

Barge Carrier Partner 2.0.15 Tool: Data Entry & Troubleshooting Guide 2015 Data Year - United States Version





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Transportation and Climate Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency



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Part 3: DATA ENTRY GUIDE

This guide is Part 3 of a three-part series designed to help your company participate fully in the SmartWay Transport Partnership.

In Part 3, you will learn how to enter the company and fleet data you collected using Part 2 into the SmartWay Barge Tool. This guide covers:

1. Downloading and setting up the Tool to run properly
2. Basic organization of the SmartWay Barge Tool
3. Entering your data
4. Data validation
5. Viewing fleet performance summary data
6. Submitting data to SmartWay
7. Troubleshooting the Tool



WARNING!

Completing this Tool requires a considerable amount of information about your company and the fleets that are joining SmartWay. There are many sections and screens to complete for each fleet that you operate. While you will have the ability to save your Tool along the way and return to it at any time, we **STRONGLY ENCOURAGE** you to review Part 1 to understand key information about joining the Partnership and use Part 2 of this series to learn about the data requirements and gather your data **BEFORE** attempting to use Part 3 to complete the Tool.



NOTE – The Barge Tool is designed for vessels transporting freight by barge. If a tug is associated with moving freight it should be included with your freight fleet; e.g. the tug puts barge combinations together, serves as a mobile repair vessel, or otherwise supports freight operations. Tug/tow vessel movements dedicated to other types of activity such as harbor services (e.g., ship docking) should be excluded from Tool inputs. However, partners are welcome to use the tool offline for analytics.

Downloading and Setting up the Tool

Software and Hardware Requirements

The Barge Tool was designed in Microsoft Excel. Microsoft Excel is an electronic spreadsheet program used for storing and manipulating data. Microsoft Excel Forms were used to enable the functional capabilities of the Tool.

Completing the Barge Tool requires the following software and hardware:

- A 2003 or later version of Microsoft Excel
- Excel security level set at Medium or lower
- A PC running Windows XP or newer operating system, or a Mac that is running the Windows XP operating system. The tool does not currently work using the Mac operating system
- At least 10 megabytes of available disk space (more disk space may be required based on the number of companies you define in your Tool).
- Adequate memory (RAM) to run Microsoft Office
- A monitor resolution of at least 1,024 x 768

NOTE: The Excel web application in MS Office 365 (the cloud-based version of the Office operating system) does not currently support the macros used in the SmartWay tools. Therefore SmartWay tools do no function properly in Office 365 at this time.

Check with the user guides for your computer, online support, or your company's IT department to make sure your system is set up to use the Barge Tool.

We encourage you to make sure that your virus software is up to date, and scan your PC before putting data in the Barge Tool.

Downloading the SmartWay Barge Tool

The Tool can be downloaded from the SmartWay website at <http://www.epa.gov/smartway/forpartners/index.htm>.

Please save the Tool in a folder on your hard drive; this folder will house copies of your data and future updates.

How to Set Security Levels for the SmartWay Tools

The following instructions should appear on your screen *if* you need to change your security settings before running the Tool. The instructions differ depending upon what version of Excel you use (Excel 2003, 2007, 2010 or 2013).

Security Settings for Excel 2003 Users

To use the Rail Tool in Microsoft Excel 2003, you will need to have your security levels set to “Medium.”

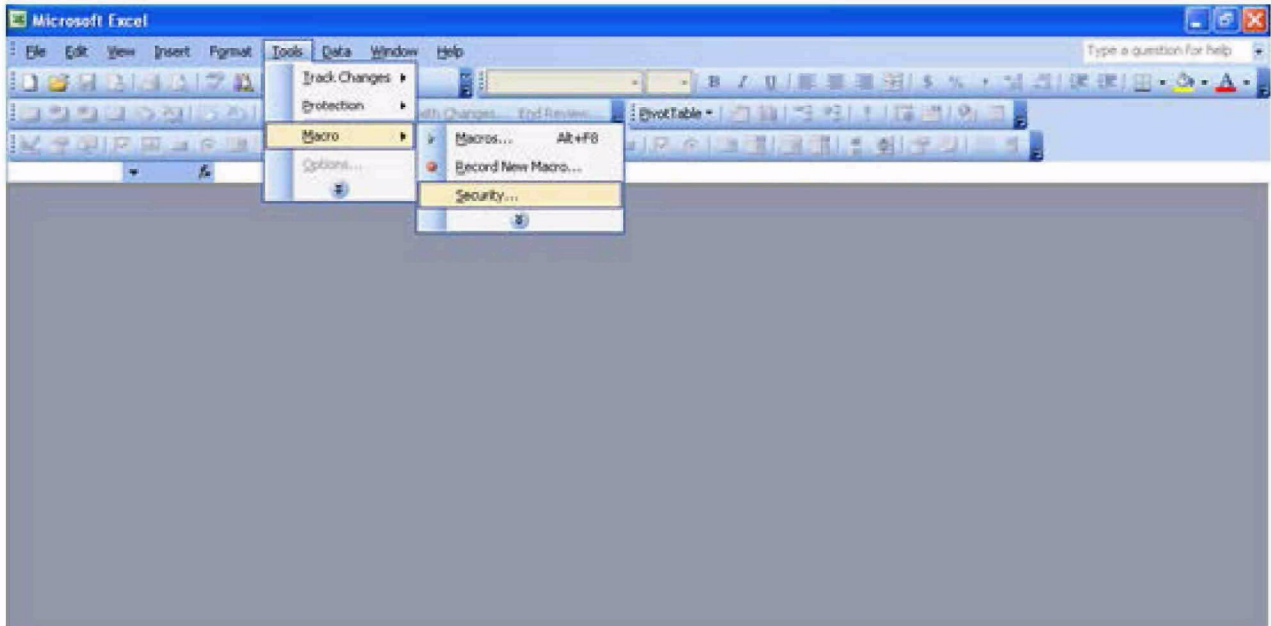


Figure 1: Macro Setting Tabs in Excel 2003

Setting Security Levels to Medium in Excel 2003

1. When using Excel 2003, on the menu bar, go to *Tools* → *Macro* → *Security Level*.
2. When the “Security” window opens, select the “Medium” level, and select **OK**.

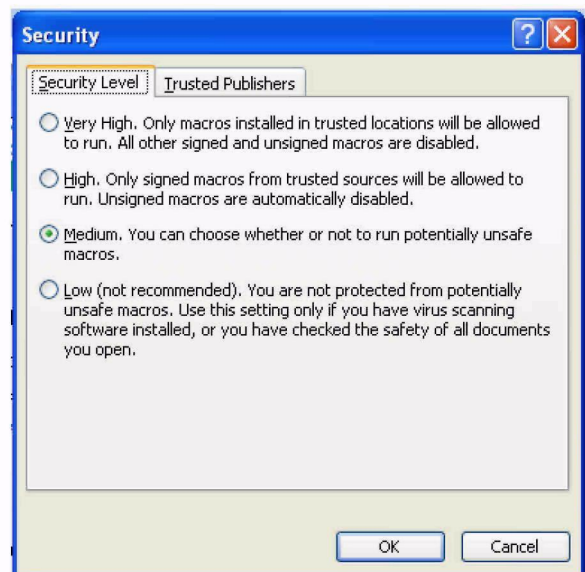


Figure 2: Security Level Setting Screen in Excel 2003

Running the Tool in Microsoft Excel 2003

1. Save the Tool to your computer in a folder on your hard drive.
2. Go to that folder and double-click on the file to open the Tool.
3. You will see a security-warning box appear (**Figure 3**). Select the

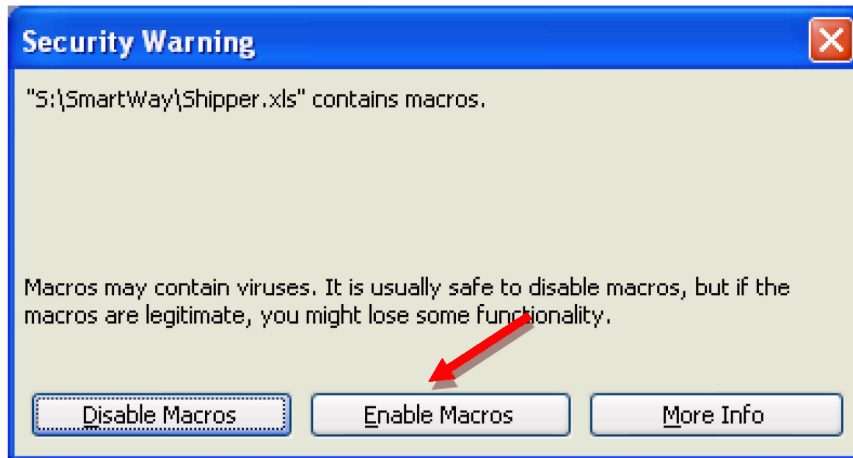
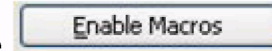


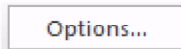
Figure 3: Screen showing “Enable Macros” button

The **Welcome** Screen for the Rail Tool should then appear and you will be ready to begin working on your tool.

Security Settings for Excel 2007 Users

The default settings for Excel 2007 should enable you to run the Tool without any changes.

Running the Tool in Microsoft Excel 2007

- 1) Save the Tool to your computer.
- 2) Open the file, and select the  button that appears after the Security Warning just below the menu bar (**Figure 4**). Detailed instructions are also provided on the screen itself.

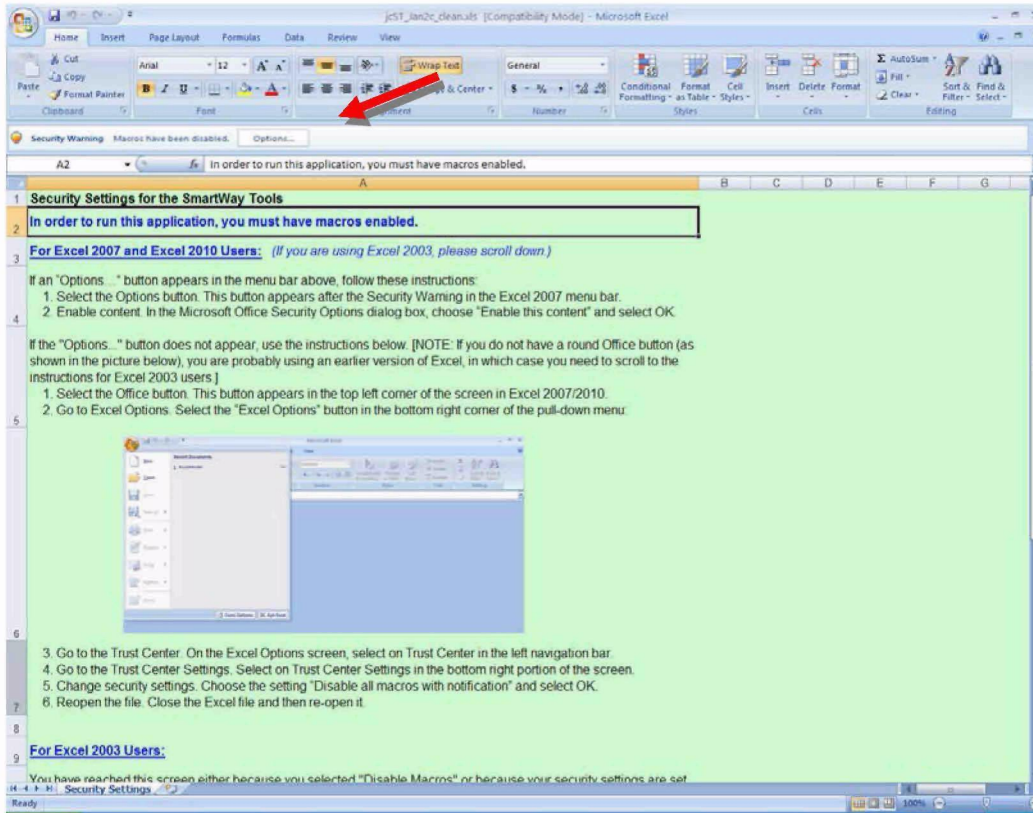


Figure 4: Security Warning Screen

- 3) In the **Microsoft Office Security Options** dialog box (Figure 5), choose “Enable this content” and select **OK**.

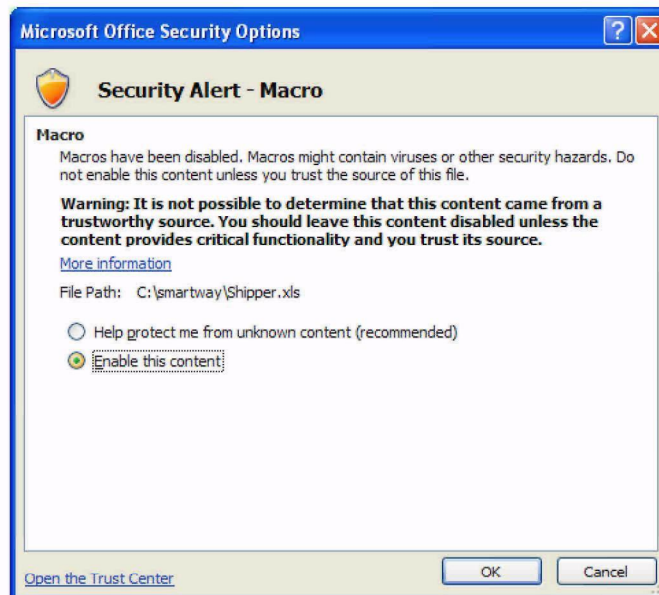


Figure 5: Security Options Dialogue Box

The **Welcome** Screen for Rail Tool should then appear and you will be ready to begin working on your Tool.

Troubleshooting the Security Settings in Microsoft Excel 2007

If you reach this point and the Tool does NOT open, you may have your security set too high.

To adjust your security settings, select the  button (in the top left corner of the screen) and then select the  button in the bottom right corner of the pull-down menu (**Figure 6A**).

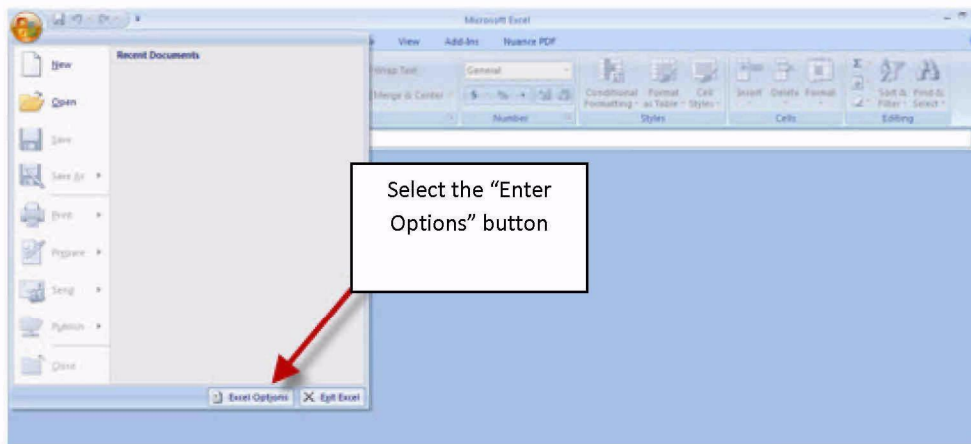


Figure 6A: Excel Options Drop-Down Menu

On the **Excel Options** screen, select **Trust Center** in the left navigation bar (**Figure 6B**):

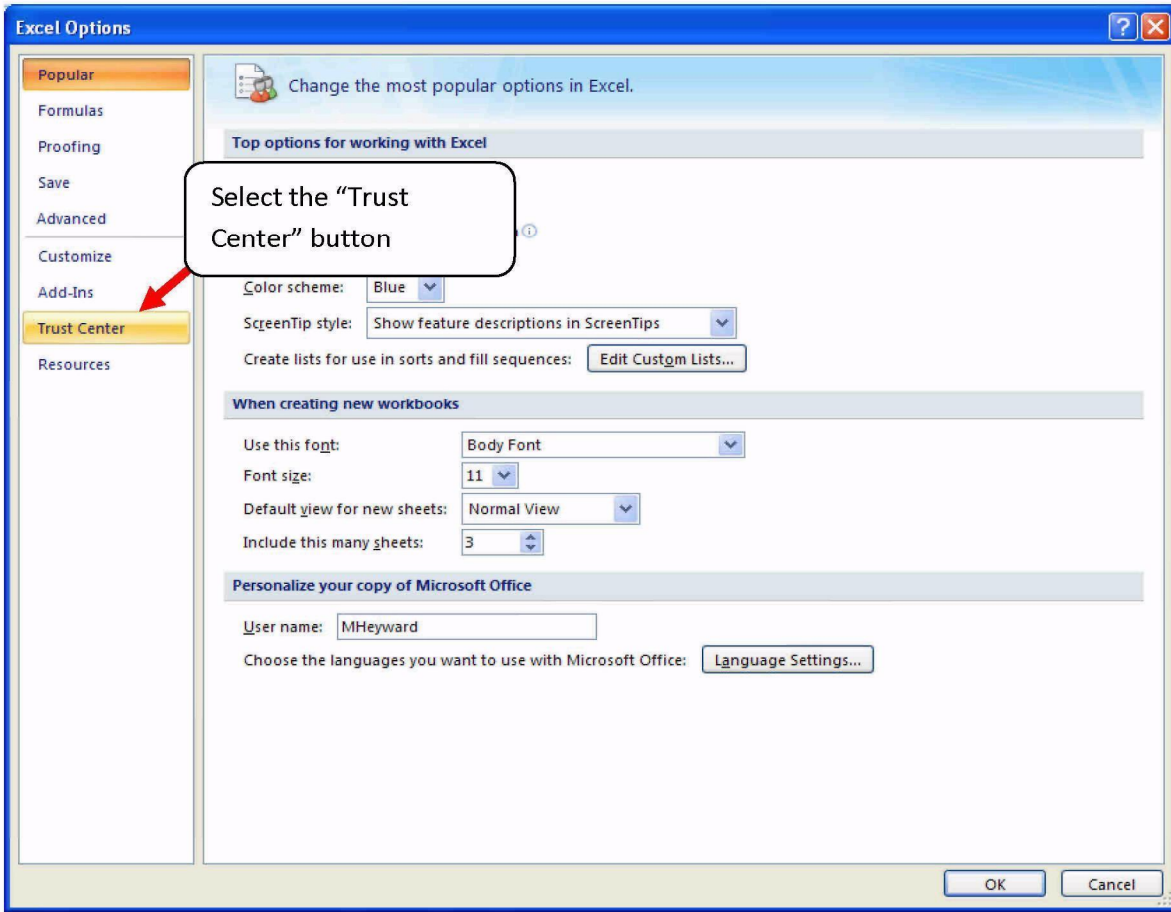


Figure 6B: Excel Options Drop-Down Menu

When the Trust Center options display opens, select **Trust Center Settings** in the bottom right portion of the screen (**Figure 7**):

