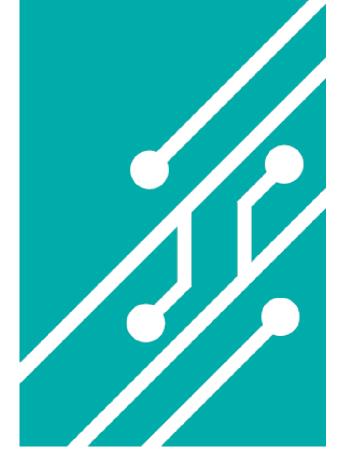


ATHENA ROUTING & PLANNING

Routes Training Resource Guide





Routes Training Resource Guide

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TABLE OF CONTENTS

PURPOSE OF THIS GUIDE	5
ATHENA ROUTES INTRODUCTION	5
ATHENA MAP ASSET KEY	5
NAVIGATING ROUTES MODULE	6
ATHENA USER STORIES	13
1. Create New Route	. 13
2. Assign a Run to a Route	. 15
3. Assign a Depot to a Route	. 20
4. Change Route ID	25

ROUTES TRAINING RESOURCE GUIDE

PURPOSE OF THIS GUIDE

The Routes Resource Guide will provide you with explanations of the basic tools within Athena, walk you through the procedure of assigning runs to established routes within the software, as well as provide you with specific scenarios you may encounter as you begin to independently navigate the system within the User Stories section of this guide.

ATHENA ROUTES INTRODUCTION

Routes refer to the activities a single bus executes within a day—essentially what a bus does from the time it leaves its depot to the time it returns. Within the Routes Module, "Bell Times" and other process windows are visible in the module to optimize the user experience. Unassigned runs will additionally appear in the Routes Module; the user will have the opportunity to identify runs that need to be assigned to a route, and can do so by clicking and dragging the unassigned runs to the appropriate route.

ATHENA MAP ASSET KEY

Symbol	Explanation	Symbol	Explanation
4	Zoom to Extents	•	Satellite
	Zoom all		Map Overlays
(<u>(</u>)	Zoom Selected		Pre-Selected Map Overlays
	Road Map View		Street View
%	Hybrid View		

NAVIGATING ROUTES MODULE

1. Sign In:

You will first come to the Sign In page where you will enter your Username (email) and Password.



2. Athena Portal Home Page:

You will be brought to the Athena Portal Home Page; at the bottom of this screen are the Athena applications.



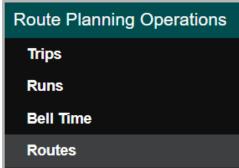
3. Routing Management:

Select the owl icon to enter the Routing Management application.



4. Routes:

Under Route Planning Operations select Routes.



5. Create Task:

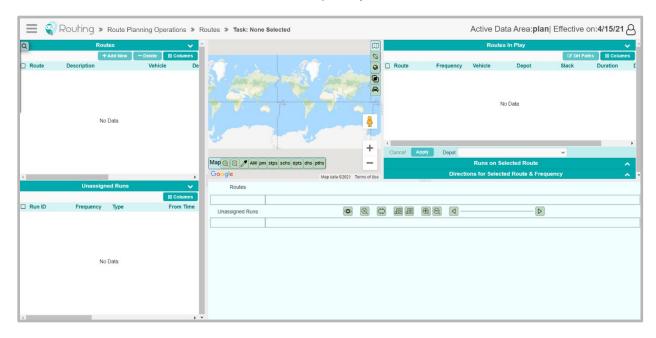
Before you can start working within the Routes module, you will first need to create a task by clicking on the plus icon at the bottom left corner of the screen.



6. Panes:

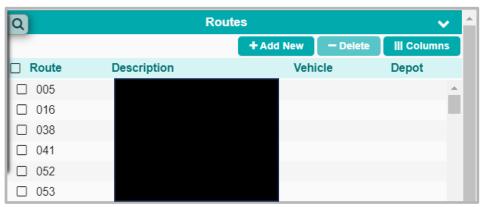
Within the Route Management module, you will encounter several panels:

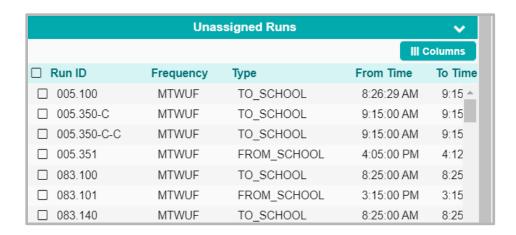
- Routes and Unassigned Runs
- The Map Panel
- Routes in Play
- Runs on Selected Route
- Directions for Selected Route & Frequency



7. Data Panel:

Once you create your task and complete your search, Routes and Unassigned Runs will listed in the Data Panel.



