



## COMMONWEALTH of VIRGINIA

### DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

Fax (804) 698-4500 TDD (804) 698-4021

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L. Preston Bryant, Jr.  
Secretary of Natural Resources

David K. Paylor  
Director

(804) 698-4000  
1-800-592-5482

December 17, 2007

Ms. Judith M. Katz  
Air Protection Division Director  
US EPA - Region III (3AP00)  
1650 Arch Street  
Philadelphia, PA 19103-2029

Dear Judy:

The purpose of this letter is to provide the air quality and program documentation required to make an affirmative clean air determination for the Roanoke area under the EPA Early Action Compact (EAC) program for the 8-hour ozone National Ambient Air Quality Standard (NAAQS). The necessary documentation was identified in your September 13, 2008 on this subject.

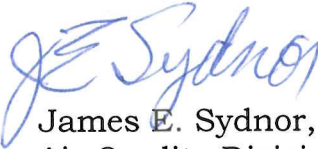
In order to provide the necessary quality assured and certified air quality data, the VADEQ Division of Air Quality has completed the early certification of all 2007 ozone data from monitors in Virginia that are owned and operated by the Department. This certification and supporting reports are being submitted to you under a separate cover letter, and a data summary is provided in Enclosure I. Based on this certified data and using EPA approved calculation methodologies, the official 8-hour ozone design value for the Roanoke area during the 2005 to 2007 period is 0.076 parts per million (ppm). Therefore, this area has demonstrated full compliance with the ozone NAAQS by the December 31, 2007 milestone date.

According to the previously approved State Implementation Plan (SIP) for the Roanoke area, a number of actions and measures were identified as part of a comprehensive air quality improvement plan. At this time, we reaffirm that the Commonwealth and the local jurisdictions involved have fully implemented all the measures contain in the early action SIP. A summary of these measures is provided in Enclosure II for further documentation.

Ms. Judith M. Katz  
December 17, 2007  
Page 2 of 2

Thank you again for the opportunity to participate in this innovative and successful program, and for your support in achieving the desired outcome. We look forward to the formal EPA action and attainment determination for this area. If you have any question or need additional information on this submittal, please contact Tom Ballou of my staff at (804) 698-4406 or at [trballou@deq.virginia.gov](mailto:trballou@deq.virginia.gov).

Sincerely,

A handwritten signature in blue ink that reads "J E Sydnor". The signature is written in a cursive style with a large initial "J" and "E".

James E. Sydnor, Director  
Air Quality Division

Enclosures

## ENCLOSURE I

### Virginia Department of Environmental Quality 2005-2007 Fourth Highest Daily Maximum Ozone 8-hour Averages Units, ppm

Monitoring Sites	AIRS ID	2005	2006	2007	3-year average
Wythe Co.	511970002	0.075	0.069	0.072	0.072
Rockbridge Co.	511630003	0.074	0.068	0.065	0.069
Page Co.	511390004	0.077	0.073	0.069	0.073
Fauquier Co.	510610002	0.073	0.076	0.069	0.072
Caroline Co.	510330001	0.082	0.085	0.078	0.081
Rockingham Co.	511650003	NA	NA	0.069	NA
<b>Roanoke EAC Area:</b>					
Roanoke Co.	511611004	0.076	0.076	0.076	0.076
<b>Frederick County EAC Area:</b>					
Frederick Co.	510690010	0.075	0.074	0.072	0.073
<b>Richmond Area:</b>					
Chesterfield Co.	510410004	0.078	0.077	0.077	0.077
Henrico Co.	510870014	0.084	0.086	0.085	0.085
Hanover Co.	510850003	0.083	0.082	0.079	0.081
Charles City Co.	510360002	0.083	0.081	0.084	0.082
<b>Hampton Roads Area:</b>					
Hampton	516500004	0.078	0.076	0.076	0.076
Suffolk - TCC	518000004	0.077	0.077	0.076	0.076
Suffolk - Holland	518000005	0.078	0.071	0.078	0.075
<b>Fredericksburg Area:</b>					
Stafford Co.	511790001	0.079	0.091	0.085	0.085
<b>Northern Virginia Area:</b>					
Loudoun Co.	511071005	0.077	0.084	0.086	0.082
Prince William Co.	511530009	0.074	0.086	0.076	0.078
Arlington Co.	510130020	0.088	0.085	0.088	0.087
Alexandria	515100009	0.081	0.084	0.084	0.083
Fairfax Co. - Lee Park	510590030	0.088	0.087	0.085	0.086



