



# Chicago Metropolitan Agency for Planning

233 South Wacker Drive  
Suite 800, Willis Tower  
Chicago, IL 60606

312-454-0400 (voice)  
312-454-0411 (fax)  
[www.cmap.illinois.gov](http://www.cmap.illinois.gov)

## MEMORANDUM

**To:** MPO Policy Committee

**Date:** December 1, 2011

**From:** CMAP Staff

**Re:** 09-11-0034 GO TO 2040/TIP Conformity Analysis & TIP Amendment

---

---

IDOT has requested a special GO TO 2040/TIP Conformity Analysis & TIP Amendment for 09-11-0034, IL 47 from Caton Farm Rd to I-80 in Kendall and Grundy Counties. The amendment was released for public comment from November 3, 2011 to December 2, 2011. At this time, no comments have been received. If any comments are received before the end of the comment period, the committee will be informed.

The project consists of adding lanes, adding signals and improving intersections along the highway.

The 2020, 2030 and 2040 highway networks were coded to include the project. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled (VMT) by speed and facility type for eight vehicle classes was expanded to the twenty-eight vehicle types needed for use with USEPA's MOBILE model. The on-road emission estimates are the sum of those emissions for each precursor or direct pollutant in each scenario year. Reductions from the National Energy Policy Act Credit, Clean Fuel Fleet Program or activities that can't be included in the travel demand model have not been claimed.

For ozone precursors, the resulting emissions estimates fell below the applicable attainment demonstration SIP budgets.

Since there are no SIP budgets for annual direct PM<sub>2.5</sub> (fine particulates) and NO<sub>x</sub> (nitrogen oxide) emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area. The combined direct PM<sub>2.5</sub> and NO<sub>x</sub> emissions remain below emissions estimates for 2002, the baseline year.

**Northeastern Illinois Transportation Improvement Program  
TIP Amendment 09-11-0034 IL 47 from Caton Farm Rd to I-80  
Conformity Analysis Summary Results**

**Direct PM<sub>2.5</sub> and NO<sub>x</sub> Emissions in Tons per Year for PM<sub>2.5</sub> Conformity**

Year	Fine Particulate Matter			Nitrogen Oxide		
	Northeastern Illinois	Northwest Indiana	Nonattainment area Total	Northeastern Illinois	Northwest Indiana	Nonattainment area Total
2002	3,070.78	562.64	3,633.42	167,630.81	30,397.97	198,028.78
2016	1,073.93	112.28	1,186.21	40,800.91	3,931.12	44,732.03
2020	969.63	104.73	1,074.36	27,729.34	2,733.80	30,463.14
2030	957.11	109.53	1,066.64	19,098.53	1,964.01	21,062.54
2040	1,004.53	122.52	1,127.05	19,324.23	2,111.42	21,435.65

conformity is demonstrated by comparison of analysis year emissions to the baseline year (2002)

**VOC and NO<sub>x</sub> Emissions in Tons per Summer Day for Ozone Conformity**

Year	Volatile Organic Compounds		Nitrogen Oxides	
	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2016	61.31	133.78	110.13	284.65
2020	52.50	73.68	74.08	88.17
2030	51.97	73.68	49.47	88.17
2040	55.67	73.68	49.67	88.17

conformity is demonstrated by comparison of analysis year emissions to the SIP budgets

**Notes**

Off-model benefits are not included in the total emissions estimates  
NIRPC emissions from (pending) December 8, 2011 conformity analysis, assuming construction of Cline Avenue Bridge