



WELCOME

Public Meeting For US-277 In Caddo and Grady Counties March 28, 2013

TEAM INTRODUCTIONS

ODOT

- Bob Rose Division 7 Engineer
- Jeff Hiller Division 7 Construction Engineer
- Siv Sundaram Environmental Programs
- Greg Worrell Division 7 NEPA Project Manager
- Jay Herbert Right-of-Way Division
- Frank Roesler III Public Involvement Officer



GARVER



Brent Schniers, PE Project Manager



Kirsten McCullough AICP, RPA Environmental Lead



Kevin Moore, PE Roadway Lead

PURPOSE OF THIS MEETING

...is to Inform the Public and Solicit Comments About the Proposed Improvements to US-277 From the East Edge of Cement to I-44



PROJECT PURPOSE



...is to Reduce Accidents and Improve Roadway Deficiencies.

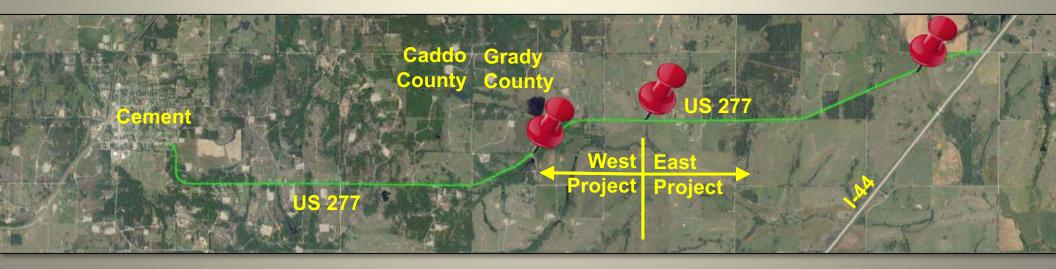
PROJECT AREA INFORMATION

General Data

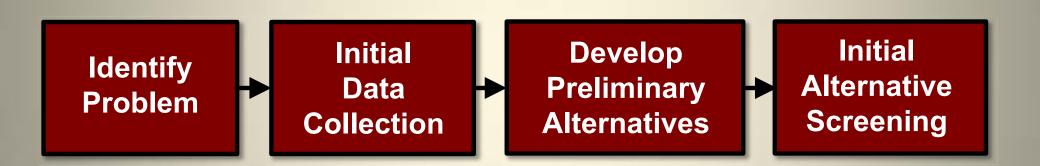
- 2 Lane Roadway (Rural Collector)
- 3 Existing Bridge Structures
 - West Bills Creek
 - Middle Bills Creek
 - East Bills Creek
- Current Traffic: 2,000 Vehicles/Day (15% Trucks)
- Projected Traffic (2035): 3,100 Vehicles/Day

Corridor is Split into Two Projects

- West Project From Cement to Middle Bills Creek
- East Project From Middle Bills Creek to I-44



PROJECT DEVELOPMENT PROCESS



EXISTING CONDITIONS WARRANT IMPROVEMENT

Roadway Deficiencies

- Inadequate Sight Distance
 - Rolling Terrain Vertical Alignment
 - Sharp Curves Horizontal Alignment

Preliminary

Alternatives

- Blind Intersections
- o No Shoulders
- Steep Roadside Slopes

Initial Data

Collection

Identify

Problem



Alternative

Screening



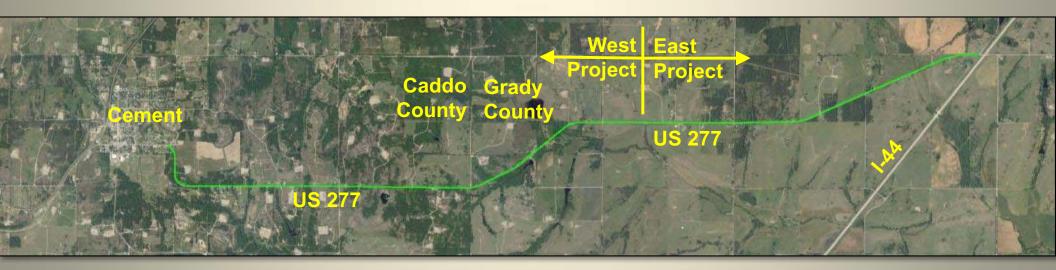




EXISTING DEFICIENCIES LEAD TO HIGH ACCIDENT RATE

Existing Accident Rate

- High Compared to Similar Facilities
- Total 26 Documented over Previous 5 Years
 - 11 Personal Property Damage
 - 14 Injury (23 Persons)
 - 1 Fatal (4 Persons)





