

# Highly Reactive Volatile Organic Compound (HRVOC) Stakeholder Group Meeting

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June 10, 2009  
Air Quality Planning Section



# Introduction

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- Houston-Galveston-Brazoria (HGB) Attainment Demonstration State Implementation Plan (SIP) Revision for the 1997 Eight-Hour Ozone Standard overview
- HRVOC Emission Cap and Trade (HECT) program allowance reallocation methodology and cap reduction options



# Key Components

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- Photochemical modeling analysis shows a 25 percent reduction of the cap on the total Harris County HRVOC allocation would contribute to attainment of the eight-hour ozone National Ambient Air Quality Standard (NAAQS)
- Requirement is to attain as expeditiously as practicable, but no later than 2019
- Allowance allocation was not equitably distributed
  - Some sites did not receive enough allocations
  - Other sites received allocations greater than necessary



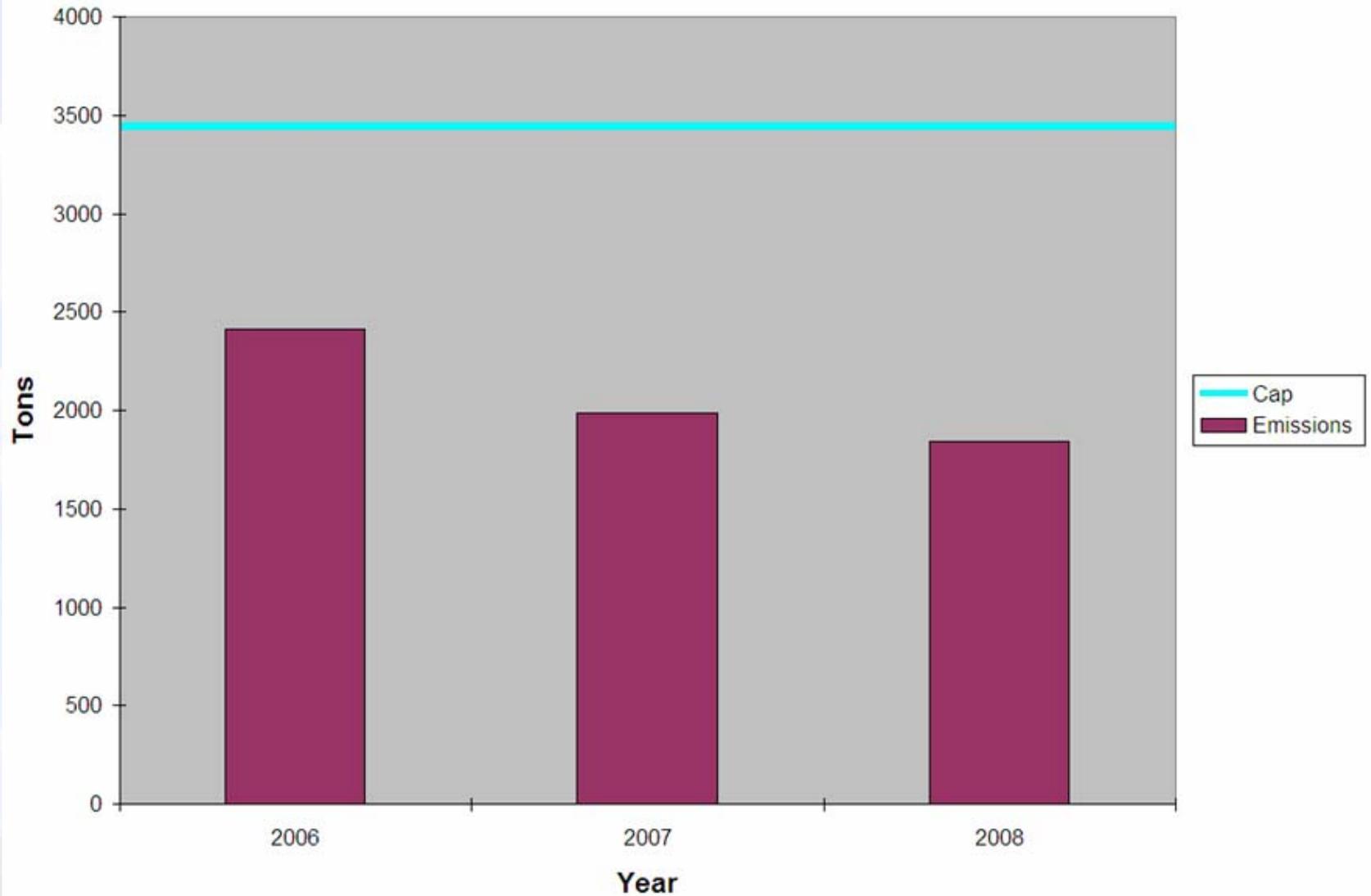
# Timeline

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- **Anticipated proposal date:** September 23, 2009
- **Anticipated *Texas Register* publication date:** October 9, 2009
- **Public hearing dates:** October 28 and 29, 2009
- **Public comment period:** October 9 - November 9, 2009
- **Anticipated adoption date:** March 10, 2010



