each monitored constituent for each event at each monitored location. Basic descriptive statistics, pair-wise comparisons, and exploratory data analysis will be conducted on this data set.

For the paired-watershed sites, changes in event discharge, event mean concentration, and event mass export in response to treatment will be tested using analysis of covariance (ANCOVA). ANCOVA compares two groups of data (e.g., calibration and treatment) while adjusting for changes in explanatory

variables using a combination of analysis of variance and regression. In the paired-watershed design, data from the control watershed are used to account for the effects of year-to-year weather variations on the variables of interest, in this case event discharge and TP, TDP, TN, TDN, CI, and TSS concentration and export. For a given variable of interest in a treatment watershed, the explanatory variable (covariate) is the same variable observed concurrently in the control watershed. Calibration and treatment period regressions between treatment and control watersheds will be tested for significant differences in slope, intercept, or both by analysis of variance of regression coefficients; differences in water quality data between the calibration and treatment periods will be deemed significant if the slope and/or intercept of the regressions differ at  $P < 0.10$ . The magnitude of treatment effect (e.g., the percent reduction due to the application of the new management) is assessed by comparing the value (e.g., event TP export) predicted from the calibration regression to that predicted from the post-treatment regression at the mean or median value observed in the control watershed during the post-treatment period.

For the WASCoB site, effects of treatment will be evaluated based on an input/output comparison (e.g., t-Test), both for individual events and over the entire monitoring period.

***Project Communication and Reporting:*** The scope, scale, and anticipated level of interest in the project will necessitate a high level of routine communication between all involved parties.

***Landowners:*** Because each project site will receive approximately 40 project-related visits annually, regular communication with the farm owner will be essential. Monitoring team leaders will be in regular contact with landowners, keeping them apprised of project progress. Further, having a dedicated team leader for each site means that the landowner will always know "who to call" if questions or concerns about the project should arise.

Current and ongoing information about farm management activities (e.g., tillage, planting, and manure application rate and timing) is essential to the overall monitoring effort. It is especially critical that BMP implementation activities in the treatment watershed and the continuation of conventional management in the control watershed are well-documented. This background information will be collected by personnel from VACD, with communication and feedback from the Project Team. Once project sites are established and monitoring systems installed, it is anticipated that it will be simplest for the monitoring team leaders to periodically discuss farm management activities as needed with the landowner while on site.

***Project Team:*** Contractors are required to notify the State of changes to the project team (additions or deletions); resumes for the new project team members must be submitted within two weeks of such a change.

***Project Advisory Committee:*** The Project Team will work with AAFM to establish a Project Advisory Committee (PAC). It is anticipated that the PAC will include personnel from NRCS, USGS, AAFM, ANR, the Lake Champlain Basin Program, landowners, and others with an expressed interest in the project. The PAC will provide advice on major project decisions or proposed modifications, such as: reviewing final fine-scale site selection; monitoring facility design and sampling plan; developing strategies for managing the implementation of management practices; and evaluating contingencies and specific problems as they arise. PAC meetings will be scheduled approximately semi-annually, with more frequent meetings likely at the beginning of the project. A final PAC meeting will be held to convey results and conclusions. It is also anticipated that PAC members will play an important role in disseminating and communicating project results to the public.

The Project Team will also make itself available for an annual presentation to the Lake Champlain Basin Program Technical Advisory Committee.

**Practice Evaluation and Site Decommissioning**

**Practice Evaluation:** In consultation with AAFM and NRCS, the Project Team will suggest any potential modifications to conservation practice implementation requirements, based on the efficacy of the practices as implemented on the participating farms. Where the same practice is implemented on more than one farm, pollutant reductions due to treatment may be compared and contrasted.

**Site Decommissioning:** At the conclusion of the study, the Project Team will work with the farm owner and AAFM to determine whether the monitoring stations should be decommissioned or left in place to support future study. Should the farm owner wish to decommission the monitoring site(s), the Project Team will remove the equipment and return it to the farmer and restore the monitoring sites to their pre-project condition.

**Annual and Final Reports:** A succinct annual report will be prepared and delivered to AAFM which will be shared with LCBP by February 15<sup>th</sup> of each year. The annual report will focus on the evaluation and interpretation of data collected during the preceding field season.

A more detailed final report covering all aspects of the monitoring effort will be prepared. This will include site characterization, data collection and analysis, challenges faced, lessons learned and an evaluation of the effectiveness of the BMPs in reducing P and sediment losses. Maps and figures will be developed to assist AAFM in sharing project results with the public in a manner that also protects the privacy of the participating farms.

**Project Timeline and Deliverables**

Description	Timeline	Deliverable
Study Design and Site Characterization	March 31, 2012	Plan for which fields will be included in study and specific locations of monitoring stations based on field assessments
QAPP	March 31, 2012	Approved QAPP from NEIWPC
Agronomic Practice Documentation	March 31-December 15 each year (2012,2013,2014)	Recorded details about the farm field management practices and the implementation of the conservation practices.
Monitoring Facility Design and Construction	April 30, 2012	Complete installation of all monitoring equipment at each of the 7 field locations.
Initial Calibration and Treatment Application	April 30, 2012-December 2014	When statistics are sufficient for calibration, the treatment applications will begin for the paired watershed sites,

		expected to be ready in year 2. Treatment applications will be continued throughout the project.
Sample Collection and Facility Maintenance	April 30, 2012-December 2014	Sample collections will occur on at least 20 events each year and maintenance will be as needed throughout the monitoring period.
Sample Analysis	April 30, 2012-December 2014	Samples will be collected and sent to the DEC laboratory throughout the monitoring period.
Data Management and Analysis	April 30, 2012-December 2014	A database to track all pertinent monitoring system information will be developed and utilized throughout the monitoring period. The results will be looked at periodically to ensure the monitoring system is operating as intended. At the completion of the monitoring period each year and at the end of the 3 years the data collected will be analyzed to determine the effectiveness of the BMPs in relation to the variables that were tested.
Reporting	April 30, 2012-December 2014	The contractor will provide annual and a final report demonstrating the BMP effectiveness findings, and provide a presentation to the LCBP TAC.

**Project Budget:** The \$350,000 GLFC funding will be matched with \$491,166 which will include USDA NRCS Architectural and Engineer funding, farmer funds directly appropriated from the USDA NRCS Environmental Quality Incentives Program contracts, the Vermont DEC and Agency of Agriculture match assistance for laboratory analysis and data collection.

AGO Agricultural Water Quality Monitoring Project

	Total Costs	PHASE 1	PHASE 2		
	All 3 years	A&E	Direct Assignments	GLFC	In-kind
monitoring design by paired site - includes site characterization and study design, soil sampling, drainage area delineation, and flow prediction modeling	\$ 28,268	\$ 26,858			\$ 1,410
quality assurance plan development	\$ 6,397	\$ 6,397			
equipment and materials (including maintenance) - includes equipment purchase, monitoring supplies, non-routine maintenance, mileage, and incidentals	\$ 221,893		\$ 221,893		
installation (A&E)- includes project kick-off meeting with landowner, monitoring facility design, and construction oversight	\$ 36,745	\$ 36,745			
installation - monitoring facility construction	\$ 32,106		\$ 32,106		
decommissioning - includes removing all equipment and any necessary site restoration	\$ 11,332		\$ 5,876	\$ 5,456	
monitoring costs (data collection and sample delivery), includes sample collection and routine maintenance of the monitoring facility	\$ 301,223		\$ 243,180	\$ 58,043	
sample analysis				\$ 63,000	\$ 51,576
watershed and practice data collection	\$ 20,300			\$ 20,300	
database development	\$ 5,242			\$ 5,242	
data management - includes data entry, analysis, and QA/QC	\$ 88,024			\$ 88,024	
meetings - semi-annual meetings with PAC	\$ 16,189			\$ 16,189	
meetings - annual presentations to TAC	\$ 7,975			\$ 7,975	
practice evaluation	\$ 8,261			\$ 8,261	
reporting - includes project communication, preparation of annual and final reports	\$ 77,510			\$ 77,510	
<b>total project costs</b>	<b>\$ 841,166</b>	<b>\$ 70,000</b>	<b>\$ 503,055</b>	<b>\$ 350,000</b>	<b>\$ 52,986</b>

**STATE OF VERMONT**  
**FINANCE & MANAGEMENT GRANT REVIEW FORM**

Sent To Joint Fiscal Office

Date

4/4/12



Farmers with Assignment of Payments to the Agency of Agriculture for the AGO Monitoring and Evaluation Project

Wayne Fiske  
2534 Durkee Road  
Highgate Center, VT 05459

Shelburne Farms  
1611 Harbor Road  
Shelburne, VT 05482

North Williston Cattle Inc  
347 Fay Lane  
Williston, VT 05495

Woodnotch Farms Inc  
245 Barnum Hill Road  
Shoreham, VT 05770

Kimball Brook Farm LLC  
128 Bay View Road  
North Ferrisburg, VT 05473

Deer Flats Farm LLC  
1290 VT Route 30  
West Pawlet, VT 05775

## Vermont Agricultural Best Management Practice Monitoring and Evaluation Project Work Plan

Under the America's Great Outdoors Initiative (AGO) NRCS Vermont is working with farmers and partners to establish seven edge of field water quality monitoring stations. The purpose of the monitoring is to evaluate the effectiveness of selected agricultural best management practices (BMP's) for a period of at least 3 years. Using this new practice standard, water quality monitoring stations will be installed at the edge of fields prior to BMP implementation to collect baseline data. Samples will continue to be collected for a number of years following practice implementation (e.g., cover crops, soil aeration on hayland, and water and sediment control basin) to evaluate their effectiveness in trapping and/or removing sediments and nutrients prior to entering surface waters.

Data on the effectiveness of these BMPs will allow us to better focus our resources on those conservation systems that are most effective in addressing runoff and associated nutrient and sediment losses. This data is needed to strategically align conservation planning and financial assistance programs with those practices that provide the greatest benefit in our landscape. The information could also be used as input into phosphorus tracking systems, TMDL formulation, and for future computer modeling.

**Study Design:** For this monitoring study there will be six sites with paired watershed designs, and one site with an in-line sampling design. At every site total event discharge, event mean concentration, and event export data will be collected and/or computed for each monitored event. At the start of the treatment period, a change in management is applied to the treatment watershed, while the control watershed remains in the original management. The basis of the paired-watershed approach is that there is a quantifiable relationship (i.e., a linear regression model) between paired data from the watersheds (calibration) and that this relationship is valid until a change is made in one of the watersheds (treatment). At that time, a new relationship will exist. The difference between the calibration and treatment relationships is used to evaluate and quantify the effect of treatment. For in the in-line treatment, no experimental treatment will be applied to the watershed draining into the WASCoB, instead sampling will be performed at the inlet and outlet of the structure to test the before and after treatment conditions.

**QAPP Development and Approval:** A QAPP will be developed using the Environmental Protection Agency Requirements for QA Project Plans (QA/R-5). The contractor submitted a response to the Request for Proposals (RfP) posted for the Agricultural Practice Monitoring and Evaluation Project, the QAPP should include all elements from the RfP. The QAPP should be sent to VAAFM and the Lake Champlain Basin Program for approval. The QA Project Plan is divided into four basic element groups: Project Management; Data Generation and Acquisition; Assessment and Oversight; and Data Validation and Usability. Each group consists of standard elements, 24 in all, that pertain to various aspects of the project. A QA Project Plan that addresses the basic elements will define and describe the following:

- who will use the data;
- what the project's goals/objectives/questions or issues are;
- what decision(s) will be made from the information obtained;
- how, when, and where project information will be acquired or generated;
- what possible problems may arise and what actions can be taken to mitigate their impact on the project;

- what type, quantity, and quality of data are specified;
- how “good” those data have to be to support the decision to be made; and
- how the data will be analyzed, assessed, and reported.

**Site Characterization:** Basic characterization data will be collected for each field/watershed. A topographic survey will be done using an autolevel and stadia rod. Surface elevation data will be tied to a temporary benchmark with an assumed elevation. The drainage boundary of each field will be delineated with a sub-meter GPS. Where available, LiDAR-based topographic data will be used as an ancillary dataset to refine drainage boundaries and set benchmarks in the field.