Identified Key Existing Features

Topographical

- Rock Outcroppings
- Rock Quarry
- Drainage Structures
- Bridges
- Businesses/Industries
- Residences
- Utilities
- Oil/Gas Facilities



Identify Problem Initial Data Collection

Preliminary Alternatives

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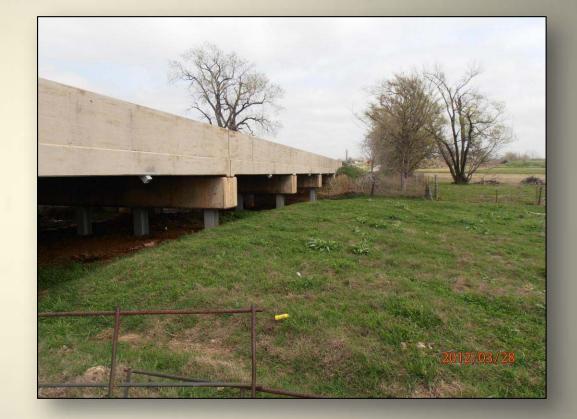
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Identify Problem Initial Data Collection

Preliminary Alternatives

Environmental Data

- Homes and Businesses
- Hazardous Materials
- o Noise
- Threatened and Endangered Species
- Cultural Resources
- Wetlands and Streams

Initial Data

Collection



Identify Problem

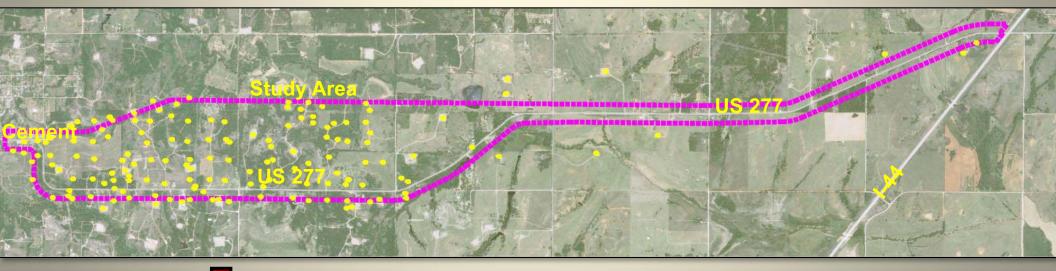
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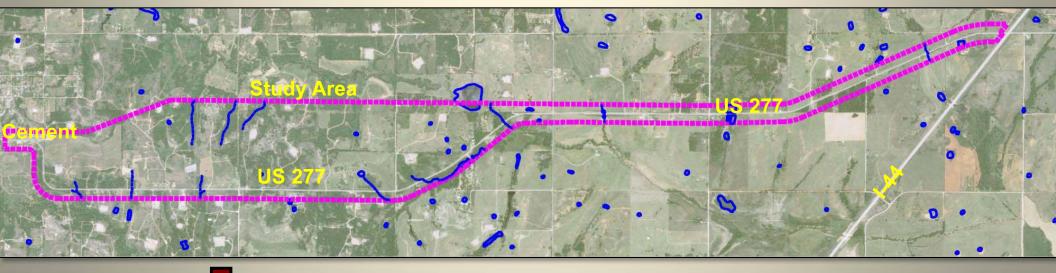


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Identify Problem

Initial DataPreliminaryCollectionAlternatives

DEVELOP PRELIMINARY ALT'S

Alternative

Screening

Proposed Design Criteria for all Alternatives

- Design Speed of 65mph
 - Vertical Sight Distance
 - Horizontal Curves
- Roadway Typical Section
 - 12-foot Lanes
 - 8-foot Shoulders
 - Safe Fill Slopes