Early Action Compacts December Progress Summary Table

A. Control Measure	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
<b>31 Roanoke area, VA (Effective date of nonattainment designation deferred)</b>							
Reduce locomotive idling	Reduction of locomotive idling by the Norfolk Southern Railway Co.	Measure has been fully implemented at this time - <b>Completed</b>	May-05	0	0.153 TPD		
Limit idling-school buses	Limit on idling times for school buses through internal policy and management	Measure has been fully implemented at this time - <b>Completed</b>	May-05	0	0.003 TPD		
Retrofit 100 school buses-oxidation catalyst	Retrofit of 100 school buses in Roanoke County	<b>Completed</b>	July, 2004	0.586 TPY	1.67 TPY	144,000	
Retrofit 102 school buses-oxidation catalyst	Retrofit of 119 school buses in Roanoke City - Purchase of 21 new buses with controls	<b>Completed</b>	July, 2004	NQ	NQ	124,000 - retrofits only	
Bio-diesel solid waste trucks-purchased	Purchase of bio-diesel trucks by Roanoke City	In 2003 the City of Roanoke began purchasing bio-diesel solid waste trucks. Five trucks have been purchased as of June 2006 - <b>Completed.</b>	2003 - Ongoing	0	0.27 TPY		
Ethanol alternative fuel vehicles	Purchase of ethanol alternative vehicles by Roanoke City	A total of 22 alternative fuel vehicles have been purchased by the City of Roanoke. An additional 7-10 vehicles will be purchased during the current fiscal year - <b>Completed</b>	2003 - Ongoing	NQ	NQ		
Biodiesel ready trucks	Purchase of bio-diesel trucks by Roanoke City	9 new trucks purchased since 2003. Additional 12 trucks to be purchased - <b>Completed</b>	2003 - Ongoing	NQ	NQ		
Hybrid vehicles	Purchase of hybrid vehicles by Roanoke City	Four hybrid vehicles purchased - <b>Completed</b>	Jun-05	<0.001 TPD	<0.001 TPD		
Low emissions vehicles	Purchase of low emissions vehicles	Seven vehicles purchased - <b>Completed</b>	Jun-05	<0.001 TPD	<0.001 TPD		
Implement effective environmental driving	Develop training materials and video on air quality	300 Roanoke County employees trained. Video Developed and used extensively - <b>Completed</b>	Nov-05	NQ	NQ		
Public education: Air Quality Action Day	An area-wide program of mandatory and voluntary actions to reduce ozone precursor emissions during predicted high ozone days	Program fully implemented - <b>Completed</b>	May-05	NQ	NQ	0.5 FTE	
Timing of refueling vehicles	Local and state commitments to limit refueling of vehicles during the ozone season. 14 private companies also participating in this program	Program fully implemented - <b>Completed</b>	May-05	NQ	NQ		
Promote alternative fuel vehicles	Promotion of alternative fuel vehicles as part of overall emission reduction program - web based	Program fully implemented - <b>Completed</b>	2005 - Ongoing	NQ	NQ		
Media/public relations program	Public outreach and information program to educate and inform public on air quality issues and specific ozone action days - 13 media outlets participating	Program fully implemented - <b>Completed</b>	Jun-05	NQ	NQ		