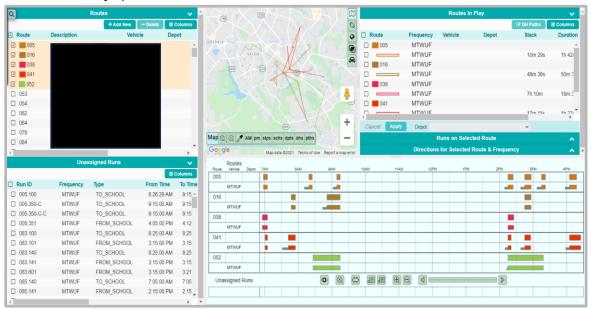


7.1 Routes:

Select the routes you want to work with by clicking on the box to the left of the route number.

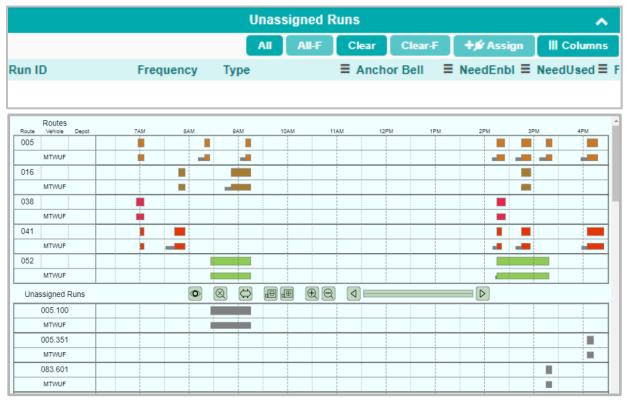


Routes will show graphically on the map, and they will additionally be listed in the "Routes in Play" panel, as well as show in the "Timeline".



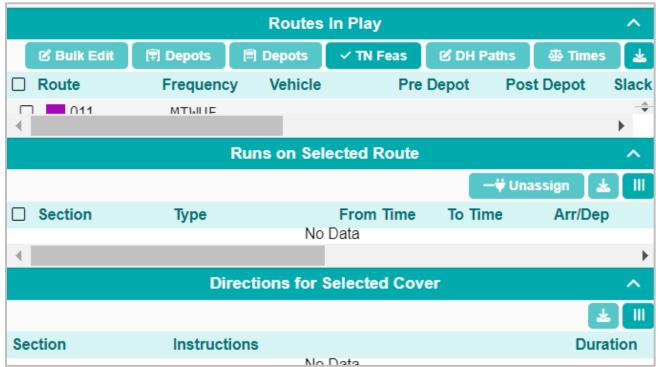
7.2 Unassigned Runs:

Select unassigned runs in the "Data Panel" and they will show up in the lower portion of the timeline.



8. Workspace Panel:

Within the Workspace Panel the user will find the following card to work in: Routes in Play, Runs on Selected Route, and Directions for selected Route & Frequency.

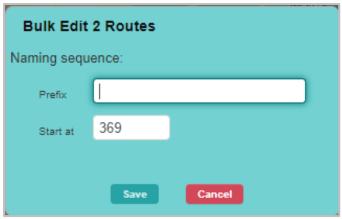


8.1 Routes in Play:

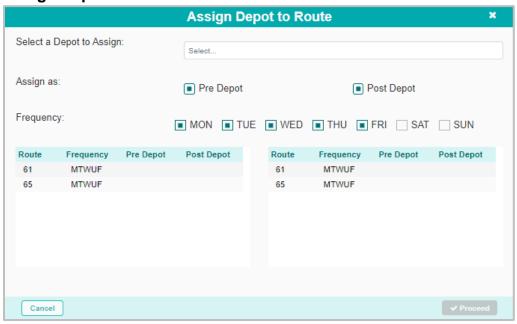
When the user selects one or more routes within the Data Panel, those routes will additionally populate within the Routes in Play card. Within this card the user is able to perform multiple functions: Bulk Edit the name and description, assign and unassign depots, and compare run durations based on time of day.



