



2016 CLRP OFF-CYCLE AMENDMENT

Air Quality Conformity Analysis:
VDOT and MDOT Off-Cycle Amendment to
the 2016 CLRP

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Transportation Planning Board
September 20, 2017

Amendments to the 2016 CLRP

- ❖ I-66 Outside the Beltway (Option A & Option B)
- ❖ I-95 HOT NB Exit Ramp at Russell Rd.
- ❖ Governor Nice Bridge – completion date change
- ❖ I-270 Innovative Congestion Management Project

Criteria Pollutants Analyzed

- ❖ Volatile Organic Compounds (VOC)
- ❖ Nitrogen Oxides (NO_x)



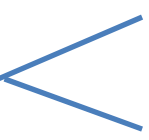
Technical Assumptions and Methods

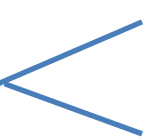
Key Technical Inputs and Tools:

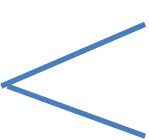
- ❖ 2016 CLRP “Regionally Significant” Transportation Projects Plus VDOT and MDOT Amendments
- ❖ Round 9.0 Cooperative Forecasts
- ❖ Version 2.3.70 Travel Demand Model
- ❖ 2014 Vehicle Registration Data (VIN)
- ❖ EPA’s MOVES2014a Mobile Emissions Model



Analysis Years

2025  Option A
Option B

2030  Option A
Option B

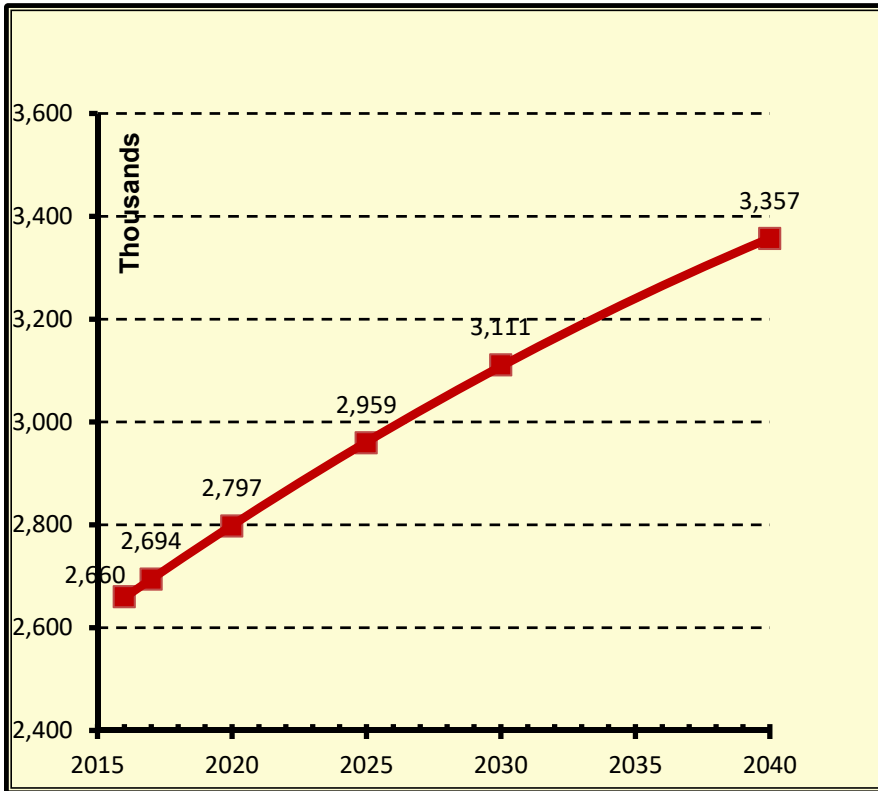
2040  Option A
Option B

NOTE: Option A and Option B refer to different I-66 outside the Beltway configurations.

