

**QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS**

General Information		
<b>1. Federal Agency and Organizational Element to Which Report is Submitted</b>  Department of Commerce, National Telecommunications and Information Administration	<b>2. Award Identification Number</b>  NT10BIX5570066	<b>3. DUNS Number</b>  066723990
<b>4. Recipient Organization</b>  Bristol Virginia Utilities Board 15022 Lee Hwy , Bristol, VA 24202-4256		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2013	<b>6. Is this the last Report of the Award Period?</b>  <input checked="" type="radio"/> Yes <input type="radio"/> No	
<b>7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.</b>		
<b>7a. Typed or Printed Name and Title of Certifying Official</b>  Stacey Pomrenke  CFO	<b>7c. Telephone (area code, number and extension)</b>  2766458707	<b>7d. Email Address</b>  spomrenke@bvua.com
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  04-03-2014	

**Project Indicators (This Quarter)**

**1. Please describe significant project accomplishments completed during this quarter (600 words or less).**

During Q3-2013, BVU Authority completed project on schedule and within budget.

BVU Authority's Southwest Virginia Middle Mile Project consists of backbone fiber additions to its existing network that brings up to 10 Gigabits per second middle mile service to a rural, nine county region of southwestern Appalachian Virginia. Seven of the nine targeted counties qualify as economically distressed, with per-capita incomes that are 80 percent or less of the national average. All nine counties lack adequate broadband services throughout the county.

Project accomplishments include:

- (1) 370 miles of fiber build out and lit
- (2) Fiber installed on 30 individual fiber routes constructed throughout the nine counties
- (3) 49 last mile distribution cabinets installed; and
- (4) 567 last mile network access points (NAPs) installed.

Cabinets and NAP's were installed to incent and assist with providing last mile connectivity. This allows BVU Authority and other last mile providers additional interconnection facilities throughout the network for access to any community along the 30 routes.

The completed Broadband Technology Opportunities Program middle mile infrastructure now brings the opportunity for fiber optic, high capacity broadband to approximately 11,400 households, businesses, hospitals, schools, libraries, government entities, and other Community Anchor Institutions in the nine Southwest Virginia counties.

Even though the project was a middle mile project, BVU Authority, through its own resources, continues to work to establish last-mile connections to the communities situated along the middle mile routes. BVU Authority considers 5,300 of the possible connections to be "on-route" meaning that the establishment is within 1/2 mile of the middle mile fiber backbone and will utilize a fiber-to-the-premise (FTTP) connection capable of delivering broadband speeds of 20 Mbps. The remaining 6,100 possible connections are deemed "off-route" due to being located greater than 1/2 mile from the fiber backbone and will connect using a wireless broadband technology capable of delivering broadband speeds of 5 Mbps.

In BVU Authority's approved Fiscal Year 2014 capital project budget (July 1, 2013 – June 30, 2014) , BVU Authority had appropriated \$450,000 to reach approximately an additional on-route 450 entities (households, businesses, and Community Anchor Institutions) with last mile connectivity and is on target to meet this goal.

BVU Authority's intention is to continue to appropriate approximately \$450,000 per annum to continue last-mile connections. BVU Authority will diligently continue in its efforts to find additional capital resources (e.g. Virginia Tobacco Commission, State and Federal government programs) to connect additional households, businesses, or Community Anchor Institutions in the upcoming fiscal cycles. BVU Authority is also actively looking to create relationships with wireless broadband vendors to assist in providing the wireless off-route connections.

Also, in an agreement for use of Virginia Department of Transportation's Rights-of-Way for fiber build-out, BVU Authority has agreed to provide the Virginia Department of Transportation access to 12 dark fibers over two routes encompassing 15.7 miles (188 strand-miles), in perpetuity.

**2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).**

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	100	Percentage based on [expensed + in-kind dollars] versus overall project dollars. Final [expensed + in-kind dollars] are at 100% of project budget.
2b.	Environmental Assessment	100	All activities and costs associated with this item are complete.
2c.	Network Design	100	All activities and costs associated with this item are complete.
2d.	Rights of Way	100	All activities and costs associated with this item are complete.
2e.	Construction Permits and Other Approvals	100	All activities and costs associated with this item are complete.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2f.	Site Preparation	100	All activities and costs associated with this item are complete.
2g.	Equipment Procurement	100	All activities and costs associated with this item are complete.
2h.	Network Build (all components - owned, leased, IRU, etc)	100	All activities and costs associated with this item are complete.
2i.	Equipment Deployment	100	All activities and costs associated with this item are complete.
2j.	Network Testing	100	All activities and costs associated with this item are complete.
2k.	Other (please specify): Grant preparation	100	All activities and costs associated with this item are complete.

