



GWYB DBF
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Office of the Chief

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April 09, 2015

Mark Hansen
Acting Associate Director for Air
U.S. EPA Region 6
1445 Ross Avenue
Suite 1200
Mail Code: 6PD
Dallas, TX 75202-2733

RE: Air Monitoring Data Certification Letter

Mr. Hansen,

The Cherokee Nation Environmental Programs (CNEP) office is submitting AMP450NC and AMP600 reports for the first, second, third and fourth quarters of 2014. The reports were generated by April Hathcoat, Environmental Specialist III and the Data Reporting Officer for CNEP. Data from all combinations of site, monitor, pollutant, and POC in the attached 2014 AMP450NC and AMP600 summary reports is being certified. An electronic copy of the reports in PDF format will also be sent to the regional office. Our Data Reporting Officer certifies that the ambient concentration data and the quality assurance data are completely submitted to AQS, and that the ambient data are accurate to the best of her knowledge taking into consideration the quality assurance findings.

If you need any additional information or have questions, please contact me at (918) 453-5093 or rcallison@cherokee.org.

Sincerely,

Ryan Callison, Director
Cherokee Nation Environmental Programs

CC: Aunjanee Gautreaux, Project Officer, EPA Region VI Office, Air Quality Analysis Section (6PD)
Trisha Curran, Data Certification Contact, EPA Region VI Office, Air Quality Analysis Section (6PD)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: HCZ

QUICKLOOK ALL PARAMETERS

Report Request ID: 1319118

Report Code: AMP450NC

Apr. 9, 2015

GEOGRAPHIC SELECTIONS									
Tribal									
Code	State	County	Site	Parameter	POC	City	AQCR	UAR	EPA
									Region

40

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration

AGENCY SELECTIONS

Cherokee Nation, Oklahoma
Cherokee Nation/ITEC (consortium)

ALL

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
MERGE PDF FILES	YES	1	STATE_CODE
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	2	COUNTY_CODE
AGENCY ROLE	PQAO	3	SITE_ID
		4	PARAMETER_CODE
		5	POC
		6	DATES
		7	EDT_ID

DATE CRITERIA

Start Date End Date
2014 2014

APPLICABLE STANDARDS

Standard Description

CO 8-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
Lead Quarterly 1978
NO2 Annual 1971
Ozone 8-Hour 2008
PM10 24-hour 2006
PM25 24-hour 2013
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

Parameter	Unit	City: Cherry Tree	County: Adair	P O C	QA/QC	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	Cert'd Eval	
Site ID: 40-001-9009		City: Cherry Tree	County: Adair						Address: South Highway 59, RR1, 1795 Dahlenogah Park Road, Stilwell, Oklahoma							
42101 Carbon monoxide	Parts per million			1	905	2014	588	8164	.4	.4	.4	.4	.17	8-HR RUN AVG END	0	
42401 Sulfur dioxide	Parts per billion			1	905	2014	592	7345	43.2	35.4	34.8	34.5	2.02*	1 HOUR	0	
42401 Sulfur dioxide	Parts per billion			2	905	2014	592	*****	88.2	53.8	35.6	35.4	.60*	5 MINUTE	0	
42600 Reactive oxides of nitrogen (NOy)	Parts per billion			2	905	2014	690	7869	124.2	87.8	34.0	32.0	3.09	1 HOUR	0	
42601 Nitric oxide (NO)	Parts per billion			2	905	2014	690	6866	33.0	31.0	31.0	7.7	.17	1 HOUR	0	
42603 Oxides of nitrogen (NOx)	Parts per billion			2	905	2014	591	7114	14.0	13.9	13.7	13.6	2.54	1 HOUR	0	
42604 Ammonia	Parts per billion			2	905	2014	592	7102	.0210	.0198	.0195	.0162	.00293	1 HOUR	0	
42612 NOy - NO	Parts per billion			2	905	2014	690	7686	125.3	87.1	34.0	34.0	2.91	1 HOUR	0	
44201 Ozone	Parts per million			1	905	2014	091	8504	.066	.064	.063	.063	.0415	8-HR RUN AVG BEGIN	0	
61103 Wind Speed - Resultant	Knots			1	905	2014	020	8671	21.3	20.1	19.7	19.5	5.25	1 HOUR	0	
61104 Wind Direction - Resultant	Degrees Compass			1	905	2014	020	8663	359.0	359.0	359.0	359.0	185.26	1 HOUR	0	
62101 Outdoor Temperature	Degrees Fahrenheit			1	905	2014	020	8667	94	94	94	94	57.3	1 HOUR	0	
62101 Outdoor Temperature	Degrees Fahrenheit			2	905	2014	020	8667	96	96	96	96	57.1	1 HOUR	0	
62201 Relative Humidity	Percent relative humidity			1	905	2014	011	8139	100	100	100	100	70.0	1 HOUR	0	
65101 Rain 24hr total	Inches (rainfall)			1	905	2014	091	8224	1.53	1.16	.96	.91	.005	1 HOUR	0	
81102 PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)			3	905	2014	122	8195	592	589	570	522	18.6	1 HOUR	0	
81102 PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)			3	905	2014	122	342	350	195	103	71	18.2	24-HR BLK AVG	0	
86101 PM10-2.5 - Local Conditions	Micrograms/cubic meter (LC)			1	905	2014	185	8200	985.0	934.0	358.3	214.7	7.52	1 HOUR	0	
88502 Acceptable PM2.5 AQI & Speciation	Micrograms/cubic meter (LC)			2	905	2014	170	347	26.3	23.9	23.0	22.4	8.71	24-HR BLK AVG	0	
88502 Acceptable PM2.5 AQI & Speciation	Micrograms/cubic meter (LC)			2	905	2014	170	8363	70.5	63.7	58.1	54.4	8.75	1 HOUR	0	
Site ID: 40-021-9002	City: Park Hill		County: Cherokee						Address: P.O. BOX 948 TAHLEQUAH, OK 74464							
44201 Ozone	Parts per million			1	905	2014	087	6800	.063	.061	.061	.061	.0412	8-HR RUN AVG BEGIN	0	