Round 9.0 Cooperative Forecasts

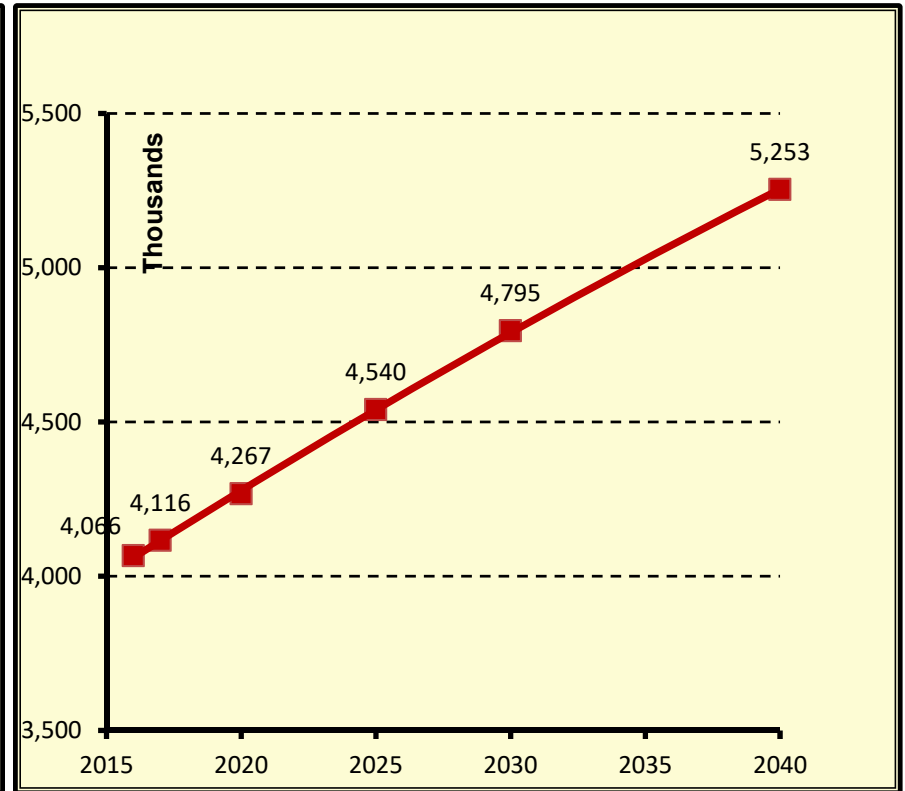
Households

(in thousands)



Employment*

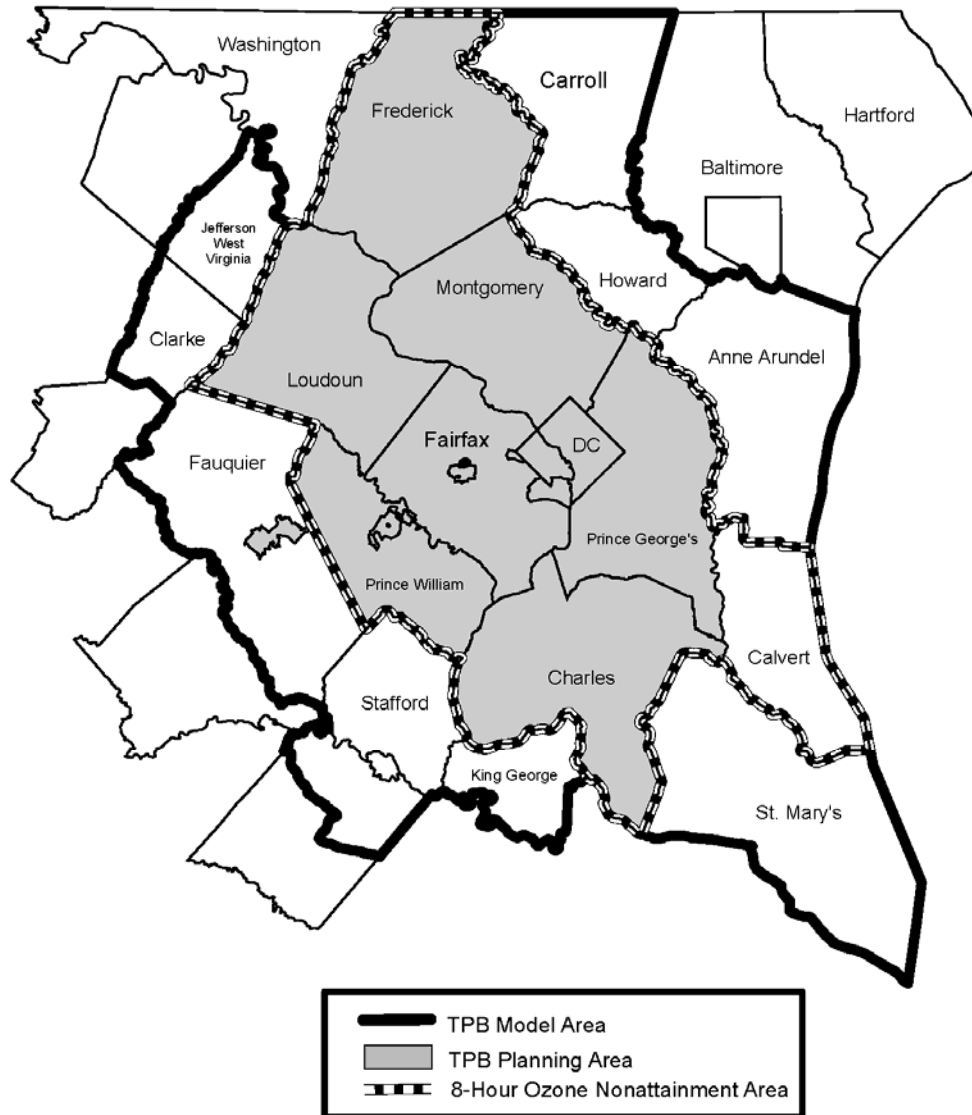
(in thousands)



