



GWYB DBF
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Office of the Chief

Bill John Baker
Principal Chief
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S. Joe Crittenden
Deputy Principal 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,

, Director

Cherokee Nation Environmental Programs

CC: Aunjane 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)

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	CBSA	CSA	Region
											EPA

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

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

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	PQAO	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	Certk E
Site ID: 40-021-9002 City: Park Hill County: Cherokee Address: P.O. BOX 948 TAHEQUAH, OK 74464															
61101	Wind Speed - Scalar					2014	061	8668	73.8	28.7	18.4	17.2	4.42	1 HOUR	0
61102	Wind Direction - Scalar					2014	061	8676	359	359	359	359	166.7	1 HOUR	0
62101	Outdoor Temperature					2014	040	8740	99	99	97	97	57.8	1 HOUR	0
62201	Relative Humidity					2014	011	8747	93	92	92	92	65.5	1 HOUR	0
65101 Rain 24hr total Inches (rainfall) 1 905 2014 091 8750 1.06 1.04 1.00 .80 .004 1 HOUR 0															
Site ID: 40-071-9010 City: Not in a city County: Kay Address: NORTH OF NEWKIRK OK. ON HWY 77 - EAST HOME ROAD (E0040RD) .90 MILES															
44201	Ozone					2014	091	6607	.077	.070	.069	.069	.0446	8-HR RUN	0
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					2014	061	8191	359	359	359	359	166.4	1 HOUR	0
62101	Outdoor Temperature					2014	040	8699	100	100	99	99	57.0	1 HOUR	0
62201	Relative Humidity					2014	011	8693	88	88	88	88	58.7	1 HOUR	0
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 south of the Iowa Tribe Bah-Kho-Je Pow Wow Grounds															
44201	Ozone					2014	091	8470	.072	.069	.068	.066	.0450	8-HR RUN	0
61101 Wind Speed - Scalar Knots 1 905 2014 020 8466 26.9 26.0 25.5 25.3 7.74 1 HOUR 0															
61102	Wind Direction - Scalar					2014	020	8500	345	343	341	341	175.8	1 HOUR	0
62101	Outdoor Temperature					2014	040	8500	102	102	101	101	60.7	1 HOUR	0
62201	Relative Humidity					2014	011	8501	100	100	100	100	60.6	1 HOUR	0
81102 PM10 Total 0-10um STP Micrograms/cubic meter 1 905 2014 079 8343 499 473 402 391 21.0 1 HOUR 0															
81102 PM10 Total 0-10um STP (25 C) Micrograms/cubic meter 1 905 2014 079 346 96 85 83 66 20.6 24-HR BLK 0															
88501 PM2.5 Raw Data Micrograms/cubic meter 3 905 2014 701 8394 116.6 112.9 112.1 110.2 9.46 1 HOUR 0															
88501 PM2.5 Raw Data Micrograms/cubic meter 3 905 2014 701 349 35.8 31.2 29.3 28.2 9.42 24-HR BLK 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/QC	Year	Meth	# Obs	1st Max Value				2nd Max Value				3rd Max Value				4th Max Value				Arith. Mean	Duration	Cert'd Eval	
							1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th				
Site ID: 40-097-9014 City: Not in a city County: Mayes Address: CHEROKEE HEIGHTS DRIVE																										
42600	Reactive oxides of nitrogen (NOy)			2014	691	8117	132.0	65.9	58.6	45.6	4.20	1 HOUR	0													
42601	Nitric oxide (NO)			2014	691	6091	141.2	27.0	26.6	21.9	.37*	1 HOUR	0													
42612	NOy - NO			2014	691	8115	68.8	36.2	31.8	31.5	3.96	1 HOUR	0													
44201	Ozone			2014	091	6881	.062	.061	.061	.060	.0406	8-HR RUN	0													
AVG BEGIN																										
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			2014	020	8416	18.5	17.5	17.2	17.2	4.65	1 HOUR	0													
61102	Wind Direction - Scalar			2014	020	8719	332	332	332	331	171.1	1 HOUR	0													
62101	Outdoor Temperature			2014	040	8720	96	96	96	96	57.4	1 HOUR	0													
62201	Relative Humidity			2014	011	8620	94	94	94	94	63.8	1 HOUR	0													
humidity																										
65101	Rain 24hr total			2014	091	8354	.99	.99	.96	.84	.004	1 HOUR	0													
Inches (rainfall)																										
Site ID: 40-135-9021 City: Roland County: Sequoyah Address: 207 Cherokee Boulevard, Roland, OK 74954																										
42601	Nitric oxide (NO)			2014	090	7494	68.0	66.0	65.0	63.0	1.23	1 HOUR	0													
42602	Nitrogen dioxide (NO2)			2014	090	7415	60.0	40.4	34.8	33.7	5.87	1 HOUR	0													
42603	Oxides of nitrogen (NOx)			2014	090	7494	107.0	103.0	99.0	97.0	6.98	1 HOUR	0													
44201	Ozone			2014	087	6117	.067	.061	.061	.060	.0402	8-HR RUN	0													
AVG BEGIN																										
61101	Wind Speed - Scalar			2014	020	8233	22.1	21.0	20.8	17.6	3.59	1 HOUR	0													
61102	Wind Direction - Scalar			2014	020	8345	340	339	336	331	144.9	1 HOUR	0													
62101	Outdoor Temperature			2014	040	8345	98	98	98	98	58.8	1 HOUR	0													
62201	Relative Humidity			2014	011	8345	89	89	89	89	63.4	1 HOUR	0													
humidity																										
81102	PM10 Total 0-10um STP			2014	150	8268	349	319	307	298	20.5	1 HOUR	0													
(25 C)																										