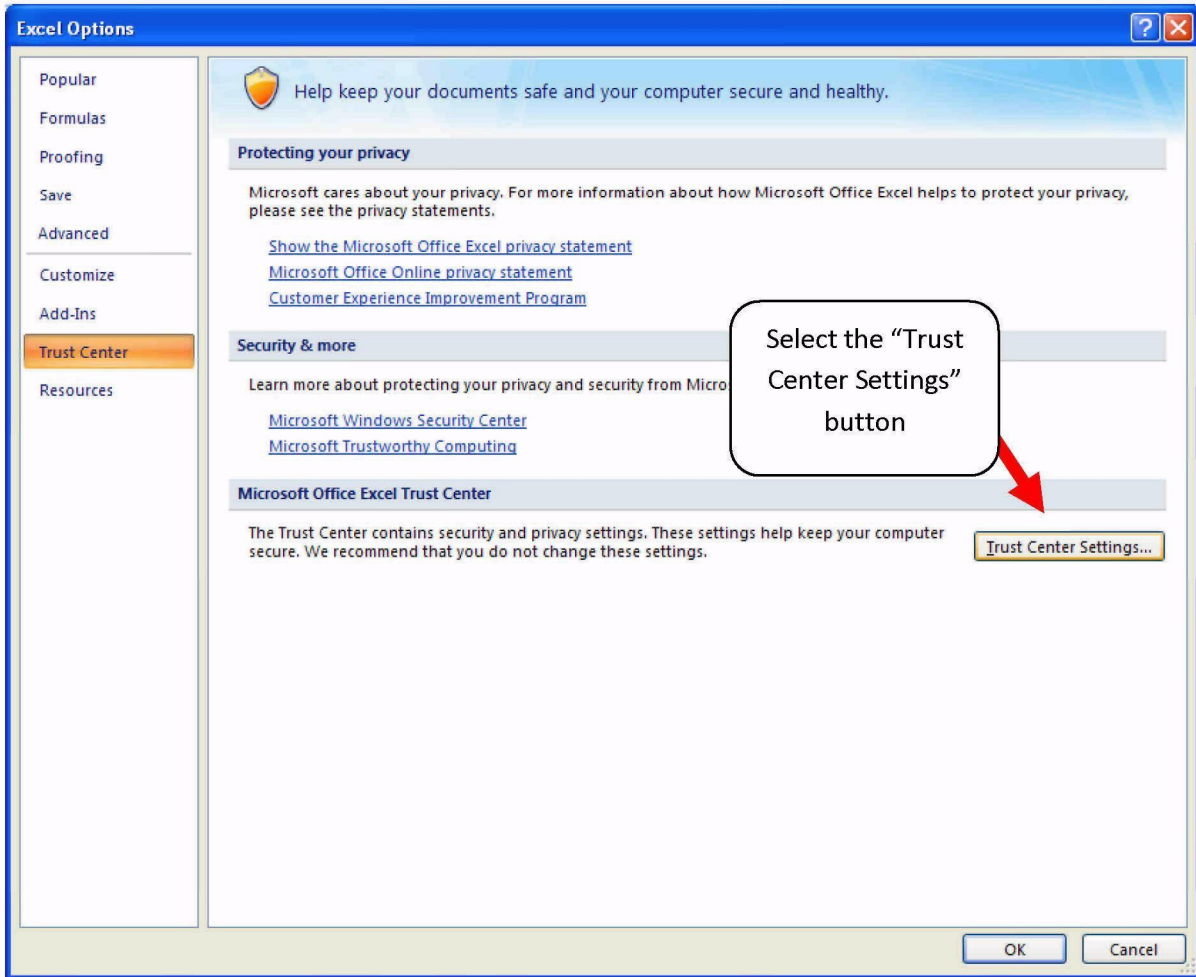


Figure 7: Trust Center Settings Screen

Choose the setting “Disable all macros with notification” (Figure 8) and select **OK**.

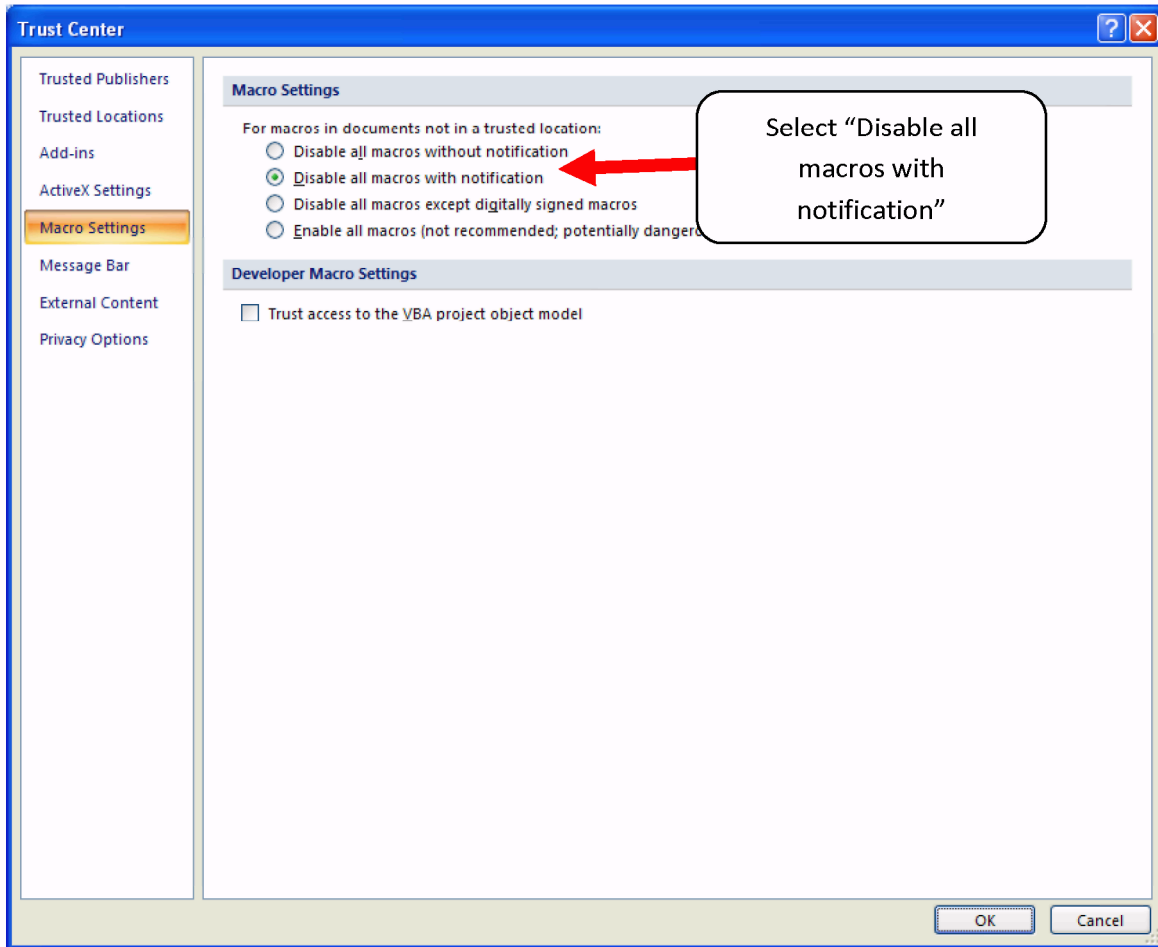


Figure 8: Macro Settings Screen

Then run the Tool.

If, at this point, the Tool does not open, review the “Software and Hardware Requirements” on page 7.

If you after reviewing this section, you cannot determine how to correct the problem, contact your SmartWay Partner Account Manager.

Security Settings For Excel 2010 and 2013 Users

The default settings for Excel 2010 and 2013 should enable you to run the tool without any changes. To run the tool:

- 1) Save the Tool to your computer.
- 2) Open the file. Depending on your Office settings, you may receive an “Enable Editing” popup. If you do, simply select the  button. This will allow you to enter data into the Tool. You may only receive this popup the very first time you open the Tool.

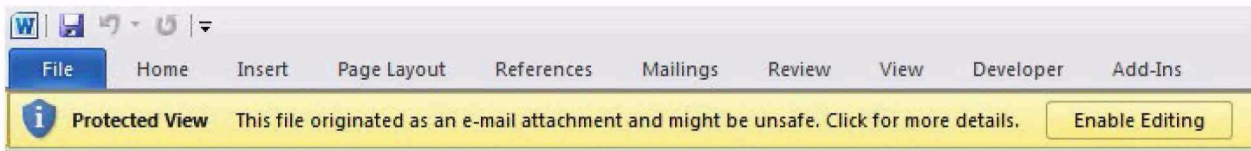


Figure 9: The Enable Editing Button

- 3) Depending on your Excel macro security settings, you may receive a  popup. If you do, simply select the  button. This will enable macros in the tool you just opened.

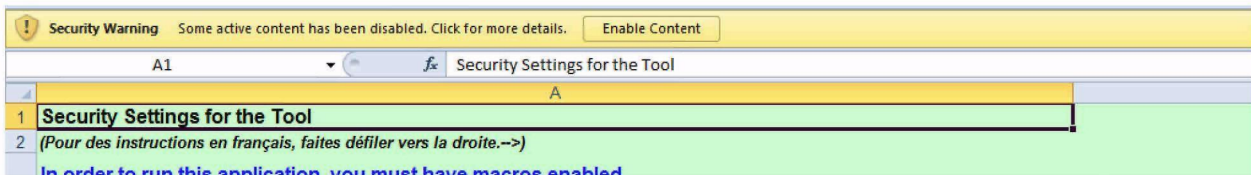

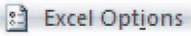


Figure 10: Security Warning Popup

If, at this point, the Tool does not open, review the “Software and Hardware Requirements” on page 7.

Otherwise, you may have your security set too high. To adjust your security settings, select the  button (in the top left corner of the screen) and then select the  button in the bottom right corner of the pull-down menu (**Figure 11**):

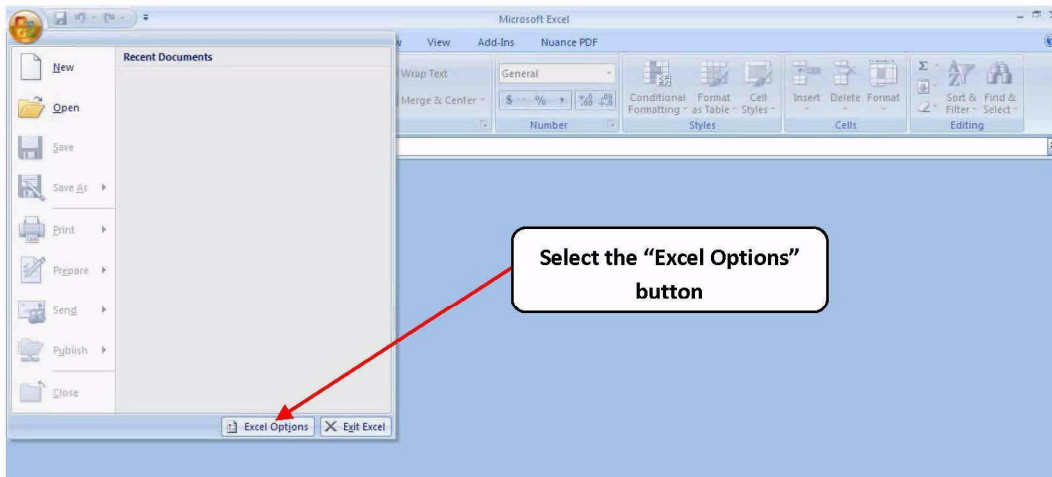


Figure 11: Excel 2010/2013 Options Drop-Down Menu

On the Excel Options screen, select **Trust Center** in the left navigation bar (**Figure 12**):

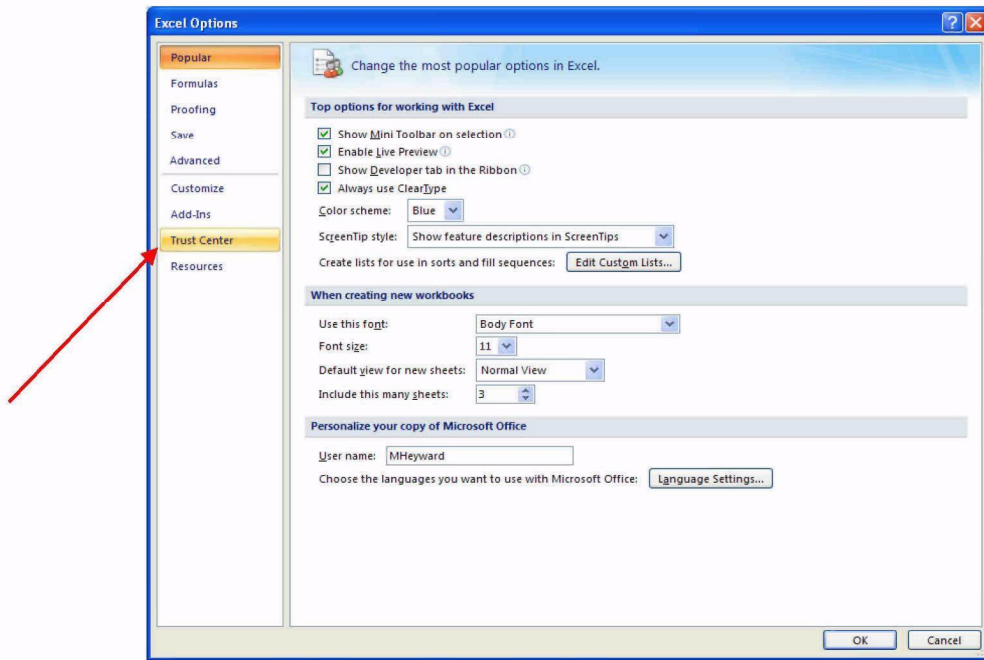


Figure 12: Excel 2010/2013 Options Drop-Down Menu

When the Trust Center options display opens, select **Trust Center Settings** in the bottom right portion of the screen (**Figure13**):

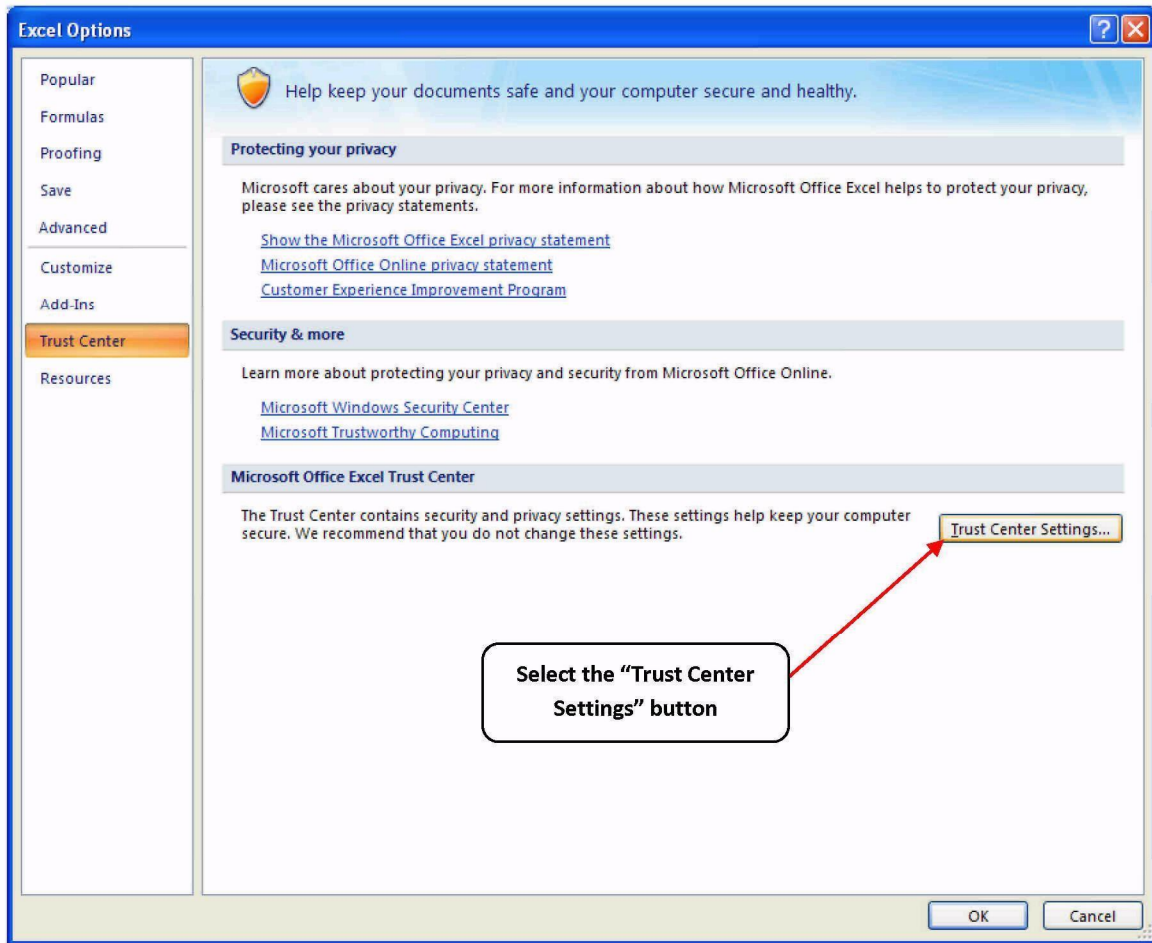


Figure 13: Trust Center Settings Screen

Choose the setting “Disable all macros with notification” (Figure 14) and select **OK**.