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

No issues encountered affecting completion.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	370	Original baseline of 388 miles was based on driving miles and expected mileage that would be aerial and what mileage would be buried. After completion of engineering, minor variances were encountered due to need to go aerial in some areas expected to be buried due to hard rock found. Other variances were due to being able to more specifically measure mileage built out versus driving miles.
New network miles leased	0	N/A
Existing network miles upgraded	0	N/A
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	370	Original baseline of 388 miles was based on driving miles and expected mileage that would be aerial and what mileage would be buried. After completion of engineering, minor variances were encountered due to need to go aerial in some areas expected to be buried due to hard rock found. Other variances were due to being able to more specifically measure mileage built out versus driving miles.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	30	Eleven additional routes (interconnection points) completed this quarter bringing total to thirty. Original application/baseline indicated 31 interconnection points, but one route was dropped due to overlap with another Broadband Technology Opportunities Program project in Russell County.  Recap: County      Routes Buchanan    4 Bland        1 Dickenson   3

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
		Russell 6 Scott 1 Smyth 2 Tazewell 4 Washington 8 Wythe 1

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	1
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	0
Average term of signed agreements (in quarters)	0

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:

Virginia Department of Transportation. BVU Authority provided 12 fibers over two routes encompassing 15.7 miles (188 strand-miles) of dark fiber in exchange for Rights-of-Way access, in perpetuity.

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

The current available wholesale tiers are as follows:

- (1) 10 Megabits per second;
- (2) 20 Megabits per second;
- (3) 50 Megabits per second;
- (4) 100 Megabits per second;
- (5) 200 Megabits per second;
- (6) 500 Megabits per second;
- (7) 1000 Megabits per second;

Higher speeds (e.g. 2.5 Gigabits per second) are available per individual quotes due to multiple factors

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this this third party operates (600 words or less).

N/A

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	BVU Authority will continue to support other third-party last-mile providers to bring services to communities along the middle mile routes.
	Providers with signed agreements receiving improved access	0	N/A

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Providers with signed agreements receiving access to dark fiber	1	BVU Authority has an Memo of Understanding with the Virginia Department of Transportation to provide access to 12 dark fibers over two routes encompassing 15.7 miles (188 strand-miles) in exchange for use of Virginia Department of Transportation Rights-of-Way, in perpetuity.
	Please identify the speed tiers that are available and the number of subscribers for each	7	The current available wholesale tiers are as follows:  (1) 10 Megabits per second; 0 subscribers (2) 20 Megabits per second; 0 subscribers (3) 50 Megabits per second; 1 subscribers (4) 100 Megabits per second; 0 subscribers (5) 200 Megabits per second; 0 subscribers (6) 500 Megabits per second; 0 subscribers (7) 1000 Megabits per second; 0 subscribers  Higher speeds (e.g. 2.5 Gigabits per second) are available per individual quotes due to multiple factors
Community Anchor Institutions (including Government institutions)	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number or subscribers for each	0	N/A
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

**7. Please describe any special offerings you may provide (600 words or less).**

BVU Authority has an Memo of Understanding with the Virginia Department of Transportation to provide access to 12 dark fibers over two routes encompassing 15.7 miles (188 strand-miles) in exchange for use of Virginia Department of Transportation Rights-of-Way.

**8a. Have your network management practices changed over the last quarter?**     Yes     No

**8b. If so, please describe the changes (300 words or less).**

N/A

**9. Community Anchor Institutions:**  
Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
N/A	N/A	N/A	N/A	N/A

**Project Indicators (Next Quarter)**

**1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).**

BVU Authority, through its own resources, will continue to work to establish last-mile connections to the 11,400 households, businesses, hospitals, schools, libraries, government entities, and other Community Anchor Institutions situated along the middle mile routes. BVU Authority considers 5,300 of the possible connections to be "on-route" meaning that the establishment is within 1/2 mile of the middle mile fiber backbone and will utilize a fiber-to-the-premise (FTTP) connection capable of delivering broadband speeds of 20 Mbps. The remaining 6,100 possible connections are deemed "off-route" due to being located greater than 1/2 mile from the fiber backbone and will connect using a wireless broadband technology capable of delivering broadband speeds of 5 Mbps.

