

**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>  NT10BIX5570045	<b>3. DUNS Number</b>  161202122
<b>4. Recipient Organization</b>  University of Wisconsin System Research & Sponsored Programs 21 N. Park St., STE 6401, Madison, WI 53715-1218		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2011	<b>6. Is this the last Report of the Award Period?</b>  <div style="text-align: center;"> <input type="radio"/> Yes    <input checked="" type="radio"/> No                     </div>	
<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>  John P Freeman  Accountant	<b>7c. Telephone (area code, number and extension)</b>  6088903068	<b>7d. Email Address</b>  jpfreeman@rsp.wisc.edu
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  11-14-2011	

**Project Indicators (This Quarter)**

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

In East Washington Ave. service area, directional boring and conduit placement is complete to 21 of 24 locations (1 to be finished Fall 2012 due to road construction), fiber pulled to 19 of 24 locations and 9 of 24 locations have splicing and completed service. In the S. Park St service area, directional boring and conduit placement is complete to 12 of 13 locations while fiber is pulled to 3 of 13 locations. In the Mineral Point Rd service area phase 1, all directional boring, conduit placement and fiber pulling is complete. MUFN Phase 2 (Mineral Point Rd, University Ave, and Northport Dr service areas), all but 5 permits have been obtained. Directional boring and conduit placement is complete to one phase 2 location in the Mineral Point service area. All network planning meetings with consortium community anchor institutions are completed.

Additionally, a consulting firm UW hired to value our in-kind contribution completed its work and UW will claim it's entire in-kind contribution match in this quarter.

**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	45	The Finding of No Significant Impact (FONSI) timing and weather caused our delay from our baseline projection. The FONSI was received in December 2010 which prevented construction activities to commence in November 2010 as originally planned. We expect to move in line with baseline schedule in 4Q2012.
2b.	Environmental Assessment	95	FONSI was received in 4Q2010. We were not aware that an EA was required. We have used funds from SF-424C's architectural and engineering fees to cover the cost of the EA. We expect to expend approximately \$1,500 to cover the cost of an on-site archeologist as required during the Monona Drive Service area in 3Q2012.
2c.	Network Design	95	EA required us to complete all engineering ahead of time such that we had 100% completed - including optical engineering. However, after network design mtgs, we must redesign the optical transport as ALL entities want redundancy. This began in 3Q2011 and will complete by end of 4Q2011.
2d.	Rights of Way	75	Have right-of-ways for all but Monona Drive service area (remaining 25% difference from our baseline with completion (100%) by 1Q2012.
2e.	Construction Permits and Other Approvals	54	We are just past 1Q2010 baseline plan but will not catch up with our baseline of 100% completed until 2Q2012 due to road construction changes in University Ave, Monona Dr, Mineral Point and East Washington service areas (can not obtain permits in construction areas until work is nearly complete)
2f.	Site Preparation	0	Received quote from contractor. Filed Davis-Bacon Wage conformance (SF-1444) in late 3Q2011 for site preparation at 525 Science Dr. Expect to meet baseline by end of 1Q2012.
2g.	Equipment Procurement	0	We are redesigning optical transport system due to unexpected CAI demands for redundancy. Will begin procuring hardware in late 4Q2011 after optical network (re)design is complete which we did not include in our baseline as we believed this was already completed. Will be on track with baseline in 1Q2012.
2h.	Network Build (all components - owned, leased, IRU, etc)	48	We are behind due to delayed EA. Will catch up at 4Q2012.
2i.	Equipment Deployment	0	We expected to immediately deploy "North ring" but delayed due to network assessment meetings with CAIs and resulting surprise in demand. Redesigning optical system now with anticipated 1Q2012 deployment to catch up to baseline. Will not catch up to final 100% baseline until 4Q2012 as Monona Drive service area was delayed by 1yr due to road construction (orig. deployment was 1Q2012).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2j.	Network Testing	10	Tested completed laterals in 3Q2011 though due to EA and splicing completion delays, we will not catch up to 2Q2011 baseline until 1Q2012 and will not complete this until 4Q2012 due to construction delays.
2k.	Other (please specify):	0	N/A

**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).**

The Madison Metro Planning Organization (a federally designated Metro Planning Org or MPO for the Madison urban area), has pushed up a project to resurface and widen County M from Watts Rd to Valley View Rd and along County S (aka Minera Point Rd). This impacts permitting for directional boring excavation of the backbone and 2 laterals in the the Mineral Point Rd backbone. We are finalizing an alternative and will propose to NTIA soon (must wait for City of Madison 35% plans for this road work).

