Table 1a. Data Collection Statistics
Sites Operated by the National Park Service
National Park Service Gaseous Pollutant Monitoring Program, 2014

		Parameter Code												
National Park Unit	Site Name	О3	SO2	CO	NOx	PM2.5	PM10	VWD ²	SWS ³	TMP	RH	RNF	SOL	FLOW
National Park Unit	Site Name	% valid1 (% valid¹	% valid1	% valid	% valid¹	% valid¹	% valid¹	% valid1	% valid¹	% valid¹	% valid1	% valid1	% valid¹
Big Bend	K-Bar Ranch Road	95.6						98.9	98.9	99.3	99.4	76.3	96.9	99.0
Canyonlands	Island in the Sky	96.3						99.6	99.6	99.5	99.6	99.3	99.6	99.2
Chiricahua	Entrance Station	97.1						97.6	97.6	97.6	97.6	94.4	97.7	97.6
Craters of the Moon	Visitor Center	96.7						99.8	99.8	99.8			96.8	
Denali	Headquarters	99.5						96.3	96.3	99.9	91.5	99.9	100.0	99.6
Death Valley	Park Village	99.4	—					99.7	99.7	99.7		—		
Dinosaur	West Entrance Housing	93.3						98.8	98.8	99.1		82.5	99.2	99.4
Everglades	Beard Center		—					99.1	99.1	99.3	99.3	90.5	99.6	86.8
Fort Laramie	North Boundary					60.5			99.8	76.2	76.2			
Glacier	West Glacier Horse Stables	94.5						97.3	97.4	99.7			99.7	97.4
Great Basin	Maintenance Yard	95.4						98.2	98.2	99.7	99.7	99.2	99.3	99.7
Grand Canyon	The Abyss	97.4						99.6	99.6	99.6	99.6	99.3	99.8	99.7
Great Smoky Mountains	Cades Cove	99.7						99.8	99.8	97.4	97.4	99.6	99.9	
Great Smoky Mountains	Clingmans Dome	72.9						73.7	73.7	73.1	72.7	65.3	73.7	
Great Smoky Mountains	Cove Mountain	98.9						99.0	99.0	95.7	95.7	99.6		
Great Smoky Mountains	Look Rock NCORE		74.5	70.5										
Great Smoky Mountains	Look Rock	99.6						99.7	99.7	99.7	99.7	99.4	99.7	99.2
Grand Teton	Science School	99.3						99.6	99.6	99.1	99.1	99.5	99.9	
Hawaii Volcanoes	Observatory		97.6			20.6		97.2	97.2	97.3	97.3	99.8		
Hawaii Volcanoes	Visitor Center		99.4					99.5	99.5	99.5	99.5	96.8	99.5	
Joshua Tree	Black Rock	99.7						87.4	99.1	99.8	99.9	99.5	99.9	99.6
Joshua Tree	Cottonwood Canyon	74.7					34.7	81.3	90.3	90.4	90.4	86.6	90.4	
Lassen Volcanic	Manzanita Lake Fire Stn.	99.2						97.6	97.6	99.4	93.8	99.1	99.5	99.0
Mammoth Cave	Houchin Meadow	99.1		95.3				100.0	100.0	99.8	99.9	99.3	100.0	99.8
Mesa Verde	Resource Mngment Area	91.3						99.9	99.9	99.9	99.9	98.7	99.9	99.6
Petrified Forest	South Entrance	99.4						99.8	99.8	99.8			100.0	99.6
Pinnacles	SW of East Entrance Stn.	99.3						92.5	98.7	99.7	96.9	99.6	99.7	99.1
Rocky Mountain	Long's Peak	94.5						64.2	99.2	99.2	96.3	99.5	97.6	99.3
Sequoia and Kings Canyon	Ash Mountain	97.0				67.1		97.3	97.3	97.3	97.3	75.5	97.5	97.5
Sequoia and Kings Canyon	Lower Kaweah	99.5						99.4	99.4	99.3	99.4	64.7	99.5	
Shenandoah	Big Meadows	98.7						96.4	96.4	98.9	98.9	95.2	99.0	98.7
Theodore Roosevelt	Painted Cany. VC							99.3	99.3	99.9	99.9	99.9	100.0	94.2
Voyageurs	Sullivan Bay	97.8						97.9	97.9	99.2	99.7	99.8	97.4	99.6
Wind Cave	Visitor Center							99.7	99.7	99.8	99.8	99.9	100.0	99.6
Yellowstone	Old Faithful Snow Lodge			90.3		93.2		98.2	98.2	99.8	99.9			
Yellowstone	Water Tank	98.7						97.0	97.0	98.6	98.5	98.5	96.3	99.1
Yosemite	Turtleback Dome	98.3						96.8	99.6	99.9	100.0	99.7	100.0	99.2

