

2015 State Damage Prevention Program Grants Final Report
CFDA Number: 20.720

Award Number: DTPH5615GPPS01

Project Title: *State Damage Prevention Grant (SDP) Program Grants - 2015*

Date Submitted: *September 13, 2016*

Submitted by: *Rick Pevarski*

Specific Objective(s) of the Agreement

Under this grant agreement, the Virginia Utility Protection Service (VA 811) will implement a cloud and mobile-based geospatial solution with the ability to support processes to capture and store precise and pedigreed subsurface utility engineering data while incorporating a comprehensive damage prevention process, which can be displayed visually on a Geographical Information System (GIS).

Workscope

Under the terms of this grant agreement, the Recipient will address the following elements listed in the approved application as stated in 49 U.S.C. §60134 (b).

- **Element 1 (Effective Communications):** Participation by operators, excavators, and other stakeholders in the development and implementation of methods for establishing and maintaining effective communications between stakeholders from receipt of an excavation notification until successful completion of the excavation, as appropriate.
- **Element 2 (Comprehensive Stakeholder Support):** A process for fostering and ensuring the support and partnership of stakeholders, including excavators, operators, locators, designers, and local government in all phases of the program.
- **Element 3 (Operator Internal Performance Measurement):** A process for reviewing the adequacy of a pipeline operator's internal performance measures regarding persons performing locating services and quality assurance programs.
- **Element 8 (Technology):** A process for fostering and promoting the use, by all appropriate stakeholders, of improving technologies that may enhance communications, underground pipeline locating capability, and gathering and analyzing information about the accuracy and effectiveness of locating programs.

Accomplishments for this period (Item 1 under Article IX, Section 9.02 Final Report: “A comparison of actual accomplishments to the objectives established for the period.”)

This geospatial damage prevention system initiative provided the ability to:

- Access ticket information and field data from mobile devices in real-time

AGREEMENT #DTPH5615GPPS01
Virginia Final Report

- Capture location based utility field work data with precision, pedigree and provenance
- Real-time data exchange between stakeholders whether in the field or in the office
- Ensure data quality with data governance best practices
- Configure damage prevention business processes including notifications to and from the field
- Collect and map the following data for periodic review and analysis
 - Public awareness efforts identified to a single point address
 - Damage and near miss information
 - Site inspections

This project provided the following business processes:

- Importing the ticket and the utility information
- Presenting ticket information to the field worker
- Capturing any information that a field worker may collect (locate data, pictures, field sketches, etc.)
- Notification to the positive response system
- Collection of all public awareness efforts identified to an unique address
- Collection of damage and near miss data
- Collection of all site inspection data

Since the mid-term report, all phases of the project were completed.

Below you will find screen shots denoting the story line of Roanoke Gas utilizing the Prostar Transparent Earth application. The same information is available using the Point Man application within Prostar for mobile devices.

Roanoke Gas Service Area Tickets within Transparent Earth:

Legend:

Polygons denote VA811 one-call tickets:

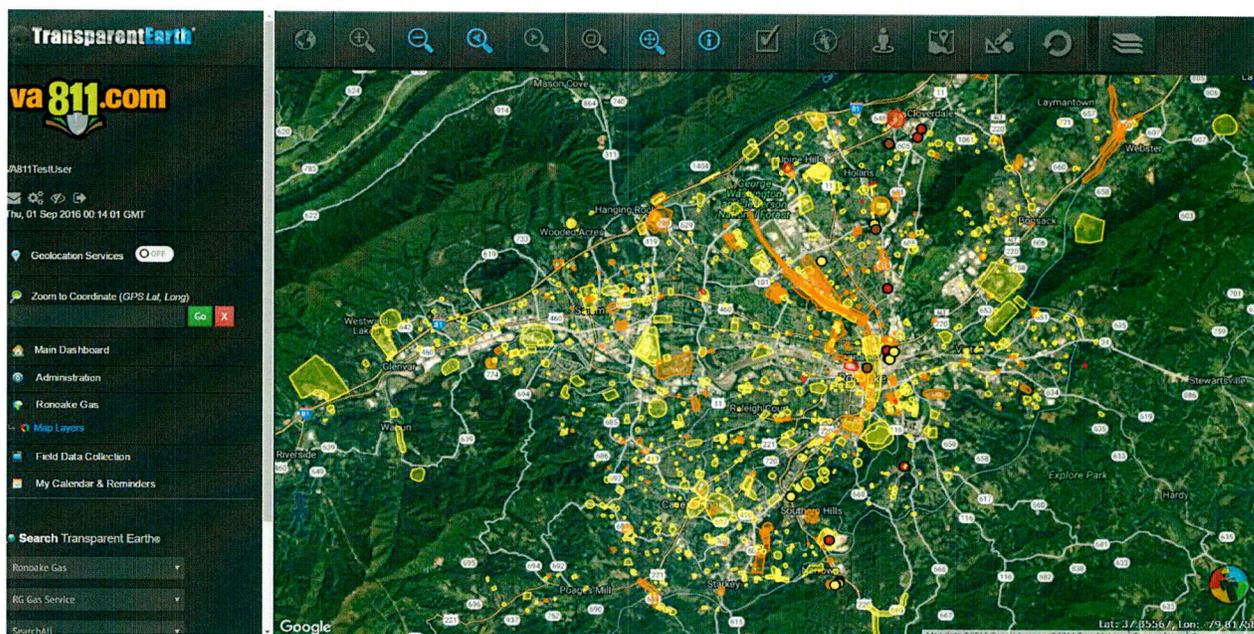
Red 3 Hour Notice of Excavation

Yellow New Notice of Excavation

Orange Update Notice of Excavation

Circles with black outlines

indicates photo attachments, color-coded with the uniform color code of the American Public Works Association.



This a screen shot of three VA811 one-call tickets within Transparent Earth. The blue outline denotes the ticket to be located.



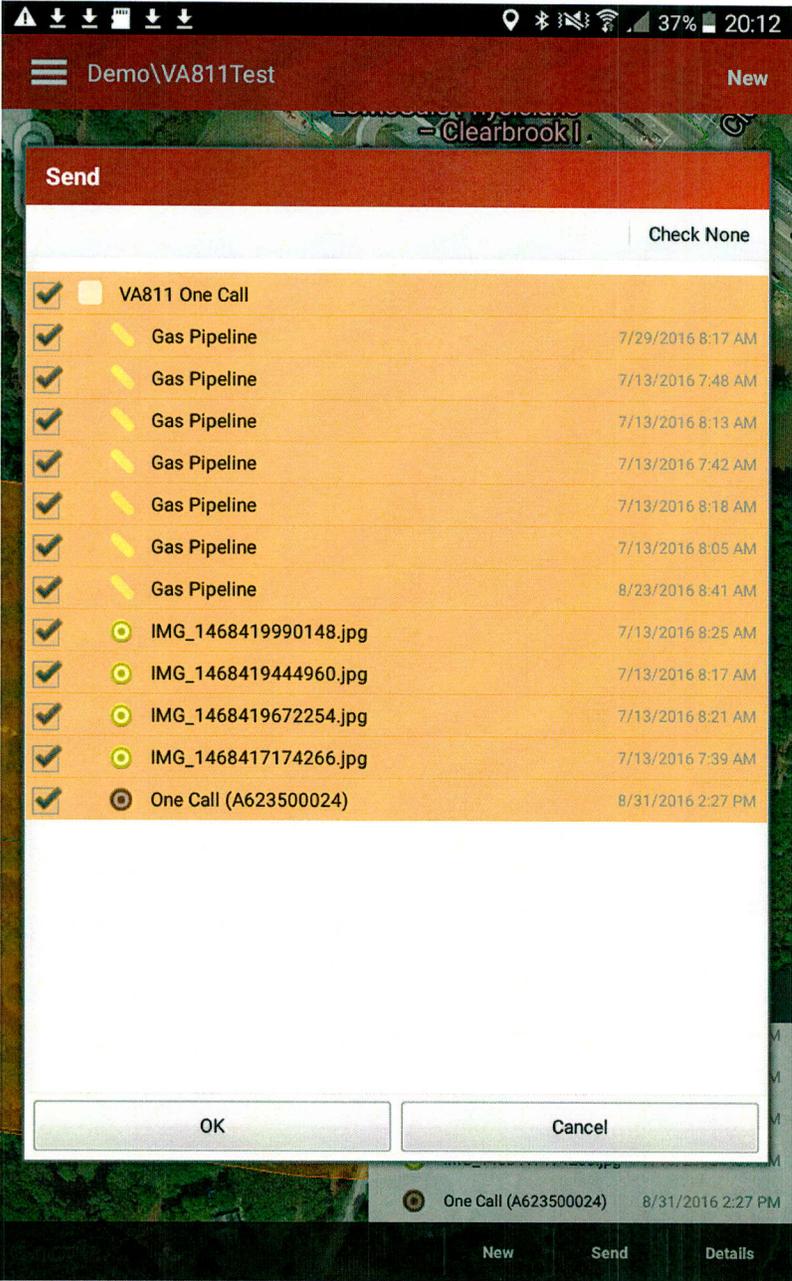
The locate begins within the area outlined in blue.



