

**DLZ OHIO, INC.**  
**SCI-823 PORTSMOUTH TRAFFIC MODEL**  
 BeforeTravel-Time Study

Study Name : **US 52 EB OFF**  
 Study Date : **8/3/2012**  
 Page No. : **1**

**Study Summary**

*Runs Used in This Study*

| Run Title    | Start Date | Start Time | Length | Before/After | Run Type |
|--------------|------------|------------|--------|--------------|----------|
| US 52-EB-001 | 07/17/12   | 09:54      | 68502  | Before       | Primary  |
| US 52-EB-002 | 07/17/12   | 10:37      | 68417  | Before       | Primary  |
| US 52-EB-003 | 07/18/12   | 09:30      | 68310  | Before       | Primary  |
| US 52-EB-004 | 07/18/12   | 10:15      | 68425  | Before       | Primary  |

**Node Info**

| # | Len   | Name               |
|---|-------|--------------------|
| 1 | 0     |                    |
| 2 | 128   | DRY RUN            |
| 3 | 12393 | US 852/104 DIVERGE |
| 4 | 2961  | US 52 EB RAMP      |
| 5 | 7207  | US 23 SB           |
| 6 | 9077  | MALBERT ST         |
| 7 | 10655 | SR 139             |
| 8 | 25992 | US 52 EXIT RAMP    |

Length of Study Route = 68,413 feet

**Notes:**

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 Page No. : **2**

**Overall Output Statistics**

| Node #       | Length        | Node               | Travel Time   | # of Stops | Avg Speed   | Total Delay  | Time <= 0 MPH | Time <= 35 MPH | Time <= 55 MPH |
|--------------|---------------|--------------------|---------------|------------|-------------|--------------|---------------|----------------|----------------|
| 1            | 0             |                    |               |            |             |              |               |                |                |
| 2            | 128           | DRY RUN            | 3.3           | 0.0        | 26.9        | 0.5          | 0.0           | 1.3            | 3.3            |
| 3            | 12393         | US 852/104 DIVERGE | 178.3         | 0.0        | 47.4        | 0.0          | 0.0           | 2.3            | 178.3          |
| 4            | 2961          | US 52 EB RAMP      | 48.8          | 0.3        | 41.4        | 0.0          | 2.0           | 12.8           | 48.8           |
| 5            | 7207          | US 23 SB           | 140.8         | 0.8        | 34.9        | 4.0          | 10.5          | 71.5           | 130.8          |
| 6            | 9077          | MALBERT ST         | 231.5         | 1.3        | 26.7        | 54.5         | 2.8           | 209.8          | 231.5          |
| 7            | 10655         | SR 139             | 254.5         | 1.3        | 28.5        | 46.5         | 13.8          | 214.0          | 254.5          |
| 8            | 25992         | US 52 EXIT RAMP    | 387.0         | 1.0        | 45.8        | 0.0          | 12.0          | 111.5          | 271.0          |
| <b>Total</b> | <b>68,413</b> |                    | <b>1244.0</b> | <b>4.5</b> | <b>37.5</b> | <b>105.5</b> | <b>41.0</b>   | <b>623.0</b>   | <b>1118.0</b>  |

Stats based on 4 BEFORE runs.  
 Stops based on a Stop Speed of 5 MPH.  
 Total Delay based on a Normal Speed of 35 MPH.