NOTE: Values are for the modeled area.

*Includes census adjustment

TPB Transportation Planning Areas

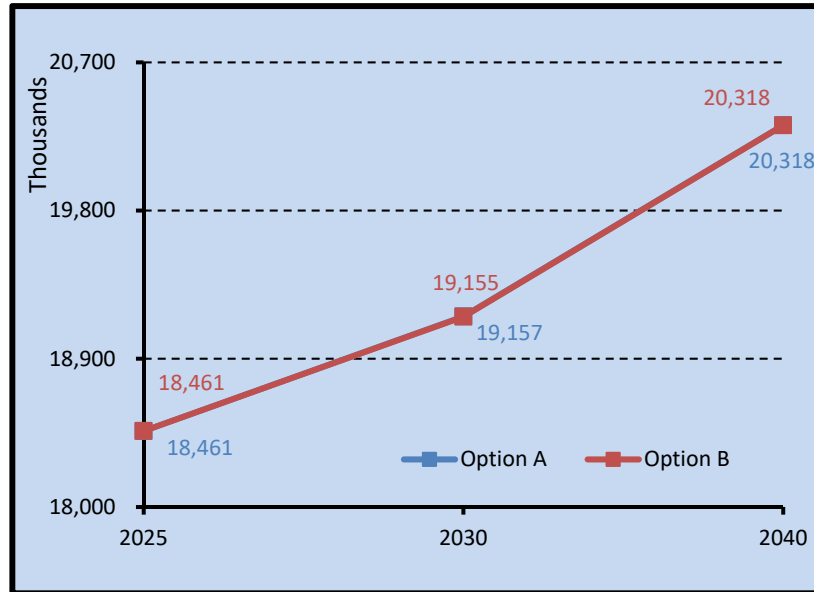


Travel Demand Summary

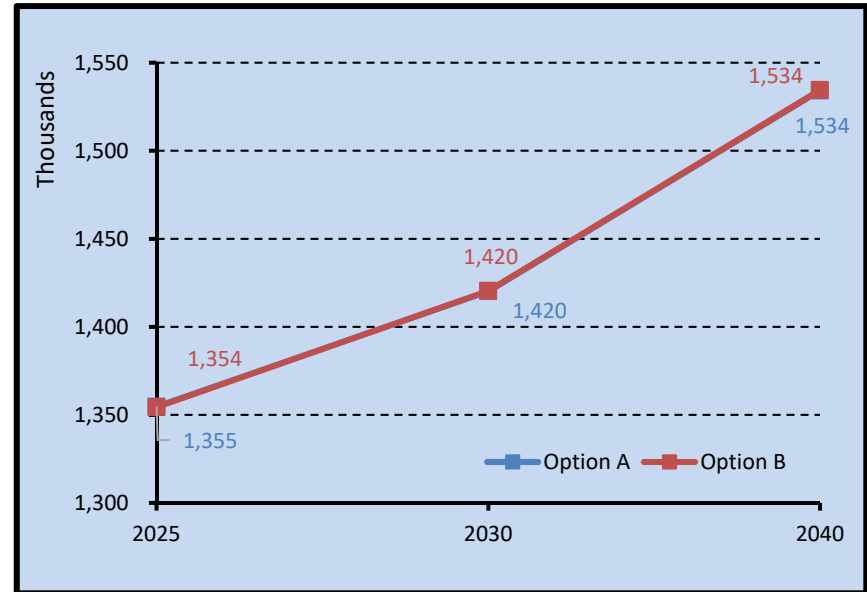
Average Weekday Traffic

Modeled Area

Vehicle Trips
(in thousands)