**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	9	We are behind our baseline 26 miles due to delays with the EA. At the end of 4Q2011, we will be at 2Q2011. MUFN will not fully catch our 4Q2011 baseline until 4Q2012 due to weather issues (starting Monona Dr service area construction 4/15/2012).
New network miles leased	0	We were unable to complete a fiber agreement to lease 11 miles of fiber; we have a verbal agreement with UW Hospital & Clinics and are developing a written agreement. The UW Hospital & Clinics written agreement has not been finalized yet. We anticipate having this completed in 2Q2012 after we complete the MUFN consortium agreement. The UWHC agreement will be between the MUFN consortium and UWHC rather than UW-Madison and UWHC which is the delay.
Existing network miles upgraded	0	N/A
Existing network miles leased	20	20 miles is the total of the Wisconsin Department Of Transportation fiber path (black fiber path on the Northeast/ central side of Madison on the map) leased at the beginning of the project. The UW Hospital & Clinics written agreement has not been finalized yet. We anticipate having this completed in 2Q2012 after we complete the MUFN consortium agreement. The UWHC agreement will be between the MUFN consortium and UWHC rather than UW-Madison and UWHC which is the delay.
Number of miles of new fiber (aerial or underground)	9	We are behind our baseline 57 miles due to delays with the EA. At the end of 4Q2011, we will be at 2Q2011. MUFN will not catch up to our 4Q2011 baseline until 4Q2012 due to weather issues (starting Monona Dr service area construction 4/15/2012).
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	13	At the end of 4Q2011, we expect to have 65 points which is past our 2Q2011 baseline (50) but shy of our 3Q2011 baseline projection. We are short due to unanticipated road construction and some CAI cancellations of service (5). We will near our 100% completion baseline at the end of 4Q2012.

**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	8
Average term of signed agreements (in quarters)	20

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: Citywide d/b/a Mad City Broadband.

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:

MUFN wholesale services offered by the project include point-to-point dark fiber and point-to-point wavelength services (where fiber IRUs permit). See attached document (BTOP-MUFN-PricingPlan.pdf)

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 third party operates (600 words or less).

The City of Madison in collaboration with UW and Citywide d/b/a Mad City Broadband will operate the network together. UW and the City have formalized and finalized the relationships. Mad City Broadband's contact information: 301 N. Broom St., Madison, WI 53703, Todd Anderson 608-237-6152; UW-Madison's contact information: Pat Christian, 1210 W. Dayton St., Madison, WI 53706, 608-265-9699.

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	On target with the baseline projections
	Providers with signed agreements receiving improved access	0	On target with the baseline projections
	Providers with signed agreements receiving access to dark fiber	1	In negotiations with several groups though a second agreement hasn't been reached yet as our baseline predicted. There is a negotiation near completion with the WI Independent Network (aka WINs) that is likely to be finished up in 4Q2011 which should catch us up with our baseline.
	Please identify the speed tiers that are available and the number of subscribers for each	0	Dark fiber; users can pick their own baseband speed/signaling type (i.e. ethernet) or light fiber via wave-division multiplexing
Community Anchor Institutions (including Government institutions)	Total subscribers served	9	Expect to reach our 2Q2011 baseline in 4Q2011 and near (65) our 3Q2011 baseline in 1Q2012. Will not reach 4Q2011 baseline until near end of project and assuming additional locations are approved to make up for the 5 dropped locations by CAI decision.
	Subscribers receiving new access	4	Expect to reach our 2Q2011 baseline in 4Q2011 and near (65) our 3Q2011 baseline in 1Q2012. Will not reach 4Q2011 baseline until near end of project and assuming additional locations are approved to make up for the 5 dropped locations by CAI decision.
	Subscribers receiving improved access	5	Expect to reach our 2Q2011 baseline in 4Q2011 and near (65) our 3Q2011 baseline in 1Q2012. Will not reach 4Q2011 baseline until near end of project and assuming additional locations are approved to make up for the 5 dropped locations by CAI decision.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Please identify the speed tiers that are available and the number or subscribers for each	0	MUFN is a dark fiber project - most groups lighting dark fiber at minimum 1Gbps if not 10Gbps.
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).

