



TABLE OF CONTENTS	PAGES
Executive Summary	S-1
Acronyms	ACRONYMS-1
Chapter I – Purpose and Need	
Introduction	I-1
Purpose and Need	I-1
Project Purpose	I-1
Project Need	I-1
Project Goals	I-1
AA/EA Document Purpose	I-2
Project Background and History	I-2
Corridor Setting	I-2
Planning Context	I-2
Programmed Improvements	I-4
Project Changes	I-4
Express Toll Lanes	I-5
Residential Displacement Minimization	I-5
Interchanges	I-5
Collector-Distributor (CD) Roadways	I-5
Transit Element Changes	I-5
Need for Transportation Improvements	I-5
Regional Population and Employment Growth Update	I-5
Traffic Growth Update	I-6
Transit Demand Update	I-6
Current Transit Services	I-6
Current and Future Transit Market	I-7
Transit Market Share by District	I-8
Transit Trip Growth by District	I-10
Reverse Commuting	I-10
Intermodal Connectivity and Land Use	I-10
Transit Connectivity	I-10
ETL System Connectivity	I-11
Pedestrian/Bicycle Connectivity	I-11
Transit-Supportive Land Use	I-11
Chapter II – Alternatives Considered	
Introduction	II-1
Highway Improvement Descriptions	II-1
Transit Improvement Descriptions	II-2
Alternatives	II-2
Alternatives Evaluated in the 2002 DEIS	II-2

TABLE OF CONTENTS	PAGES
Alternative 1: No-Build Alternative	II-2
Alternative 2: TSM/TDM Alternative	II-2
Alternatives 3A and 3B	II-2
Alternatives 4A and 4B	II-7
Alternatives 5A, 5B and 5C	II-7
New Alternatives Being Evaluated for the Environmental Assessment	II-7
Alternatives 6A and 6B	II-7
Alternatives 7A and 7B	II-12
New Alternatives Being Evaluated for the Alternatives Analysis	II-12
Alternative 6.1: No-Build Transit	II-12
Alternative 6.2: Transit TSM	II-12
Chapter III – Transportation Facilities, Services and Mobility Impacts	
Purpose	III-1
Public Transportation	III-1
Existing Conditions	III-1
Proposed Transit Improvements	III-2
Service Quality	III-2
Feeder Bus Service	III-2
Travel Times	III-2
Build Alternatives	III-2
Daily Ridership	III-3
Transit Demand by Station	III-3
Transit User Benefits	III-3
Roadway Network Effects	III-4
Traffic Analysis	III-4
Traffic Operations for No-Build Conditions	III-4
Traffic Operations for 2030 Build Alternatives	III-4
Alternatives 6A/B	III-4
Alternatives 7A/B	III-4
Park and Ride Lots and Transit Station Parking	III-5
Park and Ride Lots	III-5
Transit Station Parking	III-5
Highway Conclusions	III-6
Multi-Modal Conclusions	III-6

TABLE OF CONTENTS	PAGES
Chapter IV – Environmental Resources and Consequences	
A. Land Use, Zoning and Future Development	IV-1
Existing Conditions	IV-1
Existing Land Use	IV-1
Montgomery County	IV-1
Frederick County	IV-1
Zoning	IV-1
Montgomery County	IV-1
Frederick County	IV-7
Planned and Programmed Development	IV-7
Smart Growth Initiatives and Long-Range Plans	IV-7
Smart Growth Initiatives	IV-7
Montgomery County Plans	IV-7
Frederick County Plans	IV-13
Farmland	IV-13
Impacts and Mitigation	IV-13
Existing Land Use	IV-13
Planned and Programmed Development	IV-14
Consistency with Smart Growth Initiatives and Long Range Plans	IV-14
Active Farmlands	IV-14
B. Social Environment	IV-14
Population and Households	IV-14
Metropolitan Washington Region	IV-16
Montgomery County	IV-16
Frederick County	IV-16
Elderly and Disability Population Characteristics	IV-16
Neighborhoods and Communities	IV-17
Existing Conditions	IV-17
Montgomery County	IV-17
Frederick County	IV-17
Impacts and Mitigation	IV-17
Alternative 1: No-Build Alternative	IV-17
Alternatives 6A/B and 7A/B	IV-17
Community Facilities and Services	IV-23
Existing Conditions	IV-23
Impacts and Mitigation	IV-23
Alternative 1: No-Build Alternative	IV-23
Alternatives 6A/B and 7A/B	IV-23