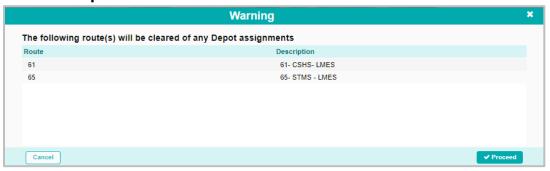
a.) Bulk Edit:



b.) Assign Depot:



c.) Remove Depot:



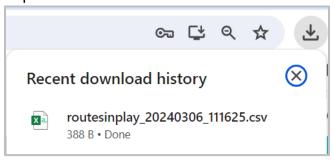
d.) Times:

Toggle between the "Pessimistic", "Best-Guess", and "Optimistic" times for the selected runs.



e.) Export:

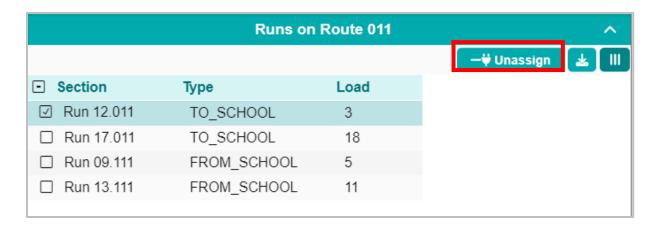
Export route data found within the Routes in Play card as a CSV file.



8.2 Runs on Selected Route:

The Runs on Selected Route card will populate all runs presently associated with the route the user has selected within the Routes in Play card. Additionally, within this card, the user can unassign runs from the selected route either individually or in bulk.

Users can additionally export information found in this card as a CSV file using the export tool located next to the Unassign tool.

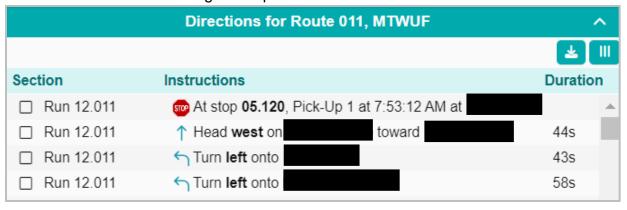


Selecting the "Unassign" button will populate a warning message that will require users to verify whether they would like to unassign the selected runs.



8.3 Directions for Selected Route & Frequency:

The user can view the run direction play out in real time by selecting a direction directly within the card, see the run direction displayed on the map, as well as export the run directions as a CSV file using the Export tool.



ATHENA USER STORIES

The User Stories section of this guide will offer you scenarios that are applicable to some of the workflows you might encounter in your day-to-day tasks within Athena. Some scenarios that will be discussed include:

- Create New Route
- Assign a Run to a Route
- Assign a Depot to a Route
- Change Route ID

1. Create New Route

You work with the school district to help design and update routes; you noticed there were multiple runs that remained unassigned, and were tasked with creating a new route.

Here's How:

1. Sign In:

You will first come to the Sign In page where you will enter your Username (email) and Password.



2. Athena Portal Home Page:

You will be brought to the Athena Portal Home Page; at the bottom of this screen are the Athena applications.



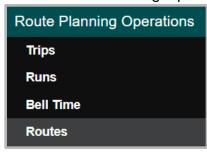
3. Routing Management:

Select the owl icon to enter the Routing Management application.



4. Routes:

Under Route Planning Operations select Routes.



5. Create Task:

Before you can start working within the Routes module, you will first need to create a task by clicking on the plus icon at the bottom left corner of the screen.



6. Add New:

Navigate to the "Add New" button at the top of the Data Pane. When selected, a "Create New Route" window will pop-out; fill out the form in its entirety, and select save.

• **Note:** Depot's must first be created in the Depot module before being able to query for them in the "Create New Route" window.



6.1 New Route:

The new route will be listed in the Data Panel, and when selected, will show in the

"Routes in Play" card.



7. Save:

To finalize your task, navigate to the lower left of the screen and hover over your created task, and select "Save".



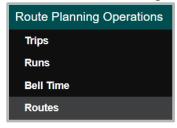
2. Assign a Run to a Route

You have created the new route, and now need to assign the appropriate runs; you will do so by working within the "Unassigned Runs" and "Timeline" cards in the Routes Module.

Here's How

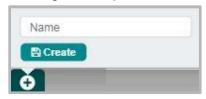
1. Routes:

Under Route Planning Operations select Routes.