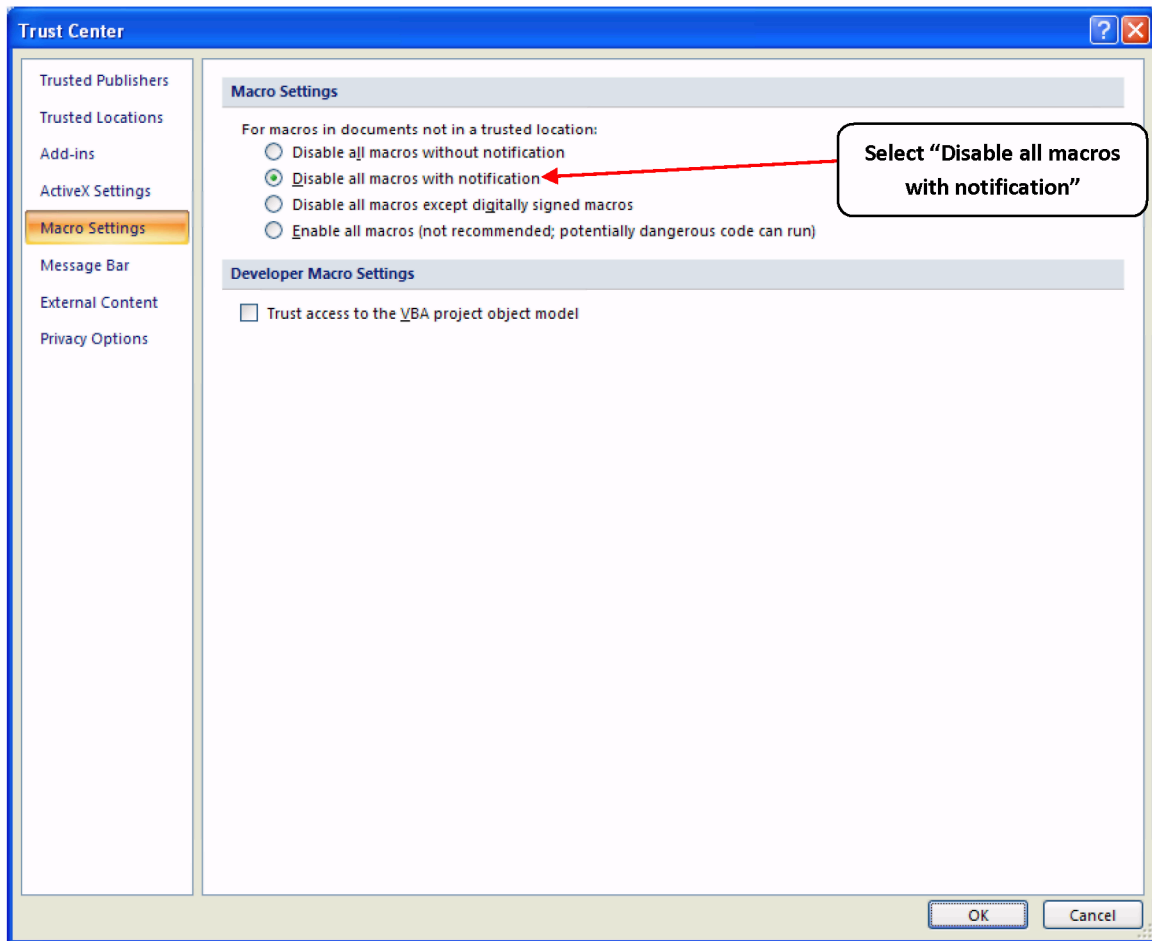


Figure 14. Macro Settings Screen

Basic Organization of the SmartWay Barge Tool

Understanding the Tool Format and Structure

The SmartWay Barge Tool is organized around (1) information screens, (2) forms or worksheets, and (3) reports/summaries that guide you through the process of joining the SmartWay Transport Partnership and/or providing your annual update to maintain your good standing with the program.

Each screen or form opens up within a Microsoft Excel spreadsheet. The screens generally look like the one shown here:

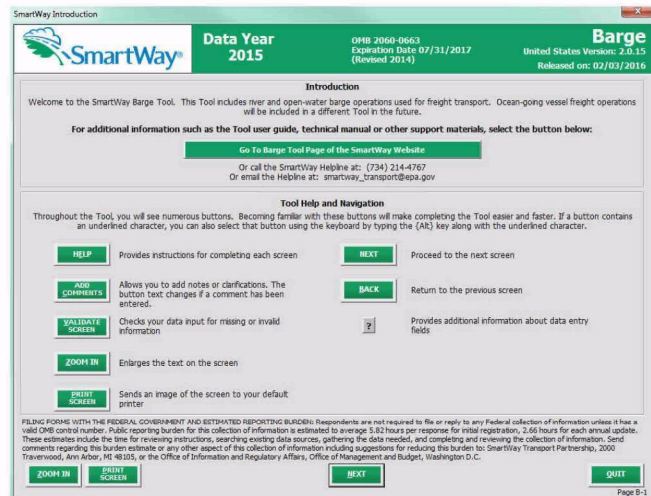


Figure 15: Opening Screen of Barge Tool

The name of each form appears at the top left-hand corner of the screen, in white text on the blue window bar.

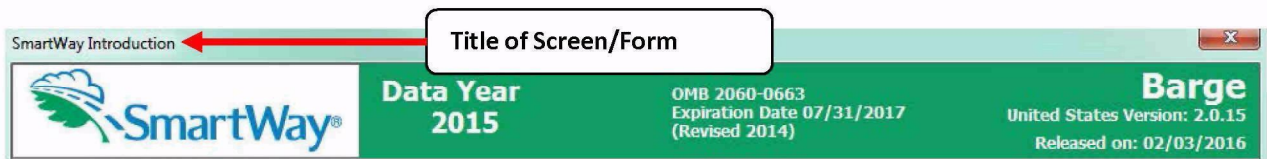


Figure 16: Screenshot of Title of Screen/Form

Each screen contains text instructions or information about the Program. Where applicable, the screen will also include buttons to link to the SmartWay website or other sections of the Tool (e.g., the various data entry screens); these buttons are shown in green with white text.

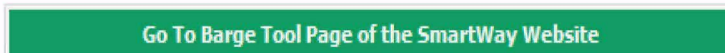


Figure 17: Screenshot of Button Link in the Tool

The screens also contain navigation buttons to direct you through the Tool.



Figure 18: Screenshot of Selected Navigation Buttons in the Tool

When a new concept/topic is introduced on a screen, a small question mark ([?]) appears next to it. When you select the question mark, you will find additional definitions of terms or instructions to help you complete the screen properly.

Reviewing the Introductory Screens

Before you reach your data entry section of the Tool, you will move through four introductory pages that allow you to review the basics of participation in SmartWay for companies transporting freight via barge:


- **The “SmartWay Introduction” Screen**
- **The “SmartWay Partnership Annual Agreement” Screen**
- **The “Required Information” Screen**
- **The “SmartWay Partner Schedule” Screen**

The features of these three screens are described below.

The “SmartWay Introduction” Screen

The **SmartWay Introduction** screen is the first window that appears when the Tool is opened (**Figure 19**). This screen contains a button linking to the SmartWay website where you can view and download additional information about the Program, the Tool, and the technical basis for the calculations in the Tool.

SmartWay Introduction X



**Data Year
2015**

OMB 2060-0663
Expiration Date 07/31/2017
(Revised 2014)

Barge
United States Version: 2.0.15
Released on: 02/03/2016

Introduction

Welcome to the SmartWay Barge Tool. This Tool includes river and open-water barge operations used for freight transport. Ocean-going vessel freight operations will be included in a different Tool in the future.

For additional information such as the Tool user guide, technical manual or other support materials, select the button below:

[Go To Barge Tool Page of the SmartWay Website](#)

Or call the SmartWay Helpline at: (734) 214-4767
Or email the Helpline at: smartway_transport@epa.gov

Tool Help and Navigation

Throughout the Tool, you will see numerous buttons. Becoming familiar with these buttons will make completing the Tool easier and faster. If a button contains an underlined character, you can also select that button using the keyboard by typing the {Alt} key along with the underlined character.

<p>HELP Provides instructions for completing each screen</p> <p>ADD COMMENTS Allows you to add notes or clarifications. The button text changes if a comment has been entered.</p> <p>VALIDATE SCREEN Checks your data input for missing or invalid information</p> <p>ZOOM IN Enlarges the text on the screen</p> <p>PRINT SCREEN Sends an image of the screen to your default printer</p>	<p>NEXT Proceed to the next screen</p> <p>BACK Return to the previous screen</p> <p>? Provides additional information about data entry fields</p>
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FILING FORMS WITH THE FEDERAL GOVERNMENT AND ESTIMATED REPORTING BURDEN: Respondents are not required to file or reply to any Federal collection of information unless it has a valid OMB control number. Public reporting burden for this collection of information is estimated to average 5.82 hours per response for initial registration, 2.66 hours for each annual update. These estimates include the time for reviewing instructions, searching existing data sources, gathering the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to: SmartWay Transport Partnership, 2000 Traverwood, Ann Arbor, MI 48105, or the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington D.C.

ZOOM IN

PRINT SCREEN

NEXT

QUIT

Page B-1

Figure 19: SmartWay Introduction Screen

The “SmartWay Partnership Annual Agreement” Screen

SmartWay Partnership Annual Agreement

SmartWay **Data Year 2015** OMB 2060-0663 Expiration Date 07/31/2017 (Revised 2014) **Barge** United States Version: 2.0.15 Released on: 02/03/2016

Partnership Annual Agreement for Carriers

With this annual agreement, your company joins EPA's SmartWay Transport Partnership and commits to:

1. Measure and report to EPA on an annual basis the environmental performance of your fleet(s) using EPA's SmartWay Tool. (Existing fleets must report the 12 months of data for the prior year ending December 31. Newly formed companies require a minimum of 3 months of operational data.)
2. Have performance results and Tool submittal status posted on the EPA SmartWay website/database.
3. Agree to submit supporting documentation to EPA for any data used to complete this Tool and agree to EPA audit of this data upon request by EPA.

In return, EPA commits to:

1. Promote company participation in the Partnership by posting Partner names on the EPA SmartWay Website and in related educational, promotional, and media materials. EPA will obtain express written consent from the Partner before using the Partner's name, other than in the context of increasing public awareness of its participation as described here.
2. Provide companies with industry-wide performance benchmark data as this data becomes available to EPA.
3. Assist Partners in achieving emission and fuel usage reduction goals (subject to Federal Government Appropriations).

General Terms

1. If the Partner or EPA defaults upon this agreement at any point, the agreement shall be considered null and void.
2. Either party can terminate the agreement at any time without prior notification or penalties or any further obligation.
3. EPA agrees not to comment publicly regarding the withdrawal of specific Partners.
4. EPA reserves the right to suspend or revoke Partner status for any Partner that fails to accomplish the specific actions to which it committed in the SmartWay Transport Partnership Agreement and subsequent annual agreements.
5. The Partner agrees that it will not claim or imply that its participation in the SmartWay Transport Partnership constitutes EPA approval or endorsement of anything other than the Partner's commitment to the program. The Partner will not make statements or imply that EPA endorses the purchase or sale of the Partner's products and services or the views of the Partner.
6. Submittal of this SmartWay Tool annually constitutes agreement to all terms in this Partnership Agreement. No separate agreement need be submitted.


By checking the box below, I declare that the information submitted via this Tool is, to the best of my knowledge, accurate. I understand that any person who, in the course of negotiating or performing under this Agreement, makes, presents or submits a false or misleading statement to the government, or any person who makes a material omission in the course of negotiating or performing under this Agreement, may be subject to liability under all applicable civil and criminal statutes including 18 U.S.C. 1001 (criminal liability for false statements), 31 U.S.C. 3801 - 3812 (civil liability for false statements) and 31 U.S.C. 3729-33 (The False Claims Act).

Select I understand and agree to the terms of this agreement.

ZOOM IN PRINT SCREEN BACK NEXT QUIT

Page B-2

Figure 20: SmartWay Partner Agreement

After selecting the  button on the [SmartWay Introduction](#) screen, the [SmartWay Partnership Annual Agreement](#) will appear. This screen replicates the agreement language found in Part 1 of this users guide series.

Submitting a SmartWay Barge Tool to EPA constitutes agreement to all terms in the Partnership Annual Agreement, so please review this screen or the text version in Part 1 of this users guide series *before* sending your Tool to EPA.

To reach the data entry sections of the Tool, you must agree to this language to join the SmartWay Transport Partnership by selecting the check box at the bottom left of the screen.

SmartWay Barge Tool submissions are due on an annual basis; therefore, when you submit your Tool each year, this will constitute your renewal of your Partnership Agreement. **Failure to send your annual Tool update will constitute a violation of the terms of the Agreement and will result in immediate removal of your company name/fleet from the SmartWay Partner List.**

The “Required Information” Screen

This screen provides a summary listing of the information you will need to collect to complete the SmartWay Barge Tool. Each of these items is discussed in detail later in this guide. Please refer to Part 2 of this guide series for a further discussion of the process used to gather the necessary data for the Tool.

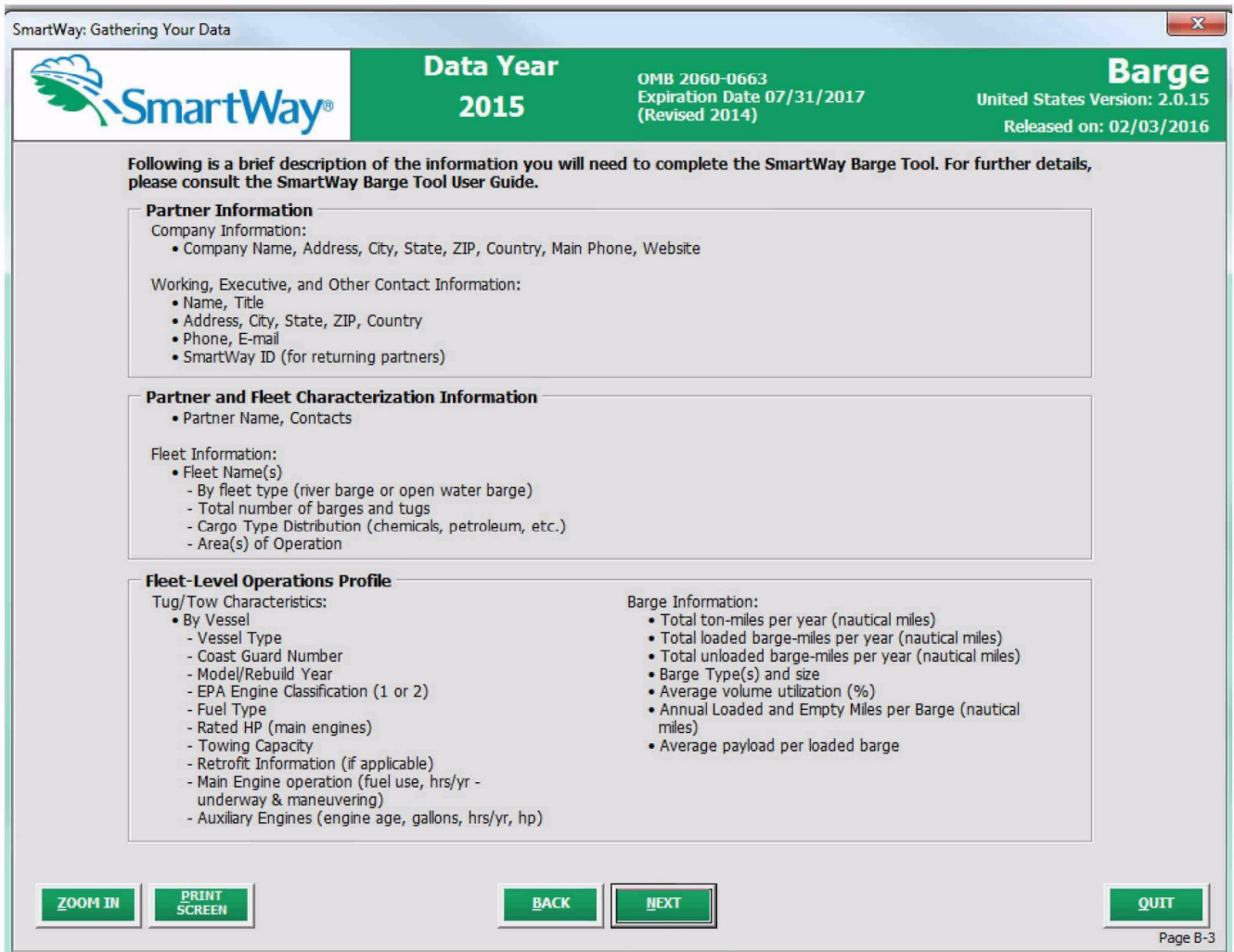


Figure 21: Summary of Required Information

Once you have navigated through the three introductory screens, you will be taken to the SmartWay Barge Tool [Home](#) screen.

SmartWay Partner Schedule Screen

The [SmartWay Partner Schedule](#) screen shows the release dates and due dates for the various Partner tools for the 2016 calendar year (**Figure 22**). The screen also shows how the outputs from the various carrier tools serve as inputs to other “downstream” tools such as Multi-modal, Logistics, and Shipper.