Public transit incentives	Overall program to promote the use of various transit options	300 free bus passes distributed, 361 discount summer youth pass distributed. A substantial increase in transit ridership is continuing and documented - <b>Completed</b>	May-05	NQ	NQ		
Bike Infrastructure and Amenities	Overall program to promote bicycle usage	Regional plan developed and currently being implemented - <b>Completed</b>	2005 - Ongoing	NQ	NQ		
Expand public education program	Outreach program to K-12 classes. Outreach to daycare, preschools, and summer camps	Materials produced and class arrangements being made. 50 participating daycares, preschools, and camps - <b>Completed</b>	2005 - Ongoing	NQ	NQ		
Tree planting program	Program to plant trees for environmental purposes	Implemented on an ongoing basis - <b>Completed</b>	2005 - Ongoing	NQ	NQ		
Mass transit to Blacksburg	Bus service between Roanoke and Blacksburg	Ridership is averaging about 3,000 per month during the Feb to May 2007 period - <b>Completed</b>	2004 - Ongoing	0.009 TPD	0.004 TPD	950,000	
Replace gas golf carts w/electric	Purchase/use electric golf carts at local courses	Implementation ongoing - <b>Completed</b>	End of 2005		0.061 TPY		
Replace gas mowers w/electric	Program to purchase new or electric lawn mowers	Five lawn mower sales and recycling centers currently participating in this program - <b>Completed</b>	2005 - Ongoing	0.017 TPD	0.001 TPD		
Open burning ban -expanded	Restriction of open burning on an episodic and/or seasonal basis	Program fully implemented - <b>Completed</b>	May-05	0.56 TPD	0.24 TPD		
Mandatory Restriction lawn equipment usage during ozone action days	Mandatory restriction of landscaping activities by local and state agencies during high ozone days	Program fully implemented - <b>Completed</b>	May-05	0.366 TPD	0.094 TPD		
Voluntary Private Sector Restriction lawn equipment usage during ozone action days	Voluntary restriction of landscaping activities by businesses and residents during high ozone days	Program fully implemented - <b>Completed</b>	May-05	0.072 TPD	0.016 TPD		
Cradle to Cradle Design Competition	Design and construction of environmentally friendly houses	Eight houses designed and slated for construction. Arrow/Rife House constructed - <b>Completed</b>	2005 - Ongoing	NQ	NQ		
Regional Reduction in NOx emissions	Regional program to reduce ozone transport by reducing NOx emissions from power plants	Fully implemented by state regulation during 2004 ozone season - <b>Completed</b>	May 31, 2004	NQ	NQ		
National Low Emission Vehicle Program	Requirement for the sale of low emissions vehicles	Program fully implemented by state regulation - <b>Completed</b>	1999	NQ	NQ		
Stage1 Vapor Recovery	Requirement for use of Stage I vapor recovery equipment at gasoline service stations	Fully implemented in Roanoke County, and the Cities of Roanoke and Salem - <b>Completed</b>	May-04	640.9 TPY	NA		