Table 1a (continued). Data Collection Statistics Sites Operated by the National Park Service National Park Service Gaseous Pollutant Monitoring Program, 2014

		Parameter Code												
National Park Unit	Sida Niama	O3	SO2	CO	NOx	PM2.5	PM10	VWD^2	SWS ³	TMP	RH	RNF	SOL	FLOW
National Park Unit	Site Name	∕₀ valid¹	% valid¹	% valid1	% valid	¹ % valid¹	% valid1	% valid1	% valid¹	% valid¹	% valid¹	% valid1	% valid	% valid¹
Zion	Dalton's Wash	92.4						99.7	99.7	99.9		99.6	99.9	
Average Network Data Co	ollection	96.2	88.6	85.4		79.6	84.6	96.2	98.1	98.0	97.1	94.9	98.3	98.4
Operating agency key:		Ke	ey:											
plain text = site operated by the National Park Service italics = site operated by a state agency underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation		SC of CC	02 = Sulfur 0 = Carbon	e Analyzer Dioxide A n Monoxide es of Nitros		PM10 = VWD =	Particulate	nd Direction	RH = RNF : SOL =	= Temperat Relative Hi = Precipitat = Solar Rad V = Filter P	amidity ion iation	ate		

^{1.} The percent is calculated against the number possible. Percent valid can be less than 100% due to routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. Percent valid can also be less than 100% due to influencing factors such as instrument error, operator error, timing problems, flow issues, and other factors that affect instrument operation. When calculating percent valid for O₃ and SO₂, calibration events were removed from the number possible.

- 2. Cape Cod reports wind direction as scalar wind direction rather than vector wind direction.
- 3. Saguaro reports wind speed as vector wind speed rather than scalar wind speed.

Table 1b. Data Collection Statistics Sites Operated by the NPS for the BLM National Park Service Gaseous Pollutant Monitoring Program, 2014

		Parameter Code												
NI.diamathantana	C'A NI	О3	SO2	CO	NOx	PM2.5	PM10	VWD ²	SWS ³	TMP	RH	RNF	SOL	FLOW
National Park Unit	Site Name	∕₀ valid¹	% valid¹	% valid	1 % valid	¹ % valid¹	% valid1	% valid1	% valid1	% valid¹	% valid¹	% valid¹	% valid	% valid¹
Meeker	Plant Science	98.5			99.4	70.0		99.3	99.3	99.8	99.8	99.7	99.9	85.3
Rangely	Golf Course	97.0			99.1	88.5		99.5	99.5	99.7	99.7	95.3	100.0	
Average Network Data Collection		97.7			99.2	79.2		99.4	99.4	99.8	99.8	97.5	99.9	85.3
Operating agency key:		Kε	ey:											
plain text = site operated by the National Park Service italias = site operated by a state agency underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation		SC of CC	O3 = Ozone Analyzer SO2 = Sulfur Dioxide Analyzer CO = Carbon Monoxide NOx = Oxides of Nitrogen			PM2.5 = Particulate Matter 2.5 PM10 = Particulate Matter 10 VWD = Vector Wind Direction SWS = Scalar Wind Speed			RH = Relative Humidity					

- 1. The percent is calculated against the number possible. Percent valid can be less than 100% due to routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. Percent valid can also be less than 100% due to influencing factors such as instrument error, operator error, timing problems, flow issues, and other factors that affect instrument operation. When calculating percent valid for O₃ and SO₂, calibration events were removed from the number possible.
- 2. Cape Cod reports wind direction as scalar wind direction rather than vector wind direction.
- 3. Saguaro reports wind speed as vector wind speed rather than scalar wind speed.