Even though the project was a middle mile project, BVU Authority will continue to work to establish last-mile connections to the communities situated along the middle mile routes. BVU Authority's goal is to appropriate approximately \$450,000 per annum to continue last-mile connections. BVU Authority will diligently continue in its efforts to find other capital resources (e.g. Virginia Tobacco Commission, State and Federal government programs) to connect additional households, businesses, or Community Anchor Institutions in the upcoming fiscal cycles. BVU Authority is also actively looking to partner with technology partners to assist with last-mile connections, such as wireless WiFi networks.

BVU Authority will continue to support other third-party last-mile providers to bring services to communities along the middle mile routes. BVU has existing agreements with various providers for their use of BVU Authority's fiber network to deliver services. BVU Authority continues to work with these providers and other known providers in the region to provide services to areas along the middle-mile fiber routes as requested.

**2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).**

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	100	Next quarter milestones are not applicable due to project being completed.
2b.	Environmental Assessment	100	Next quarter milestones are not applicable due to project being completed.
2c.	Network Design	100	Next quarter milestones are not applicable due to project being completed.
2d.	Rights of Way	100	Next quarter milestones are not applicable due to project being completed.
2e.	Construction Permits and Other Approvals	100	Next quarter milestones are not applicable due to project being completed.
2f.	Site Preparation	100	Next quarter milestones are not applicable due to project being completed.
2g.	Equipment Procurement	100	Next quarter milestones are not applicable due to project being completed.
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Next quarter milestones are not applicable due to project being completed.
2i.	Equipment Deployment	100	Next quarter milestones are not applicable due to project being completed.
2j.	Network Testing	100	Next quarter milestones are not applicable due to project being completed.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2k.	Other (please specify): Grant Preparation	100	Next quarter milestones are not applicable due to project being completed.

**3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).**

N/A

Empty space for providing detailed responses to the challenge/issue question.

**Infrastructure Budget Execution Details**

**Activity Based Expenditures (Infrastructure)**

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$65,000	\$1,000	\$64,000	\$80,833	\$4,167	\$76,666	\$80,833	\$4,167	\$76,666
b. Land, structures, right-of-ways, appraisals, etc.	\$938,279	\$698,279	\$240,000	\$2,055,998	\$921,823	\$1,134,175	\$2,055,998	\$921,823	\$1,134,175
c. Relocation expenses and payments									
d. Architectural and engineering fees	\$1,395,176	\$279,035	\$1,116,141	\$2,365,092	\$473,019	\$1,892,073	\$2,365,092	\$473,019	\$1,892,073
e. Other architectural and engineering fees									
f. Project inspection fees	\$638,352	\$127,670	\$510,682	\$384,731	\$76,946	\$307,785	\$384,731	\$76,946	\$307,785
g. Site work									
h. Demolition and removal									
i. Construction	\$31,366,498	\$11,339,310	\$20,027,188	\$30,057,793	\$11,077,568	\$18,980,225	\$30,057,793	\$11,077,568	\$18,980,225
j. Equipment	\$1,817,231	\$1,077,231	\$740,000	\$1,276,089	\$969,003	\$307,086	\$1,276,089	\$969,003	\$307,086
k. Miscellaneous									
<b>l. SUBTOTAL (add a through k)</b>	<b>\$36,220,536</b>	<b>\$13,522,525</b>	<b>\$22,698,011</b>	<b>\$36,220,536</b>	<b>\$13,522,526</b>	<b>\$22,698,010</b>	<b>\$36,220,536</b>	<b>\$13,522,526</b>	<b>\$22,698,010</b>
m. Contingencies									
<b>n. TOTALS (sum of l and m)</b>	<b>\$36,220,536</b>	<b>\$13,522,525</b>	<b>\$22,698,011</b>	<b>\$36,220,536</b>	<b>\$13,522,526</b>	<b>\$22,698,010</b>	<b>\$36,220,536</b>	<b>\$13,522,526</b>	<b>\$22,698,010</b>

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0	b. Program Income to Date: \$0
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