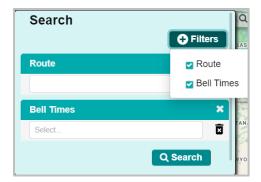
2. Create Task:

Before you can start working within the Routes module, you will first need to create a task by clicking on the plus icon at the bottom left corner of the screen.



3. Search:

Select the Route ID filter in the "Search" window, and query for your route(s).

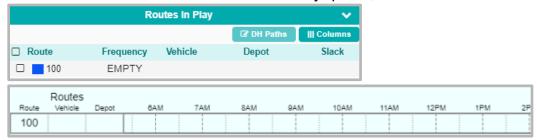


4. Routes:

Select the route you want to work with by clicking on the box to the left of the route number.

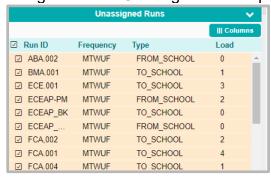


The route will be listed in the "Routes in Play" panel, and within the "Timeline".

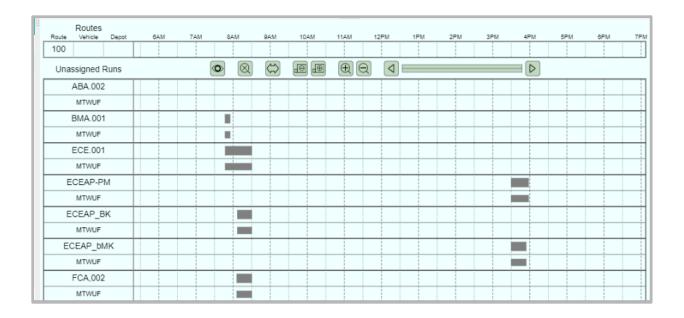


4.1 Unassigned Runs:

Navigate to the "Unassigned Runs" panel, and select the runs you will be working with.

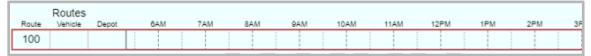


Runs will additionally populate on the "Timeline".

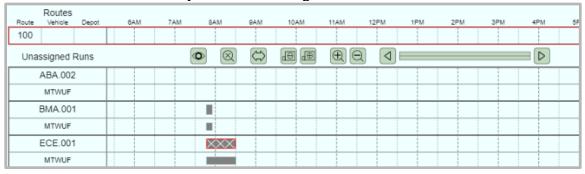


4.2 Assign:

To assign an "Unassigned Run" to a route, first select a route directly in the "Timeline"—once selected, the route ill be outlined in red.



Locate and select the run you want to assign to the route within the "Timeline".



The selected run will be outline in red, and filled with "X's".



Select the "Assign Runs" tool.



4.3 Confirm:

Following assigning the run to a route, a confirmation window will appear—click "yes" to confirm the assignment.



Another confirmation window will appear to finalize the change; select "proceed" to accept the changes. You will follow this process to add any additional runs to the route.

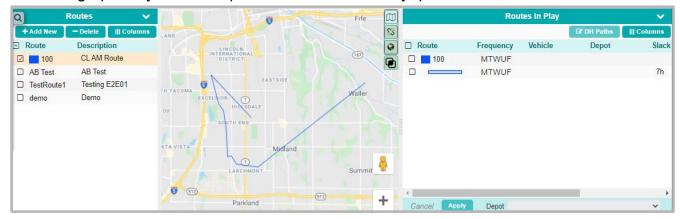


4.3.1 Slack:

<u>Slack</u> is the extra time a bus driver could potentially have within the run or route. <u>Negative slack</u> is when a route does not have the amount of time necessary to fulfill the task within bell times.

5. New Route:

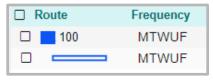
Once your new route has been confirmed, you will be able to select it in the Data Panel, and it will show graphically on the map and the "Routes in Play" pane.



5.1 Routes in Play:

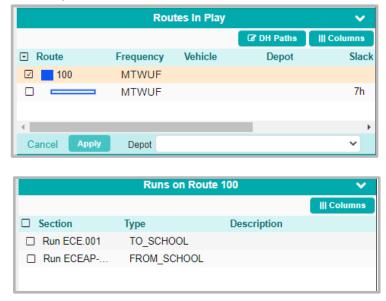
The route will have a master and cover assigned to it.

- The master is the foundation of this run.
- The cover(s) are any differentiation from the Master.



