U.S. DEPARTMENT OF COMMERCE	2. Award Or Grant Number
Performance Progress Report	50-50-M09004
	4. Report Date (MM/DD/YYYY)
	04-12-2012

1. Recipient Name	6. Designated Entity On Behalf Of:
Vermont Center for Geographic Information, Inc.	N/A

3. Street Address	8. Final Report?	9. Report Frequency
58 South Main Street, Suite 2,	◯ Yes	◉ Quarterly
5. City, State, Zip Code	◉ No	◯ Semi Annual
Waterbury, VT 05676		◯ Annual
		◯ Final

7. Project / Grant Period Start Date: (MM/DD/YYYY)	7a. End Date: (MM/DD/YYYY)	7b. Reporting Period End Date:	9a. If Other, please describe:
10-01-2009	09-30-2014	03-31-2012	N/A

10. Broadband Mapping   10a. Provider Table

Number of Providers Identified	Number of Providers Contacted	Number of Agreements Reached for Data Sharing	Number of Partial Data Sets Received	Number of Complete Data Sets	Number of Data Sets Verified
38	38	10	0	37	37

10b. Are you submitting the required PROVIDER DATA by using the Excel spreadsheet provided by the SBDD grants office? ◯ Yes ◉ No

10c. Have you encountered challenges with any providers that indicate they may refuse to participate in this project? ◉ Yes ◯ No

10d. If so, describe the discussions to date with each of these providers and the current status

A company called One Communications has not provided data this submission period. They were bought out by a larger firm and the new owners did not believe the coverage area being claimed by One Communications was correct. One Communications was a very small provider in the state. As a result there was no significant impact to the broadband coverage data submitted on April 1 to NTIA.

10e. If you are collecting data through other means (e.g. data extraction, extrapolation, etc), please describe your progress to date and the relevant activities to be undertaken in the future

Data Development Methodology: A variety of data source and data collection methods are used to identify the characteristics and geographic extent of broadband service in Vermont. Here is a quick breakdown

- Cable: Mapped to street/street-segment level
- DSL: Mapped as polygons (usually Exchange areas) or address points (list of addresses submitted by provider).
- Fiber Optic: Mapped as address points (list of address submitted by provider)
- Fixed Wireless (WISP): Mapped as polygons (propagation maps prepared by independent contractor using data provided by WISPs)
- Mobile Wireless: Mapped as polygons (data submitted by provider)
- Satellite: Mapped as polygons (data submitted by provider). Providers of satellite-based broadband services claimed that they covered the entire state.
The cable, DSL, fiber optic, and fixed wireless (WISP) layers were "intersected" with Vermont's E911 address point layer to determine broadband availability at the address-level. This information was then intersected with Vermont's 2000 Census Block layer to calculate availability at the block level. The April 1st, 2011 deliverable includes Census block-level data for Census Blocks less than or equal to 2 sq miles, and address level data for Census blocks greater than 2 sq miles.

Mobile wireless and satellite-based broadband polygons were submitted by providers to VCGI. They were formatted to match NTIA specification, but otherwise forwarded as-is.

Vermont's broadband providers submitted data which was used to populate a table listing maximum advertised and typical speeds by Metropolitan Statistical & Rural Service Areas (Cellular Market Areas). This information was used to populate the speed information contained in the submitted broadband, including speed information at the census block level. In numerous cases providers did not submit typical speed information.

10f. Please describe the verification activities you plan to implement

Future drive testing for mobile wireless availability verification is still under consideration for one or more times before completion of the contract. Current thinking is that we may do drive testing in summer 2012 and again in the summer of 2014. The results from that effort will be compared to the drive testing results received in 2010. A final decision on the 2012 drive testing will be made soon.

We have a plan to integrate the locations of residents that have voluntarily reported themselves as unserved on our BroadbandVT.org

website into the submitted SBDD data. These reported addresses with no service may be used to constrain or reduce the over-reporting of coverage we currently see in the provider submissions. The current plan under consideration is for these submitted unserved address locations to be given to those providers that are claiming coverage at that location, and unless they can verify coverage their availabilty coverage will be reduced.

10g. Have you initiated verification activities? ⦿Yes   ◯No

10h. If yes, please describe the status of your activities

Our Team has collected data for mobile wireless broadband test data covering ~3400 miles of Federal Aid roads in VT. The drive testing was completed by a contractor in June of 2010. The data from the drive testing was received in September of 2010. An assessment of fixed wireless provider coverage was also done by the same contractor. A final report from the contractor was received on November 30, 2010. A copy of the report was included with the December 2010 Quarterly Report package. The contractor's wireless broadband report summarizes the results of in-state verification for both mobile and fixed wireless.

Each broadband provider that supplies broadband service data in some manner to the VT broadband data inventory is given the option to view a final version of their data submission as it will be represented in the NTIA delivery. All of the providers that requested to see what was being submitted to NTIA representing their coverage area received either a copy of the data, a hardcopy map or digital map graphic in accordance with their preference.