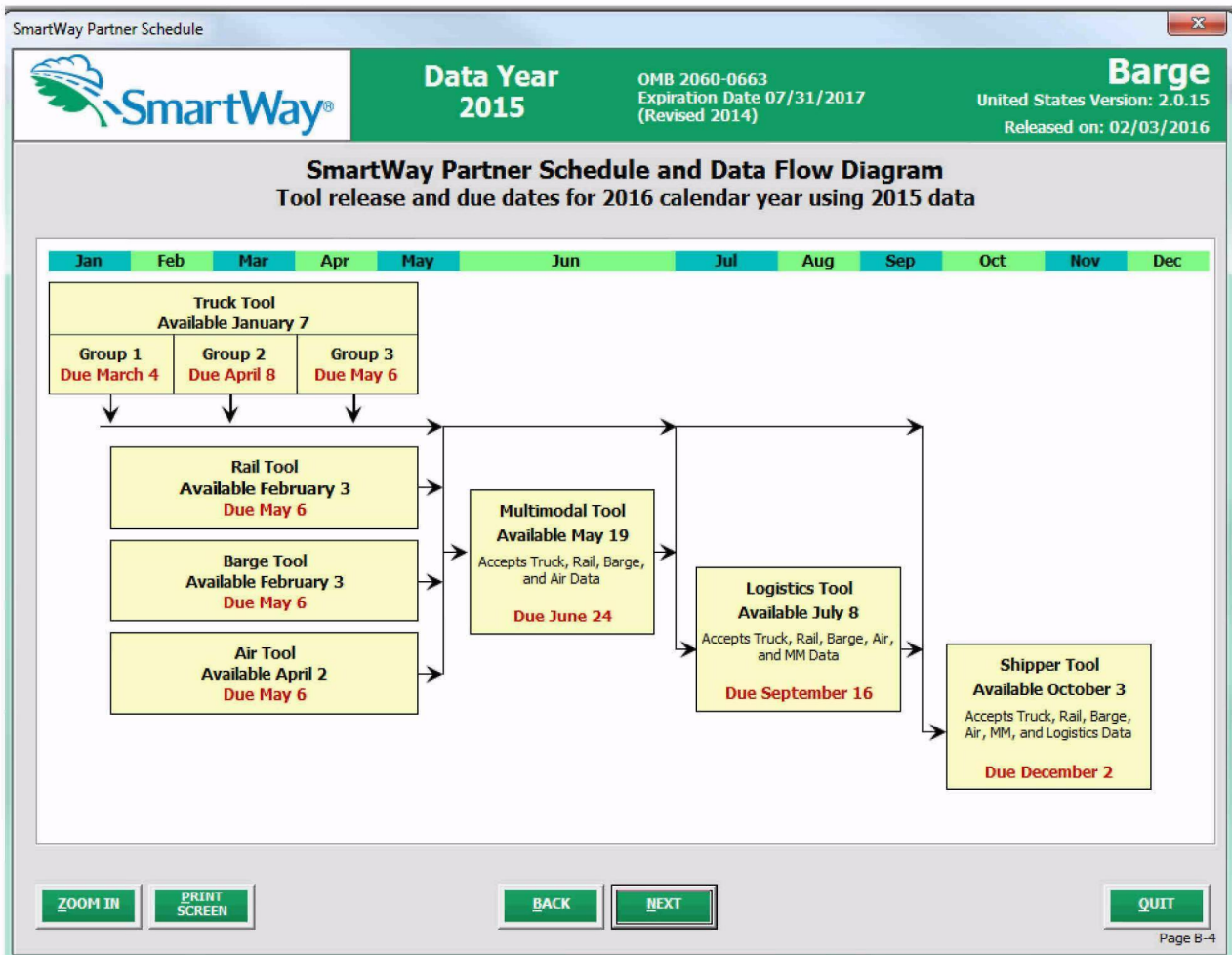


Figure 22: Screenshot of the Shipper Schedule Screen

Navigating the “Home” Screen

Figure 23 displays the layout of the **Home** screen.

SmartWay Barge: Home

SmartWay **Data Year 2015** OMB 2060-0663 Expiration Date 07/31/2017 (Revised 2014) **Barge** United States Version: 2.0.15 Released on: 02/03/2016

Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.

1. Enter Partner Name (Exactly as it should appear on the SmartWay website):
2. **Enter Contact Information**
3. **Characterize your Fleets**
4. **Data Entry** (Double-click the fleet name or select and hit Enter):
5. **Partner Profile / Suggestions** ?
6. **View Your Data Reports**
7. **Generate a (.xml) data file** ?
** After selecting this option, be sure to carefully read all directions before proceeding.*

BACK **ZOOM IN** **PRINT SCREEN** **SAVE** **QUIT** **HELP**

Page B-5

Figure 23: Main Tool Navigation or “Home” Screen

From the **Home** screen, you can:

- Specify your Partner Name;
- Fill out company contact information;
- Characterize your fleet(s) and create your blank data entry forms;
- Enter the required data for each fleet;
- Provide additional optional information;
- View results of your data entry; and,
- Create final file to submit to EPA.


There are seven sections on the [Home](#) screen. With the exception of the first, each section links to additional screens or worksheets within the Tool which are described below:

- **Enter Partner Name (data field):** Specify your company's Partner Name, exactly as you want it to appear on the SmartWay website.
- **Enter Contact Information (button):** This button takes you to a screen that asks for general company contact information, a working SmartWay point of contact, and an executive-level contact. Additional contacts may also be included.
- **Characterize your Fleets (button):** This button takes you to a screen that asks you to define all the fleets your company operates and provide information describing their operation. Once these parameters are defined, the software will enable you to generate blank data entry forms for each fleet.
- **Data Entry (list):** This section allows you to select the fleet for which you will be entering performance and fleet composition information necessary to calculate fleet efficiency metrics for your fleet; a list will indicate the fleet(s) defined and characterized in Section 3.
- **(Optional) Partner Profile/Suggestions (button):** Here you can provide information about your company's environmental accomplishments and give EPA feedback about the SmartWay program.
- **(Optional) View Your Data Reports (button):** Here you can view final summaries of your data including all data inputs, fleet performance summaries, and a summary of comments you have entered.
- **Generate a (.xml) data file (button):** This button creates a version of the Tool (in XML format) for you to send as an attachment in an e-mail to your Partner Account Manager (PAM). Selecting the **OK** button on this screen does *not* automatically submit the file to EPA; you still need to submit it to EPA by attaching it in an e-mail.


Entering Your Data

With the exception of Section 1, clicking on the buttons or list items in Sections 2 through 7 will take you to additional screens and worksheets that comprise the data entry segments of the Tool.

The first four sections of the home screen must be completed in order, and comprise all the steps needed to complete your SmartWay Barge Tool. After they are completed, you can review your output and/or submit your Tool to EPA.


Once you complete each mandatory step, a  will appear on the left of the screen.

Saving Your Data

At any stage of the process above, you can save the data you have entered by selecting the  button that appears at the bottom of all screens (including the [Home](#) screen). We recommend saving your data frequently if you are entering information for large numbers of fleets.



Validating Your Data

The SmartWay Carrier Tools include a variety of range checks and other validation rules designed to help identify potential data entry errors and/or unusual data values. In order to identify potential problems with your data entry and ensure the highest quality in your data submission, we highly recommend

selecting the  button at the bottom of each screen after completion of each data entry screen. The Tool will then identify any potential data problems on that screen for you to modify or to provide a text explanation. Please refer to the **Barge Tool Technical Documentation** available from the Barge Tool page of the SmartWay website, for details regarding the validation ranges used in the Tool.

NOTE – THIS VERSION OF THE BARGE TOOL ONLY HAS LIMITED VALIDATION CHECKS AT THIS TIME. As more data is acquired through Partner submissions, additional validation rules and a variety of range checks will be included in future versions of the Barge Tool submissions.

Reviewing Your Data

Each screen within the Tool has a  button. To generate a hard copy of screen text or your data inputs, select this button. The screen will be printed on your default printer. Alternately, you can return to the [Home](#) screen, select the  button, identify the report of interest using the Reports Menu, and print them out for review. The data reports provided by the Barge Tool are discussed further in this guide.

Entering Your Data

You must complete the first four sections of the **Home** screen in order. The next four sections of this guide explain how to enter your data on each of the screens.

Section 1 Data Entry: Enter Partner Name

EPA publishes your company's official name on the EPA SmartWay website and in the SmartWay Carrier Data File. This is how your customers will know that you are a SmartWay Partner, and how SmartWay Shippers will be able to identify your fleets for their reporting purposes. The name that EPA lists is known as your "Partner Name" and is defined within Section 1 of the Barge Tool.

Therefore, it is essential that you specify your company's Partner Name EXACTLY as you want it to appear on the SmartWay website. Pay special attention to proper capitalization, abbreviations, and punctuation, and remember that EPA will use whatever you enter EXACTLY as reported.

The screenshot shows the 'SmartWay Barge: Home' interface. At the top, there is a green header with the SmartWay logo, 'Data Year 2015', OMB 2060-0663, Expiration Date 07/31/2017 (Revised 2014), and 'Barge United States Version: 2.0.15 Released on: 02/03/2016'. Below the header, a message reads: 'Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.'

The main content area contains a list of steps:

1. Enter Partner Name (Exactly as it should appear on the SmartWay website):
ABC Barge, Inc. Enter Partner Name
2. Enter Contact Information
3. Characterize your Fleets
4. Data Entry (Double-click the fleet name or select and hit Enter):
5. Partner Profile / Suggestions ?
6. View Your Data Reports
7. Generate a (.xml) data file ?

** After selecting this option, be sure to carefully read all directions before proceeding.*

At the bottom, there are buttons for BACK, ZOOM IN, PRINT SCREEN, SAVE, QUIT, and HELP. The page number 'Page B-5' is in the bottom right corner.

Figure 24: Enter Partner Name on Home Screen

Section 2 Data Entry: Enter Company and Contact Information

PLEASE REFER TO [WORKHEET #1: Company Contact Information](#) from Part 2 of this guidance to complete this section of the Barge Tool.

From the [Home](#) screen, select the [Enter Contact Information](#) button.

The screenshot shows the SmartWay Barge Home screen. At the top, there is a green header with the SmartWay logo, 'Data Year 2015', OMB 2060-0663, Expiration Date 07/31/2017 (Revised 2014), and 'Barge United States Version: 2.0.15 Released on: 02/03/2016'. Below the header, a message reads: 'Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.' The main content area contains a list of steps:

1. **Enter Partner Name** (Exactly as it should appear on the SmartWay website):
ABC Barge, Inc.
2. **Enter Contact Information** (This button is highlighted with a red arrow and a callout box that says 'Select "Enter Contact Information"')
3. **Characterize your Fleets**
4. **Data Entry** (Double-click the fleet name or select and hit Enter):
[Empty text box]
5. **Partner Profile / Suggestions** [?]
6. **View Your Data Reports**
7. **Generate a (.xml) data file** [?]

* After selecting this option, be sure to carefully read all directions before proceeding.

At the bottom, there are buttons for BACK, ZOOM IN, PRINT SCREEN, SAVE, QUIT, and HELP. The page number 'Page B-5' is in the bottom right corner.

Figure 25: Enter Contact Information Button on Home Screen

You will then be taken to the [Contact Information](#) screens. These screens will ask you to, provide the following information:

1. Company Information
2. Working Contact information
3. Executive Contact (Vice President or higher)
4. Other Contacts

SmartWay: Contact Information ✕

Partner Information	Working Contact	Executive Contact	Other Contacts
Address1* <input type="text" value="248 Coast Drive"/> Address2 <input type="text" value="Ste 210"/> City* <input type="text" value="Galveston"/> State* <input type="text" value="TX"/> ZIP* <input type="text" value="78589"/> Country* <input type="text" value="USA"/> Main Phone* <input type="text" value="239-143-5512"/> Toll Free <input type="text" value="888-239-0001"/> Web Site <input type="text" value="www.abcbarge.com"/> Show			
<p>There must be at least two different people that SmartWay can contact. The Working Contact is the person assigned to work directly with EPA regarding timely and accurate Tool submission, and maintaining direct communication with SmartWay.</p> <p>The Executive Contact is the company executive who is responsible for agreeing to the requirements in the SmartWay Partnership Annual Agreement and ensuring timely submission of the Tool to SmartWay. The Executive Contact should be a Vice President or higher-level representative for the company.</p> <p>Working Contact: ?</p> Name <input type="text" value="Mr."/> First* <input type="text" value="John"/> MI <input type="text" value="C"/> Last* <input type="text" value="Ryan"/> Title* <input type="text" value="VP Operations"/>			
<p>Executive Contact: ?</p> Name <input type="text" value="Ms."/> First* <input type="text" value="Charity"/> MI <input type="text" value=""/> Last* <input type="text" value="Lange"/> Title* <input type="text" value="CEO"/>			
* - Required			
NEXT ZOOM IN PRINT SCREEN HOME VALIDATE SCREEN ADD COMMENTS HELP			

Page B-6

Figure 26: Entering Company and Contact Information

Each field marked with an asterisk must be filled out. You will not be able to submit the Tool to SmartWay without this information.

Steps for Entering Contact Information:

Under the Partner Information tab:

1. **Enter the Company data.**
2. **Enter the Working Contact name and title.**

The **Working Contact** is the individual designated by the Executive Contact to directly interface with SmartWay regarding specific tasks involved in the timely submission of the Tool. The Working Contact is responsible for coordinating the assembly of information to complete/update fleet data; completing and updating the Tool itself; maintaining direct communication with SmartWay; and keeping interested parties within the company apprised of relevant

developments with SmartWay. (NOTE: To ensure that e-mails from SmartWay/EPA are not blocked, new contacts may need to add SmartWay/EPA to their preferred list of trusted sources.)

3. Enter the Executive Contact name and title

The **Executive Contact** is the company executive who is responsible for agreeing to the requirements in the SmartWay Partnership Annual Agreement, overseeing the Working Contact (as appropriate), and ensuring the timely submission of the Tool to SmartWay. The Executive Contact also represents the company at awards/recognition events. This person should be a Vice President or higher level representative for the company.

Under the Working Contact tab:

The screenshot shows a web application window titled "SmartWay: Contact Information" with a close button (X) in the top right corner. The window has four tabs: "Partner Information", "Working Contact" (which is selected and highlighted in blue), "Executive Contact", and "Other Contacts". Below the tabs, the text "Please enter information about your Working Contact here." is displayed. The form contains several input fields: "Name" with the value "John C Ryan"; a green button labeled "Use Partner Address"; "Address1*" with "248 Coast Drive"; "Address2" with "Ste 210"; "City*" with "Galveston", "State*" with a dropdown menu showing "TX", "ZIP*" with "78589", and "Country*" with "USA"; "Phone*" with "239-189-5512", "Ext" with "111", "Cell" with "239-143-5778", and "Fax" with "239-153-4589"; "Email*" with "john.ryan@abcbarge.com"; and "Confirm Email*" with "john.ryan@abcbarge.com". A green checkmark icon is visible to the right of the "Confirm Email" field. Below the form, there is a legend: "* - Required". At the bottom of the window, there is a row of green buttons: "BACK", "NEXT", "ZOOM IN", "PRINT SCREEN", "HOME", "VALIDATE SCREEN", "ADD COMMENTS", and "HELP". The page number "Page B-7" is located in the bottom right corner of the window.

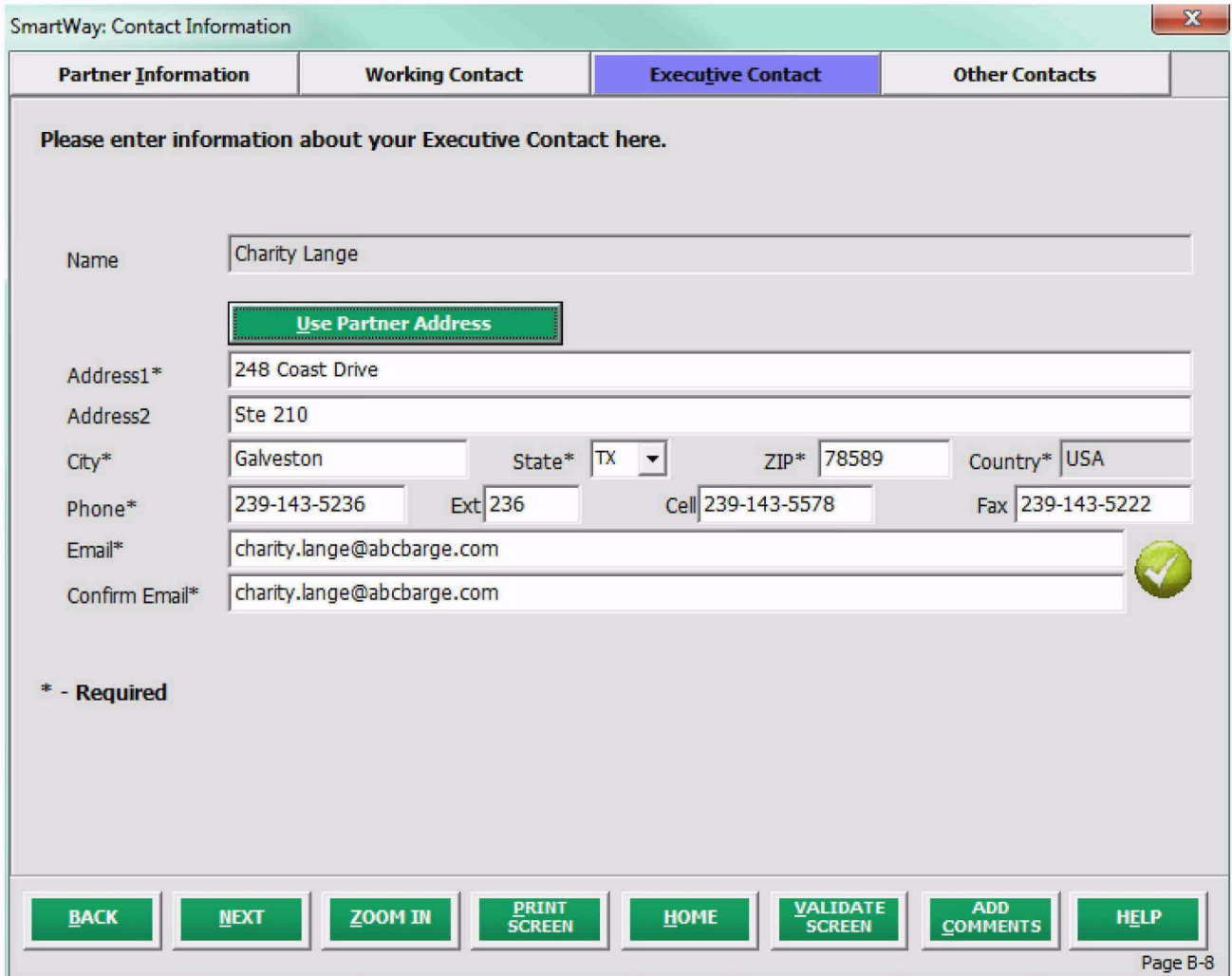
Figure 27. Working Contact Information Screen

1. Enter the Working Contact information. If the Working Contact shares the same address as the company, you may select the **Use Partner Address** button to auto-populate the

address section of this record. Enter the email address twice to confirm its accuracy. When

confirmed a  will appear to the right.

Under the Executive Contact tab:



SmartWay: Contact Information

Partner Information Working Contact **Executive Contact** Other Contacts

Please enter information about your Executive Contact here.

Name: Charity Lange

Use Partner Address

Address1*: 248 Coast Drive

Address2: Ste 210

City*: Galveston State*: TX ZIP*: 78589 Country*: USA

Phone*: 239-143-5236 Ext: 236 Cell: 239-143-5578 Fax: 239-143-5222

Email*: charity.lange@abcbarge.com

Confirm Email*: charity.lange@abcbarge.com

* - Required

BACK NEXT ZOOM IN PRINT SCREEN HOME VALIDATE SCREEN ADD COMMENTS HELP

Page B-8

Figure 28. Executive Contact Information Screen

1. Enter the Executive Contact information. If the Working Contact shares the same address as the company, you may select the **Use Partner Address** button to auto-populate the address section of this record.

