Table 1a

Data Collection Statistics
01/01/2016 - 12/31/2016
National Park Service Gaseous Pollutant Monitoring Program

		Parameter % valid[1]													
National Park Unit	**Site Name**	**O3**	**SO2**	**SO2ADD**	**CO**	**NOX**	**PM2.5**	**PM10**	**VWD**	**SWS**	**TMP**	**RH**	**RNF**	**SOL**	**FLOW**
Big Bend	K-Bar Ranch Road	97.8	---	---	---	---	---	---	98.4	98.4	98.8	98.8	98.4	98.9	92.1
Canyonlands	Island in the Sky	98.6	---	---	---	---	---	---	96.1	96.1	99.5	99.7	94.8	99.5	98.9
Chiricahua	Entrance Station	98.2	---	---	---	---	---	---	98.7	98.7	98.7	98.8	98.2	98.5	99.4
Craters of the Moon	Visitor Center	99.0	---	---	---	---	---	---	99.5	99.5	100.0	---	---	100.0	---
Denali	Headquarters	97.5	---	---	---	---	---	---	98.2	98.2	99.5	99.6	89.3	97.6	99.6
Death Valley	Park Village	85.1	---	---	---	---	---	---	50.6	99.0	94.2	---	---	---	---
Dinosaur	West Entrance Housing	94.5	---	---	---	---	---	---	99.7	99.7	99.8	---	99.8	100.0	99.2
Everglades	Beard Center	---	---	---	---	---	---	---	97.2	97.2	99.7	99.7	81.8	99.1	98.8
Fort Laramie	North Boundary	---	---	---	---	---	81.3	---	---	80.2	77.7	77.7	---	---	---
Glacier	West Glacier Horse Stables	98.1	---	---	---	---	---	---	52.4	98.2	99.8	---	---	99.8	99.3
Great Basin	Maintenance Yard	97.2	---	---	---	---	---	---	83.0	83.0	98.8	98.9	98.7	99.1	98.7
Grand Canyon	The Abyss	98.6	---	---	---	---	---	---	99.2	99.2	99.4	99.4	99.5	99.8	99.4
Great Smoky Mountains	Clingmans Dome	52.2	---	---	---	---	---	---	56.0	56.0	56.4	56.4	56.2	56.4	---
Great Smoky Mountains	Cove Mountain	97.2	---	---	---	---	---	---	98.8	98.8	98.8	98.8	98.7	---	---
Great Smoky Mountains	Look Rock NCORE	---	94.7	---	87.2	---	---	---	---	---	---	---	---	---	---
Great Smoky Mountains	Look Rock	98.3	---	---	---	---	---	---	70.0	99.4	99.7	99.8	99.0	99.8	99.6
Grand Teton	Science School	99.1	---	---	---	---	---	---	99.4	99.4	99.7	99.7	99.4	99.7	---
Hawaii Volcanoes	Observatory	---	95.4	95.4	---	---	73.6	---	100.0	100.0	71.1	71.1	99.7	---	---
Hawaii Volcanoes	Visitor Center	---	95.3	95.3	---	---	---	---	99.8	99.8	65.1	67.6	99.6	99.9	---
Joshua Tree	Black Rock	99.0	---	---	---	---	---	---	97.7	97.7	99.9	71.6	99.7	100.0	99.1
Joshua Tree	Cottonwood Canyon	98.0	---	---	---	---	---	64.6	99.6	99.6	99.6	99.6	99.6	99.6	---
Lassen Volcanic	Manzanita Lake Fire Stn.	93.5	---	---	---	---	---	---	79.2	79.2	95.7	96.8	93.2	97.6	96.4
Mammoth Cave	Houchin Meadow	86.4	77.3	---	65.3	---	---	---	88.8	91.7	81.8	91.9	91.7	92.0	90.5
Mesa Verde	Resource Mngment Area	99.0	---	---	---	---	---	---	99.6	99.6	99.9	100.0	98.8	100.0	80.0
Minidoka	Maintenance Building	---	---	---	---	---	54.5	---	---	98.1	99.9	99.9	---	---	---
Petrified Forest	South Entrance	97.0	---	---	---	---	---	---	99.5	99.5	99.8	---	---	98.5	95.4
Pinnacles	SW of East Entrance Stn.	99.1	---	---	---	---	---	---	98.1	98.1	98.7	99.9	99.5	94.8	99.2
Rocky Mountain	Long's Peak	98.4	---	---	---	---	---	---	99.7	99.7	99.8	99.8	99.5	99.9	97.3
Sequoia and Kings Canyon	Ash Mountain	97.6	---	---	---	---	72.1	---	98.7	98.7	99.1	99.1	98.8	99.2	99.1
Sequoia and Kings Canyon	Lower Kaweah	93.5	---	---	---	---	---	---	92.4	92.4	94.2	87.5	94.6	94.2	---
Shenandoah	Big Meadows	98.1	---	---	---	---	---	---	98.2	98.2	98.8	96.1	98.6	98.8	98.7
Voyageurs	Sullivan Bay	87.9	---	---	---	---	---	---	90.0	98.8	99.7	99.5	99.5	81.8	99.0
Yellowstone	Old Faithful Snow Lodge	---	---	---	85.5	---	83.5	---	99.5	99.5	99.8	96.0	---	---	---
Yellowstone	West Entrance	---	---	---	89.1	88.9	97.2	---	98.3	98.3	99.4	99.4	---	---	---
Yellowstone	Water Tank	92.0	---	---	---	---	---	---	73.1	98.9	99.1	99.2	98.6	99.0	99.1
Yosemite	Turtleback Dome	90.9	---	---	---	---	---	---	56.1	94.0	94.2	94.2	94.1	83.4	93.9