The general physical and chemical properties of soils in the selected fields will be evaluated through laboratory analysis. Soil samples from the 0-15 cm depth will be collected in each field at nodes in a sampling grid. Samples will be analyzed for pH and available P, K, Mg, Ca, Fe, Mn, and Zn following extraction in modified Morgan solution. Organic matter will be quantified by the loss on ignition method and reported in Walkley-Black method equivalents. Soil particle size will be analyzed by wet sieving and the hydrometer method.

Using the drainage areas, soils data, topographic data, and known rainfall frequencies and depths, rainfall-runoff modeling will be performed for each field using standard NRCS methods (i.e., TR-55 model). Predicted runoff volumes will be used to guide monitoring station construction, primarily to size flumes.

**Agronomic Practice Documentation:** It is assumed that for each study watershed, a record of agricultural management practices with dates applied will be developed and maintained by the Vermont Association of Conservation Districts (VACD) under separate direction from AAFM. It will be essential that VACD collects agricultural management information on a regular basis and shares it promptly with the Project Team.

In addition, the Project Team will be recording onsite observations and discussions with the farmer and capturing still images using time-lapse cameras. Taken together, these datasets will allow the Project Team to develop a chronology for each study field that includes descriptions and dates of planting, tillage, aeration, corn harvest or hay mowing, manure application/injection (source, rate, and date), mineral fertilizer application (type, rate, and date), and other important events, as appropriate. Field condition images recorded at least daily by the time-lapsed cameras will be used to verify management actions and dates where there are any questions and will aid in interpretation of the flow and pollutant transport data.

**Monitoring Facility Design and Construction:** The contractor will use commercially available monitoring systems manufactured and sold by companies that will be able to provide robust and ongoing technical support.

A simple meteorological station (Onset HOBO®) will be installed at each participating farm for the continuous monitoring of rainfall and air temperature. Precipitation and temperature data will be used to characterize and contrast hydrologic events across monitoring stations and seasons. Temperature data will be used to establish whether recorded precipitation likely fell as rain or snow.

Air temperature will be recorded as hourly and daily, minimum, maximum and average values throughout the study period. The temperature sensor will be housed in an appropriate solar radiation shield. A tipping bucket rain gage will be installed above the maximum crop canopy level. Every tip, marking accumulation of 0.2 mm of rainfall, will be recorded in memory with a time stamp. Continuous

precipitation monitoring will be supplemented by an inexpensive, manual rain gage located at each site as a backup.

The primary hydraulic device used at each runoff monitoring station will be an appropriately-sized H-flume manufactured by Tracom, unless potential tailwater problems are anticipated based on topographic survey at the watershed outlet. If tailwater problems (which can result in submergence of the flume and invalidation of stage data) cannot be avoided through optimum flume placement and through trenching below the flume outlet, a flume more tolerant of submerged conditions will be installed, such as the HXL flume recently developed by researchers at the University of Wisconsin-Platteville. Each flume will be bolted to a manifold made from a  $\frac{3}{4}$ -inch plywood sheet, which will be partially buried such that the flume entrance is level with the ground. Plywood wingwalls will be installed as needed to direct flow into the flume. Through the life of the monitoring phase, the flume will be kept level using a system of threaded adjustable rods and shims.

An ultrasonic water level sensor (ISCO 2110 Ultrasonic Flow Module) will be installed in each flume to continuously measure stage (water level). Level data will be converted to flow rate based on the established hydraulic properties of the flume. These data will be used for generation of runoff event hydrographs and in calculation of pollutant transport rates. Averaged level data will be logged at approximately three-minute intervals on a connected Interface Module (ISCO 2105-Ci Interface Module).

Also connected to the ISCO 2105-Ci Interface Module will be an ISCO 6712 autosampler. The autosampler will be programmed to pump runoff water on a flow proportional basis into bulk (12 L) sample containers. To minimize the occurrence of under-sampling and overfilling, a two-part program will be used whereby the autosampler pumps sample to two containers at different intervals of accumulated flow. One bottle is intended to capture a representative runoff sample from small to medium sized events and a second bottle is intended to capture the medium to large events. The second bottle will be filled at approximately  $1/10^{\text{th}}$  the frequency of the first bottle. If the capacity of bottle 1 is exceeded, the sample will be rejected and bottle 2 will be used instead. If the capacity of bottle 1 is not exceeded, bottle 1 will be used and any sample in bottle 2 will be discarded. To double the container volume available for very large runoff events, a third bottle may be filled at the same flow pacing interval as bottle 2 after bottle 2 is filled. If this overflow bottle is used, samples from both bottles 2 and 3 will be submitted for analysis to allow calculation of event mean concentrations at a later date. Using this sampling program, most small storms will provide sufficient sample (approximately 1.5 L is required) to perform the requested analyses and most large storms will not exceed the container capacity; runoff events varying in size by more than a factor of 100 can be representatively and automatically sampled.

In addition to optimizing the autosampler program as described above, sampler pacing settings will be adjusted seasonally and in advance of major predicted storms, with the intent of representatively sampling every runoff-producing storm. Adjustment to the program to increase or decrease the sampling frequency will be made either by direct connection or via remote access.

After each monitored storm event, field technicians will collect subsamples from the appropriate bulk sample bottle for delivery to the Vermont DEC laboratory. The entire volume of collected sample in bottle 1 or bottle 2 will be poured into a 14-L polyethylene churn splitter, a device that consistently agitates the water to deliver representative subsamples from a spigot. A dedicated churn splitter will be stored in each instrument shelter and will be decontaminated after each use. The subsamples will be

collected in containers provided by the DEC laboratory.

Using the ISCO 2105-Ci Interface Module with integral IP modem, we expect that two-way remote communication will be possible at all monitoring locations. The hydrologic and sampling data from each station will not need to be called up and downloaded but will rather be pushed at approximately 15-minute intervals to a common server maintained by the Contractor, at which point the data will be directly viewable on a customized web site. Battery voltage data will also be pushed to the server. The ability to view station status and monitoring data in near-real time, on any computer with internet access, will enhance both the scientific quality of the data (by enabling earlier detection of instrument malfunctions and power losses and remote changes in instrument programming) and the dissemination of data to all approved parties. The 2105-Ci units will also be programmed to send text messages to each sampling team to notify them that a runoff event is in progress, which will improve staff response time. Finally, we will have the capability of changing nearly any part of the instrument programming from our offices, which will be particularly useful in adjusting sampler pacing based on weather forecasts and resolving instrument malfunctions.

Based on the Verizon cellular telephone reception found at five of the sites, we expect two-way remote communications will be possible at five of the farms with no additional hardware and a relatively inexpensive data plan (\$10/month per station). However, cellular telephone reception at the Franklin site is very poor. We expect to be able to establish reliable communication despite the poor reception at the field and WASCoB (water and sediment control basin) stations in Franklin by using powerful antennas. If this is insufficient, a combination of a network extender and repeaters may be needed. As a backup, logged data at any station may be downloaded to a laptop computer using a data cable.

Each station will be powered by a Kyocera KD135GX 135-Watt solar panel and two 12-volt deep cycle marine batteries connected in parallel. The autosampler, ultrasonic level module, interface module, solar power charge controller, batteries, samples bottles, and churn splitter will be housed in a secure instrument shelter.

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**Study Implementation:** Farms are under contract through NRCS to participate in the project for a

three-year period. The conservation and monitoring practices will be implemented in a manner consistent with current NRCS practice standards. A monitoring station will be constructed at the outlet of each paired field/watershed. To evaluate the effectiveness of the WASCoB, similar monitoring stations will be installed above and below the WASCoB.

**Initial Calibration Period:** Calibration of the paired watersheds is required to develop the quantitative relationship between the control and treatment areas that will permit subsequent detection of treatment effects at a known level of confidence. Furthermore, monitoring during the calibration period of one to two years (depending on weather), will allow quantification of pollutant loads in runoff under current management practices. The calibration period will be considered complete when statistical analysis demonstrates reasonably strong regression relationships between paired sediment and nutrient concentration and export data, with regression error small enough to permit detection of anticipated changes in concentration and export. See Statistical Analysis, below, for more information. Adequacy of calibration will be assessed using statistical techniques of the paired-watershed analysis (Grabow et al. 1998). After this point, the land treatments may be implemented.

**Treatment Application:** The effects of three field conservation practices (or "treatments") will be evaluated using the paired watershed design, while the effect of the WASCoB (NRCS Practice 638, national version) will be evaluated by comparing pollutant concentrations and mass transport entering and leaving the structure. Evaluation of the field practices, but not of the WASCoB, will necessitate a prescribed change in management of one field in each pair while management of the remaining field remains consistent for the duration of the study. When the Project Team has sufficient data to develop an acceptable statistical relationship between each watershed pair, they will inform the project partners and participating farmer that the treatment phase may begin.

Overall, the calibration period is expected to be complete within one to two years from the start of monitoring and the treatment period to be the balance of the planned three-year study. This timeframe assumes relatively normal rainfall patterns without extended droughts. Insufficient rainfall and/or problems implementing the conservation treatments may necessitate extending the monitoring period at any given site beyond three years to obtain adequate data for meaningful evaluation.

AAFM will be responsible for ensuring conservation practices are implemented per the appropriate NRCS practice standards. The field practices that will be evaluated are as follows:

- Three paired watershed projects testing soil aeration on hayland with manure applications. The three farms are located in Shoreham and Ferrisburg in Addison County, and Shelburne in Chittenden County.
- Two paired watershed projects testing reduced tillage with manure injection. One of these farms is in the town of Franklin in Franklin County and the other is in the town of Williston in Chittenden County.
- One paired watershed projects testing cover cropping. This farm is in the town of Pawlet in Rutland County.
- One in line project testing a water and sediment control basin. This project is the only one that is not anticipated to be a paired watershed design and instead will sample above and below the treatment area. This project is in Franklin County on the same farm that is testing reduced tillage with manure injection.

No aeration will be performed in the treatment fields until calibration has been achieved. During the treatment period, aeration will be performed in the treatment watersheds prior to each manure application. In certain cases the Project Team will recommend which field in a watershed pair should be aerated. If there is not a scientific reason to select one watershed for treatment, AAFM or the farmer

may choose based on their own considerations.

Conventional tillage, surface manure application, and no fall-seeded cover crop are assumed to be the typical management practices on the study cornfields Pawlet. These practices will be continued through the calibration period. During the treatment period, the Pawlet farm will continue to practice conventional tillage and surface manure application, but will plant a cover crop shortly following corn harvest. Given the time necessary to instrument monitoring stations and the need to collect all data in accordance with an approved QAPP, it may be necessary to delay planting of a cover crop until after harvest in 2013, in order to obtain data in both spring and fall periods without a cover crop present. The Project Team may need to continue the monitoring program through the late fall of 2014 to provide sufficient post-treatment data for the cover crop treatment.

The existing practices at the Williston and Franklin sites are assumed to include conventional tillage, surface manure application, and no cover cropping of corn land. The Vermont version of the reduced tillage practice standard (NRCS Practice 329) indicates that a cover crop must be planted if the crop residue level is low. The standard specifically requires: "Low residue row crops such as silage corn must have a winter cover crop established." Therefore, the applicable experimental treatment at the Franklin and Williston sites is a combination of reduced tillage, manure injection, and a winter cover crop. Evaluation will include the combined effect of these practices; no data will be produced at these sites on the individual effectiveness of the component practices. It is possible that adequate calibration will be achieved in 2012. Reduced tillage/manure injection treatments could then be implemented in spring 2013, although beginning the treatment period following the 2013 growing season is more likely.

In quantifying the effectiveness of conservation practices, timing is more critical for the reduced tillage/manure injection and the cover cropping treatments than for the hayland aeration treatment. The periods when the cover cropping and reduced tillage/manure injection practices are expected to be most effective are during the critical erosion periods before a crop canopy develops in the spring and after corn harvest in the fall. Conversely, the effectiveness of the hayland aeration treatment can be successfully assessed from approximately late May through November. Because evaluation of the cover cropping and reduced tillage/manure injection treatments is more constrained, there may need to be an extended monitoring period at the Franklin, Williston, and Pawlet sites.

No experimental treatment will be applied in the watershed draining to the WASCoB. Agricultural management of the WASCoB drainage area will be documented in the same way as the field treatment watersheds, however management will not be prescribed beyond requesting that the drainage area continue to receive typical agronomic rates of manure and/or mineral fertilizer application through the study period and that these actions be fully documented.

