1. Recipient Name  
State of Maine, ConnectME Authority

2. Award Or Grant Number  
23-50-M09062

3. Street Address  
138 Statehouse Station,

5. City, State, Zip Code  
Augusta, ME 04333-0138

6. Designated Entity On Behalf Of:  
State of Maine

8. Final Report?  
[ ] Yes  [ ] No

9. Report Frequency  
Quarterly  Semi Annual  Annual  Final

7. Project / Grant Period  
Start Date: (MM/DD/YYYY) 01-01-2010  
End Date: (MM/DD/YYYY) 12-31-2014  
Reporting Period End Date: 03-31-2011

10. Broadband Mapping  

<table>
<thead>
<tr>
<th>Number of Providers Identified</th>
<th>Number of Providers Contacted</th>
<th>Number of Agreements Reached for Data Sharing</th>
<th>Number of Partial Data Sets Received</th>
<th>Number of Complete Data Sets Received</th>
<th>Number of Data Sets Verified</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

10a. Provider Table

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.

The project team has not entered into data sharing agreements with the following providers:

ACs Telecom Inc.
Broadview Networks Holdings, Inc.
Bullseye Telecom
Caprock Communications
Cybertek Web Connection
Hughes Network Systems
Hussey Communications
Level 3 Communications
Matrix Telecom
Mitel Netsolutions
Paetec Communications
Qwest Communications International, Inc.
RCN Corporation
Segtel
SkyWay USA
Utel (d/b/a Bay Ring Communications)
Wholesale Carrier Services
World Discount Telecommunications (WDT)

For more details, please refer to the Q1 Supplemental Answers Document.

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.

Community Anchor Institutions – The Community Anchor Institution (CAI) data set has been assembled from several different sources such as the State of Maine Office of GIS (MEGIS), State of Maine Office of Information Technology (OIT), NAVTEQ NAVSTREETS Points of Interest, the State of Maine Department of Health and Human Services (DHHS), the State of Maine Office of Risk Management, the State of Maine Emergency Management Agency, the University of Maine System, Maine School and Library Network (MSLN), Maine’s Research & Education Network (MaineREN), and SteepleCom. The project team is conducting an extensive phone survey task to collect broadband service data for the CAI records. As of 31-March-2011, the existence of broadband service has been captured for 3,326 out of 4,404 CAI records.

Third Party Commercial Data Sets – The project team has licensed the CoverageRight by State product from American Roamer for
Maine. CoverageRight contains coverages for both mobile and fixed wireless providers. These coverages are being compared to coverages created from provider data submittals to help verify the extents of the served areas and could potentially infill areas where providers have not yet submitted data.

The project evaluated the MicroBuild Broadband Indicator product from Gadberry Group for Maine as well as a broadband pricing product for Maine from Telogical Systems. The project team determined that the products do not offer the level of information necessary to justify their costs.

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

Provider Validation
Speed Test Tool
Field Verification
Online Survey
Mail Survey
Telephone Survey
Service Locations / Failed Service Location
FCC Form 477 Aggregate Data
FCC Consumer Broadband Test (CBT) Data
Third Party Commercial Data Sets
Broadband Availability Website
E911 ALI Database Report

For more details, please refer to the Q1 Supplemental Answers Document.

10g. Have you initiated verification activities? 

- Yes
- No

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

The project team has initiated the following verification activities:

Provider Validation
Speed Test Tool
Field Verification
Online Survey
Mail Survey
Telephone Survey
Service Locations / Failed Service Location
FCC Form 477 Aggregate Data
FCC Consumer Broadband Test (CBT) Data
Third Party Commercial Data Sets

For more details, please refer to the Q1 Supplemental Answers Document.

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

The project team expects to initiate the following verification activities:

FCC Consumer Broadband Test (CBT) Data
Broadband Availability Website
E911 ALI Database Report

For more details, please refer to the Q1 Supplemental Answers Document.