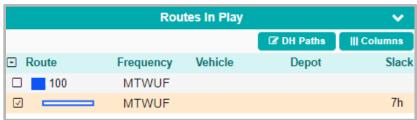
5.2 Runs on Route:

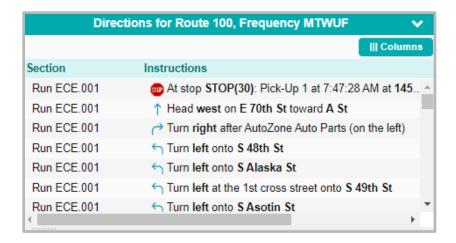
When selecting the master in "Routes in Play" your runs will be listed in the "Runs on Route" panel.



5.3 Directions for Selected Route:

When selecting just the cover in "Routes in Play", open the "Directions for Selected Route" card, and you can see the turn-by-turn directions for your route.





6. Save:

To finalize your task, you must go down to the lower left of the screen and hover over the task—select "Save".



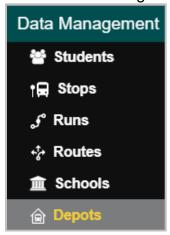
3. Assign a Depot to a Route

Once you have created the new route, and assigned the appropriate runs to it, the user will need to create and assign the pre and post depot locations to the route in order to factor the deadhead time into the route details.

Here's How

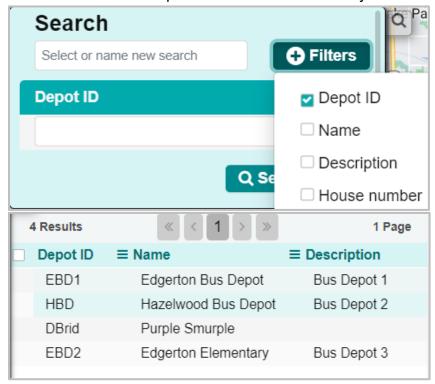
1. Depots:

Under "Data Management" navigate to Depots.



1.1 Search:

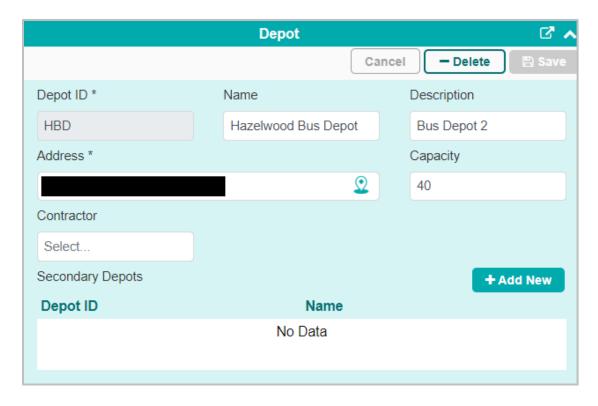
In the search bar select the "Depot ID" filter; leave the search field blank and select "Search" to view all depot locations saved in the system.



1.2 If you do not see the depot location for your route, you will need to add a new depot location to the system by selecting "+Add New".



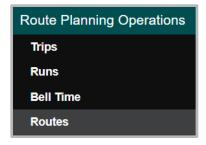
Once selected a form will populate in the Workspace Panel with the following fields to complete:



- ➤ **Depot ID:** When creating a Depot ID, you can assign it a number, location, or any other identifiable name.
- ➤ Name: Traditionally this field is for inputting the school the school/district the buses will be servicing.
- **Description:** This field can be used to keep track of the number of depots associated with a single school/district.
- Address: In this field you can either manually type in the address of the depot, or you can select the map query button within the field to locate the depot in the map view.
- **Capacity:** The number of buses the depot houses.
- ➤ **Contractor:** If the district is using a contractor to supply the buses, you would plug in the name of that company in this field.
- > Secondary Depots: If there is a secondary depot that is associated with the serviced school, you would associate them here.

2. Routes:

Once you have added the depot location to the system, navigate to "Route Planning Operations" and select Routes.



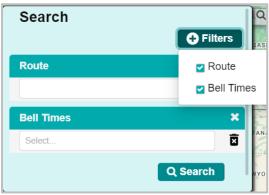
3. Create Task:

Before you can start working within the Routes module, you will first need to create a task by clicking on the plus icon at the bottom left corner of the screen.



4. Search:

Select the Route ID filter in the "Search" window, and query for your route(s).