Under the Other Contacts tab:

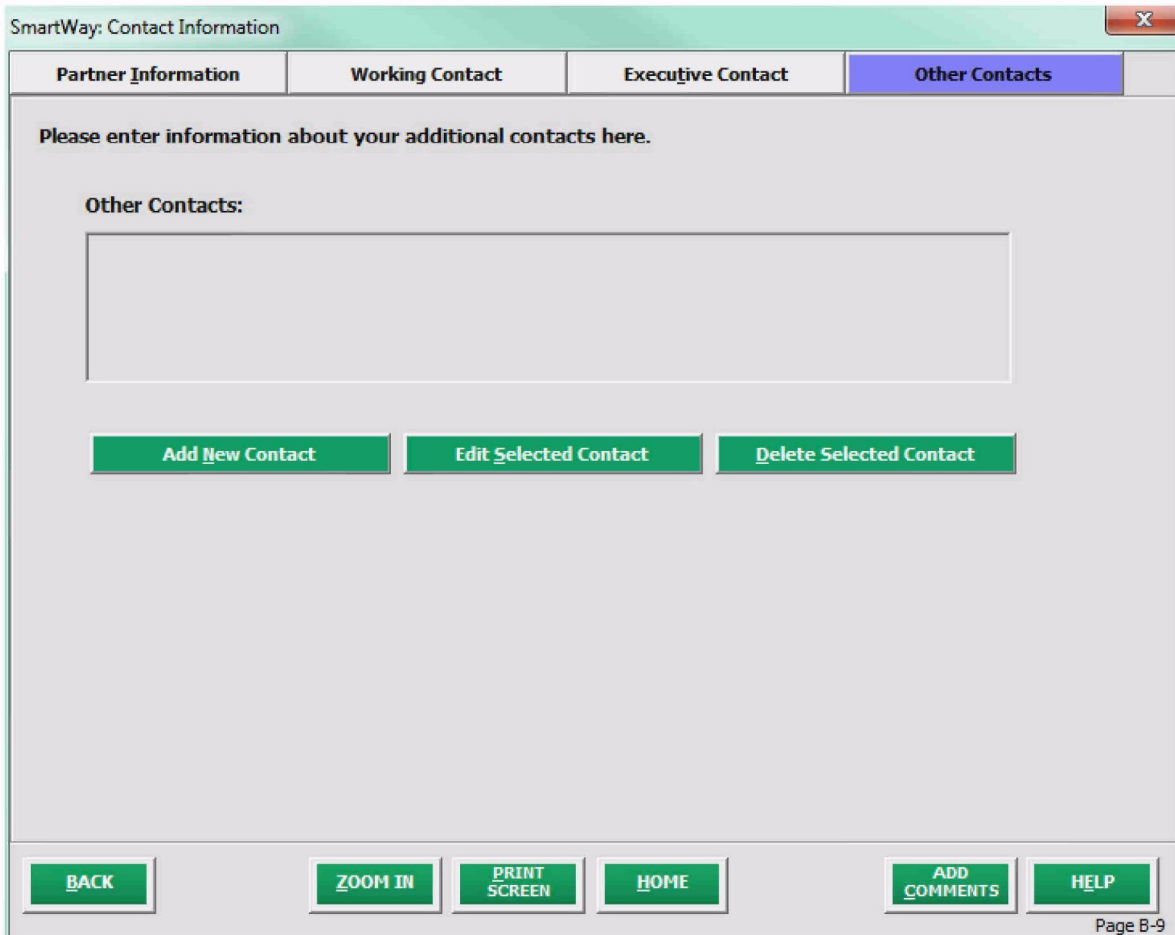




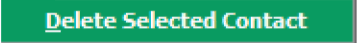
Figure 29. Other Contact Information Screen


1. Enter Other Contacts (if applicable) by selecting the  button.
2. Enter the first Other Contact then select **OK** when done.


Note: You must supply at least two unique contacts on the contact screen to ensure EPA has access to at least two people for Tool submission follow-up.

NOTE: In some cases, companies with multiple fleets will gather information from different sources within the company. You may find it useful to have this additional contact information stored within the Tool.

You can add more contacts to the **Other Contacts** box by repeating this process. If you wish to edit an existing contact's information, highlight the name you wish to edit and then select the

 button. You can remove an existing contact by highlighting the contact and then selecting .

To make sure you have filled out all required contact information, select  at the bottom of the screen on the Partner Information tab. If any information is missing or invalid, a dialogue box will appear informing you what additional information is required.

4. Next select the  button to return to the [Home](#) screen and go to Step 3.

Section 3 Data Entry: Characterize your Fleets

PLEASE REFER TO [WORKHEET #2: Fleet Characterization](#) of Part 2 of this guidance to complete this section of the Barge Tool.

Next, on the [Home](#) screen select [Characterize your Fleets](#) to display the [Fleet Characterization](#) screens. This is the section where you will define the various components of your fleets.

The [Fleet Characterization](#) screen is shown below:

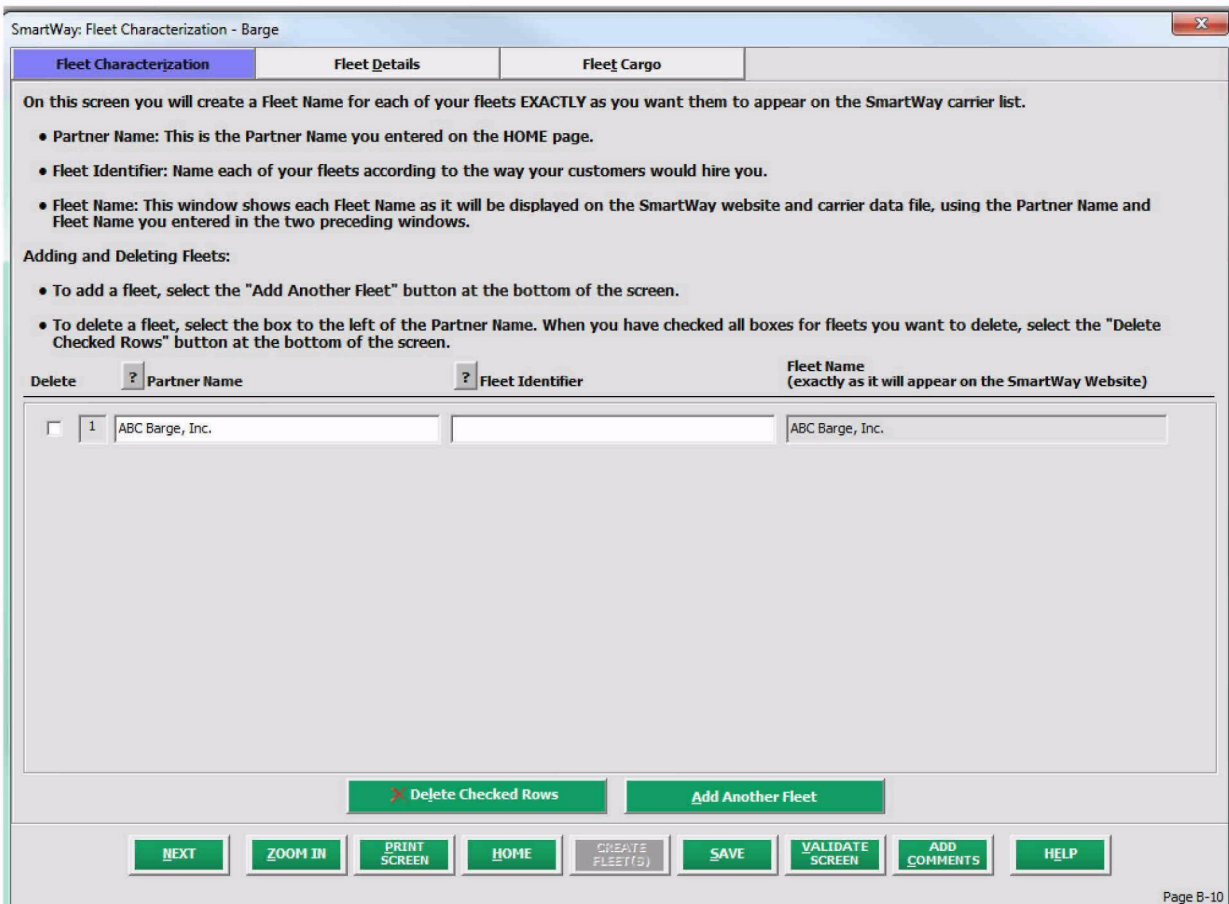


Figure 30: Blank Fleet Characterization Screen

Steps for Completing Fleet Characterization Screen:

For each fleet, you will need to specify:

- **Partner Name:** On the SmartWay website, each of your Fleet Names will begin with the name of your company. This fleet "prefix" will be whatever you enter in the **Partner Name** field on the [Fleet Characterization](#) screen. By default, this field is automatically populated with the first 50 characters of the **Partner Name** that is entered on the [Home](#) screen. You should specify the name so that it appears EXACTLY as it you want it to show within each Fleet Name. (For example,

if your company's name includes "Inc." or "Ltd.", you may choose not to include that in your Fleet Names.) Please pay special attention to proper capitalization, abbreviations, and punctuation.

- **Fleet Identifier:** Specify each Fleet Identifier exactly as you want it displayed on the SmartWay website, including proper capitalization, any abbreviations, and punctuation. Remember that it will automatically be combined with the **Partner Name** field.

Adding Fleets

To enter another fleet, select the **Add Another Fleet** button. To delete a fleet, select the box next to the row you wish to delete, and then select the **Delete Checked Rows** button.

Once you have confirmed or modified the **Partner Name** and specified the **Fleet Identifier**, the full **SmartWay Website Fleet Name** will be displayed on the screen to the right, exactly how they will be displayed on the SmartWay website.

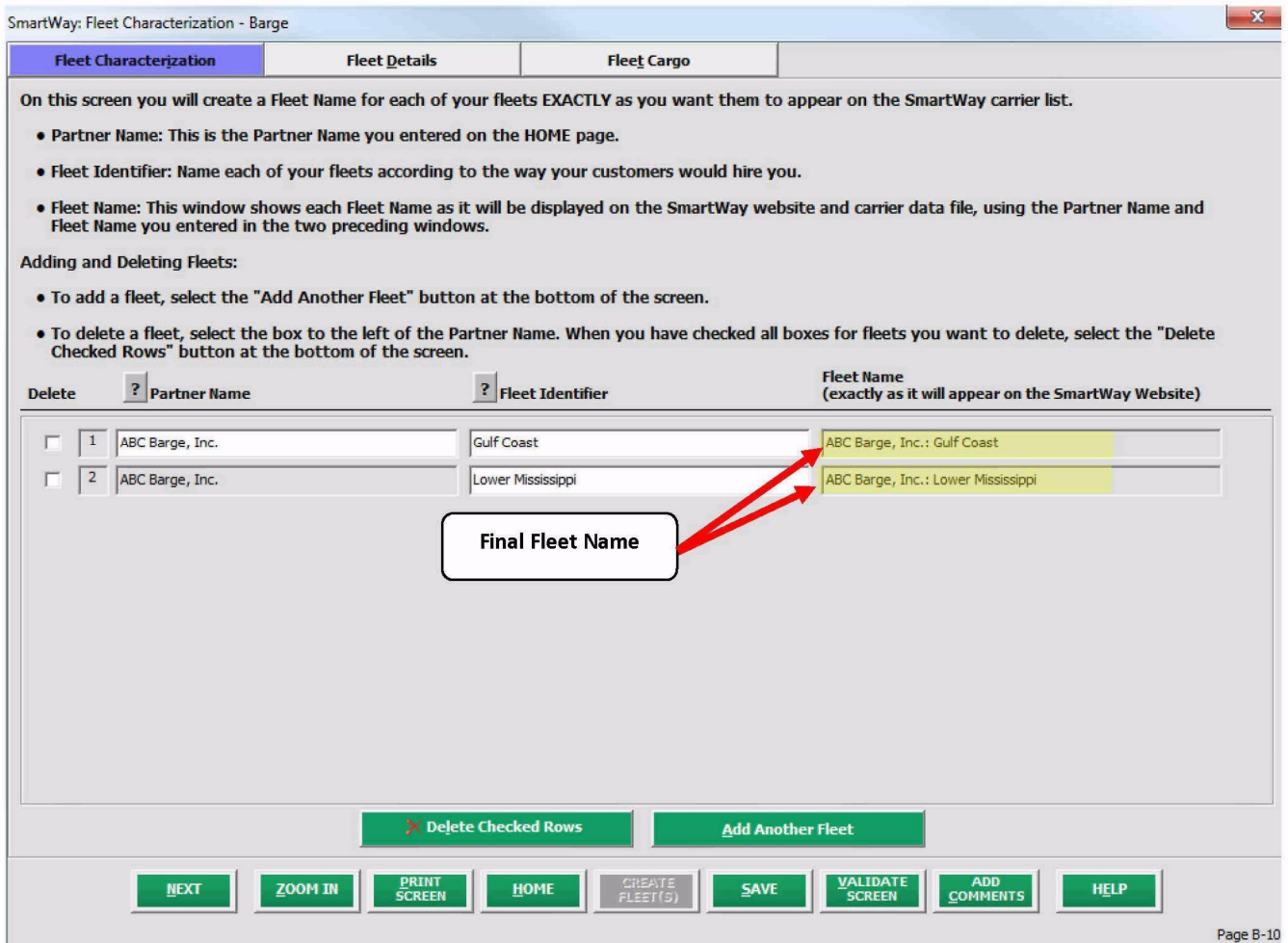



Figure 31: Fleet Characterization Screen with Two Fleets



Remember to create separate fleets for each entity your customers have discretion to hire.

If, at a point later in the data entry process, you realize that you need to add a new fleet or delete an existing fleet, you can return to the [Fleet Characterization](#) screen. To add a new fleet, follow all of the

instructions on the screen regarding defining your fleets, including selecting the  button at the end of the process (see below). When you select this button, the system will create blank data entry forms only for the new fleet(s) you have added; the existing fleets will not be affected.

Steps for Completing Fleet Details Screen

Once you have completed naming your fleet(s) on the [Fleet Characterization](#) screen, select the



button, or click on the [Fleet Details](#) tab at the top of the screen to proceed. The [Fleet Details](#) screen will then appear with a row named for each fleet you identified on the previous screen. For each fleet specify the type of fleet (open-water barge or river barge), the total number of barges, the total number of tugs, and the Fleet Contact for each. The Fleet Contact should be one of the contacts you already identified in the [Contact Information](#) section as the contact for each fleet. If a fleet has a contact for the fleet that is not already listed in the Contacts worksheet, you will need to go back to the Contact Information screen to add the required contact information.

Make sure to report ALL vessels included in your fleet, including those used for hub operations. In addition, make sure the number of barges is greater than the number of tugs. See **Figure 32** for an example.

SmartWay: Fleet Characterization - Barge

Fleet Characterization | **Fleet Details** | Fleet Cargo

For each fleet specify the type of fleet (open-water barge or river barge), the total number of barges, the total number of tugs, and the Fleet Contact for each. Make sure to report ALL vessels included in your fleet, including those used for hub operations and harbor services, as long as these are freight-related.

After completing the information on this screen, select the "Fleet Cargo" tab above or select the NEXT button at the bottom of this screen.

Partner/Fleet Name	Fleet Type	Total Number of Barges	Total Number of Tugs	Fleet Contact
1: ABC Barge, Inc.: Gulf Coast	Open-water Barge	45	16	Richard Lewis
2: ABC Barge, Inc.: Lower Mississippi	River Barge	35	10	John Ryan

BACK | NEXT | ZOOM IN | PRINT SCREEN | HOME | CREATE FLEET(S) | SAVE | VALIDATE SCREEN | ADD COMMENTS | HELP

Page B-11

Figure 32: Example Fleet Details Screen Data Entry

After completing the information on this screen, select the **Fleet Cargo** tab above or select the



button at the bottom of the screen.

Steps for Completing Fleet Cargo Screen

For each fleet, enter the amount of cargo shipped per year by commodity category, in short tons. Containers may be entered in TEUs by selecting TEUs from the "Units for containers" drop-down box. A total summation is included on the far right for your reference. If any cargo falls in the "other" category, you will be asked to add a description regarding the type of material shipped. See **Figure 33** for an example data entry screen.