The VT BB Mapping Team uses the data from surveys conducted by the UVM Center for Rural Studies (CRS) as verification for the data.

Additional verification information is available through the BroadbandVT.org website. The site allows the public to submit unserved or underserved addresses to the Broadband Mapping Team and it locates the submitted address on the map for the public to see. The VT Dept. of Public Service keeps a record of every report submitted to the site and, if the submitter asks for more information, VT DPS will contact them and let them know when Broadband is scheduled to be available at their address based upon scheduled BTOP and RUS plans in the state.

10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities

N/A

Staffing

10j. How many jobs have been created or retained as a result of this project?

5.97

10k. Is the project currently fully staffed?   ⦿Yes   ◯No

10l. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed

N/A

10m. When fully staffed, how many full-time equivalent (FTE) jobs do you expect to create or retain as a result of this project?

When fully staffed this effort should create or retain between 4-8 FTEs depending upon the activities of the quarter.

10n. Staffing Table

Job Title	FTE %	Date of Hire
Pericle Communications - Project Manager - position maintained	0	01/01/2010
VCGI - Director of Enterprise GIS Services - position maintained	41	10/01/2009
VCGI - Support Staff - position maintained	30	10/01/2009
Applied Geographics - position maintained	21	06/15/2010
Univ. of VT/Center for Rural Studies - position maintained	29	10/01/2009
VT Dept. of Public Service - Telecommunications Infrastructure Specialist - position maintained	100	10/20/2009
VT Telecommunications Authority - Director of Broadband Information and Coordination - position maintained	100	10/01/2010

VT Telecommunications Authority - Support Staff - position maintained	10	09/28/2010
Northwest Regional Planning Commission - Planner - position maintained	100	12/01/2010
Northwest Regional Planning Commission - Support Staff - position maintained	66	12/01/2010
Marketing Partners - Marketing Specialist - position maintained	100	08/02/2010

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Sub Contracts

10o. Subcontracts Table

Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal Funds	In-Kind Funds
Pericle Communications	Propagation mapping and drive testing	Y	Y	01/01/2010	09/30/2014	307,240	0
UVM/Center for Rural Studies	Customer survey and verification	Y	Y	10/01/2009	09/30/2014	254,445	0
VT Dept. of Public Service	Data collection from providers and content management of broadbandvt.org	Y	Y	09/15/2009	09/30/2014	486,255	0
Applied Geographics, Inc.	Broadbandvt.org website development	Y	Y	06/15/2010	12/31/2012	103,890	0
Marketing Partners, Inc.	Broadbandvt.org marketing support	Y	Y	08/02/2010	09/30/2012	121,750	0
VT Telecommunications	Employment of the Director of Broadband Outreach and Coordination	Y	Y	09/28/2010	09/30/2014	525,420	132,975
Northwest Regional Planning Commission	Contract management and participation in the Regional Broadband Plan development	Y	Y	12/01/2010	11/30/2012	250,034	62,509

Add Row   Remove Row

Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $1,471,322   10q. How much Remains? $2,071,674

10r. How much matching funds have been expended as of the end of last quarter? $839,159   10s. How much Remains? $46,591

10t. Budget Worksheet

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	$342,105	$0	$342,105	$135,393	$0	$135,393
Personnel Fringe Benefits	$254,844	$0	$254,844	$99,832	$0	$99,832
Travel	$8,000	$0	$8,000	$6,186	$0	$6,186
Equipment	$21,000	$0	$21,000	$3,396	$0	$3,396
Materials / Supplies	$55,275	$0	$55,275	$20,614	$0	$20,614
Subcontracts Total	$2,382,224	$195,484	$2,577,708	$1,025,483	$148,893	$1,174,376
Subcontract #1	$307,240	$0	$307,240	$256,120	$0	$256,120
Subcontract #2	$254,445	$0	$254,445	$80,820	$0	$80,820
Subcontract #3	$486,255	$0	$486,255	$216,600	$0	$216,600

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontract #4	$103,890	$0	$103,890	$98,850	$0	$98,850
Subcontract #5	$1,230,394	$195,484	$1,425,878	$373,093	$148,893	$521,986
Construction	$0	$0	$0	$0	$0	$0
Other	$6,000	$690,266	$696,266	$100	$690,266	$690,366
Total Direct Costs	$3,069,448	$885,750	$3,955,198	$1,291,004	$0	$2,130,163
Total Indirect Costs	$473,548	$0	$473,548	$180,318	$0	$180,318
Total Costs	$3,542,996	$885,750	$4,428,746	$1,471,322	$839,159	$2,310,481
% Of Total	80	20	100	64	36	100

Hardware / Software

10u. Has the project team purchased the software / hardware described in the application? ◉Yes ○No

10v. If yes, please list

1 workstation - Dell T7500 - $3396.00

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased

The Team is completing purchase of Geocortex development software as part of a statewide partnership agreement. The license cost will be shared among all of the state partners with 2 seats for training on the software included. Delivery has not yet been completed.