**Sample Collection and Routine Facility Maintenance:** There are considerable challenges in meeting the demands of operating monitoring stations sampling transient events across a wide geographic area. The Project Team includes four, location-specific monitoring teams, each with an experienced, dedicated team leader. The team leader will be responsible for ensuring that someone is always available for sample collection, drawing on VACD staff and Project Team staff as appropriate. Each team will be responsible for sample collection and routine facility maintenance for their assigned stations. Routine maintenance will include:

- downloading the HOBO® data loggers (precipitation / air temperature and conductivity / water temperature)
- checking/cleaning the tipping bucket funnel, the solar panel, and the sample intake tubing and screen

- cleaning the ultrasonic level sensor and conductivity sensor and recalibrating if necessary
- checking/replacing instrument desiccant
- checking/servicing batteries
- verifying that the flume is level
- clearing vegetation from around the stations
- checking for erosion and rodent holes near the flume approach and wingwalls

Occasionally station maintenance needs will be beyond that which the team leader can provide. The contractor will be available throughout the duration of the project to assist team leaders in ensuring that significant issues are addressed as they arise and facilities are brought back online after any upsets as soon as is practicable.

The contractor will coordinate the efforts of and collaboration between the location-specific monitoring teams in order to achieve a consistent, coordinated effort. The contractor will also be responsible for ensuring that each team leader has access to the necessary staff resources and for coordinating the periodic delivery of samples to the Vermont DEC laboratory.

**Sample Analysis:** Water samples from both the regular and the winter/early spring monitoring periods will be split in the field using a churn splitter to provide subsamples for analysis by the DEC laboratory. Using sample containers provided by the DEC laboratory, sample splits will be made for the following parameters: TP, TDP, TN, TDN, TSS, and chlorides. A minimum of 10% additional field QC samples will be added. Subsamples intended for TDP and TDN analyses will be filtered (0.45- $\mu$ m pore size membrane) immediately in the field. Appropriate preservatives will be added as necessary and the samples will be stored on ice or refrigerated until transfer to the laboratory within seven days of collection (seven days is the shortest holding time among the analytes after the field processing steps described). These steps will simplify the logistics of delivery of samples to the laboratory, particularly from events that are sampled outside of normal business hours. The DEC laboratory will use their approved methods and QA/QC procedures to perform the required analyses, at no cost to the Project Team. Samples will typically be delivered to the laboratory by courier service.

#### **Data Management and Analysis**

**Database Development:** In order to facilitate effective and efficient analysis, a database will be built that manages all pertinent field data. A single relational database (Microsoft Access or similar) will be designed and used for the storage and management of farm management practice data, weather data (temperature and rainfall), hydrologic data (runoff level and flow rate), runoff temperature and specific conductance, autosampler logs, and analytical results. Automated routines will be developed within the database for importing continuously collected records (air temperature, rainfall, water temperature, specific conductance, runoff level, and flow rate) to the greatest extent possible.

**Statistical Analysis:** The data set used for the primary statistical analyses will include total event discharge ( $m^3$ ), event mean concentration (mg/L), and total event load (kg) for each monitored constituent for each event at each monitored location. Basic descriptive statistics, pair-wise comparisons, and exploratory data analysis will be conducted on this data set.

For the paired-watershed sites, changes in event discharge, event mean concentration, and event mass export in response to treatment will be tested using analysis of covariance (ANCOVA). ANCOVA compares two groups of data (e.g., calibration and treatment) while adjusting for changes in explanatory



variables using a combination of analysis of variance and regression. In the paired-watershed design, data from the control watershed are used to account for the effects of year-to-year weather variations on the variables of interest, in this case event discharge and TP, TDP, TN, TDN, CI, and TSS concentration and export. For a given variable of interest in a treatment watershed, the explanatory variable (covariate) is the same variable observed concurrently in the control watershed. Calibration and treatment period regressions between treatment and control watersheds will be tested for significant differences in slope, intercept, or both by analysis of variance of regression coefficients; differences in water quality data between the calibration and treatment periods will be deemed significant if the slope and/or intercept of the regressions differ at  $P < 0.10$ . The magnitude of treatment effect (e.g., the percent reduction due to the application of the new management) is assessed by comparing the value (e.g., event TP export) predicted from the calibration regression to that predicted from the post-treatment regression at the mean or median value observed in the control watershed during the post-treatment period.

For the WASCoB site, effects of treatment will be evaluated based on an input/output comparison (e.g., t-Test), both for individual events and over the entire monitoring period.

***Project Communication and Reporting:*** The scope, scale, and anticipated level of interest in the project will necessitate a high level of routine communication between all involved parties.

***Landowners:*** Because each project site will receive approximately 40 project-related visits annually, regular communication with the farm owner will be essential. Monitoring team leaders will be in regular contact with landowners, keeping them apprised of project progress. Further, having a dedicated team leader for each site means that the landowner will always know "who to call" if questions or concerns about the project should arise.

Current and ongoing information about farm management activities (e.g., tillage, planting, and manure application rate and timing) is essential to the overall monitoring effort. It is especially critical that BMP implementation activities in the treatment watershed and the continuation of conventional management in the control watershed are well-documented. This background information will be collected by personnel from VACD, with communication and feedback from the Project Team. Once project sites are established and monitoring systems installed, it is anticipated that it will be simplest for the monitoring team leaders to periodically discuss farm management activities as needed with the landowner while on site.

***Project Team:*** Contractors are required to notify the State of changes to the project team (additions or deletions); resumes for the new project team members must be submitted within two weeks of such a change.

***Project Advisory Committee:*** The Project Team will work with AAFM to establish a Project Advisory Committee (PAC). It is anticipated that the PAC will include personnel from NRCS, USGS, AAFM, ANR, the Lake Champlain Basin Program, landowners, and others with an expressed interest in the project. The PAC will provide advice on major project decisions or proposed modifications, such as: reviewing final fine-scale site selection; monitoring facility design and sampling plan; developing strategies for managing the implementation of management practices; and evaluating contingencies and specific problems as they arise. PAC meetings will be scheduled approximately semi-annually, with more frequent meetings likely at the beginning of the project. A final PAC meeting will be held to convey results and conclusions. It is also anticipated that PAC members will play an important role in disseminating and communicating project results to the public.

The Project Team will also make itself available for an annual presentation to the Lake Champlain Basin Program Technical Advisory Committee.

**Practice Evaluation and Site Decommissioning**

**Practice Evaluation:** In consultation with AAFM and NRCS, the Project Team will suggest any potential modifications to conservation practice implementation requirements, based on the efficacy of the practices as implemented on the participating farms. Where the same practice is implemented on more than one farm, pollutant reductions due to treatment may be compared and contrasted.

**Site Decommissioning:** At the conclusion of the study, the Project Team will work with the farm owner and AAFM to determine whether the monitoring stations should be decommissioned or left in place to support future study. Should the farm owner wish to decommission the monitoring site(s), the Project Team will remove the equipment and return it to the farmer and restore the monitoring sites to their pre-project condition.

**Annual and Final Reports:** A succinct annual report will be prepared and delivered to AAFM which will be shared with LCBP by February 15<sup>th</sup> of each year. The annual report will focus on the evaluation and interpretation of data collected during the preceding field season.

A more detailed final report covering all aspects of the monitoring effort will be prepared. This will include site characterization, data collection and analysis, challenges faced, lessons learned and an evaluation of the effectiveness of the BMPs in reducing P and sediment losses. Maps and figures will be developed to assist AAFM in sharing project results with the public in a manner that also protects the privacy of the participating farms.

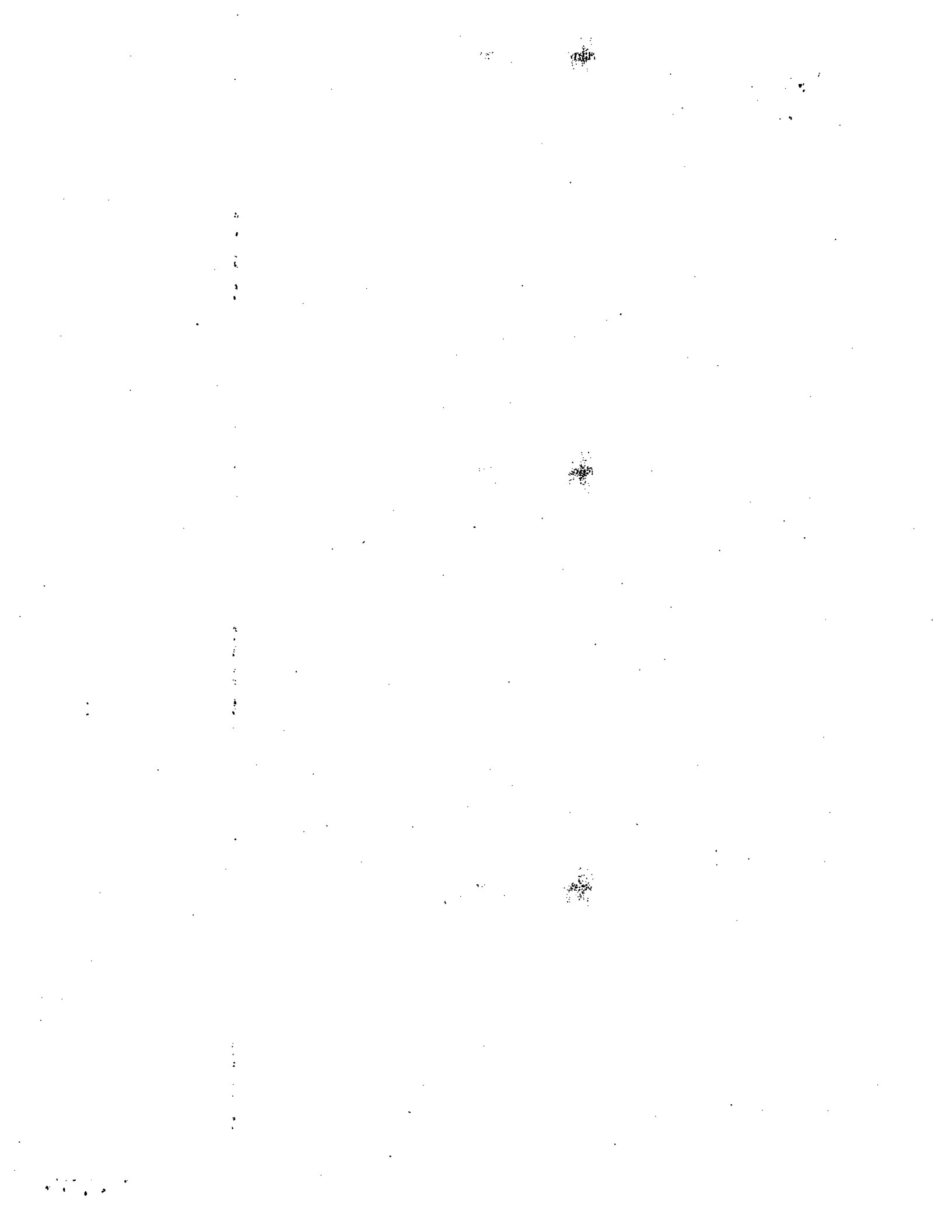
**Project Timeline and Deliverables**

Description	Timeline	Deliverable
Study Design and Site Characterization	March 31, 2012	Plan for which fields will be included in study and specific locations of monitoring stations based on field assessments
QAPP	March 31, 2012	Approved QAPP from NEIWPC
Agronomic Practice Documentation	March 31-December 15 each year (2012,2013,2014)	Recorded details about the farm field management practices and the implementation of the conservation practices.
Monitoring Facility Design and Construction	April 30, 2012	Complete installation of all monitoring equipment at each of the 7 field locations.
Initial Calibration and Treatment Application	April 30, 2012-December 2014	When statistics are sufficient for calibration, the treatment applications will begin for the paired watershed sites,

		expected to be ready in year 2. Treatment applications will be continued throughout the project.
Sample Collection and Facility Maintenance	April 30, 2012-December 2014	Sample collections will occur on at least 20 events each year and maintenance will be as needed throughout the monitoring period.
Sample Analysis	April 30, 2012-December 2014	Samples will be collected and sent to the DEC laboratory throughout the monitoring period.
Data Management and Analysis	April 30, 2012-December 2014	A database to track all pertinent monitoring system information will be developed and utilized throughout the monitoring period. The results will be looked at periodically to ensure the monitoring system is operating as intended. At the completion of the monitoring period each year and at the end of the 3 years the data collected will be analyzed to determine the effectiveness of the BMPs in relation to the variables that were tested.
Reporting	April 30, 2012-December 2014	The contractor will provide annual and a final report demonstrating the BMP effectiveness findings, and provide a presentation to the LCBP TAC.