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

Parameter	Unit	P O C	QA/QA	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	Cert'd Eval
Site ID: 40-021-9002	City: Park Hill	County: Cherokee	Address: P.O. BOX 948	TAHLEQUAH, OK	74464								
61101 Wind Speed - Scalar	Knots	1	905	2014	061	8668	73.8	28.7	18.4	17.2	4.42	1 HOUR	0
61102 Wind Direction - Scalar	Degrees Compass	1	905	2014	061	8676	359	359	359	359	166.7	1 HOUR	0
62101 Outdoor Temperature	Degrees Fahrenheit	1	905	2014	040	8740	99	99	97	97	57.8	1 HOUR	0
62201 Relative Humidity	Percent relative	1	905	2014	011	8747	93	92	92	92	65.5	1 HOUR	0
65101 Rain 24hr total	humidity												
Site ID: 40-071-9010	City: Not in a city	County: Kay	Address: NORTH OF NEWKIRK OK. ON HWY 77 - EAST HOME ROAD										
44201 Ozone	Parts per million	1	905	2014	091	6607	.077	.070	.069	.069	.0446	8-HR RUN	0
												AVG BEGIN	
61101 Wind Speed - Scalar	Knots	1	905	2014	061	8191	86.0	85.3	67.2	64.8	7.25	1 HOUR	0
61102 Wind Direction - Scalar	Degrees Compass	1	905	2014	061	8191	359	359	359	359	166.4	1 HOUR	0
62101 Outdoor Temperature	Degrees Fahrenheit	1	905	2014	040	8699	100	100	99	99	57.0	1 HOUR	0
62201 Relative Humidity	Percent relative	1	905	2014	011	8693	88	88	88	88	58.7	1 HOUR	0
	humidity												
65101 Rain 24hr total	Inches (rainfall)	1	905	2014	091	8706	1.15	.92	.88	.75	.003	1 HOUR	0
Site ID: 40-081-9024	City: Not in a city	County: Lincoln	Address: Located 4 miles south of Perkins, OK on E0760 Road										
44201 Ozone	Parts per million	1	W32	2014	091	8470	.072	.069	.068	.066	.0450	8-HR RUN	0
												AVG BEGIN	
61101 Wind Speed - Scalar	Knots	1	W32	2014	020	8466	26.9	26.0	25.5	25.3	7.74	1 HOUR	0
61102 Wind Direction - Scalar	Degrees Compass	1	W32	2014	020	8500	345	343	341	341	175.8	1 HOUR	0
62101 Outdoor Temperature	Degrees Fahrenheit	1	W32	2014	040	8500	102	102	101	101	60.7	1 HOUR	0
62201 Relative Humidity	Percent relative	1	W32	2014	011	8501	100	100	100	100	60.6	1 HOUR	0
	humidity												
81102 PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)	1	W32	2014	079	8343	499	473	402	391	21.0	1 HOUR	0
81102 PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)	1	W32	2014	079	346	96	85	83	66	20.6	24-HR BLK	0
												AVG	
88501 PM2.5 Raw Data	Micrograms/cubic meter (LC)	3	W32	2014	701	8394	116.6	112.9	112.1	110.2	9.46	1 HOUR	0
88501 PM2.5 Raw Data	Micrograms/cubic meter (LC)	3	W32	2014	701	349	35.8	31.2	29.3	28.2	9.42	24-HR BLK	0
												AVG	