Initial Data

Collection

Bridge Structures

Identify

Problem

- West Bills Creek Reconstructed
- Middle Bills Creek Remain As-Is
- East Bills Creek Widening of Existing

Preliminary

Alternatives





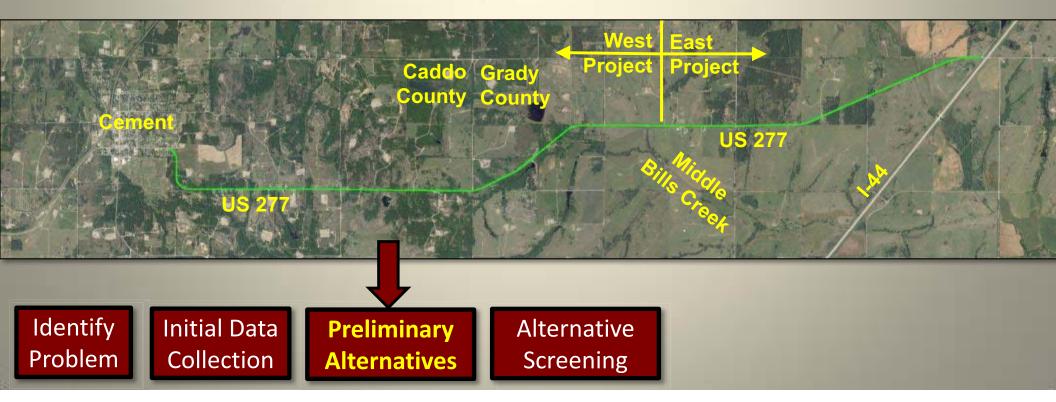
DEVELOP PRELIMINARY ALT'S

Started With Purpose in Mind

"... To Reduce Accidents and Improve Roadway Deficiencies..."

Not Feasible to Correct Existing Roadway -

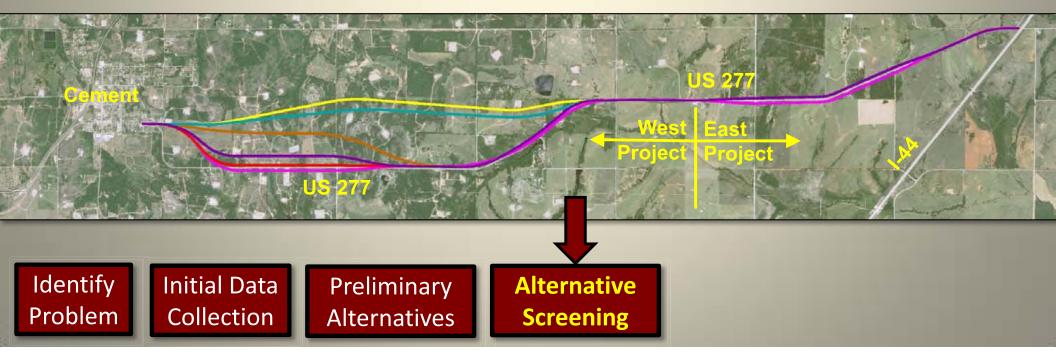
- Numerous Hills to Cut and Valleys to Fill
- Difficult to Keep Existing Roadway Open During Construction
- Significant Utility Impacts
- Impacts to Residences Along Highway



Developed Multiple Alternatives

- East Project
 - North Parallel Offset
 - South Parallel Offset
- West Project
 - Parallel Offsets
 - New Alignments

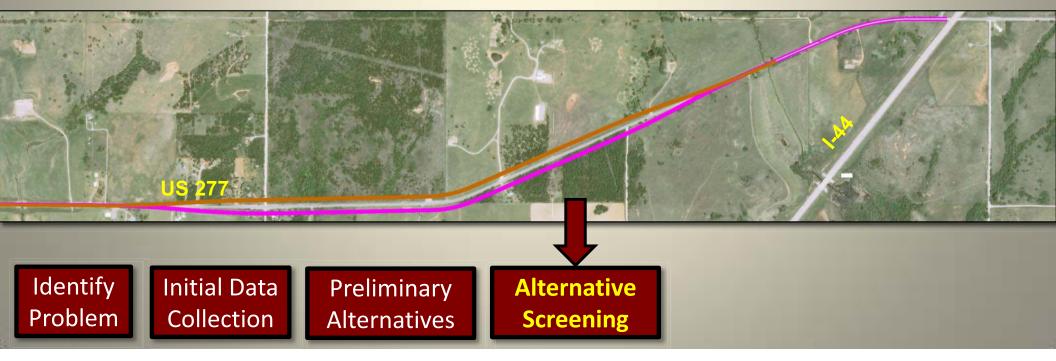
- Right of Way and Utility Impacts
- Environmental Impacts
- Construction Costs
- Refined and Reduced Number of Alternatives
 - East Project (North & South Offset)
 - West Project (Alt. 2A, 4 & 6)