Table 1a (continued)

Data Collection Statistics
01/01/2016 - 12/31/2016
National Park Service Gaseous Pollutant Monitoring Program

		Parameter % valid[1]													
National Park Unit	**Site Name**	**O3**	**SO2**	**SO2ADD**	**CO**	**NOX**	**PM2.5**	**PM10**	**VWD**	**SWS**	**TMP**	**RH**	**RNF**	**SOL**	**FLOW**
Zion	Dalton's Wash	98.0	---	---	---	---	---	---	99.9	99.9	99.9	---	99.6	99.9	---
Average Network Data Collection		**94.5**	**90.7**	**95.4**	**81.8**	**88.9**	**77.0**	**64.6**	**90.2**	**95.6**	**94.9**	**93.2**	**95.7**	**96.1**	**96.9**

Key:

O3 = Ozone
SO2 = Sulfur Dioxid
SO2Add = Sulfur Dioxide
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
TMP = Ambient Temperature
RH = Relative Humidity
RNF = Precipitation
SOL = Solar Radiation
FLOW = Filter Pack Flow Rate

Performance Goals:

Quarterly Criteria:
100% of sites, >= 85% valid data capture
90% of sites, >= 90% valid data capture
80% of sites, >= 95% valid data capture

Monthly Criteria:
100% of sites, >= 60% valid data capture
90% of sites, >= 75% valid data capture
80% of sites, >= 85% valid data capture

1. Percent valid can be less than 100% due to calibrations, routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. For example, automatic zeros and spans are performed daily on most ambient gas analyzers; therefore, no ambient gas data can be collected during this time. As a result, the maximum percent valid for ambient gas data typically cannot be greater than 95.8. 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.

Font color key:
Black: 85% - 100% data recovery
Blue: 75% - 84.9% data recovery
Orange: 60% - 74.9% data recovery
Red: 0% - 59.9% data recovery

Table 1b

Data Collection Statistics
01/01/2016 - 12/31/2016
Sites Operated by the NPS for the BLM

		Parameter % valid[1]													
National Park Unit	**Site Name**	**O3**	**SO2**	**SO2ADD**	**CO**	**NOX**	**PM2.5**	**PM10**	**VWD**	**SWS**	**TMP**	**RH**	**RNF**	**SOL**	**FLOW**
Meeker	Plant Science	95.1	---	---	---	91.5	99.5	---	98.8	98.8	99.9	99.9	99.6	100.0	99.6
Rangely	Golf Course	96.9	---	---	---	97.2	94.2	---	99.4	99.4	99.7	99.7	99.4	99.7	---
Average Network Data Collection		**96.0**	**---**	**---**	**---**	**94.4**	**96.8**	**---**	**99.1**	**99.1**	**99.8**	**99.8**	**99.5**	**99.8**	**99.6**

Key:

O3 = Ozone
SO2 = Sulfur Dioxid
SO2Add = Sulfur Dioxide
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
TMP = Ambient Temperature
RH = Relative Humidity
RNF = Precipitation
SOL = Solar Radiation
FLOW = Filter Pack Flow Rate

Performance Goals:

Quarterly Criteria:
100% of sites, >= 85% valid data capture
90% of sites, >= 90% valid data capture
80% of sites, >= 95% valid data capture

Monthly Criteria:
100% of sites, >= 60% valid data capture
90% of sites, >= 75% valid data capture
80% of sites, >= 85% valid data capture

1. Percent valid can be less than 100% due to calibrations, routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. For example, automatic zeros and spans are performed daily on most ambient gas analyzers; therefore, no ambient gas data can be collected during this time. As a result, the maximum percent valid for ambient gas data typically cannot be greater than 95.8. 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.