TABLE OF CONTENTS	PAGES
Parks and Recreational Facilities	IV-29
Existing Conditions	IV-29
Montgomery County.....	IV-29
Frederick County	IV-29
Impacts and Mitigation	IV-29
Displacements and Relocations	IV-30
Relocation Process	IV-30
Title VI Statement	IV-31
Environmental Justice	IV-31
Method for Identifying EJ Populations.....	IV-31
EJ Populations	IV-32
Method for Assessing EJ Impacts	IV-33
EJ Impacts and Mitigation.....	IV-33
Alternative 1: No-Build Alternative	IV-33
Alternatives 6A/B and 7A/B.....	IV-33
Effects on Displacements and Relocation in EJ Areas	IV-33
Highway Alignment	IV-33
Transitway Alignment.....	IV-35
Effects on Community Cohesion and Access in EJ Areas.....	IV-35
Effects on Economic Activity in EJ Areas	IV-35
Effects on Visual Conditions in EJ Areas	IV-36
Effects of Noise and Vibration in EJ Areas.....	IV-36
Highway Alignment	IV-36
Transitway Alignment.....	IV-36
Effects on Traffic and Transportation in EJ Areas.....	IV-36
Highway Alignment	IV-36
Transitway Alignment.....	IV-37
Mitigation Measures	IV-37
Conclusion.....	IV-37
Public Involvement.....	IV-37
C. Economic Environment	IV-38
Current Economic Profile of the Project Area	IV-38
Montgomery County	IV-38
Frederick County	IV-38
Major Employment Centers in the Project Area	IV-38
Economic Impacts	IV-38
Accessibility	IV-38
Impacts to Consumers	IV-39
Impacts to Businesses.....	IV-39
Impacts to Workers.....	IV-39
Impacts to Local Governments	IV-39

TABLE OF CONTENTS	PAGES
D. Cultural Resources	IV-40
Regulatory Framework and Methodology	IV-40
Existing Historic and Archeological Resources	IV-40
Additional Historic Properties Evaluated	IV-46
Additional Properties Evaluated for Eligibility in the NRHP	IV-46
Impacts and Mitigation Measures	IV-47
Archeological Resources	IV-47
E. Section 4(f) Summary	IV-48
Regulatory Framework and Methodology	IV-48
Section 4(f) Properties	IV-48
Publicly-Owned Public Parks and Recreation Areas	IV-48
Section 4(f) Uses	IV-59
Avoidance Analysis	IV-59
Least Overall Harm Analysis	IV-59
Consultation and Coordination	IV-61
F. Natural Environment	IV-62
Topography, Geology and Soils	IV-62
Existing Conditions	IV-62
Topography	IV-62
Geologic Formations	IV-62
Soils	IV-62
Prime Farmland Soils and Soils of Statewide Importance	IV-62
Impacts.....	IV-63
Topography	IV-63
Geology	IV-63
Soils	IV-63
Avoidance, Minimization and Mitigation.....	IV-69
Groundwater	IV-69
Existing Conditions	IV-69
Impacts and Avoidance/Minimization Efforts	IV-69
Surface Waters	IV-69
Major Streams/Hydrology	IV-69
Existing Conditions	IV-69
Impacts	IV-69
Avoidance, Minimization and Mitigation	IV-69
Surface Water Quality	IV-69
Existing Conditions	IV-69
Impacts	IV-70
Avoidance, Minimization and Mitigation	IV-70
Scenic and Wild Rivers	IV-70

TABLE OF CONTENTS	PAGES
Floodplains	IV-70
Existing Conditions	IV-70
Impacts	IV-70
Avoidance, Minimization and Mitigation.....	IV-70
Waters of the US including Wetlands	IV-70
Existing Conditions	IV-70
Impacts.....	IV-71
Avoidance, Minimization and Mitigation.....	IV-71
Wetlands of Special State Concern	IV-71
Terrestrial Vegetation and Wildlife	IV-71
Existing Conditions	IV-71
Forests	IV-72
Impacts.....	IV-72
Avoidance, Minimization and Mitigation.....	IV-72
Aquatic Habitat/Species	VI-72
Existing Conditions	IV-72
Physical Habitat Assessment	IV-72
Aquatic Communities Assessment	IV-73
Impacts.....	IV-73
Avoidance and Minimization	IV-73
Rare, Threatened, and Endangered Species	IV-73
Existing Conditions	IV-73
Impacts	IV-73
Avoidance, Minimization and Mitigation.....	IV-73
G. Hazardous Materials	IV-74
Methods and Analyses	IV-74
Results and Recommendations	IV-74
H. Air Quality	IV-74
Regulatory Framework for Study Area Air Quality	IV-74
Regional Air Quality, Attainment Status and Regional Conformity.....	IV-74
Ambient Air Quality in the Study Area	IV-75
Pollutants for Analysis	IV-76
Regional Analysis	IV-76
Project Area Carbon Monoxide Assessment	IV-77
Particulate Matter (PM₁₀ and PM_{2.5})	IV-77
Analysis of MSAT	IV-78
MSAT Analysis Results	IV-79