10x. Has the project team purchased or used any data sets? ◉Yes ○No

10y. If yes, please list

Connectivity Data from InfoGroup USA that contains the following information; Contact id, service provider, connection type, update date, address, address2, city, state, zip, zip4, connection isp, IP, Longitude, Latitude. This data was received in July 2011.

10z. Are there any additional project milestones or information that has not been included? ○Yes ◉No

10aa. If yes, please list

N/A

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

There are no significant obstacles at this time.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project
VT SBDD project management is planning a full project review with all Team partners and most of the sub-contractors in the late May - early June timeframe. Areas of review will include data collection, verification, marketing, outreach/website, planning, For each of those areas we will review the following:

1. Funding - spent/unspent/unallocated to date and remaining for all sub-contractors, VCGI and the grant as a whole.
2. Goals and methodology review and suggestions for improvement for each area of the grant performance.
3. Allocating unspent/unallocated funding to future priorities
4. Supporting the future needs and goals of the state broadband efforts in all areas.
5. Project plan modifications.

Subsequent to this full project review VT project management will document and submit any proposed project modifications to NTIA SBDD project management for review and approval prior to implementation.

11. Broadband Planning

11a. Please describe progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Be sure to include a description of each major activity / milestone that you plan to complete and your current status

BroadbandVT Consortium - The Director of Broadband Outreach and Coordination continues to focus on four key areas of activity and communication. Over the past three months communications have included the following: 1) Outreach to Vermont Agency of Travel and Tourism, hospitality leaders and Chambers of Commerce. 2) Press releases and updates to the Vermont Telecommunications Authority (VTA) and BroadbandVT.org websites and Twitter 3)Support to ConnectVT (Governor's office) of statewide Digital Literacy and Adoption efforts 4) Working with regional tech and innovation teams to incorporate into regional broadband adoption plans community level work established by e- Vermont program partners.

Regional Broadband Planning - Regional Tech Innovation teams, whose work was delayed by Hurricane Irene, are now in the drafting phase of their broadband adoption plans. E-Vermont, the community broadband adoption program in 24 Vermont communities has laid much ground work for how communities improve local content, make municipal websites relevant to community needs and to expand small businesses through appropriate development and management of an online presence. This federally funded program ends in June and the regional planning commissions look to the successes of eVermont to develop strategies and publish resources that support broadband adoption for economic development. Regional tech and innovation teams are making connections with e Vermont community leaders that will assure continuity of eVermont founded resources beyond the life of the grant.

A full description of the activities of the VT Broadband Outreach Coordinator in the past quarter is included as an attachment to this PPR. See the document called VT_Q1_2012_Director_Outreach_Report.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

N/A

11c. Does the Project Team anticipate any changes to the project plan for Broadband Planning? ⦿Yes ◯ No

11d. If yes, please describe these anticipated changes. Please note that NTIA will need to approve changes to the Project Plan before they can be implemented

See 10cc above in reference to possible future changes to the project plan.

Funding

11e. How much Federal funding has been expended as of the end of the last quarter? $0   11f. How much Remains? $0

11g. How much matching funds have been expended as of the end of last quarter? $0   11h. How much Remains? $0

11i. Planning Worksheet						
Personal Salaries	$0	$0	$0	$0	$0	$0
Personnel Fringe Benefits	$0	$0	$0	$0	$0	$0
Travel	$0	$0	$0	$0	$0	$0
Equipment	$0	$0	$0	$0	$0	$0
Materials / Supplies	$0	$0	$0	$0	$0	$0
Subcontracts Total	$0	$0	$0	$0	$0	$0
Subcontract #1	$0	$0	$0	$0	$0	$0
Subcontract #2	$0	$0	$0	$0	$0	$0
Subcontract #3	$0	$0	$0	$0	$0	$0
Subcontract #4	$0	$0	$0	$0	$0	$0
Subcontract #5	$0	$0	$0	$0	$0	$0

11i. Planning Worksheet						
Construction	$0	$0	$0	$0	$0	$0
Other	$0	$0	$0	$0	$0	$0
Total Direct Costs	$0	$0	$0	$0	$0	$0
Total Indirect Costs	$0	$0	$0	$0	$0	$0
Total Costs	$0	$0	$0	$0	$0	$0
% Of Total	0	0	0	0	0	0

Additional Planning Information

11j. Are there any additional project milestones or information that has not been included?

N/A

11k. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the Project Team is employing

N/A

11l. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

N/A

12. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purpose set forth in the award documents.	
12a. Typed or Printed Name and Title of Authorized Certifying Official David F Brotzman Executive Director	12c. Telephone (area code, number, and extension) 802-882-3003
	12d. Email Address davidb@vcgi.org
12b. Signature of Authorized Certifying Official Submitted Electronically	12e. Date Report Submitted (Month, Day, Year) 04-27-2012