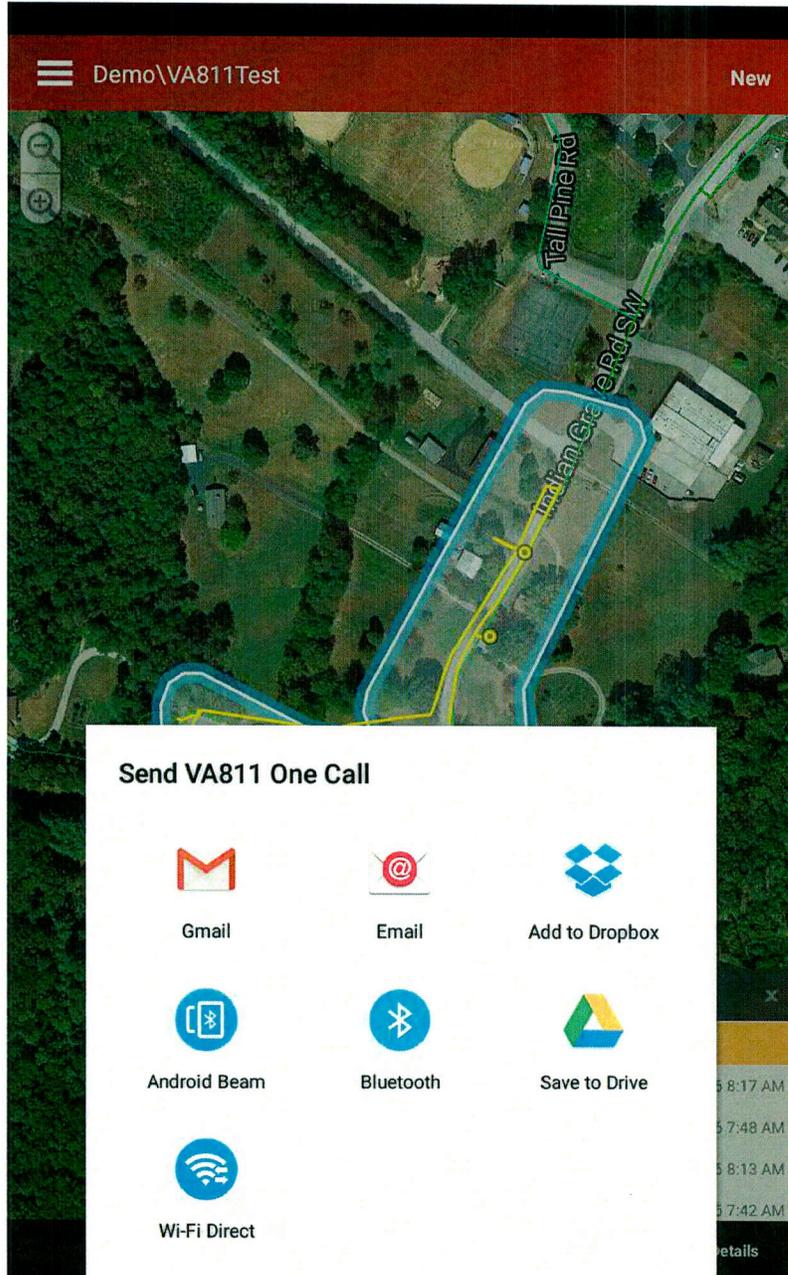
This screen shot denotes the ticket showing the located underground infrastructure (yellow lines) with photographs attached (yellow circles) within Transparent Earth:



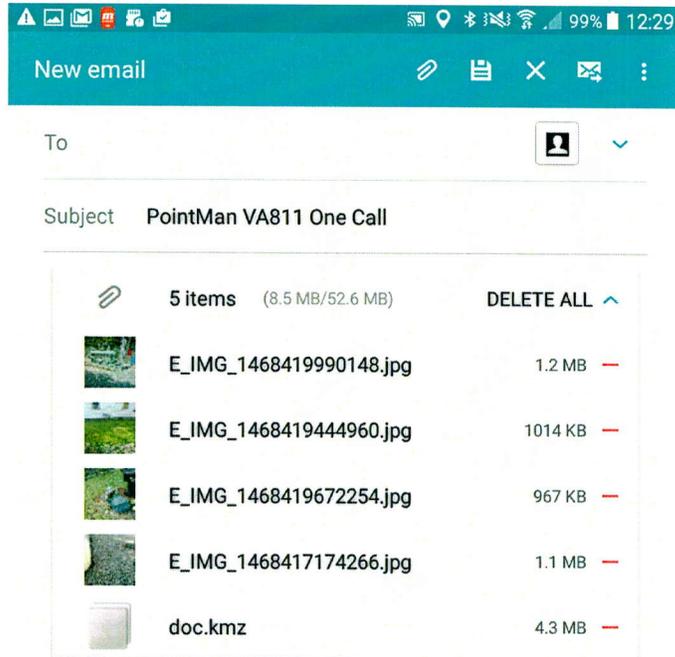
Once the underground utility is located and photographs are captured in Transparent Earth, selections of items to send to excavators and operators are done through the drop box tool within the application:



The Transparent Earth application provides multiple formats to send collected information on the one-call ticket depicting the located underground infrastructure and attached images.