TABLE OF CONTENTS	PAGES
I. Noise and Vibration	IV-79
Overview	IV-79
Highway Noise	IV-79
Highway Noise Criteria and Methodology	IV-79
Existing Highway Noise	IV-79
Traffic Noise Mitigation.....	IV-85
Transit Noise and Analysis	IV-86
Transit Noise Criteria and Methodology.....	IV-86
Existing Noise in the CCT Corridor	IV-86
Transit Noise Impacts.....	IV-86
Transit Noise Mitigation	IV-87
Vibration Analysis	IV-87
Vibration Criteria and Methodology.....	IV-87
Existing Vibration Environment	IV-87
Vibration Impacts and Mitigation	IV-87
J. Visual Quality	IV-88
Existing Visual Quality	IV-88
Visually Sensitive Areas.....	IV-88
Visual Impacts and Mitigation	IV-88
K. Construction and Operational Issues	IV-89
Construction Noise	IV-89
Construction Noise Sources	IV-89
WMATA Construction Noise Specifications.....	IV-89
Construction Techniques and Methods	IV-90
CCT Construction Noise Criteria	IV-90
CCT Construction Noise	IV-90
Noise Control Requirements	IV-90
Construction-Generated Vibration.....	IV-90
Vibration Prediction Methodology.....	IV-90
Source Vibration Levels for Construction Equipment	IV-90
Vibration Control Requirements	IV-91
Air Quality Construction Impacts	IV-91
Fugitive Dust Emissions	IV-91
Site Preparation.....	IV-91
Construction	IV-91
Post-Construction	IV-91
Mobile Source Emissions	IV-91
Transportation Management Plan.....	IV-91

TABLE OF CONTENTS	PAGES
L. Indirect and Cumulative Effects (ICE) Analysis	IV-92
Regulatory Framework and Analytical Methods	IV-92
Scoping.....	IV-92
ICE Analysis	IV-92
Past, Present and Future Land Use Conditions.....	IV-92
Population and Employment Growth Trends.....	IV-93
Transportation Improvements and Development Projects.....	IV-93
Results of the Analysis.....	IV-93
Indirect Impacts	IV-93
Cumulative Effects	IV-94
Conclusions	IV-94
M. Energy	IV-95
Impacts and Measures to Minimize Harm	IV-95
Direct Energy	IV-95
Indirect Energy	IV-95
Measures to Minimize Harm	IV-95
Chapter V – Transit Costs and Funding	
Capital Costs	V-1
Contingency.....	V-1
Professional Services	V-1
Capital Cost Assumptions.....	V-1
Capital Cost Estimates.....	V-2
Operations and Maintenance Costs	V-2
O&M Cost Assumptions	V-2
O&M Cost Estimates	V-2
Financial Strategy	V-3
Transit Funding in Maryland	V-3
Montgomery County Funding	V-5
Potential Private Sector Funding	V-5
Federal Aid.....	V-5
New Starts.....	V-5
Capital Funding Strategy	V-6
O&M Cost Funding Strategy	V-6
Conclusions	V-6