**Project Budget:** The \$350,000 GLFC funding will be matched with \$491,166 which will include USDA NRCS Architectural and Engineer funding, farmer funds directly appropriated from the USDA NRCS Environmental Quality Incentives Program contracts, the Vermont DEC and Agency of Agriculture match assistance for laboratory analysis and data collection.

AGO Agricultural Water Quality Monitoring Project					
	Total Costs	PHASE 1	PHASE 2		
	All 3 years	A&E	Direct Assignments	GLFC	In-kind
monitoring design by paired site - includes site characterization and study design, soil sampling, drainage area delineation, and flow prediction modeling	\$ 28,268	\$ 26,858			\$ 1,410
quality assurance plan development	\$ 6,397	\$ 6,397			
equipment and materials (including maintenance) - includes equipment purchase, monitoring supplies, non-routine maintenance, mileage, and incidentals	\$ 221,893		\$ 221,893		
installation (A&E)- includes project kick-off meeting with landowner, monitoring facility design, and construction oversight	\$ 36,745	\$ 36,745			
installation - monitoring facility construction	\$ 32,106		\$ 32,106		
decommissioning - includes removing all equipment and any necessary site restoration	\$ 11,332		\$ 5,876	\$ 5,456	
monitoring costs (data collection and sample delivery), includes sample collection and routine maintenance of the monitoring facility	\$ 301,223		\$ 243,180	\$ 58,043	
sample analysis				\$ 63,000	\$ 51,576
watershed and practice data collection	\$ 20,300			\$ 20,300	
database development	\$ 5,242			\$ 5,242	
data management - includes data entry, analysis, and QA/QC	\$ 88,024			\$ 88,024	
meetings - semi-annual meetings with PAC	\$ 16,189			\$ 16,189	
meetings - annual presentations to TAC	\$ 7,975			\$ 7,975	
practice evaluation	\$ 8,261			\$ 8,261	
reporting - includes project communication, preparation of annual and final reports	\$ 77,510			\$ 77,510	
<b>total project costs</b>	<b>\$ 841,166</b>	<b>\$ 70,000</b>	<b>\$ 503,055</b>	<b>\$ 350,000</b>	<b>\$ 52,986</b>



**ASSIGNMENT OF PAYMENT**

See Page 2 for Privacy Act and Public Burden Statements.

**PART A - GENERAL INFORMATION**

1. STATE Vermont	2. COUNTY Franklin
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code Wayne Fiske 2534 Durkee Road Highgate Center, VT 05459	5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code VAAFM 116 State Street Montpelier, VT 05620
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER <i>X Wayne A. Fiske 068-42-7815</i>	6. ASSIGNEE'S TAX IDENTIFICATION NUMBER <i>X 03-6000264</i>
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION	
Financial Institution Name: <i>TD Bank</i>	
Address: <i>90 Main Street Montpelier, VT 05601</i>	
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings	
Bank Information: Routing Number: <i>011600033</i> Account Number: <i>5240112764</i>	

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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**PART B - APPLICABLE PROGRAM(S)**

EQIP- AGO	741644110UQ	2013	12	5,790
EQIP- AGO	741644110UQ	2013	13	5,790
EQIP- AGO	741644110UQ	2013	16	5,790
EQIP- AGO	741644110UQ	2013	17	5,790
EQIP- AGO	741644110UQ	2014	21	5,790
EQIP- AGO	741644110UQ	2014	22	5,790
EQIP- AGO	741644110UQ	2014	25	5,790
EQIP- AGO	741644110UQ	2014	26	5,790

**PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE**

In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form.

The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee.

13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE <i>X Wayne A. Fiske</i>	13B. DATE (MM-DD-YYYY) <i>X 2-24-12</i>
14A. ASSIGNEE'S SIGNATURE <i>X Charles P. ...</i>	14B. DATE (MM-DD-YYYY) <i>X 3-19-12</i>

**PART D - REVOCATION OF ASSIGNMENT**

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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FOR NRCS USE ONLY	16. DATE FILED (MM-DD-YYYY)	17. TIME FILED
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NRCS COPY

ASSIGNEE

PARTICIPANT

### ASSIGNMENT OF PAYMENT

See Page 2 for Privacy Act and Public Burden Statements.

#### PART A - GENERAL INFORMATION

1. STATE Vermont		2. COUNTY Franklin	
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code Wayne Fiske 2534 Durkee Road Highgate Center, VT 05459		5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code VAAFM 116 State Street Montpelier, VT 05620	
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER <i>X</i> Wayne A. Fiske 608-42-7945		6. ASSIGNEE'S TAX IDENTIFICATION NUMBER <i>X</i> 03-6000264	
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION			
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings		Financial Institution Name: <u>TD Bank</u> Address: <u>90 Main St.</u> <u>Montpelier, VT 05601</u>	
Bank Information: Routing Number. <u>011600033</u>		Account Number <u>5240112764</u>	

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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#### PART B - APPLICABLE PROGRAM(S)

EQIP- AGO	741644110UQ	2012	2	37,125
EQIP- AGO	741644110UQ	2012	3	37,125
EQIP- AGO	741644110UQ	2012	4	5,790
EQIP- AGO	741644110UQ	2012	5	5,790
EQIP- AGO	741644110UQ	2012	7	5,790
EQIP- AGO	741644110UQ	2012	8	5,790

#### PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE

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13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE <i>X</i> Wayne A. Fiske	13B. DATE (MM-DD-YYYY) <i>X</i> 2-24-12
14A. ASSIGNEE'S SIGNATURE <i>X</i> Charles R. [Signature]	14B. DATE (MM-DD-YYYY) <i>X</i> 3-19-12

#### PART D - REVOCATION OF ASSIGNMENT

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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FOR NRCS USE ONLY	16. DATE FILED (MM-DD-YYYY)	17. TIME FILED
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NRCS COPY

ASSIGNEE

PARTICIPANT

### SPECIAL PROVISIONS RELATING TO ASSIGNMENTS

- A. The original of this assignment, properly executed, must be filed in the NRCS office in the county where the applicable program contract subject to this assignment is administratively located with respect to the program involved.
- B. If the assignor assigns a specified value of payments to more than one assignee:
  - 1. NRCS will recognize assignments for each program per program year or group of years if multi-year is selected.
  - 2. Assignments will be honored in chronological sequence based on the order of filing with the NRCS office.
- C. The payment due the participant may be applied first against indebtedness owing by the participant to the United States, including debts arising after the execution of a Form NRCS-CPA-1236, which may be offset in accordance with the regulations governing, and any balance will be subject to assignment.
- D. Neither the United States of America, the NRCS, the Secretary of Agriculture, any disbursing officer, nor any other Government employee or official shall be subject to any suit or liable for payment of any amount if payment is inadvertently made to the assignor without regard to this assignment.
- E. This assignment does not extend to any successor of the assignee, nor may the assignee re-assign this assignment.

NAME AND ADDRESS (Including Zip Code)

TELEPHONE NO. (Including area code):

**NOTE:** *The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a) and the Paperwork Reduction Act of 1995, as amended. The Commodity Credit Corporation Charter Act, the Federal Agriculture Improvement and Reform Act of 1996, the Food Security Act of 1985, the Agricultural Act of 1949, and the Soil Conservation and Domestic Allotment Act authorizes collection of this data. Furnishing the assignee's identifying number is voluntary. Furnishing all other data is also voluntary; however, without it a payment to assignee cannot be issued. The information will be used to authorize NRCS to make program payments to an assignee. This information may be provided to other agencies, IRS, Department of Justice, or other State and Federal law enforcement agencies and in response to a court magistrate or administrative tribunal. The provisions of criminal and civil fraud statutes, including 18 USC 286, 287, 371, 651, 1001; 15 USC 714m; and 31 USC 3729, may be applicable to the information provided.*

*This information collection is exempted from the Paperwork Reduction Act, as it is required for administration of the Food, Conservation, and Energy Act of 2008 (see Pub. L. 110-246, Title II, Subtitle J - Miscellaneous Conservation Provisions).*

**RETURN THIS COMPLETED FORM TO YOUR NRCS OFFICE.**

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### ASSIGNMENT OF PAYMENT

See Page 2 for Privacy Act and Public Burden Statements.

#### PART A - GENERAL INFORMATION

1. STATE Vermont		2. COUNTY Chittenden	
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code Shelburne Farms ; 1611 Harbor Road; Shelburne, Vermont 05482		5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code VAAFM	
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 03-0229347		6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03 - 6000264	
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION			
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings		Financial Institution Name: <u>TD Bank</u> Address: <u>90 Main St.</u> <u>Montpelier, VT 05601</u>	
Bank Information: Routing Number: <u>011600033</u>		Account Number: <u>5240112764</u>	

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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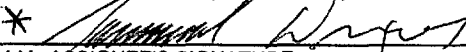

#### PART B - APPLICABLE PROGRAM(S)

EQIP 2008 AGO	741644110UI	2012	1	\$37,125
		2012	2	\$5,790
		2012	5	\$5,790
		2013	3	\$5,790
		2013	6	\$5,790
		2014	4	\$5,790
		2014	7	\$5,790

#### PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE

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13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE * 	13B. DATE (MM-DD-YYYY) * 2/8/2012
14A. ASSIGNEE'S SIGNATURE 	14B. DATE (MM-DD-YYYY) 3-19-12

#### PART D - REVOCATION OF ASSIGNMENT

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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FOR NRCS USE ONLY	16. DATE FILED (MM-DD-YYYY)	17. TIME FILED
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NRCS COPY

ASSIGNEE

PARTICIPANT

**ASSIGNMENT OF PAYMENT**

See Page 2 for Privacy Act and Public Burden Statements.

**PART A - GENERAL INFORMATION**

1. STATE Vermont	2. COUNTY Chittenden
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS <i>Including Zip Code</i> North Williston Cattle Inc ; 347 Fay Lane; Williston, Vermont 05495-8829	5. ASSIGNEE'S NAME AND ADDRESS <i>Including Zip Code</i> VAAFM
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 03-0335628	6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03-6000264
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION	
Financial Institution Name: <u>TD Bank</u>	Address: <u>90 Main St. Montpelier, VT 05601</u>
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings	
Bank Information: Routing Number: <u>011600033</u>	Account Number: <u>5240112764</u>

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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**PART B - APPLICABLE PROGRAM(S)**

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
EQIP 2008 AGO	741644110UH	2012	5	\$37,125
		2012	9	\$5,790
		2012	12	\$5,790
		2013	10	\$5,790
		2013	13	\$5,790
		2014	11	\$5,790
		2014	14	\$5,790

**PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE**

*In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form.*

*The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee.*

13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE <i>[Signature]</i>	13B. DATE (MM-DD-YYYY) * 1/31/12
14A. ASSIGNEE'S SIGNATURE <i>[Signature]</i>	14B. DATE (MM-DD-YYYY) 3-19-12

**PART D - REVOCATION OF ASSIGNMENT**

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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<b>FOR NRCS USE ONLY</b>	16. DATE FILED (MM-DD-YYYY)	17. TIME FILED
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NRCS COPY

ASSIGNEE

PARTICIPANT

### ASSIGNMENT OF PAYMENT

See Page 2 for Privacy Act and Public Burden Statements.

#### PART A - GENERAL INFORMATION

1. STATE Vermont		2. COUNTY Addison	
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS <i>Including Zip Code</i> Woodnotch Farms Inc 245 Barnum Hill Road Shoreham, VT 05770		5. ASSIGNEE'S NAME AND ADDRESS <i>Including Zip Code</i> VAAFM	
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 270040261		6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03-6000264	
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION			
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings		Financial Institution Name: <u>TD Bank</u> Address: <u>90 Main St.</u> <u>Montpelier, VT 05601</u>	
Bank Information: Routing Number: <u>011600033</u>		Account Number: <u>5240112764</u>	

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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#### PART B - APPLICABLE PROGRAM(S)

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
EQIP 2008 AGO	741644110UP	2012	4	37,125.00
		2012	5	5,790.00
		2012	7	5,790.00
		2013	8	5,790.00
		2013	10	5,790.00
		2014	11	5,790.00
		2014	12	5,790.00

#### PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE

In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form.