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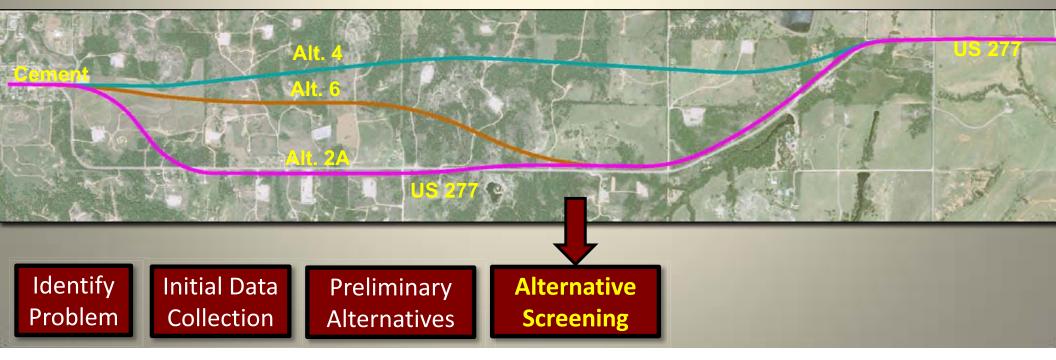
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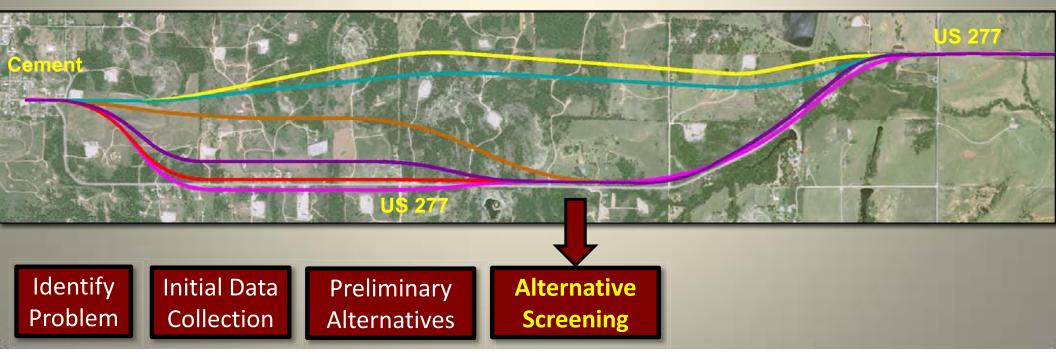
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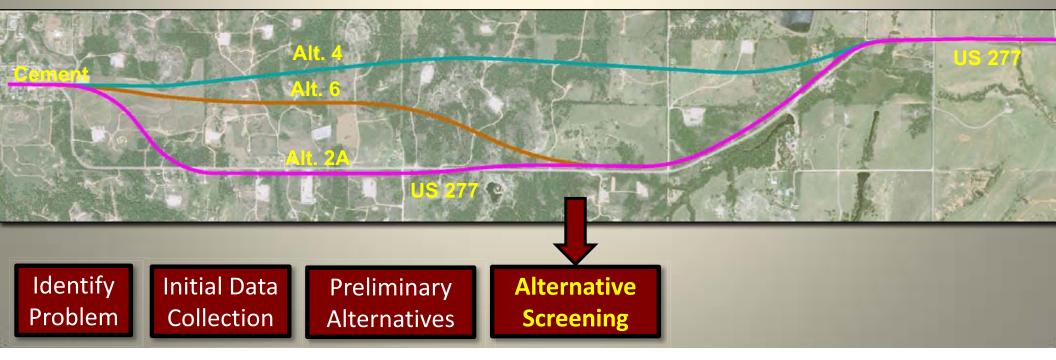
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ALTERNATIVE OVERVIEWS