TABLE OF CONTENTS	PAGES
Chapter VI – Evaluation of Alternatives	
Introduction.....	VI-1
Role of the Federal New Starts Criteria.....	VI-1
Alternatives	VI-1
Effectiveness	VI-1
Goal 1: Support Orderly Economic Growth	VI-2
Goal 2: Enhance Mobility.....	VI-2
Transit.....	VI-2
Highway	VI-2
Goal 3: Improve Goods Movement.....	VI-3
Goal 4: Preserve the Environment.....	VI-3
Goal 5: Optimize Public Investment	VI-4
CCT and Bikeway Investment	VI-4
Highway Investment.....	VI-4
Development Impacts	VI-4
Comparative Environmental Effects.....	VI-4
Land Use and Zoning	VI-5
Displacements	VI-5
Neighborhoods and Social Environment	VI-5
Parkland and Other Community Facilities and Services	VI-5
Economic Environment and Development Potential.....	VI-5
Transit.....	VI-6
Highway	VI-6
Historic Resources	VI-6
Natural Environment	VI-6
Hazardous Materials/Waste Sites	VI-6
Air Quality.....	VI-6
Noise and Vibration	VI-6
Transit.....	VI-6
Highway	VI-6
Energy	VI-6
Visual and Aesthetic Quality	VI-7
Transit.....	VI-7
Highway	VI-7
Indirect and Cumulative Effects (ICE) Analysis.....	VI-7
Cost and Financial Feasibility	VI-7
Capital Costs.....	VI-7
Financial Feasibility	VI-7
Transit.....	VI-8
Operations & Maintenance Funding for Transit	VI-8
Highway	VI-8
Cost-Effectiveness.....	VI-8



TABLE OF CONTENTS	PAGES
Transit Cost-Effectiveness	VI-8
FTA Cost-Effectiveness Assessment.....	VI-8
Highway Cost-Effectiveness	VI-8
Equity Considerations.....	VI-9
Service Equity.....	VI-9
Transit.....	VI-9
Highway	VI-9
Financial Equity	VI-9
Environmental Justice.....	VI-10
O&M Facilities Sites.....	VI-10
Development Impacts	VI-10
Key Differentiators	VI-10
Consistency with Local Planning Documents and Public Input	VI-11
Relevant to Purpose and Need Goal 1	VI-11
Transportation Effectiveness.....	VI-11
Relevant to Purpose and Need Goal 2 and Goal 3.....	VI-11
Environmental Impacts	VI-11
Relevant to Purpose and Need Goal 4	VI-11
Costs/Cost-Effectiveness/Financial Feasibility	VI-11
Relevant to Purpose and Need Goal 5.....	VI-11
 Chapter VII – Comments and Coordination	
Summary of Public Hearings & Express Toll Lanes	
Workshops	VII-1
2002 Public Hearings on the Draft Environmental	
Impact Statement	VII-1
Citizen Comments	VII-1
Highway-Related Comments	VII-1
Transit-Related Comments.....	VII-5
Government Agency Comments.....	VII-6
2004 Express Toll Lane Public Workshops	VII-7
Summary of Additional Public Involvement	VII-8
General Public and Community Briefings	VII-8
Project Newsletters and Media Outreach.....	VII-10
Interagency Coordination.....	VII-10
July 17, 2002 Interagency Review Meeting	VII-10
Issues Discussed	VII-10
June 16, 2004 Interagency Review Meeting	VII-10
Issues Discussed	VII-10
August 18, 2004 Interagency Review Meeting	VII-10
Issues Discussed	VII-11
September 15, 2004 Interagency Review Meeting	VII-11
August 16, 2006 Interagency Review Meeting	VII-11

TABLE OF CONTENTS	PAGES
Coordination with Local Agencies & Elected Officials.....	VII-11
Focus Group Meetings	VII-13
 Appendices	
Appendix A: Plan Sheets	
Appendix B: Summary of the Relocation Assistance	
Program of the Maryland State Highway	
Administration	
Appendix C: Farmland Conversion Coordination	
Appendix D: List of Correspondence	
Appendix E: References	
Appendix F: Contributors	