Font color key:
Black: 85% - 100% data recovery
Blue: 75% - 84.9% data recovery
Orange: 60% - 74.9% data recovery
Red: 0% - 59.9% data recovery

Table 1c

Data Collection Statistics
01/01/2016 - 12/31/2016
Portable Ozone Monitoring Systems (POMS)

		Parameter % valid[1]													
National Park Unit	**Site Name**	**O3**	**SO2**	**SO2ADD**	**CO**	**NOX**	**PM2.5**	**PM10**	**VWD**	**SWS**	**TMP**	**RH**	**RNF**	**SOL**	**FLOW**
Carlsbad Caverns	Maintenance Area	94.2	---	---	---	---	---	---	---	99.8	99.8	99.8	99.8	99.2	---
Chickamauga/Chattanooga	Lookout Mountain	93.1	---	---	---	---	---	---	---	92.9	74.9	74.9	---	---	---
Joshua Tree	Pinto Wells	94.3	---	---	---	---	---	---	---	100.0	100.0	100.0	---	100.0	---
Kings Mountain	RAWS Station	92.2	---	---	---	---	---	---	---	100.0	99.9	100.0	100.0	100.0	---
Mojave	Kelso Mountains	87.7	---	---	---	---	---	---	---	100.0	100.0	100.0	100.0	100.0	---
Stones River	Beasley Field	85.9	---	---	---	---	---	---	---	91.3	91.2	91.2	56.7	91.2	---
Average Network Data Collection		**91.2**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**97.3**	**94.3**	**94.3**	**89.1**	**98.1**	**---**

Key:

O3 = Ozone
SO2 = Sulfur Dioxid
SO2Add = Sulfur Dioxide
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
TMP = Ambient Temperature
RH = Relative Humidity
RNF = Precipitation
SOL = Solar Radiation
FLOW = Filter Pack Flow Rate

Performance Goals:

Quarterly Criteria:
100% of sites, >= 85% valid data capture
90% of sites, >= 90% valid data capture
80% of sites, >= 95% valid data capture

Monthly Criteria:
100% of sites, >= 60% valid data capture
90% of sites, >= 75% valid data capture
80% of sites, >= 85% valid data capture

1. Percent valid can be less than 100% due to calibrations, routine maintenance, power failures, audits or other circumstances where the instrument was not available to collect data. For example, automatic zeros and spans are performed daily on most ambient gas analyzers; therefore, no ambient gas data can be collected during this time. As a result, the maximum percent valid for ambient gas data typically cannot be greater than 95.8. 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.

Font color key:
Black: 85% - 100% data recovery
Blue: 75% - 84.9% data recovery
Orange: 60% - 74.9% data recovery
Red: 0% - 59.9% data recovery

Table 2. Ozone Analyzer Precision and Accuracy Summary
Sites Operated by the National Park Service
National Park Service Gaseous Pollutant Monitoring Program, 2016