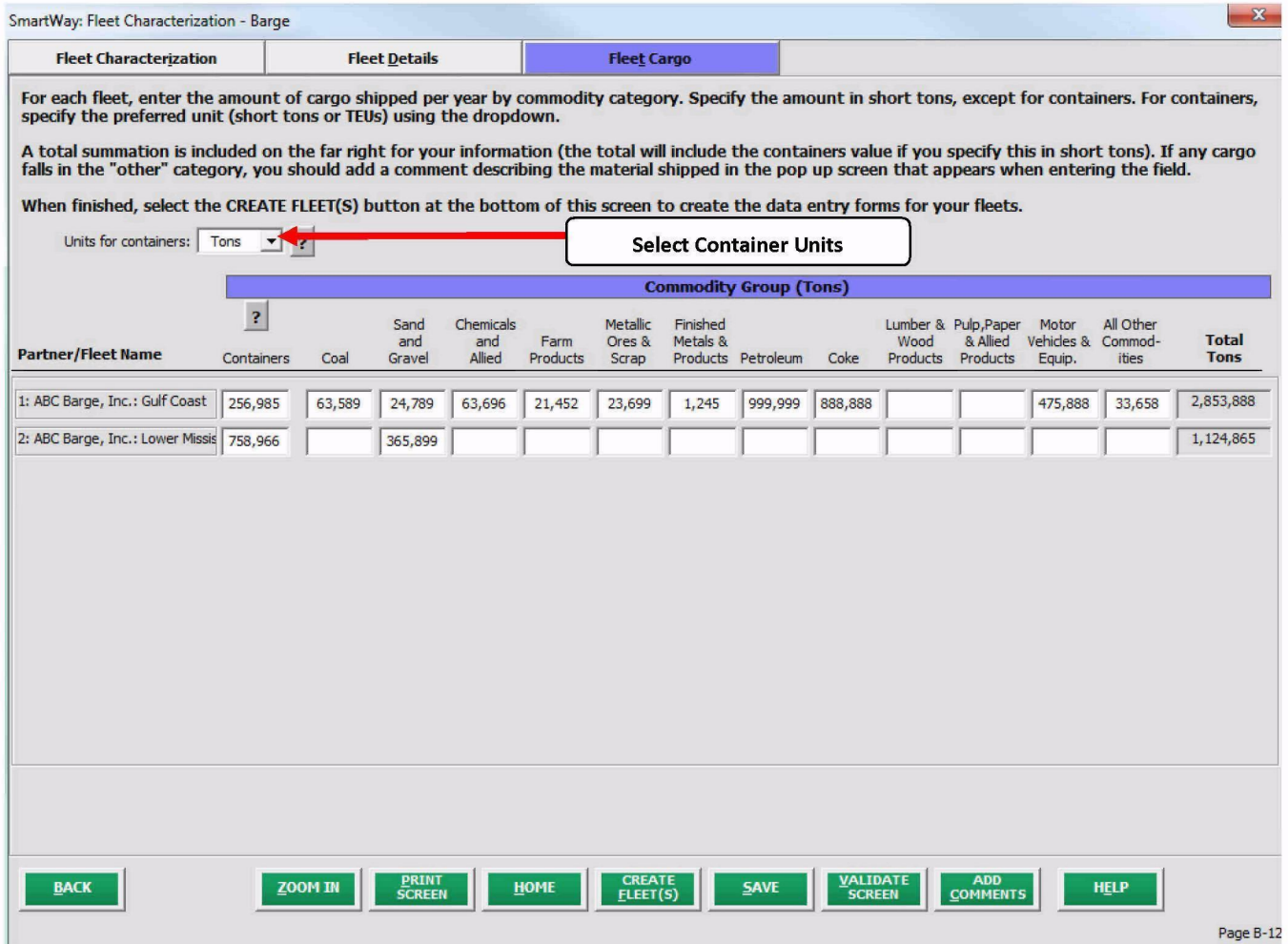
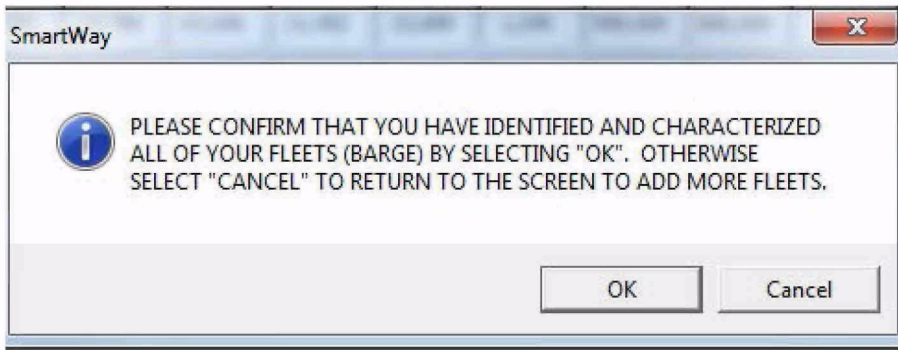



Figure 33: Example Fleet Cargo Screen Data Entry

When finished, select the button at the bottom of this screen to create the data entry forms for your fleets. When you select this button, the system will create blank data entry forms for each fleet you have characterized.

NOTE: After selecting the button you will be asked to confirm that you have identified all of your fleets (see below). Select OK to proceed or CANCEL to add more fleets.







Selecting  will take you back to the [Home](#) screen (see [Figure 23](#)).

Adding Comments/Notes

Creating useful comments assists SmartWay Tool reviewers in approving your Tool as quickly as possible. Your comments help reviewers understand your business operations. Any details that you can provide related to your operations will speed up approval time.



Please note the  buttons located at the bottom of the screens. These allow you to enter notes about the collection process, your assumptions and methods, data, or other information. These details could prove useful for your reviewer when you or someone else fills out the Tool next year. If comments have been added for a particular screen, the  button will be highlighted in yellow on your screen and will now read  to indicate to your reviewer that there are comments to be read.

A  button is also available should you need assistance. You will also notice small gray icons with question marks [?] displayed throughout the Tool. When selected, these icons provide additional information about specific items located on the screen.

Reviewing Fleet Status

On the [Home](#) screen, you will now see all the fleets you created listed in the window below item # 4: [Data Entry](#).

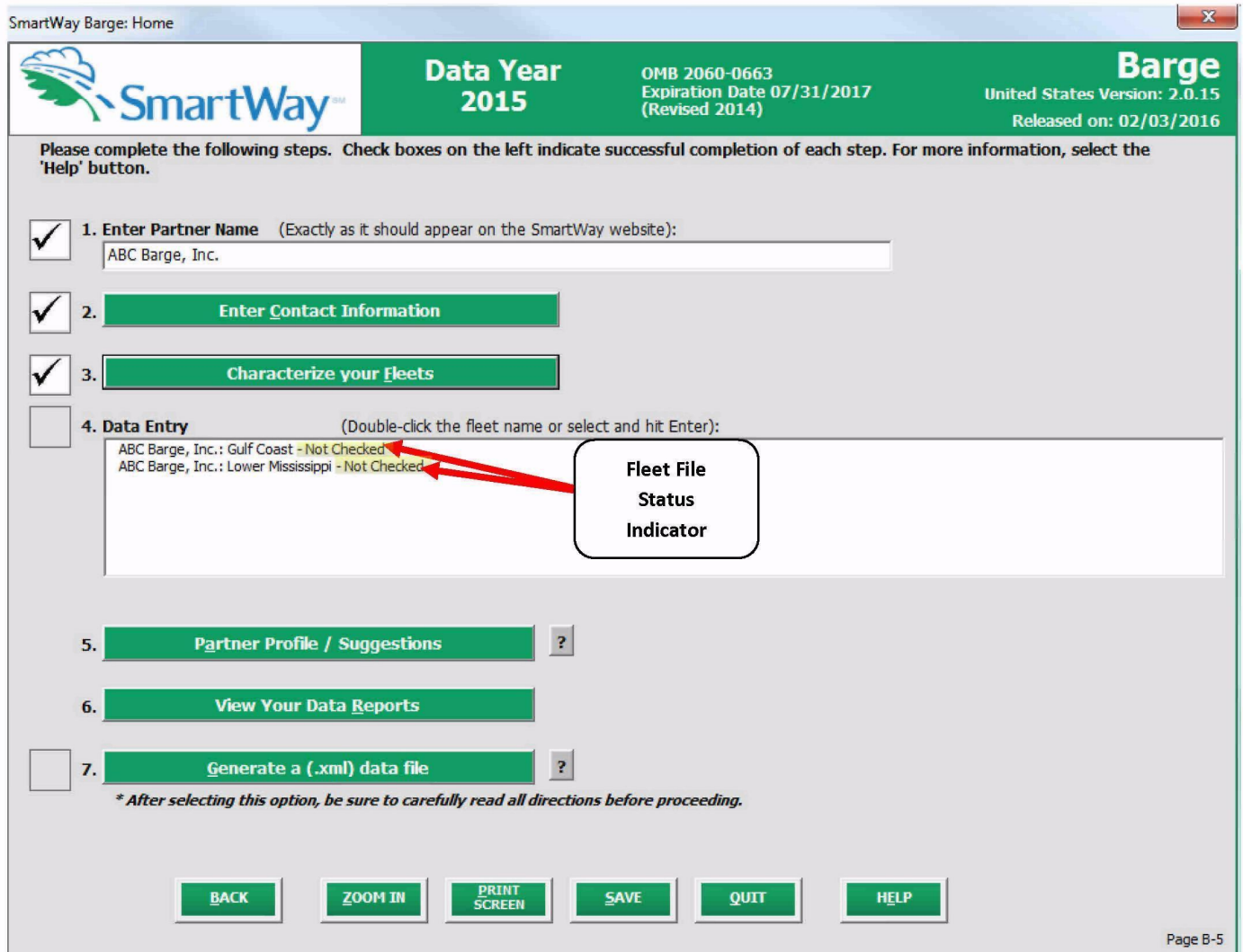


Figure 34: Home Screen – Fleet Status Prior to Activity and Fuel Data Entry

There will be a status message after each fleet, indicating whether or not the data entry for that fleet is complete. The following information may appear beside a fleet name:

- **Not checked** - Data has not been entered yet.
- **Incomplete** - Some data is still missing and/or inconsistent.
- **Complete** - All data requirements have been met and validation has occurred.

In addition to the status indicators above, you may see an “Error” qualifier. **Errors** will prevent you from generating the **Internal Metrics Reports** and must be addressed before you can submit your Tool to EPA.

To add data to a particular fleet file, highlight the fleet name and then double-click. You will then proceed to the Tool **Data Entry Screens**.

Section 4 Data Entry: Enter activity and fuel consumption information for each of your fleets

Steps for Completing Geographic Operation Areas Screen

At this stage, you will be entering information about each fleet separately. For each fleet you will first fill out the **Geographic Operation Areas** screen, shown below in **Figure 35**.

SmartWay Barge: ABC Barge, Inc.: Gulf Coast

Geographic Operation Areas | Tug/Tow Characteristics | Vessel Operations | Barge Operations

Please select those areas of operation in which your fleet(s) provide services. This includes domestic and international activities. You may note multiple areas of activity.

If you select "Other", include information describing the area(s) in the text box at the bottom.

After completing the information on this screen, select the "Tug/Tow Characteristics" tab above or select the NEXT button at the bottom of this screen.

Areas of Operation:

<u>Coastal Areas</u>	<u>U.S. Navigable Waterways</u>	<u>Canadian Navigable Waterways</u>	<input type="checkbox"/> <u>Harbors</u>
<input type="checkbox"/> Atlantic Coast	<input type="checkbox"/> Upper Mississippi	<input type="checkbox"/> St. Lawrence Seaway	
<input type="checkbox"/> Pacific Coast	<input type="checkbox"/> Lower Mississippi	<input type="checkbox"/> Gulf of St. Lawrence	
<input type="checkbox"/> Gulf of Mexico	<input type="checkbox"/> Atlantic Intercoastal Waterways	<input type="checkbox"/> Hudson Bay/James Bay/Hudson Strait	
<input type="checkbox"/> Great Lakes	<input type="checkbox"/> Northwest (including Alaska)	<input type="checkbox"/> Mackenzie River/Great Slave Lake/Great Bear Lake	
<input type="checkbox"/> Gulf Inland Waterway	<input type="checkbox"/> Ohio River Basin	<input type="checkbox"/> Georgia Strait/Strait of Juan de Fuca	
	<input type="checkbox"/> Illinois Basin		
	<input type="checkbox"/> Tennessee Basin		


Other (describe):

NEXT | ZOOM IN | PRINT SCREEN | HOME | SAVE | VALIDATE SCREEN | ADD COMMENTS | HELP

Page B-13

Figure 35: Geographic Operation Areas Screen

Please select those areas of operation in which your fleet(s) provide services. This includes domestic and international activities. You may note multiple areas of activity by selecting multiple boxes. If you select **Other**, include information describing the area(s) in the text box at the bottom.

You can select the  button to make sure you have filled out everything on this screen properly.

Once your **Geographic Operation Areas** data has been validated as complete and correct, select the

 button or select the **Tug/Tow Characteristics** tab at the top of the screen to proceed.



NOTE: If you are a new SmartWay Partner you should enter the most recent 12 months of data into the Tool. If you do not have a full year of operational data, please collect a minimum of three months' data for input into the SmartWay Tool. In your next update year, you will be required to submit a full year's data.

Steps for Completing Tug/Tow Characteristics Screen

PLEASE REFER TO **WORKHEET #3** in Part 2 of this guidance to complete this section of the Barge Tool.

On this screen provide the vessel-specific information requested in order to uniquely characterize each entry. Blank rows will be created for each vessel identified on the **Fleet Details** screen. All fields require an entry except **Coast Guard Number** and **Retrofit Info**.

After entering the **Vessel Name**, select the **Vessel Type** representative of the most common type of service. Vessel Type options include:

- Linehaul - involved in movement of barges over long distances, in contrast to tugs primarily used in harbor activities. Linehaul tugs tend to operate for extended periods at a consistent speed and load.
- Locking – used to transit larger river locks.
- Canal - comply with limitations associated with canal water depths, height restrictions relative to bridges or tunnels, and length and width constraints of the locks that move vessels from one water level to another.
- Harbor - smaller tugs that operate in and around port areas, moving barges to and from local terminals, and moving fuel barges to larger ocean going vessels. Vessel speed and load for harbor tug operations vary significantly.
- Coastwise - operate between coastal ports but may not be certified for deep water operations.
- Other

If you select "Other", you must also provide a description of the vessel type in the popup screen.

The Barge Tool assumes each vessel utilizes one, two or three propulsion engines. If there are multiple engines, these are assumed to be of the same model/rebuild year and power rating. After specifying the number of propulsion engines enter the associated model/rebuild year.¹ Make sure to specify the units used for reporting power (HP or kW) using the drop-down above the table.

For fuel types are available in the Barge Tool including low and ultra low sulfur marine diesel (500 ppm and 15 ppm sulfur, respectively), biodiesel, and LNG. If Biodiesel is selected you must also specify the blend percentage (e.g., B20 for 20% biodiesel).

¹ If an engine has been certified to an EPA Tier level in advance of the standard introduction year, you may specify the advanced year. For example, if a 2013 engine is actually certified to Tier 3 standards, select the newest model year available in the drop-down list as the model year.

Next, specify the EPA Engine Category - Category 1 for engines less than 7 liters per cylinder, and Category 2 for engines 7 to 39 liters per cylinder. (Note the Barge Tool assumes there are no Category 3 engines transporting barge freight.)

For the Total Rated **Propulsion Power** field, enter the sum of the maximum rated power of each of the main engine(s). **For example, if there are two 2,000 HP engines then enter 4,000 in this field.** The total maximum rating of the propulsion system is needed to calculate kilowatt-hours, which is then applied to the appropriate factors to estimate emissions.

See **Figure 36** for an example input screen.

SmartWay Barge: ABC Barge, Inc.: Gulf Coast

Geographic Operation Areas | **Tug/Tow Characteristics** | Vessel Operations | Barge Operations

Please provide the vessel-specific information requested in order to uniquely identify each entry. Blank rows have been created for each tug/tow vessel identified on the Fleet Details screen. Specify Vessel Type based on the most common type of operation. All fields require an entry except Coast Guard Number and Retrofit Info. Once you have entered the required information for each vessel, proceed to the next screen (Vessel Operations).

If you have a large number of vessels to enter you may prefer to use the Import/Export Button to bring in vessel information prepared outside the Tool. Select the Add/Delete Vessel(s) button to add/delete vessels if needed.

After completing the information on this screen, select the "Vessel Operations" tab above or select the NEXT button at the bottom of this screen.

Import/Export
Add/Delete Vessel(s)

	Vessel Name	Vessel Type	Coast Guard Number	Number of Engines	Model Year/Last Rebuild Year	Power Units	Fuel Type	EPA Engine Category	Total Rated Propulsion Power (all engines)	Retrofit Info
1	Gulf Coast 1	Linehaul	1111101	3	2017	HP	Diesel (LS)	1	9,000	<input type="checkbox"/>
2	Gulf Coast 2	Harbor	1111102	2	2016	kW	Diesel (ULS)	2	8,000	<input type="checkbox"/>
3	Gulf Coast 3	Linehaul	1111103	1	2015	HP	Biodiesel B20	1	7,000	<input type="checkbox"/>
4	Gulf Coast 4	Harbor	1111104	3	2014	kW	LNG	2	9,500	<input type="checkbox"/>
5	Gulf Coast 5	Linehaul	1111105	2	2013	HP	Diesel (LS)	1	8,500	<input type="checkbox"/>
6	Gulf Coast 6	Locking	1111106	1	2012	HP	Diesel (LS)	2	7,500	<input type="checkbox"/>
7	Gulf Coast 7	Canal	1111107	3	2011	HP	Diesel (LS)	1	6,500	<input type="checkbox"/>
8	Gulf Coast 8	Harbor	1111108	2	2010	HP	Diesel (ULS)	2	6,000	<input checked="" type="checkbox"/>
9	Gulf Coast 9	Coastwise	1111109	1	2009	HP	Diesel (ULS)	1	5,000	<input type="checkbox"/>
10	Gulf Coast 10	Linehaul	1111110	3	2008	HP	Diesel (LS)	2	5,500	<input type="checkbox"/>

BACK | NEXT | ZOOM IN | PRINT SCREEN | HOME | SAVE | VALIDATE SCREEN | ADD COMMENTS | HELP

Page B-14

Figure 36: Tug/Tow Characteristics Screen

If you have a large number of vessels in your fleet, and you prefer to compile your vessel information offline using your in-house datasets, you may use the **Import/Export** button on this screen. Detailed instructions regarding the use of this function are available in the **Guide to Importing Vessel Data Using the Data Import/Export Function**, which can be downloaded from the SmartWay website.

If you need to add or delete a vessel from your fleet, you may do so from this screen using the **Add/Delete Vessel(s)** button on this screen. Clicking this button opens a hidden section on this screen that allows you to choose the number of tugs to add and/or select which row to delete from your current fleet (See Figure 37).

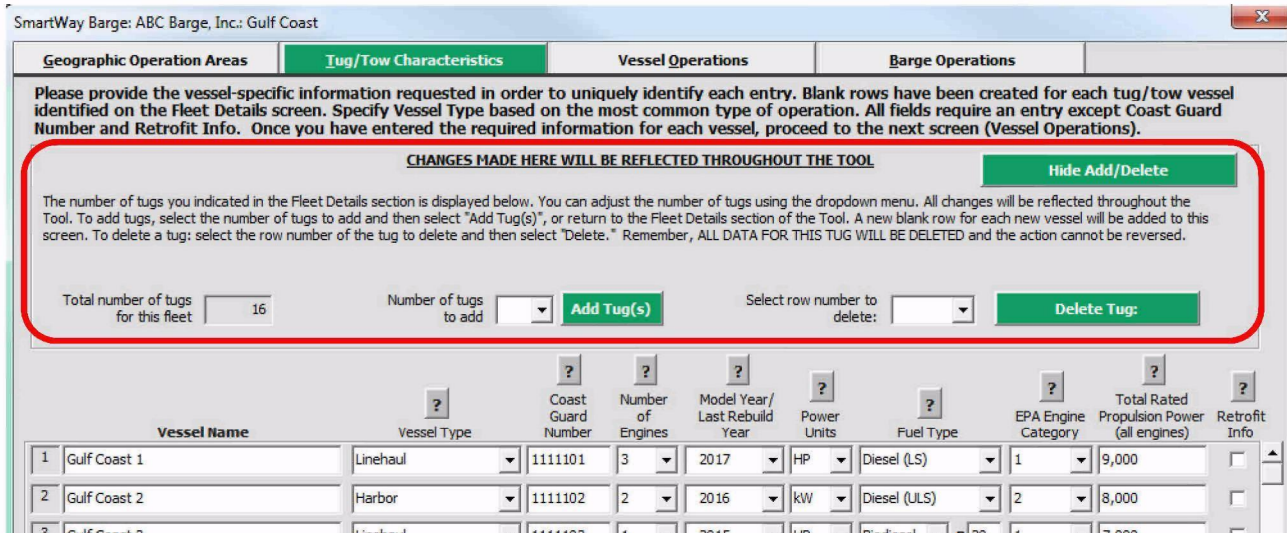


Figure 37: Add/Delete Tug Section (Optional)

To add a tug(s), enter the number of tugs to add then select the **Add Tug(s)** button. Blank rows will be added to the bottom of the screen for each tug added. To delete vessels from the fleet, enter the row number for the vessel you wish to delete and select the **Delete Tug:** button. The Tool only allows one row of data to be deleted at a time. When finished, you may choose to hide this section again by selecting the **Hide Add/Delete** button.