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

Parameter	Unit	P O C	POAO	Year	Meth	# Obs	1st Value	Max Value	2nd Value	Max Value	3rd Value	Max Value	4th Value	Max Value	Arith. Mean	Duration	Cert'd Eval
Site ID: 40-097-9014	City: Not in a city	County: Mayes					Address: CHEROKEE HEIGHTS DRIVE										
42600	Reactive oxides of nitrogen (NOY)	Parts per billion	1	905	2014	691	8117	132.0	65.9	58.6	45.6	4.20	1 HOUR	0			
42601	Nitric oxide (NO)	Parts per billion	1	905	2014	691	6091	141.2	27.0	26.6	21.9	.37*	1 HOUR	0			
42612	NOY - NO	Parts per billion	1	905	2014	691	8115	68.8	36.2	31.8	31.5	3.96	1 HOUR	0			
44201	Ozone	Parts per million	1	905	2014	091	6881	.062	.061	.061	.060	.0406	8-HR RUN	0			
													AVG BEGIN				
61101	Wind Speed - Scalar	Knots	1	905	2014	020	8416	18.5	17.5	17.2	17.2	4.65	1 HOUR	0			
61102	Wind Direction - Scalar	Degrees Compass	1	905	2014	020	8719	332	332	332	331	171.1	1 HOUR	0			
62101	Outdoor Temperature	Degrees Fahrenheit	1	905	2014	040	8720	96	96	96	96	57.4	1 HOUR	0			
62201	Relative Humidity	Percent relative	1	905	2014	011	8620	94	94	94	94	63.8	1 HOUR	0			
		humidity															
65101	Rain 24hr total	Inches (rainfall)	1	905	2014	091	8354	.99	.99	.96	.84	.004	1 HOUR	0			
Site ID: 40-125-9023	City: Not in a city	County: Pottawatomie					Address: Located behind Environmental Office on Hardesty Road, Shawnee, OK										
61101	Wind Speed - Scalar	Knots	1	W32	2014	020	179	14.5	14.5	14.2	14.2	7.18	1 HOUR	0			
61102	Wind Direction - Scalar	Degrees Compass	1	W32	2014	020	179	324	324	324	323	222.5	1 HOUR	0			
62101	Outdoor Temperature	Degrees Fahrenheit	1	W32	2014	040	179	61	60	60	58	30.6	1 HOUR	0			
62201	Relative Humidity	Percent relative	1	W32	2014	011	179	79	76	76	75	52.5	1 HOUR	0			
		humidity															
Site ID: 40-135-9021	City: Roland	County: Sequoyah					Address: 207 Cherokee Boulevard, Roland, OK 74954										
42601	Nitric oxide (NO)	Parts per billion	1	905	2014	090	7494	68.0	66.0	65.0	63.0	1.23	1 HOUR	0			
42602	Nitrogen dioxide (NO2)	Parts per billion	1	905	2014	090	7415	60.0	40.4	34.8	33.7	5.87	1 HOUR	0			
42603	Oxides of nitrogen (NOx)	Parts per billion	1	905	2014	090	7494	107.0	103.0	99.0	97.0	6.98	1 HOUR	0			
44201	Ozone	Parts per million	1	905	2014	087	6117	.067	.061	.061	.060	.0402	8-HR RUN	0			
													AVG BEGIN				
61101	Wind Speed - Scalar	Knots	1	905	2014	020	8233	22.1	21.0	20.8	17.6	3.59	1 HOUR	0			
61102	Wind Direction - Scalar	Degrees Compass	1	905	2014	020	8345	340	339	336	331	144.9	1 HOUR	0			
62101	Outdoor Temperature	Degrees Fahrenheit	1	905	2014	040	8345	98	98	98	98	58.8	1 HOUR	0			
62201	Relative Humidity	Percent relative	1	905	2014	011	8345	89	89	89	89	63.4	1 HOUR	0			
		humidity															
81102	PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)	1	905	2014	150	8268	349	319	307	298	20.5	1 HOUR	0			