Early Action Compacts December Progress Summary Table

A. Control Measure	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
CTG RACT – CTG VOC RACT and NOx RACT	Expansion of existing source VOC control regulations and non-CTG RACT for major NOX sources	Fully implemented region-wide by state regulation - Completed	Nov-05	355.5 TPY	288.4 TPY		
State Cutback Asphalt Regulation	Restriction on the use of cutback asphalt	Fully implemented by state regulation - Completed	Nov-05	1.75 TPY	NA		
Enhanced Ozone Forecasting tool	Preparing daily ozone forecasts during the ozone	Program is fully implemented - Completed	May-05	NQ	NQ	70,000 & 1 FTE	
<b>Comments:</b>							



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L. Preston Bryant, Jr.  
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(804) 698-4000  
1-800-592-5482

December 17, 2007

Mr. Walter Wilkie  
U.S. EPA Region III  
1650 Arch Street  
Mail Code: 3AP22  
Philadelphia, PA 19103-2029

Dear Mr. Wilkie:

The 2007 ambient ozone concentration and quality assurance data collected by the Virginia Department of Environmental Quality have been submitted to AQS, and the ambient concentration data are accurate to the best of my knowledge, taking into consideration the quality assurance findings. All data were collected using EPA-approved methods and procedures.

Copies of the AMP450 and AMP255 reports for these data are enclosed. If you have any questions, please contact Chuck Turner at (804) 527-5178 or [clturner@deq.virginia.gov](mailto:clturner@deq.virginia.gov).

Sincerely,

A handwritten signature in cursive script that reads 'J.E. Sydnor'.

James E. Sydnor  
Director, Air Quality Division

Enclosures

cc: Pauline Devose, EPA Region III

User ID: SQW

QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 488857

Report Code: AMP450

Dec. 11, 2007

GEOGRAPHIC SELECTIONS

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	51			44201										2007	2007

SELECTED OPTIONS

Option Type	Option Value
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	COUNTY_CODE
4	SITE_ID
5	POC
6	DATES
7	EDT_ID

SCR GROUP SELECTIONS

VIRGINIA
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
QUICK LOOK REPORT (AMP450)

Dec. 11, 2007

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

Note: The \* indicates that the mean does not satisfy summary criteria.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Dec. 11, 2007

Ozone (44201)

Virginia

Parts per million (007)

1-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	VALID	NUM	1ST	2ND	3RD	4TH	DAY	EST	MISS	CERT	EDT
								DAYS	DAYS	MAX	MAX	MAX	MAX	MAX>=	DAYS>=	DAYS<		
51-013-0020	1	1127	Not in a city	Arlington	S 18TH AND HAYES ST	2007	047	213	214	.110	.108	.103	.102	0	0.0	1	0	
51-033-0001	1	1127	Not in a city	Caroline	U.S. GEODETIC SURVEY, OFF RT.2, CORBIN	2007	047	213	214	.102	.097	.095	.089	0	0.0	1	0	
51-036-0002	1	1127	Not in a city	Charles	SHIRLEY PLANTATION, ROUTE 5	2007	047	214	214	.105	.103	.099	.097	0	0.0	0	0	
51-041-0004	1	1127	Not in a city	Chesterfield	BEACH, INTERSECT ION OF CO.ROADS 655 & 654	2007	047	213	214	.093	.091	.090	.084	0	0.0	1	0	
51-059-0030	1	1127	Franconia	Fairfax	STA. 46-B9, LEE PARK, TELEGRAPH ROAD	2007	047	213	214	.108	.104	.103	.098	0	0.0	1	0	
51-061-0002	1	1127	Not in a city	Fauquier	RT651 C PHELPS WILDLIFE MANAGEMENT AREA	2007	047	212	214	.079	.075	.075	.074	0	0.0	2	0	
51-069-0010	1	1127	Not in a city	Frederick	RTE 669, BUTLER MANUF. CO NEAR REST VA	2007	047	213	214	.087	.086	.086	.084	0	0.0	1	0	
51-085-0003	1	1127	Not in a city	Hanover	7345 MCCLELLAN RD MECHANICSVILLE VA	2007	047	210	214	.118	.104	.101	.098	0	0.0	2	0	
51-087-0014	1	1127	Not in a city	Henrico	2401HARTMAN STREET MATH & SCIENCE CTR	2007	047	213	214	.114	.108	.103	.098	0	0.0	1	0	
51-107-1005	1	1127	Not in a city	Loudoun	38-I, BROAD RUN HIGH SCHOOL, ASHBURN	2007	047	214	214	.112	.104	.094	.094	0	0.0	0	0	
51-139-0004	1	1127	Not in a city	Page	LURAY CAVERNS AIRPORT, ROUTE 647	2007	047	206	214	.088	.079	.078	.076	0	0.0	0	0	

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Dec. 11, 2007

Ozone (44201)

Virginia

Parts per million (007)