WEST PROJECT ALTERNATIVES Alternative 2A

Overview

- Straightens Horizontal Curves Near Cement
- South Parallel Offset to Just Prior to Rock Quarry
- North Offset After Rock Quarry
- Connects Back to Existing Highway After West Bills Creek

- Existing Highway Pavement Removed Within Limits
- Access to Highway Remains Similar
- High Utility Impacts & Costs
- Construction Near Oil/Gas Processing Facilities on South
- Estimated Overall Cost = \$17.3M



WEST PROJECT ALTERNATIVES *Alternative 4*

Overview

- Creates New Alignment North of Existing Highway
- Similar to a Survey Alignment Staked by ODOT in the 1970s
- Connects Back to Existing Highway After West Bills Creek

- Minimizes Residential Impacts
- Lowest Utility Relocation Costs
- Significant Construction In Rock
- Existing Highway Remains in Service as Local Facility
- Estimated Overall Cost = \$16.7M

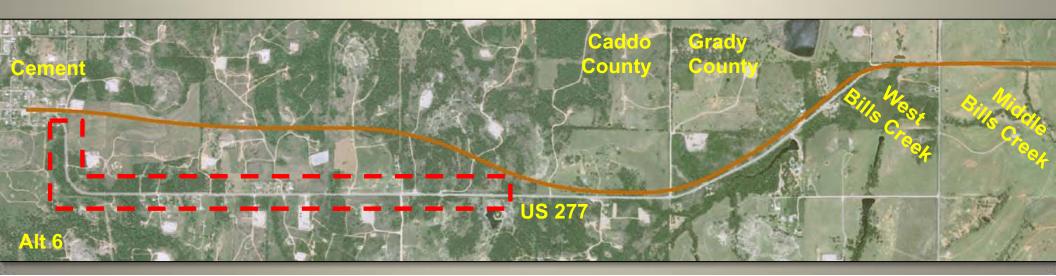


WEST PROJECT ALTERNATIVES *Alternative 6*

Overview

- Begins as New Alignment North of Existing
- Shifts South to Avoid Rock and Oil Facilities
- East of Rock Quarry Becomes a North Offset
- **o** Connects Back to Existing Highway After West Bills Creek

- Minimizes Oil Pump Jack Impacts
- Highest Utility Relocation Costs
- Some Construction In Rock
- Existing Highway Remains in Service as Local Facility
- Estimated Overall Cost = \$17.4M



EAST PROJECT ALTERNATIVES North Offset

Overview

- Begins on Alignment East of Middle Bills Creek
- Shifts to a North Parallel Offset
- Connects Back to Existing Highway Prior to East Bills Creek

- Existing Highway Pavement Removed Within Limits
- High Utility Relocation Costs
- Fewer Residential Impacts
- Estimated Cost = \$8.5M



EAST PROJECT ALTERNATIVES South Offset

Overview

- Begins on Alignment East of Middle Bills Creek
- Shifts to a South Parallel Offset
- Connects Back to Existing Highway Prior to East Bills Creek

- Existing Highway Pavement Removed Within Limits
- Increased Residential Impacts
- Lower Utility Relocation Costs
- o Estimated Cost = \$8.0M



ENVIRONMENTAL IMPACTS

- Overall, Environmental Impacts Were Similar Across All of the Alternatives
- Impacts are Anticipated to be in These Areas:
 - Property Acquisition and Potentially a Small Number of Residential Relocations
 - Impacts to Pump Jacks or Storage Tanks
 - Potential for Hazardous Waste
 - Minor Amounts of Wetland Impacts