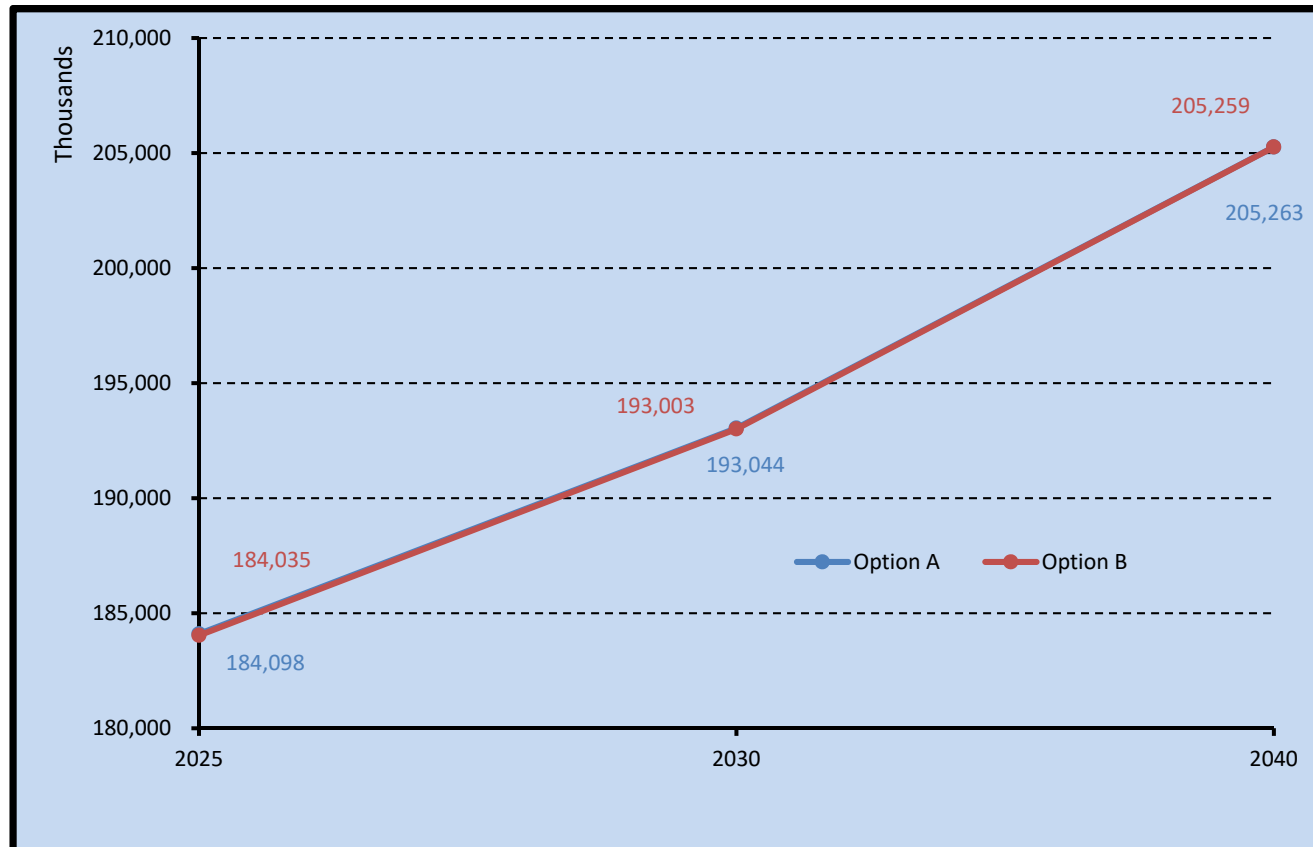
Transit Trips
(in thousands)



