

# Memo

To: Joan Rohlf, Sunil Kumar  
cc: Mike Clifford, Daivamani Sivasailam, Erin Morrow, SIP files  
From: Eulalie G. Lucas  
Date: November 27, 2006  
Re: Final Results for Mobile inventories for 8-hour ozone SIP

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This memo transmits the final set of emission results associated with the 8-hour ozone SIP, for base, controlled and un-controlled conditions. These results are consistent with the guidance provided in Sunil's memo dated November 3, 2006. DEP staff prepared emission rates and were checked for consistency by DTP staff. Please keep in mind that Stafford County is included in the average regional rates. In addition, Sunil made several manual changes to the Mobile input decks to address EPA's directions regarding the preparation of the uncontrolled inventories. These input parameters and command lines were not available through E.H.Pechan's software. Travel data for all inventories were prepared in the fall of 2005 as part of the 2005 Constrained Long Range Plan (CLRP) and the FY 2006-2011 Transportation Improvement Plan (TIP). Emissions associated with Stafford County were removed from these results in accordance with the revised geography for the non-attainment area.

The tables are arrayed as follows: Attachment 1 shows total non-attainment area VOC and NO<sub>x</sub> emissions by year and trip cycle and scenario. Attachments 2 through 5 show only emissions by state for uncontrolled inventories since controlled inventories were previously delivered under a memo to DEP staff dated October 4<sup>th</sup> 2006. Files will also be forwarded in electronic format.

## Attachment 1 8-Hour Ozone SIP

### Mobile Source Emissions Inventories

(Tons/Day)

	Base 2002		2008 Controlled		2008 Uncontrolled		2009 Controlled		2009 Uncontrolled	
	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx	VOC	NOx
<b>I Network</b>										
Start	24.77	12.58	12.83	7.23	15.27	9.16	11.88	6.64	14.79	9.08
Running	55.26	229.04	30.71	135.55	33.36	161.12	28.62	123.21	31.59	155.50
Soak	11.26	-----	10.06	-----	10.31	-----	9.71	-----	9.99	-----
<b>II Off-Network</b>										
Diurnal	2.36	-----	1.90	-----	2.04	-----	1.84	-----	2.01	-----
Resting Lo	11.93	-----	9.03	-----	9.26	-----	8.59	-----	8.91	-----
Local Road	9.33	11.16	5.11	6.99	5.49	8.61	4.75	6.38	5.16	8.47
School Bus	0.42	5.97	0.40	5.23	0.40	5.34	0.38	4.97	0.39	5.14
Transit Bus	0.38	6.43	0.22	4.42	0.22	4.64	0.23	4.52	0.23	4.89
Auto Acces	1.24	1.47	0.72	0.88	0.80	1.10	0.68	0.80	0.77	1.08
<b>Total</b>	<b>116.94</b>	<b>266.65</b>	<b>70.98</b>	<b>160.30</b>	<b>77.17</b>	<b>189.97</b>	<b>66.68</b>	<b>146.53</b>	<b>73.85</b>	<b>184.16</b>

2008 Uncontrolled: 2002 IM, 2002 NOx Rebuild values, No Tier 2, No HDDV Rule, 2008 RDT/DSF/VMT Mix/Total VMT

2009 Uncontrolled: 2002 IM, 2002 NOx Rebuild values, No Tier 2, No HDDV Rule, 2009 RDT/DSF/VMT Mix/Total VMT

## Attachment 2

MOBILE SOURCE EMISSIONS INVENTORY FOR VOC BY STATE 2008 Uncontrolled	
DISTRICT OF COLUMBIA	7.99
MARYLAND	36.56
VIRGINIA	32.62
<b>TOTAL</b>	<b>77.17</b>

## Attachment 3

MOBILE SOURCE EMISSIONS INVENTORY FOR NOX BY STATE 2008 Uncontrolled	
DISTRICT OF COLUMBIA	17.36
MARYLAND	92.51
VIRGINIA	80.10
<b>TOTAL</b>	<b>189.97</b>

#### Attachment 4

MOBILE SOURCE EMISSIONS INVENTORY FOR VOC BY STATE 2009 Uncontrolled	
DISTRICT OF COLUMBIA	7.52
MARYLAND	34.97
VIRGINIA	31.36
TOTAL	73.85

#### Attachment 5

MOBILE SOURCE EMISSIONS INVENTORY FOR NOX BY STATE 2009 Uncontrolled	
DISTRICT OF COLUMBIA	16.89
MARYLAND	89.74
VIRGINIA	77.53
TOTAL	184.16