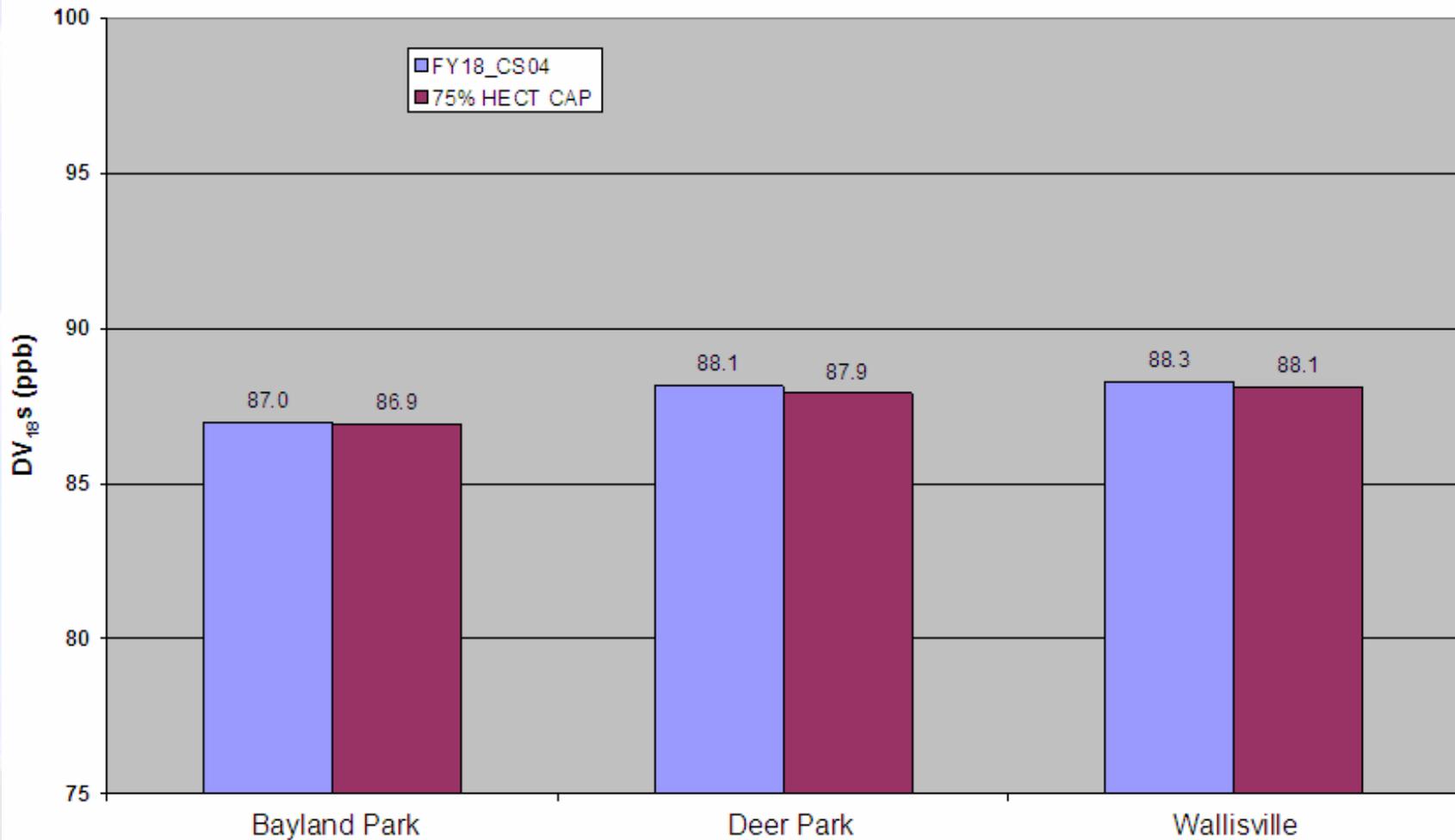
# HECT Program Annual Emissions





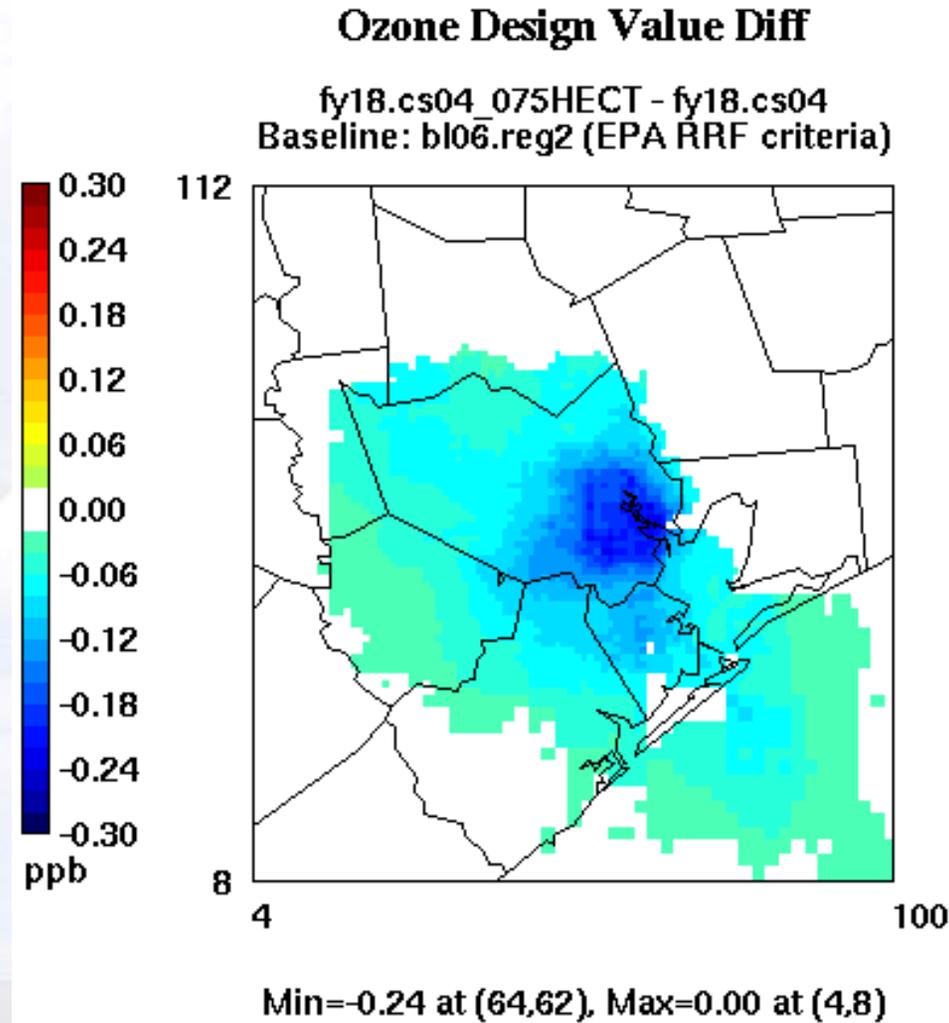
# HECT Sensitivity Modeling

2018 Predicted Eight-Hour Design Values with 25% Reduction in HECT Cap





# HECT Sensitivity Modeling





# HECT Sensitivity Modeling

Emissions Changes			Results in 8-County HGB Area			
	NO <sub>x</sub> (tpd)	VOC (tpd)	Avg. DV <sub>18</sub> change	DV <sub>18</sub> at BAYP	DV <sub>18</sub> at DRPK	DV <sub>18</sub> at WALV
<b>2018 Future Case</b>	<b>0.0</b>	<b>0.0</b>	<b>N/A</b>	<b>86.97 ppb</b>	<b>88.14 ppb</b>	<b>88.28 ppb</b>
<b>25% Reduction to HECT Cap</b>	<b>0.0</b>	<b>2.7</b>	<b>0.11 ppb</b>	<b>86.90 ppb (0.07 ppb)</b>	<b>87.90 ppb (0.24 ppb)</b>	<b>88.12 ppb (0.16 ppb)</b>

nitrogen oxides (NO<sub>x</sub>)

volatile organic compounds (VOC)

design value (DV)

tons per day (tpd)

parts per billion (ppb)

Bayland Park (BAYP)

Deer Park (DRPK)

Wallisville (WAPK)



## HECT Reallocation Discussion Points

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- Emissions vs. level of activity (LOA)-based allocations
- How to determine “uncontrolled emissions”  
ex:
  - control efficiency
  - potential to emit (PTE)
- How to handle “emission events”



# Contact Information

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## **HECT program**

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## **HECT rules**

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# Discussion