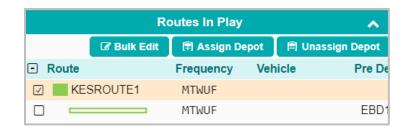
5. Routes:

Select the route you want to work with by clicking on the box to the left of the Rout number; the route will be listed in the "Routes in Play" panel, as well as populate in the "Timeline".

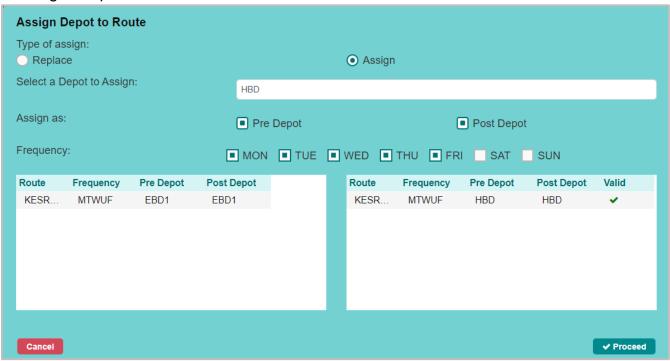


6. Assign Pre-Depot to Route:

In the "Routes in Play" panel within the Workspace Panel, you will find the "Assign Depot" button. Before you can assign a depot to the route, you must select the route in the "Routes in Play" card.



Once selected, the "Assign Depot to Route" window will populate on the screen. Select the "Assign" button in the window, and locate the appropriate depot location in the "Select a Depot to Assign" drop-down field.

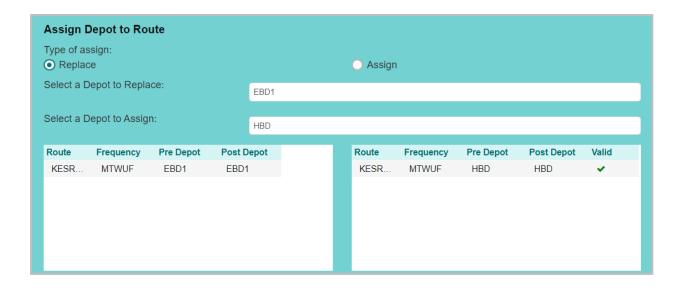


Some additional fields of note in this window are described as such:

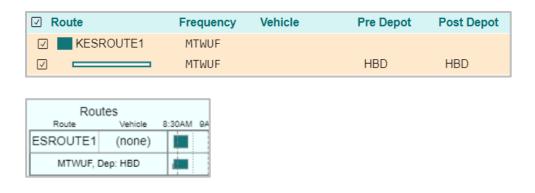
Frequency: The user has the ability to assign the frequency of this depot location; should the bus be come from a different location on a few of the days.

Pre/Post Depot: If the pre and post depot locations are different, you can deselect the Post Depot field, and assign it as a secondary depot location.

➤ **Replace:** To replace an already assigned depot location, select the "Replace" button in the window and the window will update as below:



- In this window you will select the current depot location in the "Select a Depot to Replace" drop-down, and add the new location to the "Select a Depot to Assign" field. The changes will be shown in the lower right window.
- The depot location will show these updates in the "Routes in Play" card as well as in the "Timeline".



4. Change Route ID

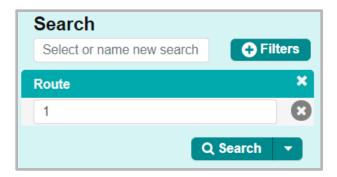
While working to build new routes within the system, you notice some of the established Route ID/Description information is outdated and needs to be updated in the system.

Here's How

1. Search Route ID:

Click on the "Search Tab" and the Search Tray will appear; search your "Route ID".



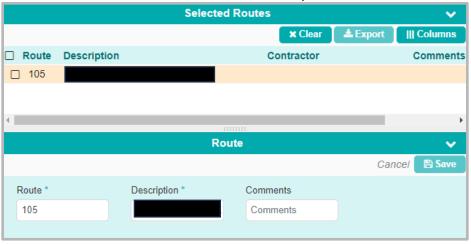


2. Routes Selected:

Routes will be listed in the Data Panel—select your Route.



Selected Routes will be listed in the Workspace Panel.



3. Change Route ID:

In the Route panel, under "Route" enter the new name; add a new "Description" and any comments if needed, and "Save".