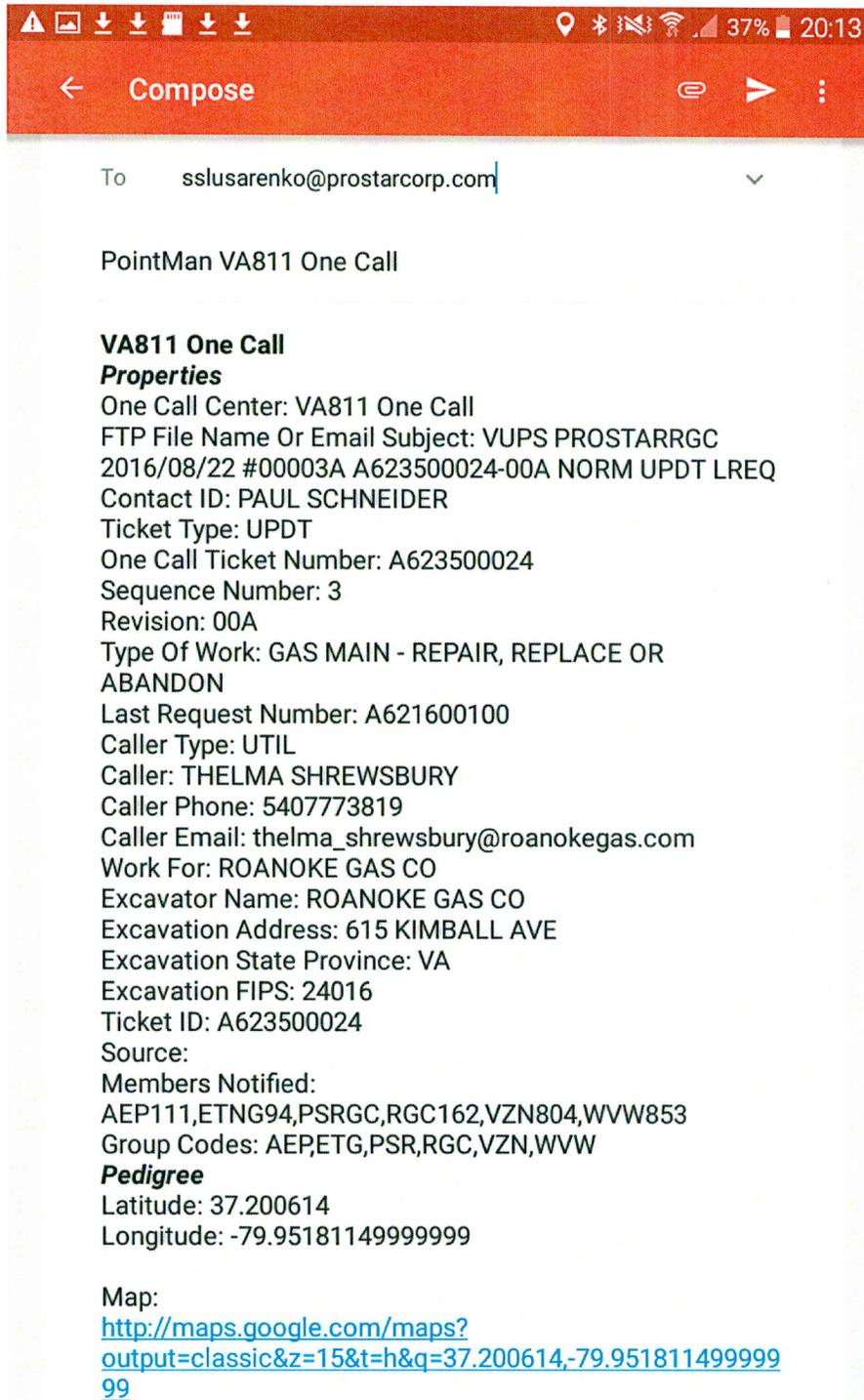


Example of ticket locate and attachments within Gmail:

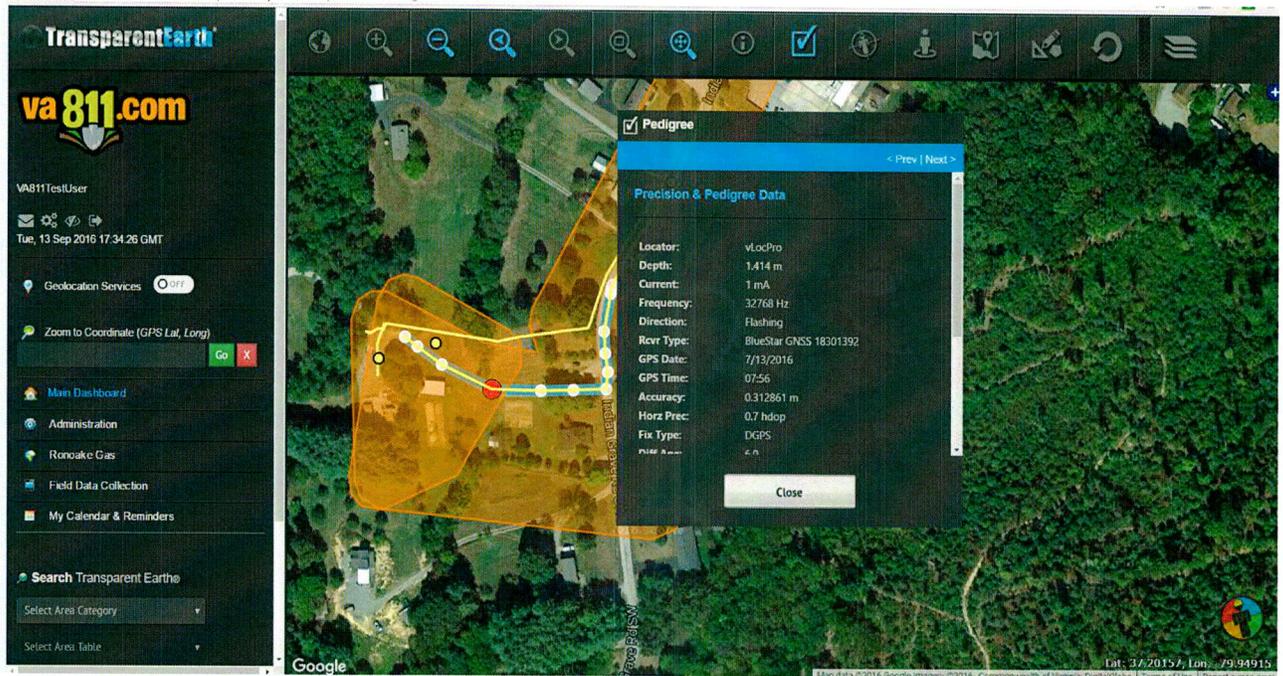


VA811 One Call
Properties
One Call Center: VA811 One Call
FTP File Name Or Email Subject: VUPS PROSTARRGC 2016/08/22 #00003A
A623500024-00A NORM UPDT LREQ
Contact ID: PAUL SCHNEIDER
Ticket Type: UPDT
One Call Ticket Number: A623500024
Sequence Number: 3
Revision: 00A
Type Of Work: GAS MAIN - REPAIR, REPLACE OR ABANDON
Last Request Number: A621600100
Caller Type: UTIL
Caller: THELMA SHREWSBURY
Caller Phone: 5407773819
Caller Email: thelma_shrewsbury@roanokegas.com
Work For: ROANOKE GAS CO
Excavator Name: ROANOKE GAS CO

