U.S. DEPARTMENT OF COMMERCE **Performance Progress Report**	2. Award Or Grant Number 50-50-M09004
	4. Report Date (MM/DD/YYYY) 07-07-2011

1. Recipient Name Vermont Center for Geographic Information, Inc.	6. Designated Entity On Behalf Of: N/A	
3. Street Address 58 South Main Street, Suite 2,	8. Final Report? ○ Yes ◉ No	9. Report Frequency ◉ Quarterly ○ Semi Annual ○ Annual ○ Final
5. City, State, Zip Code Waterbury, VT 05676		

7. Project / Grant Period Start Date: (MM/DD/YYYY) 10-01-2009	7a. End Date: (MM/DD/YYYY) 09-30-2014	7b. Reporting Period End Date: 06-30-2011	9a. If Other, please describe: 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
43	43	10	0	40	40

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

As of this reporting period there were three providers in the state that is not giving us data. They are GlobalNet, Great Awk Wireless and Great Northern Communications. This quarter, Great Awk Wireless actually did make an attempt to send us data, but it was not in a usable format. We will work with them to try to improve their submission for the October, 2011 submission.

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 were 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 years 3 and 5 of the contract. The actual coverage of drive testing that will be done is dependent upon the strategy we employ to use the funding in the most meaningful manner to improve data quality and the state's understanding of mobile wireless availability. It may be necessary to perform only one more drive testing exercise. A final decision will not be made this year.

The initial list of Community Anchor Institutions (CAIs) was derived from existing data sources including the VT Critical Facilities Database and Public Libraries Survey from the Institute of Museum and Library Services. Community Anchor Institutions include schools, libraries, medical facilities, public safety facilities, universities and colleges, and other community facilities such as town halls/ offices. An email and hard-copy mailing was sent to every institution in the list. They were asked to fill out an online survey. Follow-up emails and phone calls were made to increase the response rate. The data delivered to the NTIA includes all CAIs, but only includes broadband information for a subset. Additional broadband institutions will be added as their information becomes available.

The Team has purchased 3rd party data for verification from InfoGroup USA. Based upon our review of the sample data and additional information provided by InfoGroup, we expect this data should add connectivity verification information for up to 114,000 addresses in VT. It remains to be seen how well the data geocodes to our state E911 data but preliminary testing shows that we should have a reasonable success if we spend time to resolve the unlocated addresses. Delivery of the InfoGroup data is expected in July.

Additionally, field verification and public survey methods will continue for the duration of the grant as described in our original and supplemental grant proposals.

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 used the data from surveys conducted by the UVM Center for Rural Studies (CRS) as verification for the data. A full report on the CRS spring 2011 verification activity is included as an attachment to this document (CRS_BB_Map_Verification-2-2011).

Additional verification information is available through the BroadbandVT.org website. In May the Team did a public release of the website as part of a press conference with the Governor of VT. 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?

6.63

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 that quarter.

10n. Staffing Table

Job Title	FTE %	Date of Hire
Pericle Communications - position maintained	4	1/1/2010

Senior Project Manager - VCGI - position maintained	74	10/01/2009
Applied Geographics - position maintained	21	06/15/2010
University of VT, Center for Rural Studies positions maintained	34	10/01/2009
Telecommunications Infrastructure Specialist- Dept. of Public Service	100	10/20/2009
Director of Broadband Information and Coordination -VT Telecommunications Authority	100	10/01/2010
Staff Support - VT Telecommunications Authority - position maintained	10	09/28/2010
Northwest Regional Planning Commission - Planner - position maintained	100	12/01/2010
Marketing Partners - Marketing Specialist - position maintained	100	08/02/2010
Staff Support - Northwest Regional Planning Commission - position maintained	20	12/01/2010
Northwest Regional Planning Commission - Project Manager - position maintained	100	12/01/2010

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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	12/31/2011	251,800	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	12/30/2012	94,640	0
Marketing Partners Inc.	BroadbandVT.org Marketing Support	Y	Y	08/02/2010	09/30/2012	121,750	0
Vermont Telecommunications Authority	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

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Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $978,701   10q. How much Remains? $2,564,294

10r. How much matching funds have been expended as of the end of last quarter? $813,444   10s. How much Remains? $72,306