The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee.

13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE <i>John C Wood president for Woodnotch Farms Inc</i>	13B. DATE (MM-DD-YYYY) 2/3/12
14A. ASSIGNEE'S SIGNATURE <i>Chuck R. [Signature]</i>	14B. DATE (MM-DD-YYYY) 3-19-12

#### PART D - REVOCATION OF ASSIGNMENT

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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ASSIGNEE

PARTICIPANT

### ASSIGNMENT OF PAYMENT

See Page 2 for Privacy Act and Public Burden Statements.

**PART A - GENERAL INFORMATION**

1. STATE Vermont	2. COUNTY Addison
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code Kimball Brook Farm LLC 128 Bay View Road North Ferrisburgh, VT 05473	5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code VAAFM
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 030368480	6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03-6000264
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION	
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings	
Financial Institution Name: <u>TD Bank</u> Address: <u>90 Main St.</u> <u>Montpelier, VT 05601</u>	
Bank Information: Routing Number: <u>011600033</u> Account Number: <u>5240112764</u>	

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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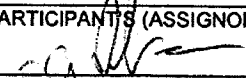

**PART B - APPLICABLE PROGRAM(S)**

EQIP 2008 AGO	741644110UV	2012	1	37,125.00
		2012	2	5,790.00
		2012	3	5,790.00
		2013	5	5,790.00
		2013	7	5,790.00
		2014	8	5,790.00
		2014	9	5,790.00

**PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE**

*In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form..*

*The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee.*

13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE 	13B. DATE (MM-DD-YYYY) <u>2/2/12</u>
14A. ASSIGNEE'S SIGNATURE 	14B. DATE (MM-DD-YYYY) <u>3-19-12</u>

**PART D - REVOCATION OF ASSIGNMENT**

Assignment of payment authorization above is hereby revoked.

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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ASSIGNEE

PARTICIPANT

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

NRCS-CPA-1236  
4/2010  
Page 1 of 2

**ASSIGNMENT OF PAYMENT**

See Page 2 for Privacy Act and Public Burden Statements.

**PART A - GENERAL INFORMATION**

1. STATE VERMONT		2. COUNTY RUTLAND		
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code DEER FLATS FARM,LLC 1290 VT.ROUTE 30 WEST PAWLET,VT.05775		5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code VAAFM		
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 04-3658693		6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03-6000264		
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER INFORMATION				
Direct Deposit to Account Type: <input checked="" type="checkbox"/> Checking <input type="checkbox"/> Savings		Financial Institution Name: TD Bank Address: 90 Main St Montpelier, VT 05601		
Bank Information: Routing Number: 011600033		Account Number: 5240112764		

8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
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**PART B - APPLICABLE PROGRAM(S)**

EQIP	741644110US	2011	CIN#1	\$37,125
EQIP	741644110US	2011	CIN#2	\$5,790
EQIP	741644110US	2011	CIN#3	\$5,790
EQIP	741644110US	2011	CIN#4	\$5,790
EQIP	741644110US	2011	CIN#5	\$5,790
EQIP	741644110US	2011	CIN#6	\$5,790
EQIP	741644110US	2011	CIN#7	\$5,790

**PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE**

In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form.

The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee.

13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE <i>Richard H. Hulet</i>	13B. DATE (MM-DD-YYYY) 2-16-12
14A. ASSIGNEE'S SIGNATURE <i>Charles R. ...</i>	14B. DATE (MM-DD-YYYY) 3-19-12

**PART D - REVOCATION OF ASSIGNMENT**

Assignment of payment authorization above is hereby revoked

15A. ASSIGNEE'S SIGNATURE	15B. DATE (MM-DD-YYYY)
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FOR NRCS USE ONLY	16. DATE FILED (MM-DD-YYYY)	17. TIME FILED
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NRCS COPY

ASSIGNEE

PARTICIPANT

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

**Contract Item 3: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Edge of Field Monitoring and Evaluation: A pair of edge-of-field monitoring facilities will be installed as part of a paired watershed study to study the effectiveness of sediment basins in trapping pollutants in runoff from cropland on this field. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. This station will be installed by and the reports compiled and submitted by a Partner Agency. All reports will be submitted in electronic format compatible with Microsoft computer programs.

**Fields:**  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
3	MONITORING & EVALUATION(799)	1 no			37,125												
3a	Monitoring Device Installation	1 Number	\$37,125.000 / Number	PR <sup>1</sup>	37,125												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 4: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
4	MONITORING & EVALUATION(799)	1 no			5,790												
4a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 5: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

**Contract Item 1: RESIDUE MANAGEMENT, MULCH TILL(345)** Practice Lifespan: 1 year Status: Planned 2012

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planned amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINIMUM of 30 % crop residue cover on the soil surface after planting. IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information.

**Fields:**  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR													
					2012 \$	2013 \$	2014 \$											
1	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac			1,160													
1a	1st Year Management payment, to be used with Waste Recycling Practice (633)	23.2 Acre	\$50.0000/ Acre	PR <sup>1</sup>	1,160													

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 2: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Edge of Field Monitoring and Evaluation: A pair of edge-of-field monitoring facilities will be installed as part of a paired watershed study to study the effectiveness of residue management practices on cropland in the Strip Crop system on this field. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. This station will be installed by and the reports compiled and submitted by a Partner Agency. All reports will be submitted in electronic format compatible with Microsoft computer programs.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR													
					2012 \$	2013 \$	2014 \$											
2	MONITORING & EVALUATION(799)	1 no			37,125													
2a	Monitoring Device Installation	1 Number	\$37,125.000 0/ Number	PR <sup>1</sup>	37,125													

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Copy for your INFORMATION

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
5	MONITORING & EVALUATION(799)	1 no			5,790												
5a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 6: COVER CROP(340)** Practice Lifespan: 1 year Status: Planned 2012

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
6	COVER CROP(340)	23.2 ac			789												
6a	Establish Winter Cover Crop	23.2 Acre	\$34.0000/ Acre	PR <sup>1</sup>	789												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 7: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
7	MONITORING & EVALUATION(799)	1 no			5,790												
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.



**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

**Contract Item 8: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
8	MONITORING & EVALUATION(799)	1 no			5,790												
8a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 9: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

**Fields:**  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
9	MONITORING & EVALUATION(799)	1 no			750												
9a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR <sup>1</sup>	750												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 10: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

**Fields:**  
Tract: 522 Fields: 5;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
		EXPIRATION DATE 12/31/2015	

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
10	MONITORING & EVALUATION(799)	1 no			750									
10a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR <sup>1</sup>	750									

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 11: RESIDUE MANAGEMENT, MULCH TILL(345)** Practice Lifespan: 1 year Status: Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planned amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINimum of 30 % crop residue cover on the soil surface after planting. IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
11	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac				650								
11a	2nd and 3rd Year Management payment, to be used with Waste Recycling Practice (633)	23.2 Acre	\$28.0000/ Acre	PR <sup>1</sup>		650								

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 12: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:  
Tract: 522 Fields: 5;

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
12	MONITORING & EVALUATION(799)	1 no				5,790											
12a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 13: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
13	MONITORING & EVALUATION(799)	1 no				5,790											
13a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 14: COVER CROP(340)** Practice Lifespan: 1 year Status: Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
14	COVER CROP(340)	23.2 ac				789											
14a	Establish Winter Cover Crop	23.2 Acre	\$34.0000/ Acre	PR <sup>1</sup>		789											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> WAYNE-FISKE	<b>COUNTY AND STATE</b> FRANKLIN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UQ	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:390 Tract(s):522.		<b>WATERSHED</b> Rock River	<b>ACRES</b> 58
			<b>EXPIRATION DATE</b> 12/31/2015

**Contract Item 15: WASTE RECYCLING(633)** **Practice Lifespan:** 1 year **Status:** Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will have any manure applied be incorporated into the field using the Aerway vertical tillage implement. This conservation practice will be applied every time manure is applied to these areas, for the duration of the 3-year test period. Refer to attached recordkeeping sheet for the application records that are required to be submitted at the end of each growing season. Agricultural wastes will be applied according to recommended rates as a result of soil and manure testing. Manure and wastes will be applied in split applications (i.e., spring, late summer or early fall). Wastes will not be spread on snow covered or frozen ground or closer than 50 feet to any watercourse or waterbody or closer than 100 feet to any well site. Incorporation on cropland should be within 2 days. All local, state and federal regulations will be followed when applying manure and agricultural wastes.

**Fields:**  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
15	WASTE RECYCLING(633)	23.2 ac				882											
15a	Inject or Incorporate Manure	23.2 Acre	\$38.0000/Acre	PR <sup>1</sup>		882											

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 16: MONITORING & EVALUATION(799)** **Practice Lifespan:** 1 year **Status:** Planned 2013

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
16	MONITORING & EVALUATION(799)	1 no				5,790											
16a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790											

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 17: MONITORING & EVALUATION(799)** **Practice Lifespan:** 1 year **Status:** Planned 2013

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 522 Fields: 7;

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> WAYNE FISKE	<b>COUNTY AND STATE</b> FRANKLIN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UQ	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:390 Tract(s):522.		<b>WATERSHED</b> Rock River	<b>ACRES</b> 58
			<b>EXPIRATION DATE</b> 12/31/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
17	MONITORING & EVALUATION(799)	1 no				5,790									
17a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 18: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
18	MONITORING & EVALUATION(799)	1 no				750									
18a	Annual Field Management Data Collection	1 Number	\$750.0000 / Number	PR <sup>1</sup>		750									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 19: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

**Fields:**  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
19	MONITORING & EVALUATION(799)	1 no				750									
19a	Annual Field Management Data Collection	1 Number	\$750.0000 / Number	PR <sup>1</sup>		750									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

**Contract Item 20: RESIDUE MANAGEMENT, MULCH TILL(345)** Practice Lifespan: 1 year Status: Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planned amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINimum of 30 % crop residue cover on the soil surface after planting. IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
20	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac					650								
20a	2nd and 3rd Year Management payment, to be used with Waste Recycling Practice (633)	23.2 Acre	\$28.0000/Acre	PR <sup>1</sup>			650								

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 21: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
21	MONITORING & EVALUATION(799)	1 no					5,790								
21a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790								

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 22: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 522 Fields: 7;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR													
					2012 \$	2013 \$	2014 \$											
22	MONITORING & EVALUATION(799)	1 no						5,790										
22a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>				5,790										

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 23: COVER CROP(340)** Practice Lifespan: 1 year Status: Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR													
					2012 \$	2013 \$	2014 \$											
23	COVER CROP(340)	23.2 ac						789										
23a	Establish Winter Cover Crop	23.2 Acre	\$34.0000/ Acre	PR <sup>1</sup>				789										

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 24: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will have any manure applied be incorporated into the field using the Aerway vertical tillage implement. This conservation practice will be applied every time manure is applied to these areas, for the duration of the 3-year test period. Refer to attached recordkeeping sheet for the application records that are required to be submitted at the end of each growing season. Agricultural wastes will be applied according to recommended rates as a result of soil and manure testing. Manure and wastes will be applied in split applications (i.e., spring, late summer or early fall). Wastes will not be spread on snow covered or frozen ground or closer than 50 feet to any watercourse or waterbody or closer than 100 feet to any well site. Incorporation on cropland should be within 2 days. All local, state and federal regulations will be followed when applying manure and agricultural wastes.