Table 1c. Data Collection Statistics Sites Operated by the NPS for the USFS National Park Service Gaseous Pollutant Monitoring Program, 2014

		Parameter Code												
NI.d	C'A NI	О3	SO2	CO	NOx	PM2.5	PM10	VWD^2	SWS^3	TMP	RH	RNF	SOL	FLOW
National Park Unit	Site Name %	valid1	% valid¹	% valid	1 % valid	¹ % valid¹	% valid1	% valid¹	% valid1	% valid¹	% valid1	% valid¹	% valid	¹ % valid¹
Escalante	Visitor Center	99.7						99.8	99.8	99.8	99.8	99.9	99.9	
Walden - Colorado	Chandler Ranch	99.6	99.9	96.2	94.0		99.8	99.5	92.4	99.9	99.9		99.9	
Average Network Data Collection		99.7	99.9	96.2	94.0		99.8	99.7	96.1	99.9	99.9	99.9	99.9	
Operating agency key:		Ke	y:											
plain text = site operated by the National Park Service italias = site operated by a state agency underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation		SO of CC	02 = Sulfur 0 = Carbon	e Analyzer Dioxide A n Monoxide es of Nitro	e	PM10 = VWD =	Particulate	nd Direction	RH = RNF : SOL :	= Tempera Relative H = Precipitat = Solar Rad V = Filter F	umidity ion iation	Rate		

- 1. The percent is calculated against the number possible. Percent valid can be less than 100% due to routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. Percent valid can also be less than 100% due to influencing factors such as instrument error, operator error, timing problems, flow issues, and other factors that affect instrument operation. When calculating percent valid for O₃ and SO₂, calibration events were removed from the number possible.
- 2. Cape Cod reports wind direction as scalar wind direction rather than vector wind direction.
- 3. Saguaro reports wind speed as vector wind speed rather than scalar wind speed.

Table 1d. Data Collection Statistics Portable Ozone Monitoring Systems (POMS) National Park Service Gaseous Pollutant Monitoring Program, 2014

		Parameter Code												
National Park Unit	Site Name	О3	SO2	CO	NOx	PM2.5	PM10	VWD^2	SWS ³	TMP	RH	RNF	SOL	FLOW
National Park Unit	Site Name	valid¹ %	∕₀ valid¹	% valid¹	% valid1	% valid1	% valid¹	% valid¹	% valid1	% valid1	% valid¹	% valid1	% valid1	% valid¹
Abraham Lincoln Birthplace	Visitor's Center	74.6							95.4	95.5	95.5			
Carlsbad Caverns	Maintenance Area	64.5							89.8	87.8	88.3	89.7	89.4	0.0
Cumberland Gap	Hensley Settlement	100.0							100.0	100.0	100.0	100.0	100.0	
Joshua Tree	Pinto Wells	99.8							99.8	99.8	99.8		99.8	
Kings Mountain	Brown's Mountain	86.7							97.1	97.3	97.3	32.8	97.3	
Mojave_	Kelso Mountains	91.6							99.9	99.0	99.0	100.0	98.9	—
Rocky Mountain	Trail Ridge	99.6							99.6	99.6	99.6	99.6	99.6	
Average Network Data Coll	ection	88.6							97.6	97.2	97.3	82.9	97.7	
Operating agency key:		Key:	:											
plain text = site operated by the National Park Service italics = site operated by a state agency underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation			= Sulfur = Carbor	: Analyzer Dioxide An Monoxide es of Nitrog		PM10 = VWD =	Particulate Particulate Vector Wir calar Wind	Matter 10 nd Direction	RH = n RNF : SOL =	= Tempera Relative H = Precipitat = Solar Rad V = Filter F	umidity tion	late		

^{1.} The percent is calculated against the number possible. Percent valid can be less than 100% due to routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. Percent valid can also be less than 100% due to influencing factors such as instrument error, operator error, timing problems, flow issues, and other factors that affect instrument operation. When calculating percent valid for O₃ and SO₂, calibration events were removed from the number possible.

- 2. Cape Cod reports wind direction as scalar wind direction rather than vector wind direction.
- 3. Saguaro reports wind speed as vector wind speed rather than scalar wind speed.

Table 2. Ozone Analyzer Precision and Verification Summary Sites Operated by the National Park Service National Park Service Gaseous Pollutant Monitoring Program, 2014