Identify Problem Initial Data Collection

Preliminary Alternatives

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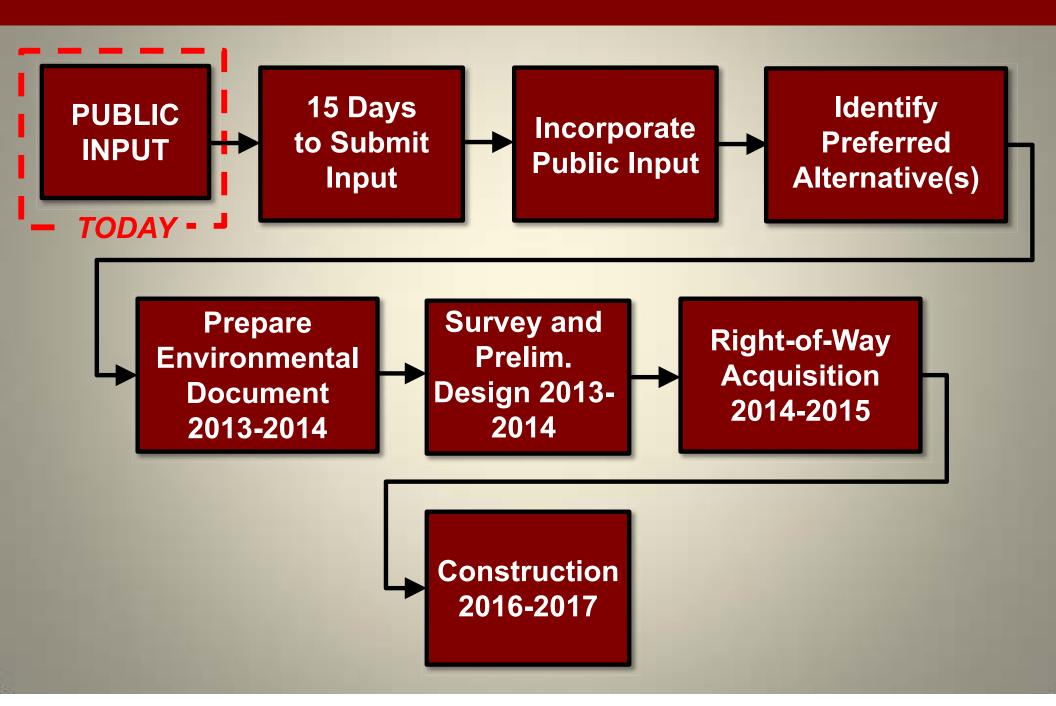
Preliminary Alternatives

SUMMARY

ALTERNATIVES SUMMARY

WEST PROJECT	RIGHT-OF-WAY	UTILITIES	ENVIRONMENTAL	CONSTRUCTION COST	PUBLIC INPUT	TOTAL COST (Million)	SUMMARY
ALT. 2A		\bigcirc	\bigcirc	\bigcirc	?	\$17.3	 Highest R/W Impacts Lowest Construction Cost Moderate Utility/ Environmental Impacts Higher Total Cost
ALT. 4	\bigcirc	\bigcirc	\bigcirc		?	\$16.7	 Highest Construction Cost Lowest Utility Impacts Moderate RW and Environmental Impacts Lowest Total Cost
ALT. 6	\bigcirc		\bigcirc	\bigcirc	?	\$17.4	 Highest Utility Cost Lowest Environmental Impacts Moderate R/W and Construction Cost Highest Total Cost
EAST PROJECT	RIGHT-OF-WAY	UTILITIES	ENVIRONMENTAL	CONSTRUCTION COST	PUBLIC INPUT	TOTAL COST (Million)	SUMMARY
NORTH OFFSET	\bigcirc		\bigcirc		?	\$8.5	 Highest Utility/ Construciton Cost Lowest R/W and Environmental Impacts Highest Total Cost
SOUTH		\bigcirc		\bigcirc	(?)	\$8.0	 Higher R/W and Environmental Impacts Lowest Utility and Construction Cost
	<u> </u>		<u> </u>	-	<u> </u>		Lowest Total Cost

NEXT STEPS



THANK YOU!

Please Submit Your Comments by April 12, 2013

Leave Your Comment Form Here Tonight

 Mail the Comment Form Back to ODOT: Environmental Programs Division 200 NE 21st Street Oklahoma City, OK 73105

Email Your Comments to <u>ENVIRONMENTAL@ODOT.ORG</u>

QUESTIONS?