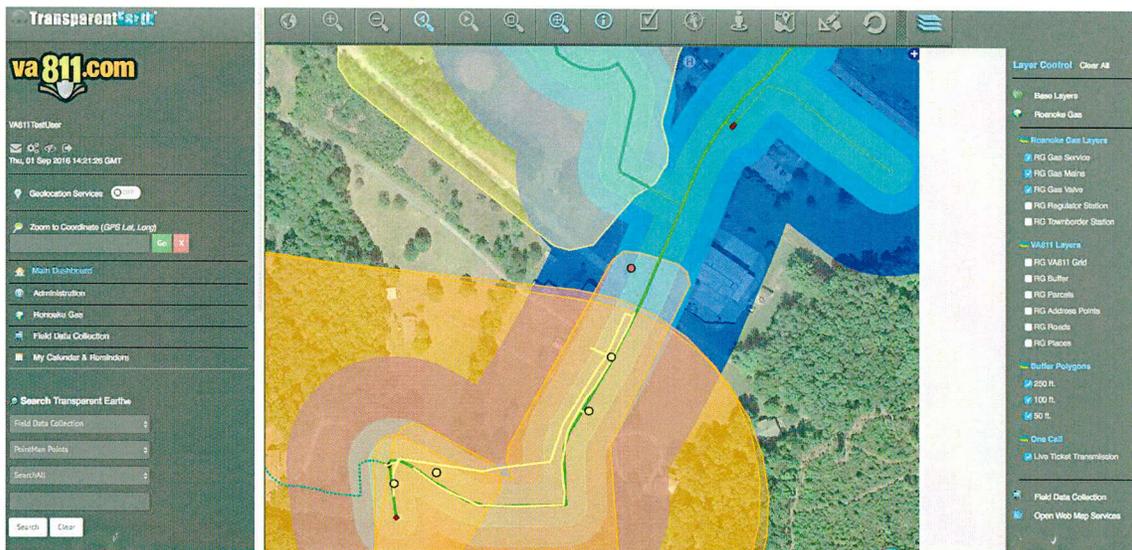
Example of ticket locate within Outlook (link to map to depict locate and attachments):



The following screen shot denotes the precision and pedigree of the locate information.



The following screen shot denotes the layer control portion of Transparent Earth. This provides capabilities to create any type of reports based on the layers. One example is a report of any tickets within 50 feet of the underground facility verses number of tickets within 250 feet.



The following screen shot denotes the Roanoke Gas customized Public Awareness Form within Transparent Earth:

FORM_1473789143194.pdf Close

Public Awareness Form

Project Name:	2016 Public Awareness Program
AFE:	12343
Date:	9/3/2016
Contractor:	
Inspector:	

Details

Location:	098.01-01-06.00-0000
Mile Post:	
Person Contacted:	James Smith
Address:	5344 Indian Grave Rd
Phone Number:	(540) 123-4567
Category:	Resident Landowner

Information Provided

- Handed out educational material
- Discussed responsibility and resources available of response agency and acquainted official with our ability in responding to an emergency release and means of communication
- Handed out Emergency Telephone number memento

Confirmation

Employee:	Steve James
Signature:	

Quantifiable Metrics/Measures of Effectiveness (Item 2 under Article IX, Section 9.01 Final Report: “Where the output of the project can be quantified, a computation of the cost per unit of output.”)

Below denotes the statistics from Roanoke Gas utilizing the Transparent Earth and Point Man applications from June 21, 2016 – August 31, 2016:

- Average of 1,330 locate tickets per month captured
- 46 lines located
 - 46 Gas
 - 1 Telecom
 - 1 Drainage
- 54 Points Created
 - 13 Photos captured
 - 31 form documents
 - 3 file documents
 - 5 gas valves
 - 1 cathodic protection
 - 1 gas, other

The proof of concept was successful as denoted by the statistics. There is a potential for the participant to continue with this technology. If Roanoke Gas chooses to continue utilizing the application, it will be the first local distribution company with transmission lines in the United States to adopt this technology.

Issues, Problems or Challenges (Item 3 under Article IX, Section 9.02 Final Report: “The reasons for slippage if established objectives were not met.”)