				Precisio	n	As-found Verification Multi-Point				
National Park Unit	Site Name	Calendar Quarter	Required No. of Precision Checks Met? ¹	Avg. Absolute Percent Difference ^{3,4}	Lower 95% Probability Limit ⁶	Upper 95% Probability Limit ⁶	Accuracy Check Performed During the Quarter? ²	Avg. Absolute Percent Difference ^{3,4}	Max. Absolute Percent Difference ⁵	
Big Bend	K-Bar Ranch Road	1	Y	0.1	-1.0	0.7	Y	1.0	2.1	
		2	Y	1.5	-3.5	0.6	Y	3.2	3.6	
		3	Y	2.4	-4.5	-0.3	N			
		4	Y	1.6	-3.5	0.2	Y	1.0	1.6	
Canyonlands	Island in the Sky	1	Y	2.3	-0.3	4.8	N			
		2 3	Y Y	0.8 3.3	-3.0 -6.3	4.6 -0.4	Y N	0.6	1.4	
		3 4	Y Y	3.3 1.9	-0.5 -1.9	-0.4 5.7	N N			
Chiricahua	Entrance Station	1	Y	0.5	-0.1	1.0	N	<u> </u>		
Cimicanua	Entrance Station	2	Y	2.3	-5.2	0.6	Y	5.9	6.6	
		3	Y	5.2	-6.2	-4.2	N		6.6	
		4	Ŷ	2.1	-5.1	0.9	Y	1.2	1.8	
Craters of the Moon	Visitor Center	1	Y	4.0	-6.1	-1.9	N	_	_	
		2	Y	3.0	-8.1	2.0	Y	3.5	3.7	
		3	Y	0.4	-0.8	1.5	N	_	_	
		4	Y	0.8	-0.6	2.1	Y	2.7	2.9	
Denali	Headquarters	1	Y	1.4	-2.8	-0.1	N	_		
		2	Y	0.1	-3.3	3.1	Y	1.8	2.6	
		3	Y	1.8	1.2	2.4	N			
/ //		4	Y	0.1	-3.7	4.0	Y	2.0	2.8	
Death Valley	Park Village	1	Y	3.1	-3.9	-2.3	N	_	_	
		2	Y	3.3	-4.4	-2.2	N			
		3	Y Y	3.4 2.7	-4.5 -3.7	-2.2 -1.6	Y	1.4	2.2	
Dinosaur	West Entrance Housing	4	Y Y	0.6	-3.7 -5.6	6.7	N Y	10.6	10.8	
Diffosaur	west Entrance Housing	2	Y	0.3	-3.6 -1.4	2.1	Y	0.8	1.4	
		3	Y	1.0	-1. 4 -1.9	0.0	Y	0.5	0.9	
		4	Y	1.0	-3.7	1.7	N			
Glacier	West Glacier Horse Stables		Y	0.7	-0.6	1.9	N	_	_	
		2	Y	1.2	-4.5	2.1	Y	0.2	0.5	
		3	N	3.1	-6.5	0.3	N	_	_	
		4	Y	3.1	-7.1	0.9	Y	0.7	1.8	
Great Basin	Maintenance Yard	1	Y	1.1	-2.8	0.6	N	_	_	
		2	Y	1.9	-4.3	0.5	N	_		
		3	Y	2.6	-4.2	-1.0	Y	2.7	8.9	
		4	Y	3.2	-5.6	-0.8	N			
Grand Canyon	The Abyss	1	Y	0.8	-1.7	0.0	N	-	_	
		2	Y	3.2	-5.5	-0.8	Y	1.9	2.9	
		3	Y	5.7	-6.7	-4.8	N			
		4	Y	1.4	-6.2	3.4	Y	1.3	2.5	

Table 2 (continued). Ozone Analyzer Precision and Verification Summary Sites Operated by the National Park Service National Park Service Gaseous Pollutant Monitoring Program, 2014