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

Parameter	Unit	County: Sequoyah	#	Address: 207 Cherokee Boulevard, Roland, OK 74954				Arith. Mean	Duration	Certif. Eval
				1st Max Value	2nd Max Value	3rd Max Value	4th Max Value			
Site ID: 40-135-9021	City: Roland									
81102 PM10 Total 0-10um STP	Micrograms/cubic meter (25 C)	1 905	2014 150	342	72	72	61	55	20.1	24-HR BLK AVG
88501 PM2.5 Raw Data	Micrograms/cubic meter (LC)	3 905	2014 701	346	26.9	25.4	23.1	23.1	10.04	24-HR BLK AVG
88501 PM2.5 Raw Data	Micrograms/cubic meter (LC)	3 905	2014 701	8323	103.9	93.5	76.6	67.5	10.10	1 HOUR

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42101	588	INSTRUMENTAL	Gas Filter Correlation Ecotech EC9830T
42401	592	Instrumental	Ultraviolet Fluorescence EC9850T
42600	690	Instrumental	Chemiluminescence Ecotech EC9841T
42600	691	Instrumental	Chemiluminescence Ecotech EC9843
42601	090	Instrumental	Gas Phase Chemiluminescence
42601	690	Instrumental	Chemiluminescence Ecotech EC9841T
42601	691	Instrumental	Chemiluminescence Ecotech EC9843
42602	090	INSTRUMENTAL	GAS-PHASE CHEMILUMINESCENCE
42603	591	Instrumental	Gas Phase Chemiluminescence
42604	592	Instrumental	Chemiluminescence Ecotech EC9842T
42612	690	Instrumental	Chemiluminescence Ecotech EC9841T
42612	691	Instrumental	Chemiluminescence Ecotech EC9843
44201	087	INSTRUMENTAL	ULTRA VIOLET ABSORPTION
44201	091	INSTRUMENTAL	ULTRAVIOLET RADIATION ABSORBTN
61101	020	INSTRUMENTAL	SPOT READING
61101	061	Instrumental	Met One Sonic Anemometer Model 50.5
61102	020	INSTRUMENTAL	SPOT READING
61102	061	Instrumental	Met One Sonic Anemometer Model 50.5
61103	020	INSTRUMENTAL	VECTOR SUMMATION
61104	020	INSTRUMENTAL	VECTOR SUMMATION
62101	020	INSTRUMENTAL	SPOT READING
62101	040	INSTRUMENTAL	ELECTRONIC OR MACHINE AVG.
62201	011	INSTRUMENTAL	HYGROTHERMOGRAPH ELEC OR MACH AVG
65101	091	BUCKET	STANDARD NWS RAIN GAGE
81102	079	INSTRUMENTAL-R&P SA246B-INLET	TEOM-GRAVIMETRIC
81102	122	INSTRUMENT MET ONE 4 MODELS	BETA ATTENUATION
81102	150	T A Series FH 62 C14 Continuous	Beta Attenuation
86101	185	Met One BAM-1020 System	Paired Beta Difference
88501	701	PM2.5 SCC w/No Correction Factor	TEOM Gravimetric 50 deg C
88502	170	Met-one BAM-1020 w/PM2.5 SCC	Beta Attenuation

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

PQAOs USED IN THIS REPORT

Apr. 9, 2015

PQAO	AGENCY DESCRIPTION
905	Cherokee Nation, Oklahoma
W32	Cherokee Nation/ITEC (consortium)

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Apr. 9, 2015

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: HCZ

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 1319142

Report Code: AMP600

Apr. 9, 2015

GEOGRAPHIC SELECTIONS											
Tribal		EPA									
Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	Region

40

PROTOCOL SELECTIONS				AGENCY SELECTIONS			
Parameter	Parameter	Method	Duration	Cherokee Nation, Oklahoma			
Classification	Parameter	Method	Duration	Cherokee Nation/ITEC (consortium)			

CRITERIA

SELECTED OPTIONS		Option Value
Option Type	YES	
MERGE PDF FILES	YES	
AGENCY ROLE	CERTIFYING	

DATE CRITERIA	
Start Date	End Date
2014	2014

Data Evaluation and Concurrence Report Summary

Apr. 9, 2015

Certification Year: 2014
 Certifying Agency (CA): Cherokee Nation, Oklahoma (905)