TABLES	PAGES
Table S-1: Transportation Impacts on Level of Service in 2030	S-5
Table S-2: Summary of Impacts of All Build Alternatives.....	S-6
Table S-3: Summary of Impacts of the Potential O&M Sites	S-7
Table S-4: Regional and County Population and Households, 2000 to 2030	S-7
Table S-5: Summary of Natural Resources Impacts	S-12
Table S-6: Summary of Natural Resources Impacts of the O&M Facilities	S-12
Table S-7: Permits Required	S-15
Table S-8: Summary of Capital Cost Estimates by Alternative	S-16
Table S-9: Annual O&M Costs by Transit Alternative	S-17
Table S-10: Cost-Effectiveness	S-17
Table S-11: Programmed Transportation Improvements in the Study Area	S-18
Table I-1: Transportation Improvements Programmed for I-270/US 15 Corridor included in 2030 Forecasts	I-4
Table I-2: Demographic Forecasts.....	I-5
Table I-3: Average Daily Traffic Volumes and Level of Service	I-6
Table I-4: Current Transit Ridership	I-7
Table I-5: Transit Share of All Trips by District of Origin	I-9
Table I-6: Transit Share of All Trips by Destination District	I-9
Table I-7: Transit Share of Commuter Trips by District of Origin.....	I-9
Table I-8: Transit Share of Commuter Trips by Destination District	I-9
Table I-9: Growth in Transit Trip Share of All Trips by Origin District...	I-10
Table II-1: Alternatives Retained in the 2002 DEIS.....	II-2
Table II-2: Alternatives Considered for the EA Analysis	II-7
Table II-3: Alternatives Considered in the AA.....	II-12
Table II-4: 2030 No-Build Transit Service	II-13
Table II-5: Alternative 6.2: Transit TSM Additions to No-Build Transit Service.....	II-14
Table III-1: Existing Transit Service	III-1
Table III-2: Transit Service Hours of Operation.....	III-2
Table III-3: Transit Service Headways	III-2
Table III-4: Sample Station to Station Travel Times in 2030	III-3
Table III-5: CCT Transitway Ridership.....	III-3
Table III-6: Daily CCT Station Boardings.....	III-3
Table III-7: Daily and Annual User Benefit Hours.....	III-3
Table III-8: 2030 No-Build and Build Alternatives Peak Hour Mainline LOS and Volume to Capacity (V/C) Ratios Along I-270 and US 15	III-5
Table III-9: Transit Station Parking Requirements.....	III-6
Table III-10: I-270/US 15 Level of Service Improvements.....	III-6
Table IV-1: Future Planned and Programmed Developments in the I-270/US 15 Corridor in Montgomery County.....	IV-7

TABLES	PAGES
Table IV-2: Future Planned and Programmed Developments in the I-270/US 15 Corridor in Frederick County	IV-7
Table IV-3: Priority Funding Areas (PFAs) in the I-270/US 15 Corridor ...	IV-7
Table IV-4: Population and Household Characteristics	IV-14
Table IV-5: General Race Characteristics and Median Household Income	IV-16
Table IV-6: 2000 Elderly and Disability Population Characteristics	IV-16
Table IV-7: New Subdivisions in the I-270/US 15 Corridor in Montgomery County 2002-2006.....	IV-17
Table IV-8: Newly Built, Planned, or Programmed Community Facilities in the I-270 Corridor	IV-23
Table IV-9: Parks and Recreational Facilities within the Project Study Area	IV-29
Table IV-10: Impacts to Parks and Recreational Facilities	IV-29
Table IV-11: Summary of Residential Displacements – Alternatives 6A/B and 7A/B	IV-30
Table IV-12: Summary of Business Displacements – Alternatives 6A/B and 7A/B	IV-31
Table IV-13: Study Area Block Groups that Meet EJ Threshold for Minority Populations.....	IV-32
Table IV-14: Study Area Block Groups that Met EJ Threshold for Low-Income Populations	IV-32
Table IV-15: Block Groups within Impact Analysis Area that Met EJ Thresholds for Minority Populations.....	IV-33
Table IV-16: Comparison of the Build Alternatives and Their Relative Impacts for the Different Economic Impact Categories	IV-39
Table IV-17: Adverse Effects of Alternatives 6A/B and 7A/B	IV-47
Table IV-18: Section 4(f) Parks and Recreation Areas Impacted by Alternatives 6A/B and 7A/B	IV-49
Table IV-19: Historic Resources Impacted by Alternatives 6A/B and 7A/B ..	IV-57
Table IV-20: Comparison of All Build Alternatives	IV-60
Table IV-21: Preliminary Least Overall Harm Analysis	IV-61
Table IV-22: Section 106/Section 4(f) Coordination Meetings.....	IV-62
Table IV-23: Summary of Natural Resource Impacts of Alternatives 6A/B and 7A/B	IV-63
Table IV-24: Summary of Natural Resource Impacts of the Potential O&M Sites	IV-63
Table IV-25: Comparison of Farmland Soils Impacts	IV-63
Table IV-26: Summary of Highway and Transitway Wetland and Waterway Impacts.....	IV-71
Table IV-27: National Ambient Air Quality Standards	IV-75
Table IV-28: Project Area Ambient Air Quality Summary, 2003-2005	IV-75
Table IV-29: Regional Pollutant Burden.....	IV-76
Table IV-30: Air Quality Analysis Sites.....	IV-77
Table IV-31: Noise Abatement Criteria for Highway Projects	IV-79