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:	P O C	Year	Meth	# Obs	Address: 207 Cherokee Boulevard, Roland, OK 74954				Arith. Mean	Duration AVG	Cert& Eval
							1st Max Value	2nd Max Value	3rd Max Value	4th Max Value			
81102	PM10 Total 0-10um STP	Sequoyah	1	2014	150	342	72	72	61	55	20.1	24-HR BLK AVG	0
88501	PM2.5 Raw Data	Sequoyah	3	2014	701	346	26.9	25.4	23.1	23.1	10.04	24-HR BLK AVG	0
88501	PM2.5 Raw Data	Sequoyah	3	2014	701	8323	103.9	93.5	76.6	67.5	10.10	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

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	090	Instrumental	Gas Phase Chemiluminescence
42603	591	Instrumental	Chemiluminescence Ecotech EC9843
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 ABSORBPTN
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-REP 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

QAOS USED IN THIS REPORT

Apr. 9, 2015

QAOS	AGENCY DESCRIPTION
905	Cherokee Nation, Oklahoma
M32	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 AQP255 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 Code State County Site Parameter POC City AOCR UAR CBSA CSA EPA Region

40

PROTOCOL SELECTIONS

Parameter Classification Parameter Method Duration

AGENCY SELECTIONS

Cherokee Nation, Oklahoma
Cherokee Nation/ITEC (consortium)

CRITERIA

SELECTED OPTIONS

Option Type

Option Value

MERGE PDF FILES
AGENCY ROLE

YES
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:

PQAO Name Cherokee Nation, Oklahoma PQAO Code 905 TSA Date

Summary of 'N' flags for all pollutants:

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>	<u>Reason for AQS Recommendation</u>
<u>PQAO Code</u> <u>AQS Site-ID</u> <u>POC</u> <u>Flag</u>	<u>Flag</u>	<u>Flag</u>	

Signature of Monitoring Organization Representative:

Data Evaluation and Concurrence Report for Gaseous Pollutants

Certifying Year 2014

Certifying Agency Code Cherokee Nation, Oklahoma (905)

Parameter Carbon monoxide (42101) (ppm)

QAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

NPAP Audit Summary:

Number of Valid Audits 0
 NPAP Bias Criteria Met Y

AQS Site ID	POC Monitor Type	Routine Data				One Point Quality Check		Annual PE		NPAP PQAQ Level Criteria	QAPP Appr. Flag	Aqs Rec Flag	Concur. Flag	CA Rec Flag	Epa Concur		
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision Bias	Complete							Bias	Complete
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	Y	S

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 PQAO Level Criteria	QAPP Appr. Flag	Aqs Rec Flag	Concur. Flag	CA Rec Flag	Epa Concur	
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision Bias	Complete	Bias							Complete
40-135-9021	1 TRIBAL	5.9	0.3	60.0	0	0	85	5.78	-9.78	77	-3.81	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 Ozone (44201) (ppm)

PQAO Name Cherokee Nation, Oklahoma (905)

QAPP Approval Date 06/11/2012

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

QAO 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 QAO Level Criteria	QAPP Appr. Flag	Aqs Rec Flag	Concur. Flag	CA Rec Flag	Epa Concur	
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete							Complete
40-001-9009	1 TRIBAL	0.6	- 0.2	43.2	0	0	84	1.57	-8.52	88	2.37	100	Y	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

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

Data Concurrency and Evaluation Report for Lead