There are no issues, problems or challenges to report.

Attachment A

Attachment B



ProStar GeoCorp, Inc.

760 Horizon Drive, Suite 200
Grand Junction, CO 81506

INVOICE

BILL TO

Virginia Utility Protection
Service, Inc.
1829 Blue Hills Circle, NE
Roanoke, VA 24012

INVOICE # 1136

DATE 01/14/2016

TERMS Due on receipt

DESCRIPTION	AMOUNT USD
Phase I: Execution of the Professional Services Agreement	25,000.00

Bank information for direct/electronic depositing:

ProStar GeoCorp, Inc.
routing #107002448
account #2600715166
(Bank of Colorado, 200 Grand Ave, Grand Junction, CO 81501)

BALANCE DUE

\$25,000.00

Acct # 1201 Dept. IT
Descr VARII/Prostar PILOT
Project - Payment 1 of 4
Amt 25,000.00 Apprv [Signature]
Accounting Use:
Check # 12825 Date 1/26/16



Virginia Utility Protection Service, Inc.
1829 Blue Hills Circle N.E.
Roanoke, VA 24012

PAY TO THE ORDER OF ProStar GeoCorp, Inc.

Twenty-Five Thousand and 00/100*****
ProStar GeoCorp, Inc.
760 Horizon Drive, Suite 200
Grand Junction, CO 81506

WELLS FARGO BANK, N.A.
www.wellsfargo.com
68-54/514

12825

1/26/2016

\$ **25,000.00

DOLLARS

[Handwritten Signature]
AUTHORIZED SIGNATURE

MEMO Inv #1136; Pmt 1 of 4 for Prostar pilot project

⑆0000012825⑆ ⑆051400549⑆ 2000015276458⑆

12825

VIRGINIA UTILITY PROTECTION SERVICE, INC.

ProStar GeoCorp, Inc.

Date 1/26/2016
Type Reference Bill 1136

1/26/2016
Discount
Balance Due 25,000.00
Original Amt. 25,000.00
Check Amount

Payment
25,000.00
25,000.00



ProStar GeoCorp, Inc.
760 Horizon Drive, Suite 200
Grand Junction, CO 81506

INVOICE

BILL TO

Virginia Utility Protection
Service, Inc.
1829 Blue Hills Circle, NE
Roanoke, VA 24012

INVOICE # 1155

DATE 02/25/2016

TERMS Due on receipt

DESCRIPTION

AMOUNT
USD

Phase 2: Completion and Sign-Off of Statement of Work

25,000.00

Bank information for direct/electronic depositing:

ProStar GeoCorp, Inc.

routing #107002448

account #2600715166

(Bank of Colorado, 200 Grand Ave, Grand Junction, CO 81501)

BALANCE DUE

\$25,000.00

VIRGINIA UTILITY PROTECTION SERVICE, INC.

ProStar GeoCorp, Inc.

12922

Date Type Reference
2/29/2016 Bill

Original Amt.
25,000.00

Balance Due
25,000.00

2/29/2016
Discount

Check Amount

Payment
25,000.00
25,000.00

Wells Fargo Checking Payment 2 of 4 Prostar grant

25,000.00



1829 Blue Hills Circle, NE
Roanoke, VA 24012
www.VA811.com



Save details to address book

On Jan 25, 2016, at 6:14 PM, Jim Allen <jallen@va811.com> wrote:

Rick,
I recommend approval.

<image002.jpg>

From: Debbie Hofbauer
Sent: Monday, January 25, 2016 4:18 PM
To: Jim Allen <jallen@va811.com>
Subject: Purchase Requisition #dh012516-01 Prostar Project

<image004.png>

Deb Hofbauer
Director, Information Technology
VA811
1829 Blue Hills Circle, NE
Roanoke, VA 24012

Acct #	1201	Dept.	FI
Descr	2nd Payment of 4 for Prostar Grant		
Amt	25,000	Apprv	Debbie Hofbauer
Accounting Use:		Check #	12922
		Date	2/29/16

va811.com

Dig With Care

Virginia Utility Protection Service, Inc.
1829 Blue Hills Circle N.E.
Roanoke, VA 24012

WELLS FARGO BANK, N.A.
www.wellsfargo.com
68-54/514

12922

2/29/2016

PAY TO THE ORDER OF ProStar GeoCorp, Inc.