**Staffing**

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

5.53

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

NA

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

NA

10n. Staffing Table

<table>
<thead>
<tr>
<th>Job Title</th>
<th>FTE %</th>
<th>Date of Hire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive GIS System Consultant</td>
<td>2</td>
<td>09/02/2009</td>
</tr>
</tbody>
</table>
### Senior Project Manager
31 09/02/2009

### Project Manager
55 09/02/2009

### Project Coordinator
12 09/02/2009

### Software Developer III
4 09/02/2009

### Software Developer II
1 09/02/2009

### Database Programmer
1 09/02/2009

### Programmer
7 09/02/2009

### GIS System Analyst III
100 09/02/2009

### GIS System Analyst III
33 09/02/2009

### GIS System Analyst II
100 09/02/2009

### GIS System Analyst II
13 09/02/2009

### GIS Technician III
43 09/02/2009

### GIS Technician II
24 09/02/2009

### GIS Technician I
100 09/02/2009

### GIS Technician I
26 09/02/2009

### Senior Admin. Asst.
1 09/02/2009

### Sub Contracts

<table>
<thead>
<tr>
<th>Name of Subcontractor</th>
<th>Purpose of Subcontract</th>
<th>RFP Issued (Y/N)</th>
<th>Contract Executed (Y/N)</th>
<th>Start Date</th>
<th>End Date</th>
<th>Federal Funds</th>
<th>In-Kind Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>James W. Sewall</td>
<td>Mapping</td>
<td>Y</td>
<td>Y</td>
<td>09/09/2009</td>
<td>09/20/2012</td>
<td>3,485,000</td>
<td>228,754</td>
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<tr>
<td>James W. Sewall</td>
<td>Planning</td>
<td>Y</td>
<td>Y</td>
<td>08/24/2010</td>
<td>12/31/2014</td>
<td>436,000</td>
<td>111,633</td>
</tr>
</tbody>
</table>

### Funding

10p. How much Federal funding has been expended as of the end of the last quarter? $888,475

10q. How much Remains? $4,085,017

10r. How much matching funds have been expended as of the end of last quarter? $303,332

10s. How much Remains? $1,062,543

### 10t. Budget Worksheet

<table>
<thead>
<tr>
<th>Mapping Budget Element</th>
<th>Federal Funds Granted</th>
<th>Proposed In-Kind</th>
<th>Total Budget</th>
<th>Federal Funds Expended</th>
<th>Matching Funds Expended</th>
<th>Total Funds Expended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Salaries</td>
<td>$67,670</td>
<td>$275,134</td>
<td>$342,804</td>
<td>$0</td>
<td>$6,892</td>
<td>$5,392</td>
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<tr>
<td>Personnel Fringe Benefits</td>
<td>$33,330</td>
<td>$85,889</td>
<td>$119,219</td>
<td>$0</td>
<td>$913</td>
<td>$0</td>
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<tr>
<td>Travel</td>
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<td>$36,699</td>
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<td>$1,250</td>
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<tr>
<td>Equipment</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
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<td>$32,500</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Subcontracts Total</td>
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<td>$119,038</td>
<td>$4,105,178</td>
<td>$888,475</td>
<td>$0</td>
<td>$888,475</td>
</tr>
</tbody>
</table>
Hardware / Software

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

10v. If yes, please list

Speed Test Tool – The underlying technology for the Speed Test web application belongs to Ookla Networks. Ookla Networks received a one time fee to customize the tool for the State of Maine speed test web site and receives a yearly license fee.  
Associated Cost – Customization fee: $1,000.00; first year license fee: $495.00; second year license fee: $495.00

Database and Server Software Licenses – In order to host the Service Provider Data Upload web application and store the provider data submitted, licenses for Windows Server and for SQL Server, Standard Edition were acquired. To develop the provider data upload application, Adobe Flex was acquired.  

Mobile Wireless Field Collection Units – Hardware and software were purchased for the mobile wireless field collection units. The hardware included laptops with mobile wireless USB connection modems/cards and the software included Microsoft Office applications and Microsoft Streets and Trips.  
Associated Cost – Laptops and software: $2,757.04; USB wireless air cards: $1,856.25

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

The project team is evaluating a solution that would provide an online map gallery and service provider coverage map portal. The team has not yet reached a final decision but expects to have this in place during the second quarter of 2011.

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

10y. If yes, please list

The project team licensed a third party road centerline data set for Maine. The NAVTEQ NAVSTREETS product was licensed to fill in those areas in the State of Maine that are not currently covered by the State’s E911 roads data set. MEGIS licensed product.

The project team licensed CoverageRight by State product from American Roamer for Maine. The American Roamer CoverageRight product for Maine has a 2 year license agreement at a fee of $12,671.25. The Mapping project has paid the costs for the first year - $6,335.63.