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	$342,220	$0	$342,220	$101,087	$0	$101,087
Personnel Fringe Benefits	$252,032	$0	$252,032	$74,340	$0	$74,340

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Travel	$8,000	$0	$8,000	$3,958	$0	$3,958
Equipment	$21,000	$0	$21,000	$3,396	$0	$3,396
Materials / Supplies	$55,275	$0	$55,275	$3,148	$0	$3,148
Subcontracts Total	$2,388,704	$195,484	$2,584,188	$654,111	$123,178	$777,289
Subcontract #1	$251,800	$0	$251,800	$251,800	$0	$251,800
Subcontract #2	$254,445	$0	$254,445	$57,316	$0	$57,316
Subcontract #3	$486,255	$0	$486,255	$144,070	$0	$144,070
Subcontract #4	$94,640	$0	$94,640	$79,990	$0	$79,990
Subcontract #5	$1,301,564	$195,484	$1,497,048	$120,935	$123,178	$244,113
Construction	$0	$0	$0	$0	$0	$0
Other	$6,000	$690,266	$696,266	$100	$690,266	$690,366
Total Direct Costs	$3,073,231	$885,750	$3,958,981	$840,140	$813,444	$1,653,584
Total Indirect Costs	$469,765	$0	$469,765	$138,561	$0	$138,561
Total Costs	$3,542,996	$885,750	$4,428,746	$978,701	$813,444	$1,792,145
% Of Total	80	20	100	55	45	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 still evaluating the need for the software identified in our proposals. Expectations are that we will be making a purchase sometime during year 2 of the project.

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

10y. If yes, please list

1. 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 has just been ordered and should be 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

Maintaining staffing is becoming an issue as personnel have left the project or moved on to other activities. In each case, VCGI management works directly with the sub-contractor to make sure that the transition of personnel doesn't negatively impact the contracted responsibilities of the sub-contractor. This is not unexpected and it is happening at a manageable rate at this time.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project
Funding (section 10t) data does not have enough Subcontract rows for our project. I was instructed to include the additional subcontract information in an Excel spreadsheet and include it as an attachment to the report. The Funding information for Subcontracts 6, 7, 8 and 9 of our project are included in the Excel spreadsheet attachment included with this report and named VT-Q2-2011_PPR_Sec10t_AdditionalSubcontracts.xls

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

The Director of Outreach and Coordination uses a variety of communications tools and avenues to round –up an overview of broadband initiatives in Vermont and to communicate the broader vision that positive change is underway.

As a partner in the eVermont initiative, the Director participates in meetings about the activities in 24 Vermont communities that were chosen to receive services and resources aimed at bolstering broadband adoption. The eVermont leaders provided best practices development and training to the leaders of the Regional Technology Planning Teams. eVermont's expertise in community building is instrumental in guiding the Tech Team leaders through a visioning process with their tech teams.

The membership of the Regional Technology Planning teams has been finalized with representation of key sectors including education, business, healthcare, libraries, the arts and public safety. At workday events for the leaders, teams discussed highpoints of their initial team meetings and identified next steps. They also collaborated on the formal layout and Table of Contents. While each region will have its own plan, each plan will follow a similar format that folds into the State Broadband Plan.

The Director provided training documentation for the team members at meetings and via Basecamp. Throughout the legislative session, the Director worked with the Executive Director of the Vermont Telecommunications Authority (VTA) to develop and distribute informational tools describing federally and state funded broadband initiatives. Many of these tools were made available on the BroadbandVT.org website, which the Governor promoted in a press conference in May.

A more complete progress report of the Planning Section activities can be found in the report of the Q2 2011 Director of Outreach and Coordination that is included as an attachment to this PPR.

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

N/A

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

11i. Planning Worksheet						
Subcontract #3	$0	$0	$0	$0	$0	$0
Subcontract #4	$0	$0	$0	$0	$0	$0
Subcontract #5	$0	$0	$0	$0	$0	$0
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?

Additional information about Broadband Planning activities in this quarter are included in the attached Activities Report from the Director of Broadband Outreach and Coordination in MS Word format included as an attachment in this reporting package.

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) 08-17-2011