			Precision				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	0.3	-1.5	0.9	N	—	—
		2	Y	0.8	-2.3	0.6	N	—	—
		3	Y	3.0	-6.6	0.6	Y	0.8	1.3
		4	Y	1.2	-4.2	1.8	N	—	—
Canyonlands	Island in the Sky	1	Y	1.4	0.6	2.2	N	—	—
		2	Y	1.7	0.3	3.0	N	—	—
		3	Y	1.0	0.1	1.9	N	—	—
		4	Y	1.3	0.1	2.5	Y	2.4	2.9
Chiricahua	Entrance Station	1	Y	2.5	-5.9	0.8	Y	0.2	0.7
		2	Y	3.5	-4.6	-2.4	N	—	—
		3	Y	2.3	-5.0	0.5	Y	2.6	2.9
		4	Y	0.1	-1.5	1.3	N	—	—
Craters of the Moon	Visitor Center	1	Y	2.3	-4.0	-0.5	N	—	—
		2	Y	1.9	-4.3	0.6	Y	2.1	2.3
		3	Y	0.5	-2.3	1.3	N	—	—
		4	Y	0.5	-1.0	2.1	Y	1.1	1.8
Denali	Headquarters	1	Y	2.3	-3.0	-1.6	N	—	—
		2	Y	1.6	-4.2	0.9	Y	2.5	2.9
		3	Y	0.6	-1.5	0.4	Y	2.1	3.2
		4	Y	1.8	-2.7	-0.8	N	—	—
Death Valley	Park Village	1	Y	1.6	-5.1	2.0	Y	0.3	0.6
		2	Y	3.7	-7.1	-0.2	Y	6.8	7.1
		3	Y	0.6	-0.8	1.9	N	—	—
		4	Y	0.3	-2.1	2.7	Y	0.2	0.5
Dinosaur	West Entrance Housing	1	Y	1.5	-3.3	0.4	N	—	—
		2	Y	3.7	-5.3	-2.0	Y	0.5	0.9
		3	Y	3.5	-4.9	-2.2	N	—	—
		4	Y	2.8	-6.6	1.1	Y	2.0	2.3
Glacier	West Glacier Horse Stables	1	Y	1.6	-2.8	-0.4	N	—	—
		2	Y	1.5	-3.2	0.2	Y	0.5	0.8
		3	Y	1.6	-3.1	0.0	N	—	—
		4	Y	0.9	-2.9	1.2	Y	1.7	2.0
Great Basin	Maintenance Yard	1	Y	1.3	-4.3	1.7	Y	1.0	1.9
		2	Y	1.9	-5.8	2.1	Y	0.4	0.6
		3	Y	0.5	-1.8	2.8	N	—	—
		4	Y	1.1	-1.6	3.8	Y	0.8	1.3
Grand Canyon	The Abyss	1	Y	0.8	-2.8	1.2	Y	2.3	3.1
		2	Y	1.9	-2.6	-1.1	N	—	—
		3	Y	2.8	-4.0	-1.6	N	—	—
		4	Y	2.5	-4.3	-0.8	Y	1.8	2.5

Table 2 (continued). Ozone Analyzer Precision and Accuracy Summary
Sites Operated by the National Park Service
National Park Service Gaseous Pollutant Monitoring Program, 2016

			Precision				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	1.0	-2.9	4.8	Y	1.1	2.0
		3	Y	3.8	-1.7	9.3	N	—	—
		4	Y	0.9	-1.9	3.8	Y	3.0	3.8
Great Smoky Mountains	Cove Mountain	1	Y	1.1	-5.5	3.3	N	—	—
		2	Y	1.7	-2.9	-0.6	Y	0.5	1.2
		3	Y	2.0	-3.1	-0.9	N	—	—
		4	Y	3.2	-5.4	-0.9	Y	0.9	1.5
Great Smoky Mountains	Look Rock	1	Y	1.4	-2.1	-0.8	N	—	—
		2	Y	0.5	-2.0	1.1	Y	0.5	0.7
		3	Y	0.4	-3.8	3.0	N	—	—
		4	Y	0.5	-2.0	3.1	Y	3.5	3.9
Grand Teton	Science School	1	Y	2.5	-3.5	-1.5	N	—	—
		2	Y	2.4	-5.1	0.3	Y	0.5	1.4
		3	Y	0.7	-1.9	0.6	Y	1.7	2.1
		4	Y	1.3	-2.3	-0.3	N	—	—
Joshua Tree	Black Rock	1	Y	0.2	-1.2	0.7	N	—	—
		2	Y	0.3	-1.7	1.0	Y	0.6	1.2
		3	Y	3.7	-7.1	-0.3	N	—	—
		4	N	2.1	-7.4	3.2	N	—	—
Joshua Tree	Cottonwood Canyon	1	Y	2.4	-7.4	2.7	N	—	—
		2	Y	1.1	-4.3	6.5	Y	1.2	2.5
		3	Y	0.7	-6.2	7.6	N	—	—
		4	Y	0.3	-3.9	4.5	N	—	—
Lassen Volcanic	Manzanita Lake Fire Stn.	1	Y	0.4	-2.2	1.4	N	—	—
		2	Y	0.1	-1.9	1.6	Y	0.7	1.6
		3	Y	1.7	-3.2	-0.3	N	—	—
		4	Y	0.1	-3.8	3.6	Y	4.0	5.1
Mammoth Cave	Houchin Meadow	1	Y	0.2	-1.1	0.6	N	—	—
		2	Y	0.3	-2.6	1.9	Y	0.3	0.7
		3	Y	1.9	-6.2	2.3	N	—	—
		4	N	1.0	-3.1	5.0	Y	0.8	1.5
Mesa Verde	Resource Mngment Area	1	Y	1.5	-0.1	3.1	Y	2.1	2.6
		2	Y	2.8	1.2	4.4	N	—	—
		3	Y	3.4	1.4	5.5	N	—	—
		4	Y	1.9	-1.6	5.5	Y	2.4	2.7
Petrified Forest	South Entrance	1	Y	2.3	-3.4	-1.3	Y	2.2	2.8
		2	Y	2.8	-3.8	-1.8	N	—	—
		3	Y	2.9	-4.1	-1.8	Y	3.2	4.7
		4	Y	2.1	-3.2	-1.1	N	—	—