If an engine has been retrofit with an emissions control technology, select the box on the far right to select from a list of standard retrofit options. The list of retrofit options available are:

- 1) Fuel Injection Engine Improvements
- 2) Selective Catalytic Reduction (SCR)
- 3) Common rail
- 4) Diesel Electric
- 5) Humid Air Motor (HAM)
- 6) Hybrid Engines
- 7) Diesel Oxidation Catalyst
- 8) Lean NOx Catalyst, and
- 9) Other.

If “Other” is selected, enter the percent reduction for each pollutant, NOx and PM, and provide an explanation for each.

See **Figures 38 through 40** for example **Retrofit Information** screens.

Smartway Barge Retrofit Information

This vessel has associated retrofit information, provided below.

Please select the reduction strategy for NOx and PM from the dropdown provided. Each strategy is associated with a default percent reduction that will display in the text box once you have made a selection. If you need to enter a value not provided, select "Other" and enter the percent reduction and an explanation in the space provided. Provide additional comments related to retrofit and reduction estimates in the comments box provided at the bottom of the screen.

Select Strategy:

- Fuel Injection Engine Improvements
- SCR
- Common rail
- Diesel Electric
- Humid Air Motor (HAM)
- Hybrid Engines
- Diesel Oxidation Catalyst
- Lean NOx Catalyst
- Other

NOx Reduction

PM Reduction

Additional comments:

3000 characters remaining

Page B-15

Figure 38: Retrofit Information Screen

Smartway Barge Retrofit Information

This vessel has associated retrofit information, provided below.

Please select the reduction strategy for NOx and PM from the dropdown provided. Each strategy is associated with a default percent reduction that will display in the text box once you have made a selection. If you need to enter a value not provided, select "Other" and enter the percent reduction and an explanation in the space provided. Provide additional comments related to retrofit and reduction estimates in the comments box provided at the bottom of the screen.

Select Strategy:

NOx Reduction %

PM Reduction %

Additional comments:

3000 characters remaining

Page B-15

Figure 39: Retrofit Information Screen

Figure 40: Retrofit Information Screen

Once your **Tug/Tow Characteristics** data have been validated as complete and correct, select the **NEXT** button or select the **Vessel Operations** tab at the top of the screen to proceed.

Steps for Completing the Vessel Operations Screen

PLEASE REFER TO **WORKHEET #4** in Part 2 of this guidance to complete this section of the Barge Tool.

On this screen please provide the vessel-specific operation information requested, including fuel consumption (specifying either gallons or tons), towing capacity², and engine activity differentiating hours of underway versus maneuvering operation for propulsion engines and total hours of auxiliary engine use during the reporting year.³ (**Note – Towing Capacity inputs are optional.**) Provide total fuel used across all engines (propulsion and auxiliary), specifying your reporting units (gallons or tons). Finally, enter the source for this data in the text box at the top of the screen.⁴

² Enter towing capacity in terms of the maximum possible tonnage of cargo transported per trip. This information is used to validate your estimates for total ton-miles hauled later in the Tool. Do not enter capacity in Bollard Tons - this value will vary depending upon a number of factors including vessel speed and barge configuration, and will not correspond directly to maximum tonnage transported.

³ Note that emissions associated with the use of shorepower are not included in this version of the Barge Tool.

⁴ Auxiliary engines are assumed to use the same fuel as propulsion engines with the exception of LNG propulsion engines. In this case auxiliary engines are assumed to use ultra-low sulfur diesel, and diesel fuel totals must be provided for these engines separately on the auxiliary engine popup screen.

SmartWay Barge: ABC Barge, Inc.: Gulf Coast

Geographic Operation Areas | **Tug/Tow Characteristics** | **Vessel Operations** | **Barge Operations**

Please provide the vessel-specific operation information requested, differentiating hours of operation for propulsion engines and auxiliary engines used during the reporting year. Provide total fuel used across all engines (propulsion and auxiliary).

Indicate the source for your data on this screen in the text box below.

After completing the information on this screen, select the "Barge Operations" tab above or select the NEXT button at the bottom of this screen.

? Data Source(s) for Fuel and Activity Estimates:
Beta version software

	Vessel Name	Annual Fuel Usage	Fuel Units	Towing Capacity in Tons (optional)	Propulsion Engines		Auxiliary Engines
					Annual Hours of Operation Underway	Annual Hours of Operation Maneuvering	
1	Gulf Coast 1	58,958	Gallons	45,000	5,000	2,000	Enter Auxiliary Engine Values
2	Gulf Coast 2	65,248	Gallons	65,000	5,001	2,001	Enter Auxiliary Engine Values
3	Gulf Coast 3	25,417	Tons	21,477	5,002	2,002	Enter Auxiliary Engine Values
4	Gulf Coast 4	35,265	Tons		5,003	2,003	Enter Auxiliary Engine Values
5	Gulf Coast 5	21,214	Gallons		5,004	2,004	Enter Auxiliary Engine Values
6	Gulf Coast 6	12,458	Gallons		5,005	2,005	Enter Auxiliary Engine Values
7	Gulf Coast 7	85,755	Gallons		5,006	2,006	Enter Auxiliary Engine Values
8	Gulf Coast 8	12,111	Gallons		5,007	2,007	Enter Auxiliary Engine Values
9	Gulf Coast 9	21,451	Gallons	52,636	5,008	2,008	Enter Auxiliary Engine Values
10	Gulf Coast 10	13,547	Gallons		5,009	2,009	Enter Auxiliary Engine Values

BACK | NEXT | ZOOM IN | PRINT SCREEN | HOME | SAVE | VALIDATE SCREEN | ADD COMMENTS | HELP

Page B-16

Figure 41: Vessel Operations Screen

If the vessel in question uses auxiliary engines, enter data for these engines by clicking the **Enter Auxiliary Engine Values** button at the end of each data row. Clicking this button opens the auxiliary engine information window (see **Figure 42**). Up to eight auxiliary engines may be defined in this window. Select the manufacture or rebuild model year for each auxiliary engine and enter the associated annual hours of use and total rated power (in kilowatts or hp) for each auxiliary engine. If the vessel is powered by LNG, also enter the total annual diesel fuel consumption for all auxiliary engines in gallons at the top of the screen.

Smartway Barge Auxiliary Engine Information

Enter the values for auxiliary engines. You can specify up to 8 engines. All auxiliary engines are assumed to be diesel powered.

Please specify your Total Rated Power in HP. This is the power unit you indicated on the main Tug/Tow Characteristics screen. Select the [?] button to the left or the Help button at the bottom of the screen for more information.

	Manufacture/ Model Year	Annual Hours of Use	Total Rated Power (HP)
<input checked="" type="checkbox"/> 1.	2015	325	1,250
<input checked="" type="checkbox"/> 2.	2017	525	2,500
<input type="checkbox"/> 3.			
<input type="checkbox"/> 4.			
<input type="checkbox"/> 5.			
<input type="checkbox"/> 6.			
<input type="checkbox"/> 7.			
<input type="checkbox"/> 8.			

ZOOM IN OK CANCEL HELP

Page B-17

Figure 42: Auxiliary Engine Information Screen

NOTE: Use this screen to enter all auxiliary engine data, including any auxiliaries used on barges (e.g., for pumps).

When finished entering data for auxiliary engines, select the **OK** button to save the data and return to the **Vessel Operations** screen.

Once your **Vessel Operations** data have been validated as complete and correct, select the **NEXT** button or select the **Barge Operations** tab at the top of the screen to proceed.

Steps for Completing the Barge Operations Screen

PLEASE REFER TO **WORKHEET #5** in Part 2 of this guidance to complete this section of the Barge Tool.

On this screen please provide the barge activity information for each barge type/size combination that you operate in your fleet. Use the scroll bar on the right to see additional type/size combinations. (If a barge is less than 150 feet in length, please assign it to the 150 foot category.) The available barge types include:

- Hopper - Designed to carry materials, like rocks, sand, oil, and garbage for dumping into the ocean, a river or lake for land reclamation. The bottom of these barges can open allowing them to dump their cargo when they arrived at the spot where the materials are to be released.
- Covered Cargo - Includes some form of covering to protect dry bulk cargo from wind and precipitation; reducing the loss of cargo during shipment.
- Tank - Equipped with several sealed tanks used to transport liquids and gas such as crude oil, refined fuels, industrial chemicals, and natural gas.
- Deck - Has a flat deck able to load large and heavy equipment that would not fit in any other types of barge.
- Container - Designed to move shipping containers in shallow waters where small containerships may not be able to transit.
- Other.

The total number of barges indicated on this screen must equal the number you specified in the **Fleet Characterization** section of the Tool. The **Calculated Total** section of the Tool at the lower right will indicate when your entered barge numbers match the values in the **Fleet Characterization** section. The boxes in **Figure 43** below present calculated numbers and do not require you to enter information. The first box shows the total number of barges you entered in the **Fleet Characterization** section of the Tool (it is automatically populated). The next box shows the total number of barges you have entered on this screen (in the **Number of Barges** column. This is also automatically populated). The final box at the bottom will show the calculated difference between the previous two values, if there is any. If the values match, the bottom box will be empty and the label will simply read "Match".



NOTE: The Barge Tool is intended for system-wide input and reporting of barge activity.

However, a given cargo delivery may involve different activity profiles such as light-loading on multiple barges upriver due to shallow depths, and consolidation to a smaller number of barges for the downriver portion of the trip. In this instance, users should estimate “trip average” values for the number of barges used, volume utilization and average payload, along with total miles travelled per barge over both legs of the trip, in order to report this data. In the future SmartWay will investigate alternative methods for disaggregating data entry and reporting in order to more precisely account for operational variations such as these.

After specifying the number of barges, enter the Average Volume Utilization for each barge type/size combination as a percentage. For deck barges estimate the percent of available surface area utilized.

Next enter the average annual loaded and empty miles per barge. **NOTE: All miles entered in the Barge Tool refer to nautical miles, not statute miles.** Then enter your best estimate for average payload per loaded barge trip, in short tons).

Finally, enter the total ton-miles, loaded and unloaded barge miles for your fleet as a whole in the **Total Fleet Activity** section on the upper right. **NOTE: DO NOT ESTIMATE TON-MILES BY SIMPLY MULTIPLYING TOTAL MILES BY TOTAL TONS** - this calculation effectively assumes your entire tonnage is transported by EACH AND EVERY vessel, and will clearly overstate your ton-miles. In order to calculate your fleet's total ton-miles, multiply your average loaded payload per barge by your average annual loaded miles per barge and then by the total number of barges. To check your data, divide total ton-miles by total miles. The result is your fleet-average payload. If this number is not reasonable, check your calculations. See **Figure 43** for an example input screen.

The screenshot shows the 'Barge Operations' tab of the SmartWay Barge tool. The main data entry area is a table with columns for Barge Type, Size, Number of Barges, Average Volume Utilization (Loaded Trips), Annual Loaded Miles per Barge, Annual Empty Miles per Barge, and Average Loaded Payload per Barge. The table is divided into sections for Deck and Container barges. The 'Total Fleet Activity' section on the right shows a validation error for Loaded Barge Miles, where the entered value (4,611,252) is 87% off from the calculated value (34,612,110). A red arrow points to this error with a callout box labeled 'Validation error'. The 'Calculated Total' section shows that the total number of barges from fleet characterization and tallied here both equal 45, with a 'Match' status.

Barge Type	Size	Number of Barges	Average Volume Utilization (Loaded Trips)	Annual Loaded Miles per Barge*	Annual Empty Miles per Barge*	Average Loaded Payload per Barge
	195 to 200 Feet		%			
	250 to 300 Feet		%			
Deck	150 Feet		%			
	175 Feet		%			
	195 to 200 Feet		%			
	250 to 300 Feet		%			
Container		30				
	150 Feet		%			
	175 Feet	30	92 %	858,888	58,888	65,875
	195 to 200 Feet		%			
	250 to 300 Feet		%			

* All miles refer to nautical miles (not statute miles)

Total Fleet Activity

Total Ton-Miles* 1,985,075,300,700
 Calculated: 1,985,076,321,750 (0% off)

Loaded Barge Miles* 4,611,252
 Calculated: 34,612,110 (87% off) **Validation error**

Unloaded Barge Miles* 2,305,760
 Calculated: 2,304,750 (0% off)

Calculated Total:

Total Number of Barges from Fleet Characterization: 45
 Total Number of Barges Tallied Here: 45
 Match

Figure 43: Barge Operations Screen

The **Total Fleet Activity** section show above displays the results of a validation check performed by the Tool to ensure that that the values entered for **Total Ton-Miles**, **Total Loaded Barge-Miles**, and **Total Unloaded Barge-Miles** are within 5% of the values calculated from the individual data entry rows. If the values differ by more than 5% (as is the case for **Loaded Barge-Miles** above), the difference will be highlighted in red. Users must resolve any highlighted discrepancies before finalizing their Tool.

Once data entry is complete, describe the data sources used to develop your barge activity information at the top of the screen, then select **Validate Screen** to identify potential data entry errors. Otherwise select **Home** to continue.

Viewing Your Fleet Status

Once you have returned to the **Home** screen, notice that the fleet for which you provided data now identifies its status as “Complete.” You may now highlight the next fleet if you have another one to complete. Fill out unfinished fleets in the same manner as the previous fleet.

SmartWay Barge: Home

SmartWay **Data Year 2015** OMB 2060-0663 Expiration Date 07/31/2017 (Revised 2014) **Barge** United States Version: 2.0.15 Released on: 02/03/2016

Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.

1. **Enter Partner Name** (Exactly as it should appear on the SmartWay website):
ABC Barge, Inc.
2. **Enter Contact Information**
3. **Characterize your Fleets**
4. **Data Entry** (Double-click the fleet name or select and hit Enter):

ABC Barge, Inc.: Gulf Coast - Complete
ABC Barge, Inc.: Lower Mississippi - Not Entered
5. **Partner Profile / Suggestions** ?
6. **View Your Data Reports**
7. **Generate a (.xml) data file** ?

** After selecting this option, be sure to carefully read all directions before proceeding.*

BACK ZOOM IN PRINT SCREEN SAVE QUIT HELP

Page B-5

Figure 44: Home Screen after Data Entry for First Fleet

Partner Profile / Logo Info / Suggestions

After completing Steps 1 – 4 on the [Home](#) screen, you may provide EPA with additional information regarding your company and general feedback regarding the SmartWay Program. ***This information is optional and is not required in order to submit your Barge Tool data to EPA.***

Selecting the [Partner Profile / Suggestions](#) button on the [Home](#) screen will open the [Additional Information](#) screen (see [Figure 45](#)).

SmartWay Additional Information: ABC Barge, Inc.

Partner Information | Suggestions

Providing your information on THIS PAGE is OPTIONAL. SmartWay will use the information you submit via this page to make a PUBLIC partner company page on the SmartWay website. Please limit your responses to the specific questions asked as SmartWay will review your submission for appropriateness. SmartWay will not edit the data for spelling or grammar so please make sure it appears below EXACTLY as you want it displayed.

Partner Name: ABC Barge, Inc.

Link to your company's environmental or SmartWay web page:

Executive Officer's quote on your SmartWay participation: (500 characters max)

Description of your best investment in emissions or fuel saving best practices: (3000 characters max)

Goal for SmartWay participation: (3000 characters max)

My company encourages other companies to join SmartWay to improve their efficiency by: (1000 characters max)

[NEXT](#) [ZOOM IN](#) [PRINT SCREEN](#) [HOME](#) [SAVE](#) [ADD COMMENTS](#) [HELP](#)

Page B-24

Figure 45: Additional Information Screen

Use this page to provide information you would like to share publicly. Information should be entered in the text boxes displayed. Use the scroll bar to the right to display additional questions. SmartWay will use this information to create a **SmartWay Partner Profile** page for your company on the SmartWay website. You do not need to complete every question. SmartWay will NOT edit for spelling or grammar, so make sure the text is exactly as you wish it to appear. If your company contains public relations functions, you may want them to review this information before submittal, however, keep your SmartWay due date in mind. SmartWay WILL review this data for appropriate content. Information provided should be informational in nature, and speak to the question.

Figure 46 displays the **Suggestions** screen. You may respond to some or all of these questions in order to provide feedback regarding the various aspects of the SmartWay Program. SmartWay values your feedback. Any information you provide will be used to improve the program, and will be kept confidential. Use the scroll bar to the right to display additional questions.

The screenshot shows a web application window titled "SmartWay Additional Information: ABC Barge, Inc." with two tabs: "Partner Information" and "Suggestions". The "Suggestions" tab is active. Below the tabs is a section titled "OPTIONAL SMARTWAY SATISFACTION AND FEEDBACK SURVEY" with a brief introductory text. The partner name "ABC Barge, Inc." is displayed. The survey consists of three sections: 1) "Please answer Yes or No" with three radio button questions; 2) "On a scale of 1 to 10, 10 being the best:" with five dropdown menu questions; and 3) "On a scale of 1 to 10 meaning strongly agree:" with five dropdown menu questions. At the bottom, there is a row of buttons: BACK, ZOOM IN, PRINT SCREEN, HOME, SAVE, ADD COMMENTS, and HELP. A "Page B-26" label is in the bottom right corner.

Figure 46: Suggestions Screen

Once you have completed these three screens, select the  button to return to the **Home** screen.