Fields:  
Tract: 522 Fields: 2, 3, 4, 17;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR													
					2012 \$	2013 \$	2014 \$											
24	WASTE RECYCLING(633)	23.2 ac						882										
24a	Inject or Incorporate Manure	23.2 Acre	\$38.0000/ Acre	PR <sup>1</sup>				882										

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> WAYNE FISKE	<b>COUNTY AND STATE</b> FRANKLIN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UQ	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:390 Tract(s):522.		<b>WATERSHED</b> Rock River	<b>ACRES</b> 58
			<b>EXPIRATION DATE</b> 12/31/2015

**Contract Item 25: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
25	MONITORING & EVALUATION(799)	1 no						5,790								
25a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 26: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
26	MONITORING & EVALUATION(799)	1 no						5,790								
26a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 27: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

**Fields:**  
Tract: 522 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012	2013	2014									



**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UQ	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:390 Tract(s):522.		WATERSHED Rock River	ACRES 58
			EXPIRATION DATE 12/31/2015

					\$	\$	\$							
27	MONITORING & EVALUATION(799)	1 no					750							
27a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR <sup>1</sup>			750							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 28: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:  
Tract: 522 Fields: 7;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR										
					2012 \$	2013 \$	2014 \$								
28	MONITORING & EVALUATION(799)	1 no					750								
28a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR <sup>1</sup>			750								

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> WAYNE FISKE	<b>COUNTY AND STATE</b> FRANKLIN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UQ	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:390 Tract(s):522.		<b>WATERSHED</b> Rock River	<b>ACRES</b> 58
			<b>EXPIRATION DATE</b> 12/31/2015

Total Cost Share or Payment by Year										Total Contract Payment
Year	2012	2013	2014							
Amount(\$)	\$100,859	\$26,981	\$26,981							<b>\$154,821</b>

**NOTES:** A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants					
Signature	Date	Signature	Date	Signature	Date
WAYNE FISKE					

Signatures of Reviewing Officials	
<b>District Conservationist - Technical Adequacy Certification</b> Signature:  Date:	<b>NRCS Approving Official</b> Signature: LEONARD JORDAN USDA electronic signature; manual signature not required.  Date: 8/22/2011

**PUBLIC BURDEN STATEMENT**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**PRIVACY ACT**

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

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PARTICIPANT DEER FLATS FARM LLC	COUNTY AND STATE RUTLAND County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110US	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION :176 Tract(s):1352.		WATERSHED Wells Brooks-Mettawee River	ACRES 14.7
			EXPIRATION DATE 9/30/2015

**Practice Item 1: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

of Field Monitoring and Evaluation: CONTROL AREA 1B:Two edge of field monitoring facilities will be installed as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with instrument by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established: one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristics data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report:A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed.All reports will be submitted in electronic format compatible with Microsoft Office programs.

S:  
1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR														
				2012 \$	2013 \$	2014 \$												
MONITORING & EVALUATION(799) Monitoring Device Installation	1 no 1 Number	\$37,125.000 / Number	PR <sup>1</sup>	37,125														

<sup>1</sup>: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Practice Item 2: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

S:  
1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR														
				2012 \$	2013 \$	2014 \$												
MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790														

<sup>1</sup>: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Practice Item 3: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

S:  
1352 Fields: 1B;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT DEER FLATS FARM LLC	COUNTY AND STATE RUTLAND County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110US	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION 176 Tract(s):1352.	WATERSHED Wells Brooks-Mettawee River	ACRES 14.7	EXPIRATION DATE 9/30/2015

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR								
				2012 \$	2013 \$	2014 \$						
MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790							

<sup>1</sup>: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 4: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR								
				2012 \$	2013 \$	2014 \$						
MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790						

<sup>1</sup>: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 5: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR								
				2012 \$	2013 \$	2014 \$						
MONITORING & EVALUATION(799) Event Sampling, Samples 11 thru 20	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790								

<sup>1</sup>: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 6: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

PARTICIPANT DEER FLATS FARM LLC	COUNTY AND STATE RUTLAND County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110US	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION 176 Tract(s):1352.		WATERSHED Wells Brooks-Mettawee River	ACRES 14.7
			EXPIRATION DATE 9/30/2015

S:  
1352 Fields: 1B;

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
6	MONITORING & EVALUATION(799) Event Sampling, Samples 11 thru 20	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790	5,790							

1: Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 7: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

S:  
1352 Fields: 1B;

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
7	MONITORING & EVALUATION(799) Event Sampling, Samples 11 thru 20	1 no 1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790	5,790						

1: Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 8: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

S:  
1352 Fields: 1B;

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
8	MONITORING & EVALUATION(799) Annual Field Management Data Collection	1 no 1 Number	\$750.0000/ Number	PR <sup>1</sup>			750	750						

1: Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT DEER FLATS FARM LLC	COUNTY AND STATE RUTLAND County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110US	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION :176 Tract(s):1352.	WATERSHED Wells Brooks-Mettawee River	ACRES 14.7	EXPIRATION DATE 9/30/2015

Practice Item 9: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: **Planned**

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR								
				2012 \$	2013 \$	2014 \$						
MONITORING & EVALUATION(799) Annual Field Management Data Collection	1 no 1 Number	\$750.0000/ Number	PR <sup>1</sup>		750	750						

<sup>1</sup>: Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 10: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: **Planned**

Monitoring will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

1352 Fields: 1B;

Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR								
				2012 \$	2013 \$	2014 \$						
MONITORING & EVALUATION(799) Annual Field Management Data Collection	1 no 1 Number	\$750.0000/ Number	PR <sup>1</sup>	750	750							

<sup>1</sup>: Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 11: **COVER CROP(340)** Practice Lifespan: 1 year Status: **Planned**

IMPLEMENTATION AREA: This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre prior to Oct. 1st. (Recommended winter rye variety: Positok)

1352 Fields: 1A;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT DEER FLATS FARM LLC	COUNTY AND STATE RUTLAND County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110US	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION :176 Tract(s):1352.		WATERSHED Wells Brooks-Mettawee River	ACRES 14.7
			EXPIRATION DATE 9/30/2015

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012	2013	2014							
11	COVER CROP(340) Establish Winter Cover Crop	7.1 ac 7.1 Acre	\$34.0000/ Acre	PR <sup>1</sup>	\$ 242 242	\$	\$							

1: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 12: COVER CROP(340) Practice Lifespan: 1 year Status: Planned

IMPLEMENTATION AREA: This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre prior to Oct. 1st. (Recommended winter rye variety: Jumbo) (Recommended winter wheat variety: Jumbo)

12: 1352 Fields: 1A;

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012	2013	2014							
12	COVER CROP(340) Establish Winter Cover Crop	7.1 ac 7.1 Acre	\$34.0000/ Acre	PR <sup>1</sup>	\$	\$ 242 242	\$							

1: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Practice Item 13: COVER CROP(340) Practice Lifespan: 1 year Status: Planned

IMPLEMENTATION AREA: This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre prior to Oct. 1st. (Recommended winter rye variety: Jumbo) (Recommended winter wheat variety: Jumbo)

13: 1352 Fields: 1A;

act	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012	2013	2014							
13	COVER CROP(340) Establish Winter Cover Crop	7.1 ac 7.1 Acre	\$34.0000/ Acre	PR <sup>1</sup>	\$	\$	\$ 242 242							

1: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> DEER FLATS FARM LLC	<b>COUNTY AND STATE</b> RUTLAND County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110US	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> 176 Tract(s):1352.	<b>WATERSHED</b> Wells Brooks-Mettawee River	<b>ACRES</b> 14.7	<b>EXPIRATION DATE</b> 9/30/2015

Total Cost-Share or Payment by Year										Total Contract Payment	
Year	2012	2013	2014								
Amount(\$)	\$49,697	\$12,572	\$12,572								\$74,841

- DIS: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

**Signatures of Participants**

Signature	Date	Signature	Date	Signature	Date
DEER FLATS FARM LLC					

**Signatures of Reviewing Officials**

<b>Technical Conservationist - Technical Adequacy Certification</b> Signature:	<b>NRCS Approving Official</b> Signature: HEATHER WETZSTEIN USDA electronic signature; manual signature not required.  Date: 8/23/2011
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**PUBLIC BURDEN STATEMENT**

Pursuant to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**PRIVACY ACT**

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or denial of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies in response to orders of a court, magistrate, or administrative tribunal.

**USDA NON-DISCRIMINATION STATEMENT**

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."



### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> NORTH WILLISTON CATTLE INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UH
<b>County and State:</b> CHITTENDEN County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> Winooski River-Huntington River to Alder Brook	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b> .

1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

**4. CONTRACT PARTICIPANTS**

<b>Name, Address, Telephone</b> NORTH WILLISTON CATTLE INC 347 FAY LN WILLISTON, VT 05495 (802) 879-5239	<b>SSN or TAX ID if applicable</b> *****5628
<b>Signature</b>	<b>Payment Shares</b> 100.00%
<b>Date</b>	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**5. CONTRACT OBLIGATIONS**

2012	2013	2014								<b>Total</b>
\$58,135	\$23,616	\$22,557								\$104,308
										\$104,308

**6. NRCS APPROVING OFFICIALS**

<b>Application Approval</b>  <b>JOHN THURGOOD</b> USDA electronic signature; manual signature not required.	<b>Contract Obligation</b>  <b>KATURA WRIGHT</b> USDA electronic signature; manual signature not required.
<b>Date:</b> 8/17/2011	<b>Date:</b> 8/18/2011

## CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> NORTH WILLISTON CATTLE INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UH
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### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

### PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

### NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 1: RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DIRECT SEED(329)** Practice Lifespan: 1 year Status: Planned 2013

Manage organic residue so maximum amounts are left on the soil surface on a year-round basis. Plant crops in narrow slots or narrow tilled strips in previously untilled soil.

**Fields:**  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
1	RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DIRECT SEED(329)	14.3 ac				1,287								
1a	1st Year Management payment, to be used with Waste Recycling Practice (633)	14.3 Acre	\$90.0000/Acre	PR'		1,287								

**Notes:** 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 2: RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DIRECT SEED(329)** Practice Lifespan: 1 year Status: Planned 2014

Manage organic residue so maximum amounts are left on the soil surface on a year-round basis. Plant crops in narrow slots or narrow tilled strips in previously untilled soil.

**Fields:**  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
2	RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DIRECT SEED(329)	14.3 ac					715							
2a	2nd and 3rd Year Management payment, to be used with Waste Recycling Practice (633)	14.3 Acre	\$50.0000/Acre	PR'		715								

**Notes:** 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 3: COVER CROP(310)** Practice Lifespan: 1 year Status: Planned 2012

This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre prior to Oct. 1st. (Recommended winter rye variety is Aroostook)

**Fields:**  
Tract: 940 Fields: 6B;

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
a	COVER CROP(340)	14.3 ac	\$34.0000/Acre	PR <sup>1</sup>	487											
	Establish Winter Cover Crop	14.3 Acre			487											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 4: COVER CROP(340)** Practice Lifespan: 1 Year Status: Planned 2013

This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following guidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre prior to Oct. 1st. (Recommended winter rye variety is Aroostook)

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
la	COVER CROP(340)	14.3 ac	\$34.0000/Acre	PR <sup>1</sup>		487										
	Establish Winter Cover Crop	14.3 Acre			487											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 5: MONITORING & EVALUATION(799)** Practice Lifespan: 1 Year Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft computer programs.

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
5a	MONITORING & EVALUATION(799)	1 no	\$37,125.000 0/Number	PR <sup>1</sup>	37,125											
	Monitoring Device Installation	1 Number			37,125											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Fract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 6: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2012

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 138 Fields: 2, 3, 16, 29, 46; Tract: 940 Fields: 1A, 5, 6;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
6	WASTE RECYCLING(633)	215.6 ac			8,193												
6a	Inject or Incorporate Manure	215.6 Acre	\$38.0000/Acre	PR <sup>1</sup>	8,193												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 7: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2013

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 138 Fields: 2, 3, 16, 29, 45, 46; Tract: 940 Fields: 1A, 5, 6, 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
7	WASTE RECYCLING(633)	250.3 ac				9,512											
7a	Inject or Incorporate Manure	250.3 Acre	\$38.0000/Acre	PR <sup>1</sup>		9,512											

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 8: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2014

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 138 Fields: 2, 3, 16, 29, 45, 46; Tract: 940 Fields: 1A, 5, 6, 6B;

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
10a	WASTE RECYCLING(633) Inject or Incorporate Manure	250.3 ac 250.3 Acre	\$38.0000/ Acre	PR'			9,512										

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 9: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
10a	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR'	5,790												

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 10: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
10a	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR'		5,790											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT NORTH WILLISTON CATTLE INC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UH	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.	WATERSHED Winooski River-Huntington River to Alder Brook	ACRES 250.3	EXPIRATION DATE 9/30/2015

**Contract Item 11: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
11	MONITORING & EVALUATION(799)	1 no					5,790									
11a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790									

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 12: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
12	MONITORING & EVALUATION(799)	1 no			5,790											
12a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 13: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 940 Fields: 6B;

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> arm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
3	MONITORING & EVALUATION(799)	1 no				5,790											
3a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR'		5,790											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 14: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
14	MONITORING & EVALUATION(799)	1 no					5,790										
14a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR'			5,790										

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 15: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Measure the effectiveness of conservation practices and systems, and/or provide data for model development, verification, and validation for use of results in non-monitored fields using acceptable tools and protocols.