1-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	VALID	NUM	1ST	2ND	3RD	4TH	DAY	EST	MISS	CERT	EDT
								DAYS	DAYS	MAX	MAX	MAX	MAX	MAX>/=	DAYS>/=	DAYS<		
51-153-0009	1	1127	Not in a city	Prince William	JAMES S. LONG PARK	2007	047	209	214	.093	.093	.092	.089	0	0.0	1	0	
51-161-1004	1	1127	Vinton	Roanoke	EAST VINTON ELEMENTARY SCHOOL	2007	047	184	214	.099	.094	.091	.086	0	0.0	1	0	
51-163-0003	1	1127	Not in a city	Rockbridge	21-C, GLENWOOD- PEDLAR DISTRICT RANGER STA	2007	047	207	214	.091	.083	.073	.073	0	0.0	1	0	
51-165-0003	1	1127	Not in a city	Rockingham	VDOT RESIDENCY SHOP, 3536 NORTH VALLEY PIKE, HARRISONBURG, VA	2007	047	213	214	.097	.082	.082	.080	0	0.0	1	0	
51-179-0001	1	1127	Not in a city	Stafford	WIDEWATER ELEM. SCH., DEN RICH ROAD	2007	047	212	214	.109	.103	.102	.097	0	0.0	2	0	
51-197-0002	1	1127	Not in a city	Wythe	16-B RURAL RETREAT SEWAGE DISPOSAL	2007	000	214	214	.085	.081	.075	.075	0	0.0	0	0	
51-510-0009	1	1127	Alexandria	Alexandria City	517 N SAINT ASAPH ST, ALEXANDRIA HEALTH	2007	047	212	214	.105	.103	.100	.098	0	0.0	2	0	
51-650-0004	2	1127	Hampton	Hampton City	700 SHELL ROAD	2007	047	213	214	.098	.093	.092	.091	0	0.0	1	0	
51-800-0004	1	1127	Suffolk	Suffolk City	TIDEWATER COMM. COLLEGE, FREDERIC CAMPUS	2007	047	208	214	.103	.097	.091	.090	0	0.0	2	0	
51-800-0005	1	1127	Suffolk	Suffolk City	TIDEWATER RESEARCH STATION, HARE ROAD	2007	047	214	214	.089	.086	.086	.085	0	0.0	0	0	

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Dec. 11, 2007

Ozone (44201)  
 8-HOUR

Virginia

Parts per million (007)

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID	NUM	1ST	2ND	3RD	4TH	DAY	CERT	EDT
									DAYS	DAYS	MAX	MAX	MAX	MAX	MAX		
51-013-0020	1	1127	Not in a city	Arlington	S 18TH AND HAYES ST	2007	047	100	213	214	.095	.088	.088	.088	8	0	
51-033-0001	1	1127	Not in a city	Caroline	U.S. GEODETIC SURVEY, OFF RT.2, CORBIN	2007	047	99	212	214	.086	.085	.079	.078	2	0	
51-036-0002	1	1127	Not in a city	Charles	SHIRLEY PLANTATION, ROUTE 5	2007	047	100	214	214	.090	.087	.085	.084	3	0	
51-041-0004	1	1127	Not in a city	Chesterfield	BEACH, INTERSECT ION OF CO.ROADS 655 & 654	2007	047	100	214	214	.094	.081	.081	.077	1	0	
51-059-0030	1	1127	Franconia	Fairfax	STA. 46-B9, LEE PARK, TELEGRAPH ROAD	2007	047	100	213	214	.094	.090	.088	.085	4	0	
51-061-0002	1	1127	Not in a city	Fauquier	RT651 C PHELPS WILDLIFE MANAGEMENT AREA	2007	047	99	212	214	.073	.070	.070	.069	0	0	
51-069-0010	1	1127	Not in a city	Frederick	RTE 669, BUTLER MANUF. CO NEAR REST VA	2007	047	99	212	214	.082	.074	.073	.072	0	0	
51-085-0003	1	1127	Not in a city	Hanover	7345 MCCLELLAN RD MECHANICSVILLE VA	2007	047	98	209	214	.097	.084	.084	.079	1	0	
51-087-0014	1	1127	Not in a city	Henrico	2401 HARTMAN STREET MATH & SCIENCE CTR	2007	047	99	211	214	.095	.089	.088	.085	4	0	
51-107-1005	1	1127	Not in a city	Loudoun	38-I, BROAD RUN HIGH SCHOOL, ASHBURN	2007	047	100	213	214	.091	.087	.087	.086	5	0	
51-139-0004	1	1127	Not in a city	Page	LURAY CAVERNS AIRPORT, ROUTE 647	2007	047	96	205	214	.074	.072	.071	.069	0	0	
51-153-0009	1	1127	Not in a city	Prince William	JAMES S. LONG	2007	047	97	207	214	.082	.078	.076	.076	0	0	