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 Page No. : **3**

**Fuel Consumption & Emissions**

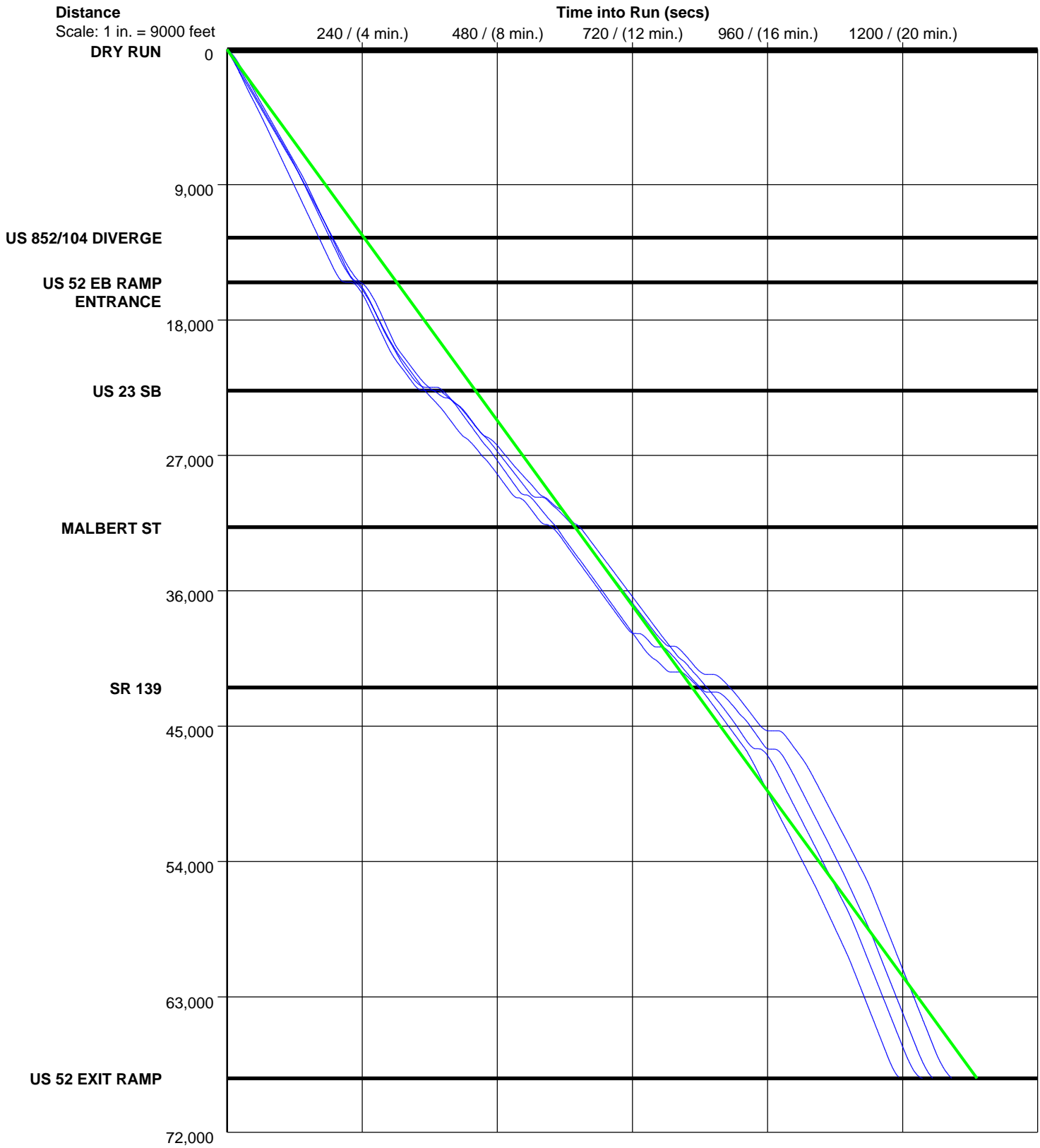
| Node #       | Length        | Node Name          | Fuel (gal)    | HC (grams)     | CO (grams)      | NOx (grams)    |
|--------------|---------------|--------------------|---------------|----------------|-----------------|----------------|
| 1            | 0             |                    |               |                |                 |                |
| 2            | 128           | DRY RUN            | 0.0014        | 0.1098         | 0.7311          | 0.0660         |
| 3            | 12393         | US 852/104 DIVERGE | 0.1038        | 5.5442         | 72.8422         | 2.1937         |
| 4            | 2961          | US 52 EB RAMP      | 0.0240        | 0.9542         | 9.5067          | 0.1655         |
| 5            | 7207          | US 23 SB           | 0.0693        | 5.6751         | 69.7662         | 3.2215         |
| 6            | 9077          | MALBERT ST         | 0.0815        | 7.5588         | 67.0432         | 4.1118         |
| 7            | 10655         | SR 139             | 0.0877        | 6.7829         | 63.4942         | 2.6697         |
| 8            | 25992         | US 52 EXIT RAMP    | 0.2441        | 12.9237        | 168.5544        | 5.8104         |
| <b>Total</b> | <b>68,413</b> |                    | <b>0.6118</b> | <b>39.5488</b> | <b>451.9380</b> | <b>18.2385</b> |

Stats based on 4 BEFORE runs.

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 Page No. : **4**

**Time/Space Trajectories of All Runs**



**Solid Line is Normal Speed of 35 MPH**