TABLES	PAGES
Table IV-32: SHA Criteria for Determination of Feasibility and Reasonableness of Noise Abatement	IV-85
Table IV-33: FTA Guidelines Land Use Categories and Metrics for Transit Noise	IV-86
Table IV-34: Noise Levels from Two-Car Trains Operating on Yard Tracks	IV-87
Table IV-35: FTA Ground-borne Vibration Impact Criteria	IV-87
Table IV-36: Construction Equipment Noise Emission Levels	IV-89
Table IV-37: WMATA Construction Noise Specifications	IV-89
Table IV-38: Intermittent Noise.....	IV-89
Table IV-39: Noise Emission Limits on Construction Noise	IV-90
Table IV-40: Source Levels for Construction Equipment Vibration	IV-91
Table IV-41: Predicted 2030 Transportation Energy Usage within Study Corridor	IV-96
Table IV-42: Predicted 2030 Regional Transportation Energy Usage	IV-96
Table IV-43: Indirect Energy Consumption	IV-96
Table V-1: Alternatives Capital Cost Estimate.....	V-2
Table V-2: Annual Change in Operating Characteristics	V-3
Table V-3: Annual O&M Costs by Alternative	V-3
Table VI-1: New Starts Criteria.....	VI-1
Table VI-2: Alternatives.....	VI-1
Table VI-3: Ridership, User Benefit Hours, and Annual New Transit Trips.....	VI-2
Table VI-4: I-270/US 15 Level of Service Improvements	VI-3
Table VI-5: Displacements Summary.....	VI-5
Table VI-6: O&M Facility Displacements	VI-5
Table VI-7: Estimated Capital Costs	VI-7
Table VI-8: Annual Estimated Transit O&M Costs	VI-7
Table VI-9: FTA FY 2009 Cost-Effectiveness Breakpoints	VI-8
Table VI-10: Cost-Effectiveness	VI-9
Table VI-11: Evaluation Matrix	VI-10
Table VII-1: Summary of Written Comments Received at the Public Hearings	VII-1
Table VII-2: Summary of Written Comments Received at the ETL Public Workshops.....	VII-7



FIGURES	PAGES
Figure S-1: Project Area.....	S-1
Figure I-1: Project Study Area.....	I-1
Figure I-2: Montgomery County Districts.....	I-8
Figure II-1: Alternatives 3A/B 4A/B, and 5A/B/C 2002 DEIS.....	II-3
Figure II-2: Corridor Cities Transitway and Potential O&M Sites	II-5
Figure II-3: Alternatives 6A/B, 7A/B.....	II-8
Figure II-4: Alternatives 6A & 7A Bus Service for LRT Mode	II-10
Figure II-5: Alternatives 6B & 7B Bus Service for BRT Mode.....	II-11
Figure II-6: Alternative 6.2: Transit TSM Bus Service	II-15
Figure IV-1: Land Use	IV-2
Figure IV-2: Pipeline Projects in the I-270/US 15 Corridor.....	IV-8
Figure IV-3: Priority Funding Areas	IV-13
Figure IV-4: 2000 Census Tracts and Block Groups	IV-15
Figure IV-5: Neighborhoods and Communities in the Study Area.....	IV-18
Figure IV-6: Community Facilities and Services	IV-24
Figure IV-7: EJ Threshold Block Groups within 1000-foot Highway & CCT Buffer	IV-34
Figure IV-8: Historic Resources	IV-41
Figure IV-9: Section 4(f) Resources.....	IV-50
Figure IV-10: Prime Farmland Soils and Soils of Statewide Importance ..	IV-64
Figure IV-11: Air Quality Monitors Within the DC-VA-MD Area	IV-76
Figure IV-12: Relative Particulate Matter Size	IV-77
Figure IV-13: PM _{2.5} Emission Trends	IV-78
Figure IV-14: Vehicle Miles Traveled versus Mobile Source Air Toxics	IV-79
Figure IV-15: Noise and Vibration Monitoring Sites and Noise Analysis Results	IV-80
Figure IV-16: ICE Boundary.....	IV-92
Figure IV-17: Energy Consumption by Sector	IV-95
Figure IV-18: Transportation Energy Consumption by Energy Source	IV-95
Figure V-1: Transportation Trust Fund Overview	V-4
Figure V-2: 1998-2007 Transportation Trust Fund Revenue.....	V-4