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 QUICK LOOK REPORT (AMP450)

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Ozone (44201)  
 8-HOUR

Virginia

Parts per million (007)

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID	NUM	1ST	2ND	3RD	4TH	DAY	CERT	EDT
									DAYS	DAYS	MAX	MAX	MAX	MAX	MAX>/=		
									MEAS	REQ	8-HR	8-HR	8-HR	8-HR	0.085		
51-161-1004	1	1127	Vinton	Roanoke	EAST VINTON ELEMENTARY SCHOOL	2007	047	86	183	214	.086	.079	.077	.076	1	0	
51-163-0003	1	1127	Not in a city	Rockbridge	21-C, GLENWOOD- PEDLAR DISTRICT RANGER STA	2007	047	96	206	214	.073	.070	.066	.065	0	0	
51-165-0003	1	1127	Not in a city	Rockingham	VDOT RESIDENCY SHOP, 3536 NORTH VALLEY PIKE, HARRISONBURG, VA	2007	047	99	211	214	.081	.072	.071	.069	0	0	
51-179-0001	1	1127	Not in a city	Stafford	WIDEWATER ELEM. SCH., DEN RICH ROAD	2007	047	99	212	214	.089	.088	.085	.085	4	0	
51-197-0002	1	1127	Not in a city	Wythe	16-B RURAL RETREAT SEWAGE DISPOSAL	2007	000	100	214	214	.077	.076	.072	.072	0	0	
51-510-0009	1	1127	Alexandria	Alexandria City	517 N SAINT ASAPH ST, ALEXANDRIA HEALTH	2007	047	99	212	214	.090	.085	.085	.084	3	0	
51-650-0004	2	1127	Hampton	Hampton City	700 SHELL ROAD	2007	047	98	210	214	.092	.086	.077	.076	2	0	
51-800-0004	1	1127	Suffolk	Suffolk City	TIDEWATER COMM. COLLEGE, FREDERIC CAMPUS	2007	047	97	208	214	.095	.085	.080	.076	2	0	
51-800-0005	1	1127	Suffolk	Suffolk City	TIDEWATER RESEARCH STATION, HARE ROAD	2007	047	100	214	214	.081	.079	.078	.078	0	0	

Note: The \* indicates that the mean does not satisfy summary criteria.

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Dec. 11, 2007

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
44201	000	MULTIPLE METHODS	MULTIPLE METHODS
44201	047	INSTRUMENTAL	ULTRA VIOLET

Note: The \* indicates that the mean does not satisfy summary criteria.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
QUICK LOOK REPORT (AMP450)

Dec. 11, 2007

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
1127	Virginia Department of Environmental Quality

Note: The \* indicates that the mean does not satisfy summary criteria.

Table PP. PQAQ, 2007:Q2-Q4.