Fields:  
 Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
15	MONITORING & EVALUATION(799)	1 no			750												
15a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR'	750												

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 16: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Measure the effectiveness of conservation practices and systems, and/or provide data for model development, verification, and validation for use of results in non-monitored fields using acceptable tools and protocols.



**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

**Fields:**  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
16	MONITORING & EVALUATION(799)	1 no				750										
16a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR <sup>1</sup>		750										

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 17: MONITORING & EVALUATION(799)** Practice Lifespan: Status: Planned 2014

Measure the effectiveness of conservation practices and systems, and/or provide data for model development, verification, and validation for use of results in non-monitored fields using acceptable tools and protocols.

**Fields:**  
Tract: 940 Fields: 6B;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
17	MONITORING & EVALUATION(799)	1 no					750									
17a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR <sup>1</sup>			750									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> NORTH WILLISTON CATTLE INC	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UH	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:177 Tract(s):138. Farm:743 Tract(s):789. Farm:885 Tract(s):940.		<b>WATERSHED</b> Winooski River-Huntington River to Alder Brook	<b>ACRES</b> 250.3
			<b>EXPIRATION DATE</b> 9/30/2015

Total Cost-Share or Payment by Year										Total Contract Payment
Year	2012	2013	2014							
Amount(\$)	\$58,135	\$23,616	\$22,557							<b>\$104,308</b>

NOTES: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants					
Signature	Date	Signature	Date	Signature	Date
NORTH WILLISTON CATTLE INC					

Signatures of Reviewing Officials	
<b>District Conservationist - Technical Adequacy Certification</b> Signature:  Date:	<b>NRCS Approving Official</b> Signature: <b>KATURA WRIGHT</b> USDA electronic signature; manual signature not required.  Date: <b>8/18/2011</b>

**PUBLIC BURDEN STATEMENT**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**PRIVACY ACT**

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

**USDA NON-DISCRIMINATION STATEMENT**

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> SHELBURNE FARMS	<b>Program and Contract Number:</b> EQIP 2008 741644110UI
<b>County and State:</b> CHITTENDEN County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> Little Chazy River	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b>

1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

**4. CONTRACT PARTICIPANTS**

<b>Name, Address, Telephone</b> SHELBURNE FARMS 1611 HARBOR RD SHELBURNE, VT 05482 (802) 985-2348	<b>SSN or TAX ID if applicable</b> *****9347
<b>Signature</b>	<b>Payment Shares</b> 100.00%
<b>Date</b>	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**5. CONTRACT OBLIGATIONS**

2012	2013	2014								<b>Total</b>
\$49,455	\$12,919	\$12,919								\$75,293
										\$75,293

**6. NRCS APPROVING OFFICIALS**

<b>Application Approval</b>  <b>JOHN THURGOOD</b> USDA electronic signature; manual signature not required.	<b>Contract Obligation</b>  <b>HEATHER WETZSTEIN</b> USDA electronic signature; manual signature not required.
<b>Date:</b> 8/18/2011	<b>Date:</b> 8/25/2011

## CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> SHELBURNE FARMS	<b>Program and Contract Number:</b> EQIP 2008 741644110U1
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### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

### PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

### NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT SHELburnE FARMS	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UI	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1718 Tract(s):1935.		WATERSHED Little Chazy River	ACRES 15.5
			EXPIRATION DATE 9/30/2015

**Contract Item 1: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on Fields 11A and 30 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft computer programs.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1	MONITORING & EVALUATION(799)	1 no			37,125												
1a	Monitoring Device Installation	1 Number	\$37,125.000 / Number	PR <sup>1</sup>	37,125												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 2: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
2	MONITORING & EVALUATION(799)	1 no			5,790												
2a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 3: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 1935 Fields: 11A;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT SHELBURNE FARMS	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UI	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1718 Tract(s):1935.		WATERSHED Little Chazy River	ACRES 15.5
			EXPIRATION DATE 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1a	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR1		5,790											

Notes: 1 Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 4: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1a	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR1			5,790										

Notes: 1 Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 5: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1a	MONITORING & EVALUATION(799) Event Sampling, Samples 11 thru 20	1 no 1 Number	\$5,790.0000 / Number	PR1	5,790												

Notes: 1 Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> SHELBURNE FARMS	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UI	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1718 Tract(s):1935.		<b>WATERSHED</b> Little Chazy River	<b>ACRES</b> 15.5
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 6: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
6	MONITORING & EVALUATION(799)	1 no				5,790											
6a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR		5,790											

**Notes:** Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 7: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
7	MONITORING & EVALUATION(799)	1 no					5,790										
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR			5,790										

**Notes:** Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 8: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

**Fields:**  
Tract: 1935 Fields: 11A;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT SHELBURNE FARMS	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UI	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1718 Tract(s):1935.		WATERSHED Little Chazy River	ACRES 15.5
			EXPIRATION DATE 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
8	MONITORING & EVALUATION(799)	1 no			750												
3a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR1	750												

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 9: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

Fields:  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
9	MONITORING & EVALUATION(799)	1 no				750											
9a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR1		750											

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 10: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

Fields:  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
10	MONITORING & EVALUATION(799)	1 no					750										
10a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR1			750										

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.



CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT SHELBURNE FARMS	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UI	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1718 Tract(s):1935.		WATERSHED Little Chazy River	ACRES 15.5
			EXPIRATION DATE 9/30/2015

**Contract Item 11: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2013

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
11	WASTE RECYCLING(633)	15.5 ac															
11a	Inject or Incorporate Manure	15.5 Acre	\$38.0000/Acre	PR1		589											

**Notes:** 1Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 12: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2014

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 1935 Fields: 11A;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
12	WASTE RECYCLING(633)	15.5 ac						589									
12a	Inject or Incorporate Manure	15.5 Acre	\$38.0000/Acre	PR1			589										

**Notes:** 1Payment rates define the unit cost rate of compensation to be received by the participant.

**CONSERVATION PLAN OR SCHEDULE OF OPERATIONS**

<b>PARTICIPANT</b> SHELBURNE FARMS	<b>COUNTY AND STATE</b> CHITTENDEN County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UI	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> arm:1718 Tract(s):1935.		<b>WATERSHED</b> Little Chazy River	<b>ACRES</b> 15.5
		<b>ACRES</b> 15.5	<b>EXPIRATION DATE</b> 9/30/2015

Total Cost-Share or Payment by Year										Total Contract Payment	
Year	2012	2013	2014								
Amount(\$)	\$49,455	\$12,919	\$12,919								\$75,293

**NOTES:** A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants					
Signature	Date	Signature	Date	Signature	Date
SHELBURNE FARMS					

Signatures of Reviewing Officials	
<b>District Conservationist - Technical Adequacy Certification</b> signature:  Date:	<b>NRCS Approving Official</b> Signature: HEATHER WETZSTEIN USDA electronic signature; manual signature not required.  Date: 8/25/2011

**PUBLIC BURDEN STATEMENT**  
 According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**PRIVACY ACT**  
 The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

**USDA NON-DISCRIMINATION STATEMENT**  
 "The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> WOODNOTCH FARMS INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UP
<b>County and State:</b> ADDISON County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> East Creek	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b>

- The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

#### 4. CONTRACT PARTICIPANTS

<b>Name, Address, Telephone</b> WOODNOTCH FARMS INC 245 BARNUM HILL RD SHOREHAM VT 05770 (802) 897-8201	<b>SSN or TAX ID if applicable</b> *****0261
<b>Signature</b> <i>Jonas C. Wood, president</i>	<b>Payment Shares</b> 100.00%
<b>Date</b> 8/19/11	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### 5. CONTRACT OBLIGATIONS

2012	2013	2014								Total
\$63,341	\$26,934	\$26,934								\$117,209
										\$117,209

#### 6. NRCS APPROVING OFFICIALS

<b>Application Approval</b>  JOHN THURGOOD USDA electronic signature; manual signature not required.  Date: 8/18/2011	<b>Contract Obligation</b>   Date:
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## CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> WOODNOTCH FARMS INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UP
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### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

### PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

### NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.

### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> WOODNOTCH FARMS INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UP
<b>County and State:</b> ADDISON County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> East Creek	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b>

- The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

#### 4. CONTRACT PARTICIPANTS

<b>Name, Address, Telephone</b> WOODNOTCH FARMS INC 245 BARNUM HILL RD SHOREHAM, VT 05770 (802) 897-8201	<b>SSN or TAX ID if applicable</b> *****0261
<b>Signature</b>	<b>Payment Shares</b> 100.00%
<b>Date</b>	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### 5. CONTRACT OBLIGATIONS

2012	2013	2014							Total
\$63,341	\$26,934	\$26,934							\$117,209
									\$117,209

#### 6. NRCS APPROVING OFFICIALS

<b>Application Approval</b>  JOHN THURGOOD USDA electronic signature; manual signature not required.	<b>Contract Obligation</b>  HEATHER WETZSTEIN USDA electronic signature; manual signature not required.
<b>Date:</b> 8/18/2011	<b>Date:</b> 8/25/2011

### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> WOODNOTCH FARMS INC	<b>Program and Contract Number:</b> EQIP 2008 741644110UP
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#### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

<b>PARTICIPANT</b> WOODNOTCH FARMS INC	<b>COUNTY AND STATE</b> ADDISON County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UP	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		<b>WATERSHED</b> East Creek	<b>ACRES</b> 349.4
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 1: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2012

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1	WASTE RECYCLING(633)	365.4 ac			13,886												
1a	Inject or Incorporate Manure	365.4 Acre	\$38.0000/Acre	PR1	13,886												

**Notes:** Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 2: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2013

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 226 Fields: 8; Tract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
2	WASTE RECYCLING(633)	384.3 ac				14,604											
2a	Inject or Incorporate Manure	384.3 Acre	\$38.0000/Acre	PR1		14,604											

**Notes:** Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 3: WASTE RECYCLING(633)** Practice Lifespan: 1 year Status: Planned 2014

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

**Fields:**  
Tract: 226 Fields: 8; Tract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

<b>PARTICIPANT</b> WOODNOTCH FARMS INC	<b>COUNTY AND STATE</b> ADDISON County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UP	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		<b>WATERSHED</b> East Creek	<b>ACRES</b> 349.4
			<b>EXPIRATION DATE</b> 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
3	WASTE RECYCLING(633)	384.3 ac					14,604							
3a	Inject or Incorporate Manure	384.3 Acre	\$38.0000/ Acre	PR <sup>1</sup>			14,604							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 4: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on fields 4 and 8 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft computer programs.