The project team has purchased residential and business address lists from InfoUSA. So far the Mapping project has acquired 10,000 addresses from InfoUSA at a cost of $650.00.

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

10aa. If yes, please list

Collaboration – The project team has been in contact with the five Native Nations located in Maine. The team has determined that...
none of the Native Nations own any broadband service infrastructure but rely on commercial vendors. The team also acquired locations of their Community Anchor Institutions as well as GIS boundary data for their lands. The five Native Nation entities are:
• Maliseet Houlton
• Passamaquoddy at Indian Township
• Passamaquoddy at Pleasant Point
• Penobscoct
• Aroostook Band of Micmacs

The project team has also worked with several other parties including:
• NTIA
• FCC
• State of Maine ConnectME Authority
• State of Maine Public Utilities Commission
• State of Maine Office of GIS
• State of Maine Office of Information Technology
• State of Maine Department of Health and Human Services
• State of Maine Department of Education
• State of Maine Planning Office
• State of Maine Office of Risk Management
• State of Maine Emergency Management Agency
• State of Maine Emergency Services Communication Bureau
• State of Maine Legislators
• University of Maine System
• Maine School & Library Network
• Maine's Research & Education Network
• Maine Municipal Association
• Maine's Three Ring Binder Project
• Axiom Technologies' Washington County Education and Employment through Sustainable Broadband Adoption Project in Maine
• New England states SBDD grantees (New Hampshire, Connecticut, Massachusetts, Vermont, & Rhode Island)
• State of Washington SBDD grantee

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

The Mapping project team has encountered challenges in the following areas:
• Provider Data Formats
• State E911 Street Coverage
• Misalignment between Year 2000 Census Blocks & Maine E911 Streets
• Fixed Wireless Propagation Modeling
• Middle Mile Locations
• Resellers
• Data Confidence Intervals
• Assimilating Verification Findings
• CAI Broadband Service Information

For more details, please refer to the Q1 Supplemental Answers Document.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

State of Maine Broadband Availability Website – The State is scheduled to have a public-facing website deployed and operational during the second quarter of 2011. The website will return potential broadband services when a user queries a location. It will also have a form to capture users’ feedback and a map gallery with static maps available for download.

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 major activities for the Planning project are:
• Project Setup
• Data Gathering
• Data Analysis
• Needs Assessment
• Strategic Plan
• Program Implementation
• Measure Effectiveness
• Refine Strategic Plan
For more details, please refer to the Q1 Supplemental Answers Document.

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

The Planning project team has encountered challenges in the following areas:
- Reaching Rural Residents
- Survey Returns
- Subscriber Counts

For more details, please refer to the Q1 Supplemental Answers Document.

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

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<tr>
<td>Personal Salaries</td>
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<td>Travel</td>
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<td>$0</td>
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<td>$0</td>
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<td>$0</td>
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</tr>
<tr>
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<td>0</td>
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<td>0</td>
</tr>
</tbody>
</table>

**Additional Planning Information**

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

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

The largest challenge the ConnectME Authority is facing is securing funding for the supplemental projects: Capacity Building and Technical Assistance. Both projects are behind schedule and unable to plan for time sensitive major project deliverables. The mitigation strategy is to provide NTIA with timely responses to questions and additional information requests.

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

ConnectME Authority sponsored Broadband Summit 1.0 on March 30th. The event provided an excellent first venue for Maine’s ARRA broadband recipients to become more aware of the multiple federally funded projects underway in Maine, discuss opportunities and forge relationships to leverage our strengths and challenges moving forward and further understand ConnectME’s role in broadband expansion throughout the state. Focus areas of panels presenting included: expanding broadband access, spurring economic development, increasing adoption, advancing health information technology initiatives and educating citizens around broadband. Summit materials and more information can be located at: http://www.maine.gov/connectme/summit/index.shtml.
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.

<table>
<thead>
<tr>
<th>12a. Typed or Printed Name and Title of Authorized Certifying Official</th>
<th>12c. Telephone (area code, number, and extension)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Leahy</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12b. Signature of Authorized Certifying Official</th>
<th>12d. Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submitted Electronically</td>
<td><a href="mailto:Lisa.Leahy@maine.gov">Lisa.Leahy@maine.gov</a></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>12e. Date Report Submitted (Month, Day, Year)</th>
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<tbody>
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<td>06-13-2011</td>
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