Region	State	PQAQ	PQAQ Name
3	VA	745	National Park Service
3	VA	1127	Virginia Department of Environmental Quality

**Table E. Single Point Quality Check Completeness for O3, 2007:Q2-Q4.**

Region	State	PQAO	Monitor Type	Site ID	Start Date	End Date	Number Required	Number Submitted	Comp. %	% Sites <50% Complete
3	VA	745	N-EPA FEDEF	511130003	4/1/2007	10/31/2007	15	148	100	NA
3	VA	745	All - Other	NA	NA	NA	15	148	100	0
3	VA	1127	SLAMS	510130020	4/1/2007	10/31/2007	15	21	100	NA
3	VA	1127	OFFICIAL PA	510330001	4/1/2007	10/31/2007	15	25	100	NA
3	VA	1127	SLAMS	510360002	4/1/2007	10/31/2007	15	15	100	NA
3	VA	1127	SLAMS	510410004	4/1/2007	10/31/2007	15	19	100	NA
3	VA	1127	SLAMS	510590005	4/1/2007	10/31/2007	15	15	100	NA
3	VA	1127	SLAMS	510590018	4/1/2007	10/31/2007	15	14	93	NA
3	VA	1127	OFFICIAL PA	510590030	4/1/2007	10/31/2007	15	24	100	NA
3	VA	1127	SLAMS	510591005	4/1/2007	10/31/2007	15	14	93	NA
3	VA	1127	SLAMS	510595001	4/1/2007	10/31/2007	15	16	100	NA
3	VA	1127	SLAMS	510610002	4/1/2007	10/31/2007	15	19	100	NA
3	VA	1127	SLAMS	510690010	4/1/2007	10/31/2007	15	29	100	NA
3	VA	1127	SLAMS	510850003	4/1/2007	10/31/2007	15	16	100	NA
3	VA	1127	SLAMS	510870014	4/1/2007	10/31/2007	15	16	100	NA
3	VA	1127	SLAMS	511071005	4/1/2007	10/31/2007	15	21	100	NA
3	VA	1127	SLAMS	511390004	4/1/2007	10/31/2007	15	31	100	NA
3	VA	1127	SLAMS	511530009	4/1/2007	10/31/2007	15	20	100	NA
3	VA	1127	SLAMS	511611004	4/1/2007	10/31/2007	15	16	100	NA
3	VA	1127	SLAMS	511630003	4/1/2007	10/31/2007	15	30	100	NA
3	VA	1127	SLAMS	511650003	4/1/2007	10/31/2007	15	30	100	NA
3	VA	1127	SLAMS	511790001	4/1/2007	10/31/2007	15	18	100	NA
3	VA	1127	SLAMS	511970002	4/1/2007	10/31/2007	15	30	100	NA
3	VA	1127	SLAMS	515100009	4/1/2007	10/31/2007	15	27	100	NA
3	VA	1127	SLAMS	516500004	4/1/2007	10/31/2007	15	17	100	NA
3	VA	1127	SLAMS	518000004	4/1/2007	10/31/2007	15	17	100	NA
3	VA	1127	SLAMS	518000005	4/1/2007	10/31/2007	15	19	100	NA
3	VA	1127	All - NSP	NA	NA	NA	375	519	99	0

**Table F. Performance Evaluation Check Completeness for O3, 2007:Q2-Q4.**

Region	State	PQAO	Monitor Type	Site ID	Start Date	End Date	Number Required	Number Submitted	Comp. %	Tot. # of Sites	Audits in Quarters 1/2/3/4
3	VA	745	N-EPA FEDEF	511130003	4/1/2007	10/31/2007	1(3)	1(4)	100(100)	NA	NA
3	VA	745	All - Other	NA	NA	NA	3(9)	1(4)	100(100)	1	0/1/0/0
3	VA	1127	SLAMS	510130020	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	OFFICIAL PA	510330001	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510360002	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510410004	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510590005	4/1/2007	10/31/2007	1(3)	3(9)	100(100)	NA	NA
3	VA	1127	SLAMS	510590018	4/1/2007	10/31/2007	1(3)	3(9)	100(100)	NA	NA
3	VA	1127	OFFICIAL PA	510590030	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510591005	4/1/2007	10/31/2007	1(3)	2(6)	100(100)	NA	NA
3	VA	1127	SLAMS	510595001	4/1/2007	10/31/2007	1(3)	2(6)	100(100)	NA	NA
3	VA	1127	SLAMS	510610002	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510690010	4/1/2007	10/31/2007	1(3)	2(8)	100(100)	NA	NA
3	VA	1127	SLAMS	510850003	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	510870014	4/1/2007	10/31/2007	1(3)	2(10)	100(100)	NA	NA
3	VA	1127	SLAMS	511071005	4/1/2007	10/31/2007	1(3)	2(8)	100(100)	NA	NA
3	VA	1127	SLAMS	511390004	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	511530009	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	511611004	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	511630003	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	511650003	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	511790001	4/1/2007	10/31/2007	1(3)	2(8)	100(100)	NA	NA
3	VA	1127	SLAMS	511970002	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	515100009	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	516500004	4/1/2007	10/31/2007	1(3)	2(8)	100(100)	NA	NA
3	VA	1127	SLAMS	518000004	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	SLAMS	518000005	4/1/2007	10/31/2007	1(3)	1(5)	100(100)	NA	NA
3	VA	1127	All - NSP	NA	NA	NA	25(75)	36(152)	100(100)	25	0/12/15/9