N/A

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
City of Madison	E. Wash Ave	Government	Yes	City will light connections to improve Homeland Security (e.g. monitoring water pumping stations), improve police protection services via cameras in high crime areas (i.e. bus transfer points), improve delivery of health and human services (e.g. connecting remote local public health department to Internet & private City network), improving video training infrastructure and communications with fire department locations, creating a new fiber infrastructure to enable better first responder radio interoperability as required by the FCC by 1/1/2013.
City of Madison - Water #24	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this link for video surveillance of the facility, collection of SCATA data, voice-over-IP phone service in the facility and data access for technicians who are servicing equipment and need Internet access to perform their work.

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
City of Madison - Madison Metro Bus Corp	E. Wash Ave	Government	Yes	City of Madison is using this link for video surveillance of several bus transfer points, Internet access for the administrative staff, website hosting to provide routes, fares, real-time bus location information and eCommerce transactions.
City of Madison - Health East	E. Wash Ave	Government	Yes	City of Madison operates a local public health office at this facility providing services which include: low-income health care, environmental services (e.g. air quality, mosquito monitoring), food safety monitoring, animal services, etc). See <a href="http://www.publichealthmdc.com/about/services.cfm">http://www.publichealthmdc.com/about/services.cfm</a> for more details
City of Madison - Fire Station #8	E. Wash Ave	Government (public safety)	Yes	City of Madison provides fire protection for a service area within a fire district. Upgrade link is used for training of employees while at the station (video), redundant communication systems and general Internet connectivity for station staff - including electronic reporting of staff inspections and other admin activities.
City of Madison - Water #15	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this link for video surveillance of the facility, collection of SCATA data, voice-over-IP phone service in the facility and data access for technicians who are servicing equipment and need Internet access to perform their work.
City of Madison - Water #215	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this link for video surveillance of the facility, collection of SCATA data, voice-over-IP phone service in the facility and data access for technicians who are servicing equipment and need Internet access to perform their work.
City of Madison - Water Tower #1	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this link for first responder communications with police, fire and ambulance companies, video surveillance of the facility, collection of SCATA data, voice-over-IP phone service in the facility and data access for technicians who are servicing equipment and need Internet access to perform their work.
City of Madison - Fleet Services	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this upgraded link for maintaining electronic service records for police and other City automobiles as well as first responder communications and administrative office commodity Internet service.
City of Madison - Fire Maintenance	E. Wash Ave	Government (public safety)	Yes	City of Madison is using this upgraded link for electronic records of maintaining/inspecting fire engine vehicles as well as first responder communications and administrative office commodity Internet service.

**Project Indicators (Next Quarter)**

**1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).**  
 Expect (phase 1) East Washington Ave, S. Park St backbone and laterals to be completed (w/ 1 CAI exception (delay for road construction until 4Q2012). Anticipate MUFN Phase 2 (Mineral Point Rd, University Ave, Northport Dr service areas) to have substantial completion. Mineral Point Rd backbone will be complete (except route change at Junction Rd between Watts and Valley View Rd) along with all Mineral Point laterals (excluding 2 cancelled by UW-Medical Foundation due to clinic consolidations announced in July 2012). University Ave laterals will be completed (except 2 due to 2012 road construction), all laterals and backbone in Northport Dr service area will be completed. We expect to have 65 CAI locations (67%) completed at the end of 4Q2011 . We also anticipate having a 2nd signed agreement in place for commercial use of the infrastructure. Our expenditures are tracking below requested/budgeted amounts such that we do not anticipate hitting the 67% expenditure level until end of 2Q2012. We expect to complete 29 miles of fiber in 4Q11 in addition to the 9 miles reporting in 3Q2011.