Travel Demand Summary

Average Weekday Traffic

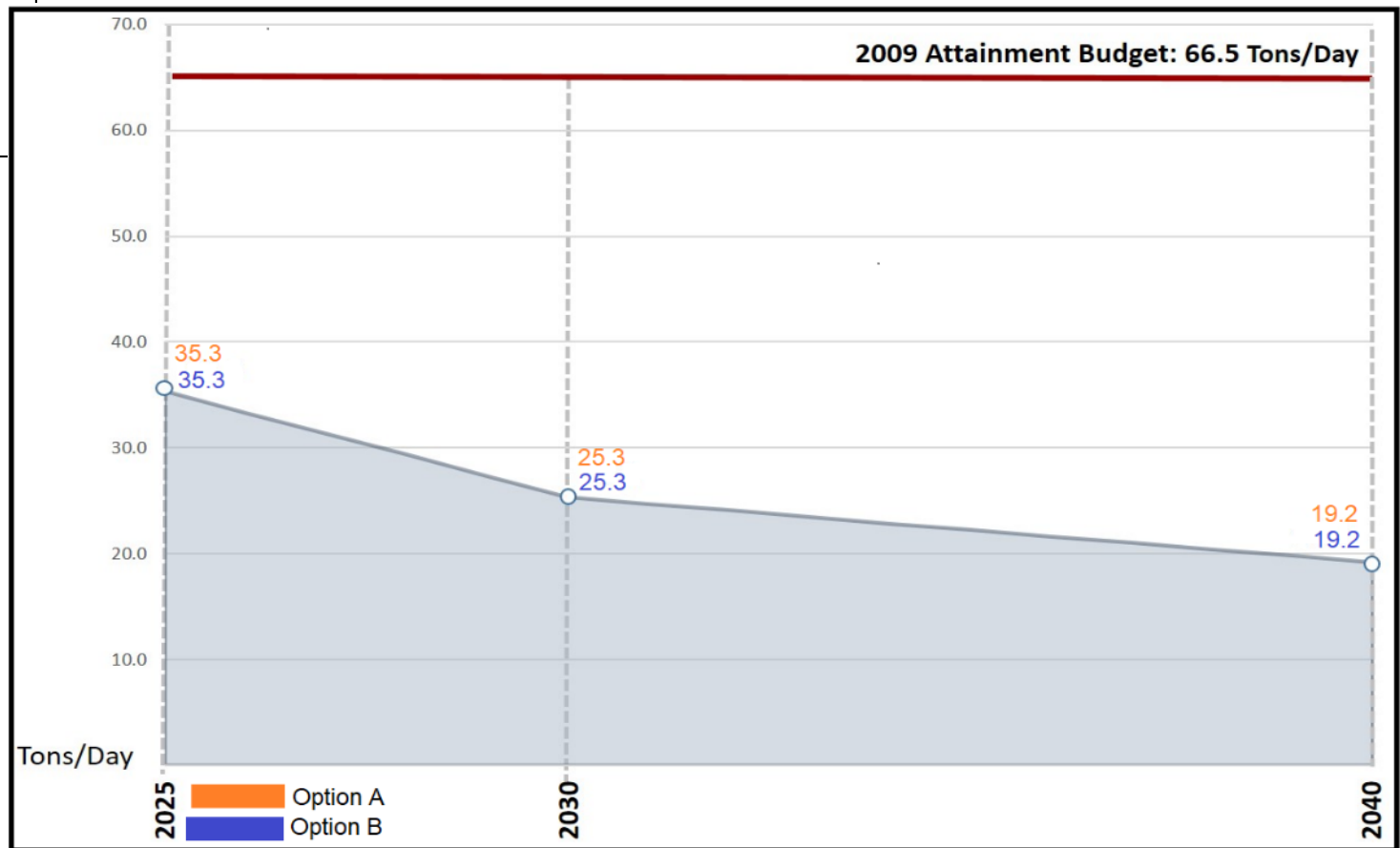
Modeled Area
Vehicle Miles Traveled
(in thousands)



Mobile Source Emissions

NOTE: The Mobile Budgets shown were developed in 2007, as part of the 8-Hour Ozone SIP, in response to the 1997 Ozone Standard. These budgets, as the most current approved by EPA, are required for use in any conformity analysis assessing ozone season pollutants.