Table PP. PQAQ, 2007:Q2-Q4.

Region	State	PQAQ	PQAQ Name
3	VA	745	National Park Service
3	VA	1127	Virginia Department of Environmental Quality



**Table U. Single Point Precision and Bias Estimates for O3 NSP Sites, 2007:Q2-Q4.**

Region	State	PQAO	Site	CFR Lower Limit	CFR Upper Limit	Bias UB	CV UB
3	VA	1127	510130020	NA	NA	3.03	3.96
3	VA	1127	510330001	NA	NA	4.68	5.66
3	VA	1127	510360002	NA	NA	5.02	5.73
3	VA	1127	510410004	NA	NA	1.98	2.41
3	VA	1127	510590005	NA	NA	2.84	1.15
3	VA	1127	510590018	NA	NA	-1.4	1.33
3	VA	1127	510590030	NA	NA	1.82	2.33
3	VA	1127	510591005	NA	NA	1.28	1.39
3	VA	1127	510595001	NA	NA	1.4	1.58
3	VA	1127	510610002	NA	NA	6.38	6.27
3	VA	1127	510690010	NA	NA	2.85	3.05
3	VA	1127	510850003	NA	NA	4.05	5.51
3	VA	1127	510870014	NA	NA	4.45	5.19
3	VA	1127	511071005	NA	NA	8.31	10.36
3	VA	1127	511390004	NA	NA	4.58	5.31
3	VA	1127	511530009	NA	NA	3.94	4.35
3	VA	1127	511611004	NA	NA	2.47	3.31
3	VA	1127	511630003	NA	NA	4.8	5.71
3	VA	1127	511650003	NA	NA	-3.07	3.27
3	VA	1127	511790001	NA	NA	5.53	6.92
3	VA	1127	511970002	NA	NA	3.05	3.9
3	VA	1127	515100009	NA	NA	3.19	3.56
3	VA	1127	516500004	NA	NA	1.83	2.34
3	VA	1127	518000004	NA	NA	4.2	5.2
3	VA	1127	518000005	NA	NA	6.52	4.72
3	VA	1127	All - NSP	-7.47	8.5	3.07	4.24

**Table Y. PQAQ Accuracy Summary for O3 NSP Sites, 2007:Q2-Q4.**

Region	State	PQAQ	I	II	III	IV				
3	VA	1127	(-5.0	+3.8)	(-2.7	+2.1)	(-2.1	+2.5)	(-1.7	+1.4)

**Table W. Single Point Precision and Bias Estimates for O3 Non-NSP Sites, 2007:Q2-Q4**

Region	State	PQAO	Site	CFR Lower Limit	CFR Upper Limit	Bias UB	CV UB
3	VA	745	511130003	NA	NA	2.55	2.18
3	VA	745	All - Other	-1.79	6.1	2.55	2.18

**Table Z. PQAQ Accuracy Summary for O3 Non-NSP Sites, 2007:Q2-Q4.**

Region	State	PQAQ	I	II	III	IV
3	VA	745				