\$ **25,000.00

Twenty-Five Thousand and 00/100***** DOLLARS

ProStar GeoCorp, Inc.
760 Horizon Drive, Suite 200
Grand Junction, CO 81506

Paul P. ...
AUTHORIZED SIGNATURE

MEMO

Payment 2 of 4 Prostar grant

⑈0000012922⑈ ⑆051400549⑆ 2000015276458⑈

VIRGINIA UTILITY PROTECTION SERVICE, INC.

12922

ProStar GeoCorp, Inc.
Date 2/29/2016 Type Reference Bill

Original Amt.
25,000.00

Balance Due
25,000.00

2/29/2016
Discount
Check Amount

Payment
25,000.00
25,000.00

Wells Fargo Checking Payment 2 of 4 Prostar grant

25,000.00



ProStar GeoCorp, Inc.
760 Horizon Drive, Suite 200
Grand Junction, CO 81506

INVOICE

BILL TO

Virginia Utility Protection
Service, Inc.
1829 Blue Hills Circle, NE
Roanoke, VA 24012

INVOICE # 1189

DATE 05/26/2016

TERMS Due on receipt

DESCRIPTION

AMOUNT
USD

Phase III: \$25,000 payable upon completion of development

25,000.00

Bank information for direct/electronic depositing:

ProStar GeoCorp. Inc.
routing #107002448
account #2600715166
(Bank of Colorado, 200 Grand Ave, Grand Junction, CO 81501)

BALANCE DUE

\$25,000.00

Acct # 1201 Dept. IT
Descr PAYMENT 3 of 4 - PROSTAR
Proof of PILOT/CONCEPT. PHMSA GRANT
Amt 25,000 Apprv. [Signature]
Accounting Use: # 13224
Check # 6/3/2016 Date

VIRGINIA UTILITY PROTECTION SERVICE, INC.

ProStar GeoCorp, Inc.

13224

Date Type Reference
5/26/2016 Bill 1189

Original Amt.
25,000.00

Balance Due
25,000.00

6/3/2016
Discount
Check Amount

Payment
25,000.00
25,000.00

Wells Fargo Checking Inv #1189; Pmt 3 of 4 for Proof of Pilot grant

25,000.00



ProStar GeoCorp, Inc.
 760 Horizon Drive, Suite 200
 Grand Junction, CO 81506

INVOICE

BILL TO

Virginia Utility Protection
 Service, Inc.
 1829 Blue Hills Circle, NE
 Roanoke, VA 24012

INVOICE # 1212

DATE 08/15/2016

TERMS Due on receipt

DESCRIPTION	AMOUNT USD
Phase IV: \$25,000 payable upon successful completion and sign-off of the user acceptance test (UAT)	25,000.00

Bank information for direct/electronic depositing:

ProStar GeoCorp. Inc.
 routing #107002448
 account #2600715166
 (Bank of Colorado, 200 Grand Ave, Grand Junction, CO 81501)

BALANCE DUE

\$25,000.00

Acct # 201 Dept. IT
 Descr VA 811 / PROSTAR - Proof of Concept Project Payment 4 of 4
 Amt 25,000.00 Apprv [Signature]
 Accounting Use: _____ Date _____
 Accounting Use: _____ Date 8/25/16
 Check # 13489 Date 8/25/16



Virginia Utility Protection Service, Inc.
1829 Blue Hills Circle N.E.
Roanoke, VA 24012

WELLS FARGO BANK, N.A.
www.wellsfargo.com
68-541514

13489

8/25/2016

PAY TO THE ORDER OF ProStar GeoCorp, Inc.

\$ **25,000.00

Twenty-Five Thousand and 00/100***** DOLLARS

ProStar GeoCorp, Inc.
760 Horizon Drive, Suite 200
Grand Junction, CO 81506

AUTHORIZED SIGNATURE

MEMO

Inv #1212; Pmt 4 of 4 for Proof of Pilot grant

⑈0000013489⑈ ⑆051400549⑆ 2000015276458⑈

VIRGINIA UTILITY PROTECTION SERVICE, INC.

13489

ProStar GeoCorp, Inc.

Date	8/15/2016	Type	Bill	Reference	1212
Original Amt.	25,000.00	Balance Due	25,000.00		
		Check Amount			
		Discount			
		Payment			
					25,000.00
					25,000.00

Wells Fargo Checking Inv #1212; Pmt 4 of 4 for Proof of Pilot grant

25,000.00

Details on Back

Security Features Included