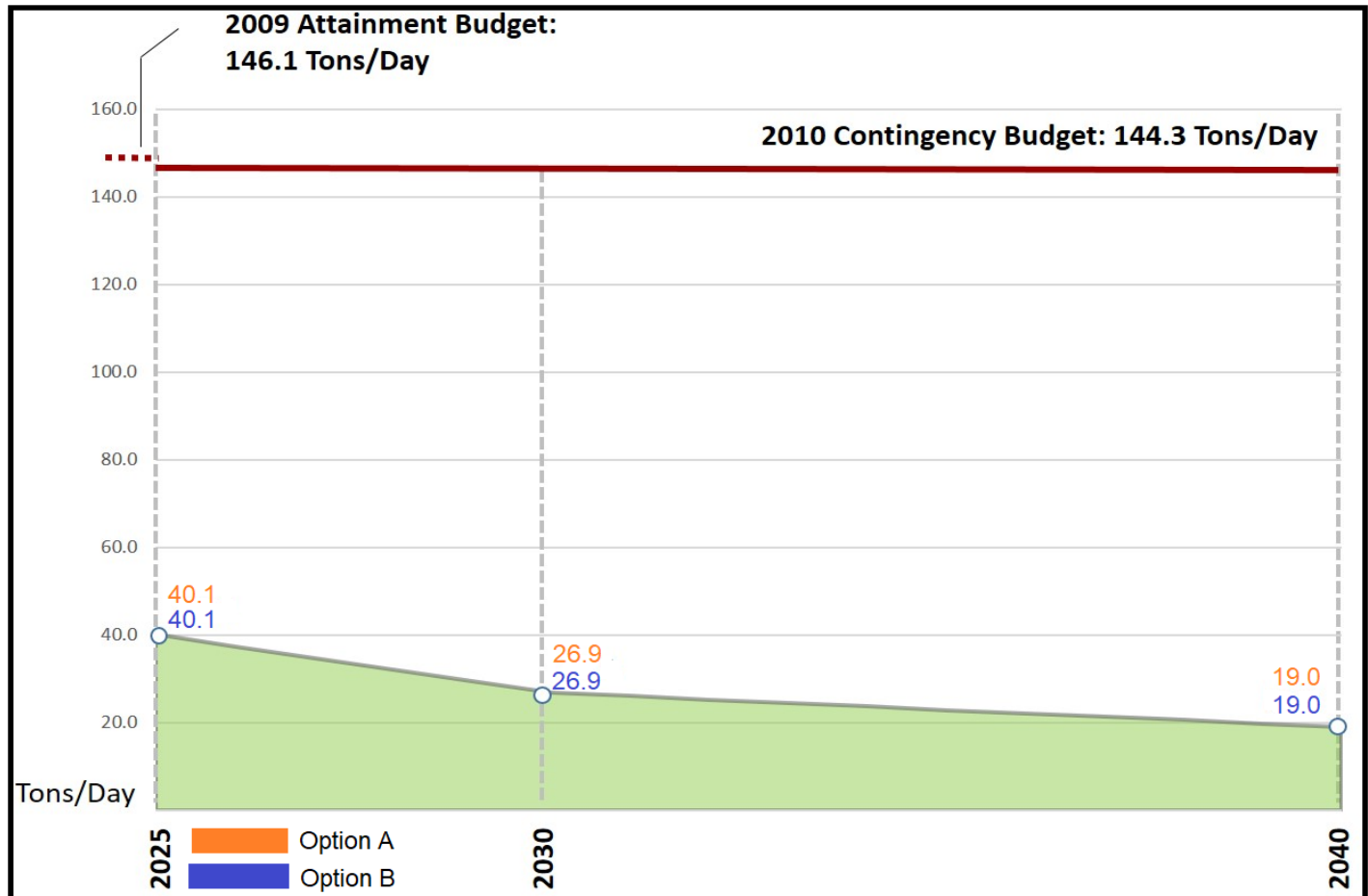
Ozone Season VOC



Mobile Source Emissions

NOTE: The Mobile Budgets shown were developed in 2007, as part of the 8-Hour Ozone SIP, in response to the 1997 Ozone Standard. These budgets, as the most current approved by EPA, are required for use in any conformity analysis assessing ozone season pollutants.

Ozone Season NOx



Findings

- ✓ Ozone Season VOC within Mobile Budget
- ✓ Ozone Season NOx within Mobile Budget



Schedule

Next Steps:

- ❖ Public Comment Sept 14 – Oct 14
- ❖ TPB Briefing: Conformity Findings Sept 20
- ❖ TPB Action: Approve Conformity Analysis and VDOT and MDOT Amendment to the 2016 CLRP Oct 18

QUESTIONS?