Table 2 (continued). Ozone Analyzer Precision and Accuracy Summary
Sites Operated by the National Park Service
National Park Service Gaseous Pollutant Monitoring Program, 2016

			Precision				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]
Pinnacles	SW of East Entrance Stn.	1	Y	2.0	-3.2	-0.9	N	—	—
		2	Y	1.2	-2.9	0.4	Y	1.1	1.7
		3	Y	2.0	-3.2	-0.9	N	—	—
		4	Y	0.7	-3.0	1.6	Y	0.4	0.7
Rocky Mountain	Long's Peak	1	Y	0.2	-0.9	1.3	N	—	—
		2	Y	1.2	-4.2	1.8	Y	0.9	2.6
		3	Y	0.5	-2.3	1.3	N	—	—
		4	Y	2.3	-1.6	6.3	Y	1.9	2.9
Sequoia and Kings Canyon	Ash Mountain	1	Y	0.8	-1.6	0.0	N	—	—
		2	Y	0.9	-2.2	0.4	Y	0.6	1.9
		3	Y	0.2	-1.6	2.1	Y	1.5	2.3
		4	Y	0.6	-0.2	1.5	N	—	—
Sequoia and Kings Canyon	Lower Kaweah	1	—	—	—	—	—	—	—
		2	Y	2.1	-3.2	-1.1	Y	0.2	0.4
		3	Y	1.7	-2.8	-0.7	Y	1.6	2.7
		4	Y	0.8	-1.8	0.2	N	—	—
Shenandoah	Big Meadows	1	Y	1.0	-3.0	1.0	N	—	—
		2	Y	0.9	-2.3	4.0	Y	1.5	1.8
		3	Y	0.7	-2.8	4.3	Y	1.3	1.9
		4	Y	2.0	0.2	3.8	N	—	—
Voyageurs	Sullivan Bay	1	Y	1.9	-3.0	-0.8	N	—	—
		2	N	1.7	-2.3	-1.2	N	—	—
		3	Y	0.6	-1.7	0.4	Y	1.5	1.9
		4	Y	0.2	-1.2	0.7	Y	1.2	1.5
Yellowstone	Water Tank	1	Y	0.5	-2.3	3.2	N	—	—
		2	Y	0.1	-2.6	2.3	Y	0.5	1.3
		3	Y	0.6	-2.6	1.4	Y	1.3	2.1
		4	Y	0.3	-3.5	3.0	N	—	—
Yosemite	Turtleback Dome	1	Y	2.4	-4.0	-0.9	N	—	—
		2	Y	1.9	-3.3	-0.5	Y	0.9	1.8
		3	Y	1.2	-2.2	-0.3	N	—	—
		4	Y	1.9	-3.4	-0.4	Y	0.4	0.7

Table 2 (continued). Ozone Analyzer Precision and Accuracy Summary
Sites Operated by the National Park Service
National Park Service Gaseous Pollutant Monitoring Program, 2016

			Precision				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	2.9	-4.9	-0.9	Y	0.3	0.7
		2	Y	2.8	-3.9	-1.6	N	—	—
		3	Y	4.0	-5.7	-2.2	N	—	—
		4	Y	1.8	-4.3	0.8	Y	1.6	2.2

Operating agency 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

Color shading key:

Ideal: indicates a percent difference within +/-5% or a probability limit within +/-10%

Acceptable: indicates a percent difference between +/-5.1-10% or a probability limit between +/-10.1-15%

Unacceptable: indicates a percent difference greater than +/-10% or a probability limit greater than +/-15%

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 the

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%.