Pollutants in Report:

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Carbon monoxide	42101	1	1	0
Nitrogen dioxide (NO2)	42602	1	1	0
Ozone	44201	5	5	0
PM10 Total 0-10um STP	81102	2	2	0
Sulfur dioxide	42401	1	1	0

PQAAs in Report:

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Cherokee Nation, Oklahoma	905	

Summary of 'N' flags for all pollutants:

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>
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Signature of Monitoring Organization Representative:  Reason for AQS Recommendation

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014

Certifying Agency Code Cherokee Nation, Oklahoma (905)

Parameter Carbon monoxide (42101) (ppm)

PQAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

NPAP Audit Summary: Number of Valid Audits NPAP Bias Criteria Met

0

Y

AQSSite ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag	
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr. Flag	Aqs Rec Flag	CA Rec Epa Concur
40-001-9009	1 TRIBAL	0.168	0.010	1.361	0	0	88	6.49	+/-5.45	85	- 0.11	100	Y	Y	Y

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014

Certifying Agency Code Cherokee Nation, Oklahoma (905)
Parameter Nitrogen dioxide (NO2) (42602) (ppb)

PQAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

NPAP Audit Summary: Number of Valid Audits NPAP Bias Criteria Met
0 Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag		
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur
40-135-9021	1 TRIBAL	5.9	0.3	60.0		0	85	5.78	-9.78	77	- 3.81	100	Y	Y	Y	S

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014

Certifying Agency Code Cherokee Nation, Oklahoma (905)

Parameter Ozone (44201) (ppm)

PQAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

NPAP Audit Summary: Number of Valid Audits NPAP Bias Criteria Met

0

Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias Complete	Bias Complete	Complete	Bias Criteria	PQAO Level	QAPP Appr. Flag	Aqs Rec Flag	CA Rec Flag	Epa Concur
40-001-9009	1 TRIBAL	0.046	0.011	0.071	0	0	93	2.98	+/-3.07	100	4.80	100	Y	Y	Y	Y	S
40-021-9002	1 TRIBAL	0.046	0.013	0.076	0	0	94	1.32	+2.45	100	0.41	100	Y	Y	Y	Y	S
40-071-9010	1 TRIBAL	0.049	0.014	0.101	0	0	91	3.82	+/-3.17	100	4.94	100	Y	Y	Y	Y	S
40-097-9014	1 TRIBAL	0.046	0.011	0.079	0	0	95	2.28	+/-2.03	100	- 0.76	100	Y	Y	Y	Y	S
40-135-9021	1 TRIBAL	0.046	0.006	0.071	0	0	86	2.58	+/-2.40	95	0.14	100	Y	Y	Y	Y	S

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014

Certifying Agency Code Cherokee Nation, Oklahoma (905)

Parameter Sulfur dioxide (42401) (ppb)

PQAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

NPAP Audit Summary: Number of Valid Audits NPAP Bias Criteria Met

0

Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag		
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Complete	Bias	PQAO Level Criteria	QAPP Aqs Rec Appr. Flag	CA Rec Flag	Epa Concur
40-001-9009	1 TRIBAL	0.6	- 0.2	43.2		0	84	1.57	-8.52	88	2.37	100	Y	Y	Y	S

Data Evaluation and Concurrence Report for Particulate Matter

Certifying Year:2014
Certifying Agency:Cherokee Nation, Oklahoma (905)

Parameter: PM10 Total 0-10um STP (81102) CONTINUOUS
PQAO Name: Cherokee Nation, Oklahoma (905)
Quality Assurance Project Plan Approval Date: 06/11/2012

Monitors Summaries

AQS Site ID	POC	Monitor Type	Mean	Min	Max	Routine Data (ug/m3)			Flow Rate Verification		Flow Rate Audit		Concurrence Flag			
						Exceed. Count	Outlier Count	% Complete	Bias	% Complete	Bias	% Complete	QAPP Appr.	AQS Rec Flag	CA Rec Flag	EPA Rec Flag
40-001-9009	3	TRIBAL	18.56	2.0	592.0	0	0	93	+/-0.25	100	+1.71	70	Y	Y	Y	S
40-135-9021	1	TRIBAL	20.54	2.0	349.0	0	0	94	+/-0.61	100	-1.04	100	Y	Y	Y	S

Data Concurrency and Evaluation Report for Lead