				Precisio	n	As-found Verification Multi-Point				
National Park Unit	Site Name	Calendar Quarter	Required No. of Precision Checks Met? ¹	Avg. Absolute Percent Difference ^{3,4}	Lower 95% Probability Limit ⁶	Upper 95% Probability Limit ⁶	Accuracy Check Performed During the Quarter?2	Avg. Absolute Percent Difference ^{3,4}	Max. Absolute Percent Difference ⁵	
Great Smoky Mountains	Clingmans Dome	1	_				_		_	
		2	Y	0.1	-4.1	4.0	Y	2.9	5.0	
		3	Y	3.0	0.4	5.6	Y	3.5	5.1	
		4	Y	2.3	-4.1	8.8	Y	4.2	4.9	
Great Smoky Mountains	Cove Mountain	1	Y	0.3	-1.3	1.8	N	-		
		2	Y	1.1	-0.8	2.9	Y	1.6	2.7	
		3	Y	1.5	0.6	2.3	Y	4.9	7.1	
		4	Y	0.6	-3.6	4.7	Y	3.6	3.8	
Great Smoky Mountains	Look Rock	1	Y	1.8	1.1	2.5	Y	0.0	0.0	
		2	Y	0.8	-0.3	1.9	Y	0.7	2.5	
		3	Y	0.2	-0.4	0.9	Y	1.1	2.2	
0 17	0: 01 1	4	Y	0.9	-4.0	2.3	Y	0.5	1.1	
Grand Teton	Science School	1	Y	1.1	-1.7	-0.5	N			
		2	Y	1.6	-3.0	-0.3	Y	2.0	2.4	
		3	Y	2.4	-3.0	-1.7	N	0.5		
I a also a Time a	D1. d. D . d	4	Y	2.9	-4.0	-1.8	Y	0.5	0.9	
Joshua Tree	Black Rock		Y Y	3.4 0.7	-4.3 -6.0	-2.6 4.6	N	1.7	2.7	
		2 3	Y	0.7	-0.0 -0.8	1.3	Y N	1.7	2.1	
		3 4	Y	0.3	-0.8 -1.9	1.3	Y	2.2	2.7	
Joshua Tree	Cottonwood Canyon	4	N N	5.9	-1.9 -11.2	-0.6	N	۷.۷	2.1	
Joshua Tree	Cottonwood Canyon	2	Y	2.1	-11.2 -6.8	-0.6 11.1	Y		7.8	
		3	N N	3.0	-6.6 -5.7	-0.4	N	/.1 		
		4	N	1.8	-5.7 -6.6	3.0	Y	1.0	2.2	
Lassen Volcanic	Manzanita Lake Fire Stn.	1	N	0.9	-1.7	0.0	N	1.0	<u> </u>	
Lassell volcame	Manzanita Lake Pile Stil.	2	Y	1.2	-2.6	0.0	Y	3.7	4.7	
		3	Y	2.0	-2.9	-1.1	N	J.1		
		4	Ϋ́	0.5	-2.4	1.5	Y	2.3	3.3	
Mammoth Cave	Houchin Meadow	1	Y	1.4	-3.0	0.3	N			
Manimoti Cave	110deliii Meadow	2	Ý	1.7	-4.5	1.1	Y	2.0	3.0	
		3	Ý	1.4	-2.8	-0.1	Y	1.7	2.8	
		4	Ŷ	1.4	-2.5	-0.4	Ŷ	1.8	2.9	
Mesa Verde	Resource Mngment Area	1	Y	2.9	1.6	4.2	N			
		2	Ÿ	2.2	1.4	3.0	N			
		3	Ŷ	2.0	1.1	2.8	N			
		4	Ñ	3.0	0.7	5.2	N			
Petrified Forest	South Entrance	1	Y	1.1	0.4	1.9	N	_	_	
		2	Ŷ	0.0	-0.8	0.9	Y	0.9	1.6	
		3	Ÿ	1.3	-2.1	-0.5	N	_	_	
		4	Ÿ	0.7	-1.7	0.3	Y	0.3	0.9	

Table 2 (continued). Ozone Analyzer Precision and Verification Summary Sites Operated by the National Park Service National Park Service Gaseous Pollutant Monitoring Program, 2014

	Site Name			Precisio	n	As-found Verification Multi-Point				
National Park Unit		Calendar Quarter	Required No. of Precision Checks Met? ¹	Avg. Absolute Percent Difference ^{3,4}	Lower 95% Probability Limit ⁶	Upper 95% Probability Limit ⁶	Accuracy Check Performed During the Quarter? ²	Avg. Absolute Percent Difference ^{3,4}	Max. Absolute Percent Difference ⁵	
Pinnacles	SW of East Entrance Stn.	1	Y	3.0	2.3	3.7	N		_	
		2	Y	1.6	0.4	2.8	Y	2.5	3.2	
		3	Y	1.6	0.9	2.4	N			
		4	Y	0.9	-0.5	2.2	Y	0.6	0.8	
Rocky Mountain	Long's Peak	1	Y	0.2	-0.9	0.6	Y	1.6	1.8	
		2	Y	1.0	-4.4	2.4	N	_	_	
		3	Y	0.1	-5.2	5.0	Y	5.0	5.7	
		4	Y	1.6	-2.6	-0.5	N	_	_	
Sequoia and Kings Canyon	Ash Mountain	1	Y	1.0	-1.7	-0.4	N			
		2	Y	1.0	-2.0	0.0	Y	0.9	1.2	
		3	Y	0.9	-1.4	-0.5	Y	1.0	2.0	
		4	Y	1.2	-2.1	-0.4	N			
Sequoia and Kings Canyon	Lower Kaweah	1	_	_		_	_	_	_	
		2	Y	0.7	-3.7	2.3	Y	0.5	1.2	
		3	Y	1.1	-2.2	0.1	Y	1.0	1.5	
		4	Y	0.5	-1.1	0.1	N	_	_	
Shenandoah	Big Meadows	1	Y	1.2	-2.9	0.5	Y	0.4	1.5	
		2	Y	2.5	-5.4	0.5	N			
		3	Y	2.7	-7.2	1.9	Y	1.3	2.5	
		4	Y	1.5	-0.3	3.3	N			
Voyageurs	Sullivan Bay	1	Y	0.3	-4.8	5.3	Y	1.2	3.3	
		2	Y	1.1	0.5	1.6	Y	1.1	1.4	
		3	Y	1.2	0.0	2.5	N			
		4	Y	1.7	-2.7	6.0	Y	0.7	1.2	
Yellowstone	Water Tank	1	Y	1.5	-2.2	-0.9	N	_		
		2	Y	1.7	-3.0	-0.5	Y	0.5	0.7	
		3	Y	0.8	-1.8	0.2	N			
		4	Y	4.2	-8.3	-0.1	Y	1.7	2.1	
Yosemite	Turtleback Dome	1	Y	0.1	-0.8	0.6	N		_	
		2	Y	0.6	-2.4	1.1	Y	2.8	4.0	
		3	Y	0.4	-1.9	1.1	N	_	_	
		4	Y	0.7	-1.0	2.4	Y	5.0	5.4	