**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)

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	54	MUFN is catching up from 1yr loss due to EA delays. Our 4Q2011 progress will meet our 2Q2011 progress plan. Due to weather, we won't be able to fully catch up with our baseline until 4Q2012. We expect to expend 67% of funds by the end of 2Q2012.
2b.	Environmental Assessment	95	FONSI was received in 4Q2010. We were not aware that an EA was required. We have used funds from SF-424C's architectural and engineering fees to cover the cost of the EA. We expect to expend approximately \$1,500 to cover the cost of an on-site archeologist as required during the Monona Drive Service area in 3Q2012.
2c.	Network Design	100	Expect to have optical design work completed by end of 4Q2011.
2d.	Rights of Way	75	Have right-of-ways for all but Monona Drive service area (remaining 25% difference from our baseline with completion (100%) by end of 1Q2012.
2e.	Construction Permits and Other Approvals	69	Did not know about EA so plan is 1yr behind. Expect to meet baseline in 2Q2012
2f.	Site Preparation	0	Filed and (expect to) receive SF-1444 conformance in 4Q2011 and meet 100% baseline in 1Q2012
2g.	Equipment Procurement	0	We are redesigning optical transport system due to unexpected CAI demands for redundancy. Will begin procuring hardware in late 4Q2011 after optical network (re)design is complete which we did not include in our baseline as we believed this was already completed. We expect to purchase hardware in 1Q2012 (expend funds). Will be on track with baseline in 1Q2012.
2h.	Network Build (all components - owned, leased, IRU, etc.)	57	At the end of 4Q2011, we will be exceeding our baseline at 2Q2011 (46%) but will not be able to catch up to our 4Q2011 projection until 4Q2012 due to weather and road construction delays causing some builds to be delayed to late summer 2012.
2i.	Equipment Deployment	0	We expected to immediately deploy "North ring" but delayed due to network assessment meetings with CAIs and resulting surprise in demand. Redesigning optical system now with anticipated 1Q2012 deployment to catch up to baseline. Will not catch up to final 100% baseline until 4Q2012 as Monona Drive service area was delayed by 1yr due to road construction (orig. deployment was 1Q2012).
2j.	Network Testing	71	Lagging 3Q2011 baseline due to dropped sites and road construction delays which we can't resolve until 4Q2012.
2k.	Other (please specify):	0	N/A

**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).**

Should winter weather (deep freeze without snow cover) hit WI earlier than 12/1/2011 our plans may be delayed until Spring 2012. Also, we have a forthcoming route change in the Mineral Point Rd service area due to planned road construction in 2013 that will require an EA review. This will delay us from our original baseline plan to complete the Mineral Point Rd service area in 4Q2011.

**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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$537,264	\$0	\$537,264	\$76,101	\$0	\$76,101	\$100,000	\$0	\$100,000
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$10,000	\$0	\$10,000	\$0	\$0	\$0	\$10,000	\$0	\$10,000
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$8,180,587	\$3,753,242	\$4,427,345	\$3,910,418	\$3,436,185	\$474,233	\$4,686,185	\$3,436,185	\$1,250,000
j. Equipment	\$131,764	\$0	\$131,764	\$0	\$0	\$0	\$0	\$0	\$0
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>l. SUBTOTAL (add a through k)</b>	\$8,859,615	\$3,753,242	\$5,106,373	\$3,986,519	\$3,436,185	\$550,334	\$4,796,185	\$3,436,185	\$1,360,000
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	\$8,859,615	\$3,753,242	\$5,106,373	\$3,986,519	\$3,436,185	\$550,334	\$4,796,185	\$3,436,185	\$1,360,000

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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