Fields:  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
4	MONITORING & EVALUATION(799)	1 no			37,125									
4a	Monitoring Device Installation	1 Number	\$37,125.000 0/ Number	PR <sup>1</sup>	37,125									

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 5: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 226 Fields: 8;



CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UP	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		WATERSHED East Creek	ACRES 349.4
			EXPIRATION DATE 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
5	MONITORING & EVALUATION(799)	1 no			5,790												
5a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 6: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

Fields:  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
6	MONITORING & EVALUATION(799)	1 no			750												
6a	Annual Field Management Data Collection	1 Number	\$750.0000 / Number	PR <sup>1</sup>	750												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
7	MONITORING & EVALUATION(799)	1 no			5,790												
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

<b>PARTICIPANT</b> WOODNOTCH FARMS INC	<b>COUNTY AND STATE</b> ADDISON County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UP	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		<b>WATERSHED</b> East Creek	<b>ACRES</b> 349.4
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 8: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
8	MONITORING & EVALUATION(799)	1 no				5,790										
8a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790										

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 9: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

**Fields:**  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
9	MONITORING & EVALUATION(799)	1 no				750										
	Annual Field Management Data Collection	1 Number	\$750.0000 / Number	PR <sup>1</sup>		750										

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

**Contract Item 10: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 226 Fields: 8;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

<b>PARTICIPANT</b> WOODNOTCH FARMS INC	<b>COUNTY AND STATE</b> ADDISON County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UP	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		<b>WATERSHED</b> East Creek	<b>ACRES</b> 349.4
			<b>EXPIRATION DATE</b> 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
10	MONITORING & EVALUATION(799)	1 no				5,790								
10a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790								

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 11: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
 Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
11	MONITORING & EVALUATION(799)	1 no					5,790							
11a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
 Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
12	MONITORING & EVALUATION(799)	1 no					5,790							
12a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

<b>PARTICIPANT</b> WOODNOTCH FARMS INC	<b>COUNTY AND STATE</b> ADDISON County, VT	<b>PROGRAM AND CONTRACT NUMBER</b> EQIP 2008 741644110UP	<b>SUBACCOUNT</b> America's Great Outdoors
<b>LAND UNITS OR LEGAL DESCRIPTION</b> Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		<b>WATERSHED</b> East Creek	<b>ACRES</b> 349.4
			<b>EXPIRATION DATE</b> 9/30/2015

**Contract Item 13: MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2014

**Field Management Log:** This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

**Fields:**  
Tract: 226 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2012 \$	2013 \$	2014 \$									
13	MONITORING & EVALUATION(799)	1 no					750									
13a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR <sup>1</sup>			750									

**Notes:** <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UP	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		WATERSHED East Creek	ACRES 349.4
			EXPIRATION DATE 9/30/2015

Total Cost-Share or Payment by Year								Total Contract Payment
Year	2012	2013	2014					
Amount(\$)	\$63,341	\$26,934	\$26,934					\$117,209

NOTES: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants					
Signature	Date	Signature	Date	Signature	Date
WOODNOTCH FARMS INC		<i>Jana C. Wood</i> President	8/19/11		

Signatures of Reviewing Officials	
District Conservationist - Technical Adequacy Certification Signature: <i>[Signature]</i> Date:	NRCS Approving Official Signature: JOHN THURGOOD USDA electronic signature; manual signature not required. Date: 8/18/2011

**PUBLIC BURDEN STATEMENT**

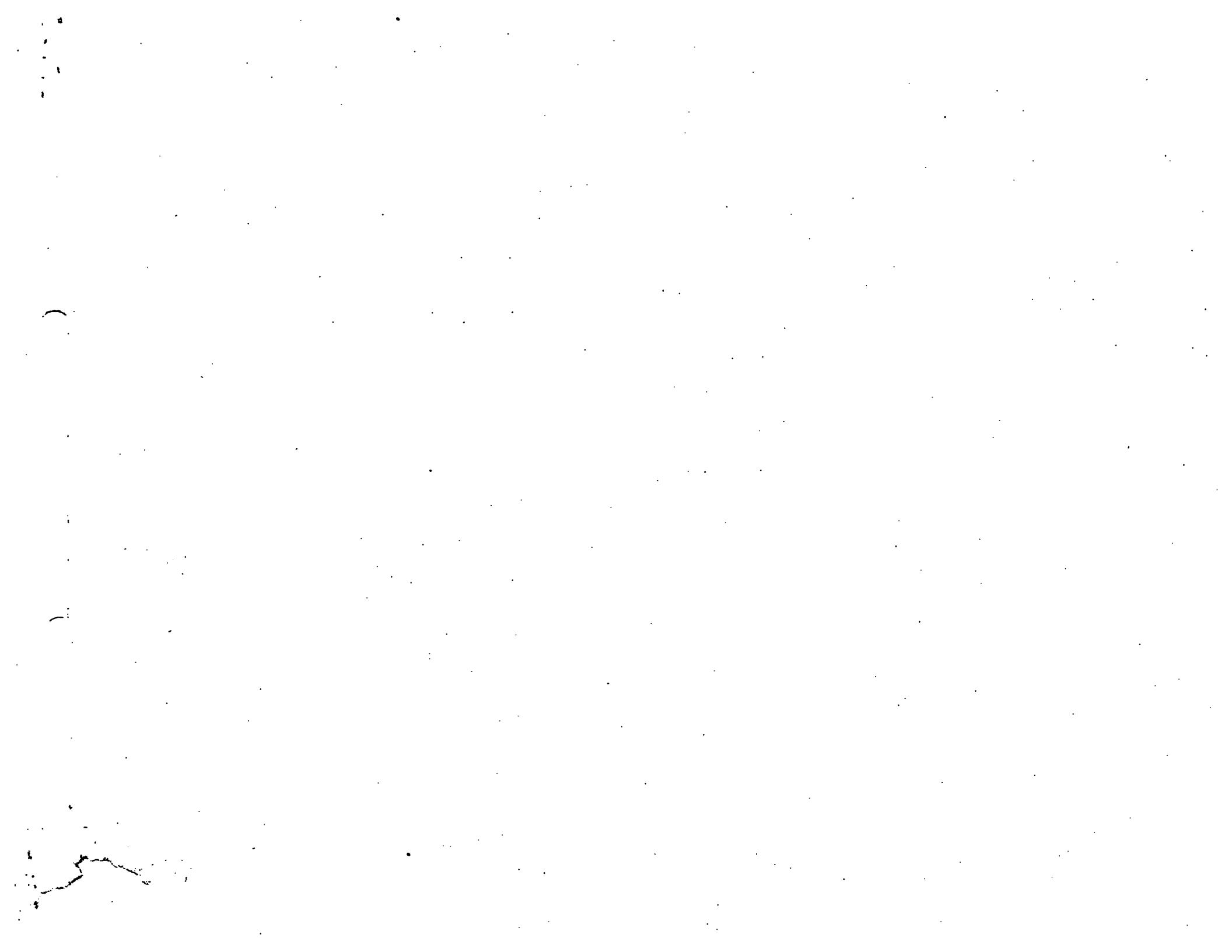
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

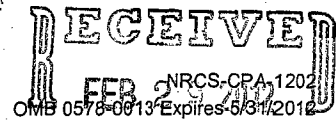
**PRIVACY ACT**

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

**USDA NON-DISCRIMINATION STATEMENT**

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."





**CONSERVATION PROGRAM CONTRACT**

BY: .....

<b>Participant:</b> KIMBALL BROOK FARM LLC	<b>Program and Contract Number:</b> EQIP 2008 741644110UV
<b>County and State:</b> CHITTENDEN County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> Mill Brook-Frontal Lake Champlain	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b>

- The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

**4. CONTRACT PARTICIPANTS**

<b>Name, Address, Telephone</b> KIMBALL BROOK FARM LLC 128 BAY VIEW RD NORTH FERRISBURGH, VT 05473 (802) 425-3020	<b>SSN or TAX ID if applicable</b> *****8480
<b>Signature</b> 	<b>Payment Shares</b> 100.00%
<b>Date</b> 8/19/11	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**5. CONTRACT OBLIGATIONS**

2012	2013	2014							Total
\$49,455	\$14,143	\$14,143							\$77,741
									\$77,741

**6. NRCS APPROVING OFFICIALS**

<b>Application Approval</b>  JOHN THURGOOD USDA electronic signature; manual signature not required.  Date: 8/18/2011	<b>Contract Obligation</b>   Date:
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## CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> KIMBALL BROOK FARM LLC	<b>Program and Contract Number:</b> EQIP 2008 741644110UV
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### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

### PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

### NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.



### CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> KIMBALL BROOK FARM LLC	<b>Program and Contract Number:</b> EQIP 2008 741644110UV
<b>County and State:</b> CHITTENDEN County, VT	<b>Subaccount:</b> America's Great Outdoors
<b>Watershed:</b> Mill Brook-Frontal Lake Champlain	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through <b>9/30/2015</b>

- The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

#### 4. CONTRACT PARTICIPANTS

<b>Name, Address, Telephone</b> KIMBALL BROOK FARM LLC 128 BAY VIEW RD NORTH FERRISBURGH, VT 05473 (802) 425-3020	<b>SSN or TAX ID if applicable</b> *****8480
<b>Signature</b>	<b>Payment Shares</b> 100.00%
<b>Date</b>	
<b>Signature required for modifications</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Signature acceptable for payments</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### 5. CONTRACT OBLIGATIONS

2012	2013	2014							Total
\$49,455	\$14,143	\$14,143							\$77,741
									\$77,741

#### 6. NRCS APPROVING OFFICIALS

<b>Application Approval</b>  <b>JOHN THURGOOD</b> USDA electronic signature; manual signature not required.  <b>Date:</b> 8/18/2011	<b>Contract Obligation</b>  <b>HEATHER WETZSTEIN</b> USDA electronic signature; manual signature not required.  <b>Date:</b> 8/23/2011
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## CONSERVATION PROGRAM CONTRACT

<b>Participant:</b> KIMBALL BROOK FARM LLC	<b>Program and Contract Number:</b> EQIP 2008 741644110UV
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### OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

### NONDISCRIMINATION STATEMENT

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CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.	WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015

Contract Item 1: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on Fields 1 and 4 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft computer programs.

**Fields:**  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
1	MONITORING & EVALUATION(799)	1 no			37,125												
1a	Monitoring Device Installation	1 Number	\$37,125.000 0/ Number	PR <sup>1</sup>	37,125												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 2: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year for fields 1 and 4. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
2	MONITORING & EVALUATION(799)	1 no			5,790												
2a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 3: **MONITORING & EVALUATION(799)** Practice Lifespan: 1 year Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year for fields 1 and 4. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

**Fields:**

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.		WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7
			EXPIRATION DATE 9/30/2015

Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
3	MONITORING & EVALUATION(799)	1 no			5,790												
3a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>	5,790												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 4: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed for fields 1 and 4.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
4	MONITORING & EVALUATION(799)	1 no			750												
4a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR <sup>1</sup>	750												

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 5: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year for fields 1 and 4. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved oxygen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
5	MONITORING & EVALUATION(799)	1 no				5,790											
5a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.		WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7
			EXPIRATION DATE 9/30/2015

Contract Item 6: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed for fields 1 and 4.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
6	MONITORING & EVALUATION(799)	1 no				750											
6a	Annual Field Management Data Collection	1 Number	\$750.0000/Number	PR <sup>1</sup>		750											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
7	MONITORING & EVALUATION(799)	1 no				5,790											
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>		5,790											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 8: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 405 Fields: 1;

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.		WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7
			EXPIRATION DATE 9/30/2015

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
8	MONITORING & EVALUATION(799)	1 no					5,790							
8a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 9: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
9	MONITORING & EVALUATION(799)	1 no					5,790							
9a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR <sup>1</sup>			5,790							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 10: MONITORING & EVALUATION(799) Practice Lifespan: 1 year Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed for fields 1 and 4.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR									
					2012 \$	2013 \$	2014 \$							
10	MONITORING & EVALUATION(799)	1 no					750							
10a	Annual Field Management Data Collection	1 Number	\$750.0000 / Number	PR <sup>1</sup>			750							

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.	WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015

Contract Item 11: WASTE RECYCLING(633) Practice Lifespan: 1 year Status: Planned 2013

This conservation practice will be applied annually on field 1. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:  
ct: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
11	WASTE RECYCLING(633)	47.7 ac				1,813											
11a	Inject or Incorporate Manure	47.7 Acre	\$38.0000/Acre	PR <sup>1</sup>		1,813											

Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: WASTE RECYCLING(633) Practice Lifespan: 1 year Status: Planned 2014

This conservation practice will be applied annually on field 1. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:  
Tract: 405 Fields: 1;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR												
					2012 \$	2013 \$	2014 \$										
12a	WASTE RECYCLING(633)	47.7 ac					1,813										
	Inject or Incorporate Manure	47.7 Acre	\$38.0000/Acre	PR <sup>1</sup>			1,813										

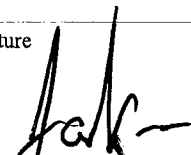
Notes: <sup>1</sup>Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, VT	PROGRAM AND CONTRACT NUMBER EQIP 2008 741644110UV	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:458 Tract(s):405.	WATERSHED Mill Brook-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015

Total Cost-Share or Payment by Year								Total Contract Payment	
Year	2012	2013	2014						
Amount(\$)	\$49,455	\$14,143	\$14,143						\$77,741

NOTES: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.  
 B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.  
 C. All cost share rates are based on average cost (AC) with the following exceptions:  
 AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.  
 D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants			
Signature	Date	Signature	Date
KIMBALL BROOK FARM LLC			8/19/11

Signatures of Reviewing Officials District Conservationist - Technical Adequacy Certification Signature: Date:	NRCS Approving Official Signature: JOHN THURGOOD USDA electronic signature; manual signature not required. Date: 8/18/2011
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