Table 2 (continued). Ozone Analyzer Precision and Verification Summary Sites Operated by the National Park Service National Park Service Gaseous Pollutant Monitoring Program, 2014

A - C--- d X/- ::C----- M--1-: D-:--

				Precisio	n	As-found Verification Multi-Point						
National Park Unit	Site Name	Calendar Quarter	Required No. of Precision Checks Met? ¹	Avg. Absolute Percent Difference ^{3,4}	Lower 95% Probability Limit ⁶	Upper 95% Probability Limit ⁶	Accuracy Check Performed During the Quarter? ²	Avg. Absolute Percent Difference ^{3,4}	Max. Absolute Percent Difference ⁵			
Zion	Dalton's Wash	1	Y	0.2	-3.5	3.9	Y	3.6	4.4			
		2	Y	3.0	-4.6	-1.5	N					
		3	Y	4.8	-9.6	0.1	Y	4.3	7.4			
		4	Y	4.0	-6.2	-1.8	N					
Operating agency key:				Color shading	g key:							
plain text = site operated	l by the National Park Service				deal: indicates a	percent differen	ce within +/-5% or a pr	obability limit within	1 +/-10%			
<u>underline</u> = site operated	l by a state agency l by the National Park Service,	but consisting o	of non-EPA certified	Acceptable: indicates a percent difference between \pm -5.1-10% or a probability limit between \pm -10.1-15%								
portable instru	mentation				Inacceptable: in nan +/-15%	dicates a percent	difference greater than	+/-10% or a probab	oility limit greater			

- 1. Precision checks are required by the Environmental Protection Agency (EPA) of all pollutant analyzers collecting data which are to be submitted to the EPA Air Quality System (AQS). A precision check is performed by challenging the pollutant analyzer with a known concentration of gas from the pollutant transfer standard. This precision check must be performed at least every 14 days of monitoring operation. The percent difference between the analyzer and the transfer standard is then calculated.³ According to NPS Standard Operating Procedures, the pollutant analyzer must respond within 10% of
- 2. Accuracy checks are required by the Environmental Protection Agency (EPA) of all pollutant analyzers collecting data which are to be submitted to the EPA Air Quality System (AQS). An accuracy check is performed by challenging the pollutant analyzer with a known concentration of gas from the pollutant transfer standard at several different points. The percent difference between the analyzer and the transfer standard is then calculated.³ According to NPS Standard Operating Procedures, the pollutant analyzer must respond within 10% of the transfer standard. All accuracy checks reported here were performed by the reporting organization and not by an outside auditor.
- 3. Percent Difference = ((analyzer transfer std)/transfer std)x100
- 4. Average Absolute Percent Difference is the mean of the absolute value of all individual precision check percent differences during the quarter, or the mean of the absolute value of all the percent differences from each point challenged during an accuracy check.
- 5. Maximum Absolute Percent Difference is the highest percent difference from the points of a multipoint (or accuracy) calibration.
- 6. Upper/Lower 95% Probability Limits = (Average Percent Difference)+/-(1.96)(Standard Deviation of precision check percent differences in the quarter). The probability limits represent the interval having a 95% chance of containing the true average percent difference. Probability limits must be within +/-15%.