Viewing Reports

Once you are ready to continue, select **View Your Data Reports** from the **Home** screen which will take you to the following screen:

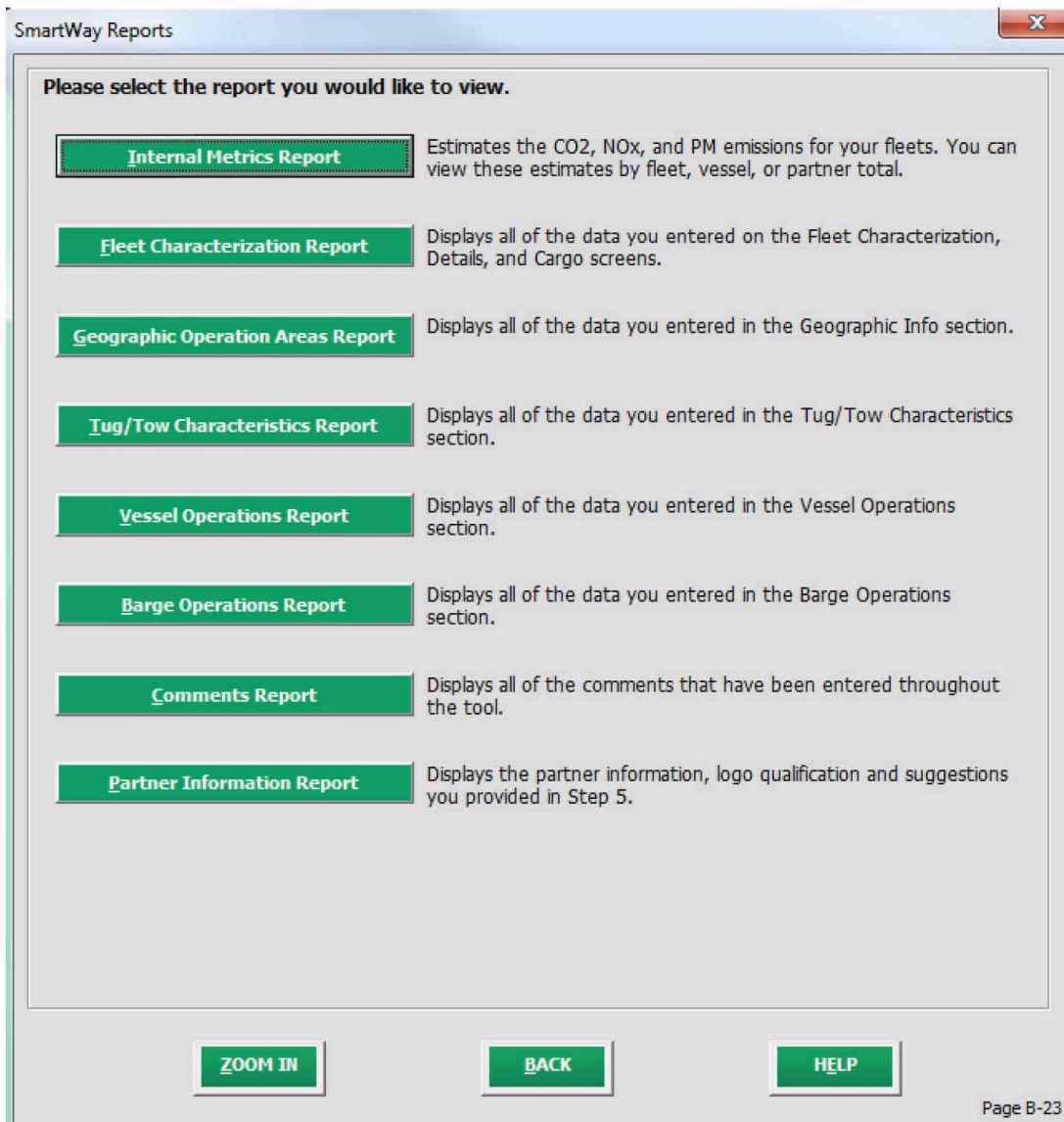



Figure 47: View Fleet Reports Screen

Selecting any of the green buttons on this screen will display the indicated data. Several reports summarize the data you entered on specific data input screens, such as the **Fleet Characterization**, **Vessel Operations**, and **Barge Operations Reports**.



NOTE: The **Comments Report** allows you to review any notes and comments made during the compilation of the different data inputs throughout the Tool. These comments can provide a

useful reference for documenting data sources and assumptions, as well as for preparation of subsequent year submittals. In addition, you can use this report to view questions and comments from your Partner Account Manager after they receive and return your Tool.

Select the  button to review the performance of your fleet(s) in terms of grams per ton-mile, grams per barge-mile, and grams per 1,000 cubic foot-miles (for total and utilized volume), by pollutant type. Different display options are available for Company-level and Fleet-level performance.

Submitting Data to SmartWay

Congratulations! You are now ready to send your data to EPA.

Select the **Generate a (.xml) data file** button, which will open the following screen.

Create submission file for EPA

SmartWay® **Data Year 2015** OMB 2060-0663
Expiration Date 07/31/2017
(Revised 2014) **Barge**
United States Version: 2.0.15
Released on: 02/03/2016

By checking the box below, I declare that the information submitted via this Tool is, to the best of my knowledge, accurate. I understand that any person who, in the course of negotiating or performing under this Agreement, makes, presents or submits a false or misleading statement to the government, or any person who makes a material omission in the course of negotiating or performing under this Agreement, may be subject to liability under all applicable civil and criminal statutes including 18 U.S.C. 1001 (criminal liability for false statements), 31 U.S.C. 3801 - 3812 (civil liability for false statements) and 31 U.S.C. 3729-33 (The False Claims Act).

I understand and agree to the terms of this agreement.

ZOOM IN CANCEL PRINT SCREEN

Page B-27

Figure 48: Creating Submission File for EPA

Select the checkbox to indicate you understand the terms of the SmartWay Partnership Agreement once again. Next, a question will appear asking if you are an existing SmartWay Partner (Y/N). If you are, a question will appear asking if you submitted your data the previous reporting year. If you have ever been a SmartWay Partner you can enter your Annual Submission ID, which has been sent to you by your SmartWay PAM via email. If you cannot locate your submission ID you can select the **Email me my SmartWay ID** button to have your ID sent to you. Submission of the SmartWay ID is optional.

Figure 49: Completed Submission File Screen

When ready, select **NEXT** to create a file with the following naming convention:

Barge_PartnerName_ Year_ V0.xml⁵

For example, Barge_ABC Barge, Inc_ 2015_ V0.xml

where **PartnerName** is your company's name as entered for Step 1 on the **Home** screen, and **Year** indicates the year for which you are submitting your data.

Next specify the folder where you would like to save the .xml file, and the following screen will appear.

⁵ If you create the XML file multiple times the file name will increment each time (e.g., Barge_ABC Barge, Inc_2015_V1.XML for the second iteration, etc.

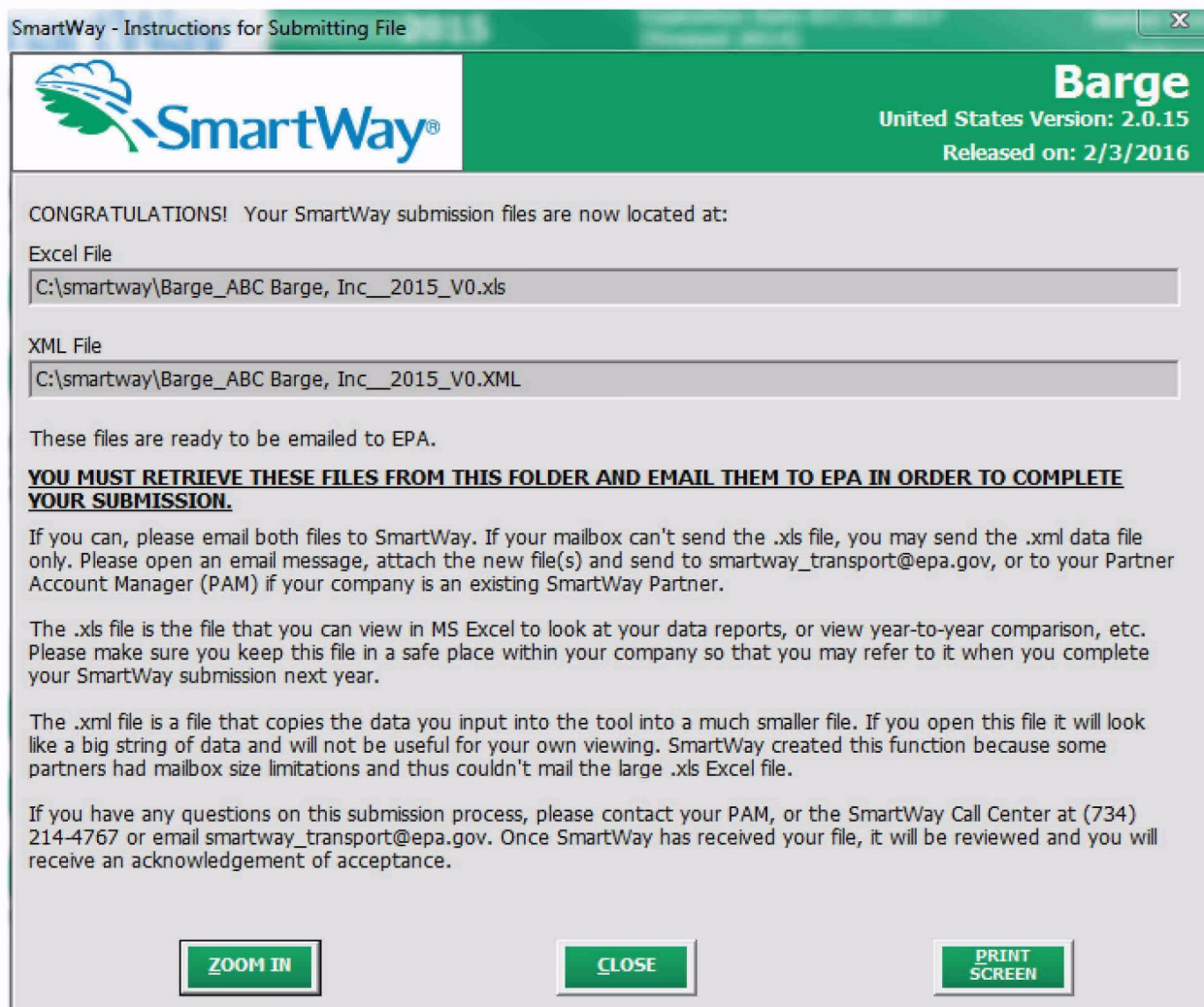



Figure 50: Instructions for Submitting xml File to EPA

Follow these instructions for submitting your .xml and .xls files to SmartWay. Note that the .xml file is approximately 10 times smaller than the .xls file itself. Upon selecting , a screen will appear that allows you to close the Barge Tool or return to the [Home](#) screen.

NOTE: DO NOT ZIP the File. Send it to EPA as a normal file attached in an e-mail. EPA security will not allow zipped files through the EPA firewall.

NOTE: DO NOT CHANGE THE NAME OF THE XML OR XLSX FILE.

NOTE: DO NOT DELETE YOUR EXCEL (XLSX) TOOL – SAVE THIS FILE FOR YOUR REFERENCE.

Troubleshooting the Tool

Although the SmartWay Tools have been tested extensively, you may encounter errors. Intermittent errors have been encountered when opening the Tool directly from the SmartWay website, or from an e-mail, rather than from a drive, or when multiple Excel files or other applications are open simultaneously. If you encounter an error during use of the Tool, please try restarting the Tool directly from a disk drive, with all other Excel files and applications closed. In addition, make sure that your computer is using a system and application version validated for use with the SmartWay Tools (Windows XP or later operating system, and Excel Office 2003 or later version).

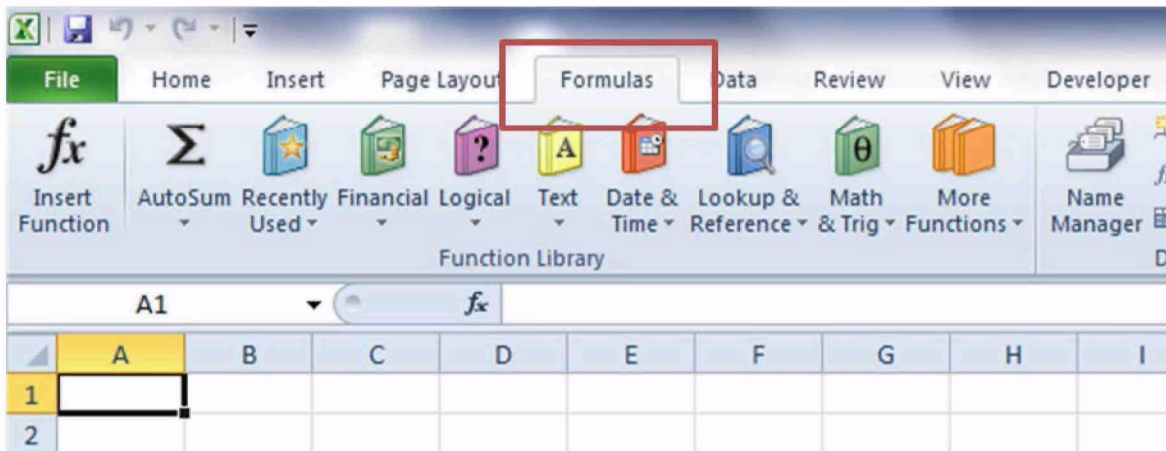
If you continue to encounter problems, please make a screen capture of the error message, and save the Tool at that point. (You can make a screen capture by pressing *Alt-Print Screen*, and then pasting the image into a document such as MS Word.) Then send the screenshot, along with the saved Tool to your Partner Account Manager for further assistance.

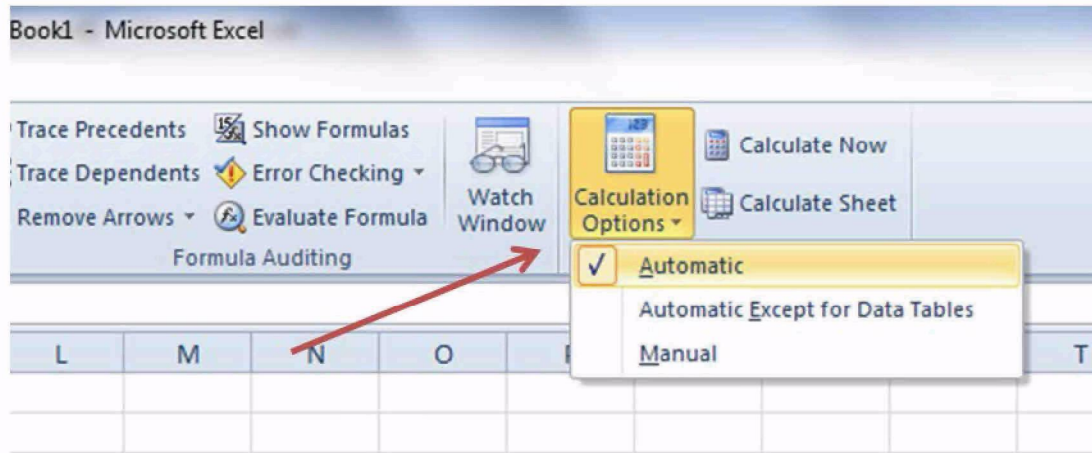
Proper Calculation Setting

By default, Microsoft Excel is set to automatically calculate formulas. If values within your Tool are not calculating automatically, then your Excel may be set to “Manual”. Follow these instructions to change your Excel Calculation setting.

Office 2010

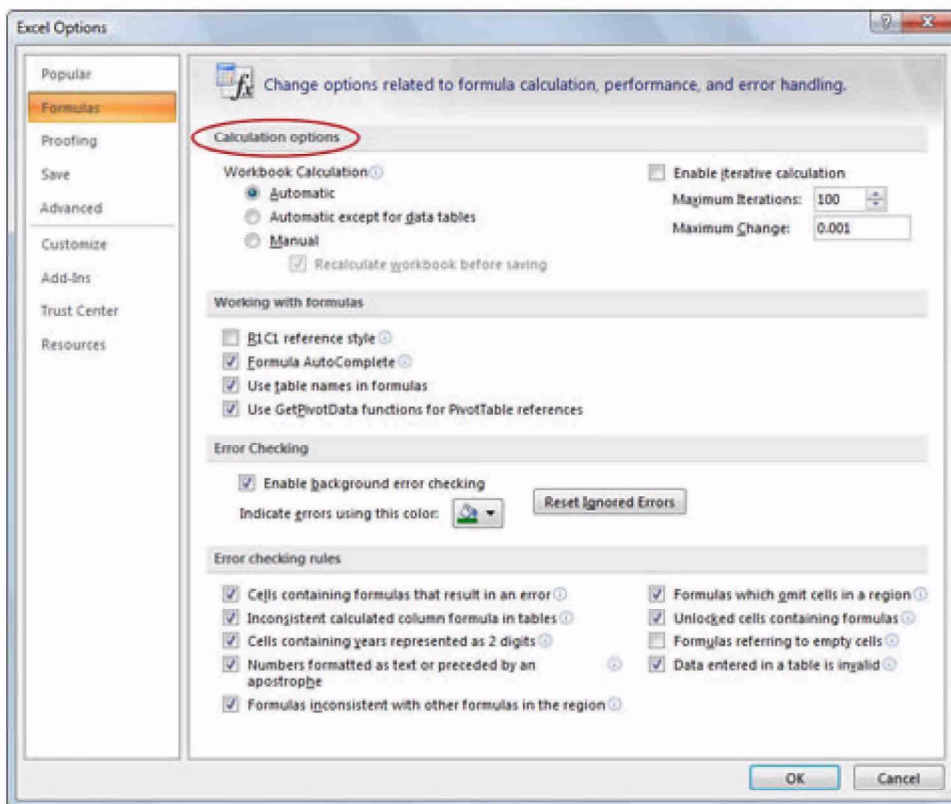
Choose the “Formulas” tab. Select the “Calculation Options” button in the “Calculation” section to view the drop-down list of options. Choose “Automatic” from the list of options to switch to automatic calculation.





Office 2007

Select the Office button at the top left. Then select the Excel Options button and the Excel Options dialog box will appear. Select the Formulas tab and the Formulas options will appear in the right pane. Select the “Automatic” radio button in the Calculation options section.



Office 2003

From the tools menu, select “Options”. When the Options dialog box is displayed, select the “Calculation” tab. Under the Calculation section, select the “Automatic” radio button and then select “OK”.

