











	QA Strategy Workgroup					
S	tep 1:	Visu Environmental Prote		spe	ection	
		Quality Control and Mai TEI 48C TLE CO	Analyzer			
	Site Name/Location	Data	Ine			
	Iechnizian	he trune at ID#	Date of LastCable	1921		
	THI Dis mertier	Astulleading	Acceptance Criteria	Ascentible	2	
	Lange		0-1.000 ppm			
	Awanging Time		10-300 recents			
	CO Background		0-12	_		
	CO Span Coefficient		0 500-1 100			
	Bariz Volta p		-105 to -115V			
	Power (+5/+15/15/Battery)		#0 1V, >3.0V			
	Internal Temperature		\$47°C			
	Chamber Ismperature		48-52 °C			
	Chamber Press me		650-760 mm Hg			
	Sampis Pis w		0.53-10 Lmm			
	ACLEAD		110-110			
	Motor Stead		100%			
	Change Particle Filter	Y N	Auto Zazo Fing (Hzr.)	_		
	Сайдахот Куре/ПР «ПОН РРМ РЯС 	Our lity Contro Cortification Date Cortification Observed	I <u>Resuks</u> Eupin NDataEu	ნია Dats ლინიაDats	_	
	Point Expected California # CO, ppb ()	tal 1-min awa p. toz. ppb PP6 EFW Y) (X)	l-minus aux p. pph. EX	% Doubtion ? EFW	% Deviation EX	
	2					
	HH -		-			
	3					
			1		h	
	Unadjus tod 3-point Californium	Unadjurad M-P Cal	ilation Ağırtei	M-PCableation	1	
	Zezo pi±20 ppb o¥oN P	s sizionPoint ±1.% of expected	lvabaol⊺oN &∏lcabhaa	ton point ±10% ol	Ka)	
	EFW Is gassion Criteria: XY	(0 5500 < M<1.0200)	(-+0.00 < B< +0.00)	E [*] (> 5950)	-	
	Commond:					

		QA	Strategy Work	group		
Time	NO (ppb)	N0y (ppb)	NO2	O3 (ppb)	2m Temp	RH (%)
00:00 AM	1.53	5.86	2.01	33.8	2.1	5
1:00:00 AM	1.34	4.88	1.8	35.2	1.3	5
2:00:00 AM	1.28	4.45	1.51	37.8	0.8	5
3:00:00 AM	6.32	3.15	-32.73	38.3	0.4	5
4:00:00 AM	1.17	4.14	1.9	33.5	-1.1	6
5:00:00 AM	1.66	4.79	1.54	31.4	-1.7	6
6:00:00 AM	1.47	4.55	1.51	32.2	-1.4	6
7:00:00 AM	1.76	5.42	2.37	31.5	-1.7	5
8:00:00 AM	2.86	6.85	1.96	32.3	-0.9	5
9:00:00 AM	2.12	4.01	-0.93	38.1	1	3
10:00:00 AM	2.03	3.62	-1.56	40.6	2.7	3
11:00:00 AM	1.83	3.26	-1.75	42.8	4.2	2
12:00:00 PM	1.83	3.22	-1.84	44	5.7	2
13:00:00 PM	1.59	3.45	-1.04	45	6.8	2

Agency	🚥 🛛 🖌 Ambi	ent Air Quality System	Training				
QA Strategy Workgroup							
	0(
	Step /:	Final Eval	luation				
Ozone Validation Template	e						
Requirement	Frequency	Acceptance Criteria	Information /Action				
	CI	RITICAL CRITERIA-Ozone					
One Point QC Check	1/2 weeks	<_7% (percent difference)	0.01 - 0.10 ppm				
Single analyzer			40 CER Dart 58 Ann & Sec 3 2				
Zero/span check	1/2 weeks	Zero drift s ± 2% of full scale	to citerat so sport occord				
		Span drift = ± 15 %					
	OPER	ATIONAL CRITERIA - Ozone					
Shelter Temperature							
1 emperature range	Daily	20 to 30° C. (Hourly ave)	Generally the 20-30 C range will apply				
	(hourly values)	OF	but the most restrictive operade range or				
	(notary toract)	decignated to a mider temperature range	me instruments in the sherter may also be				
Temperature Control	Daily (hourly values)	c = 2° C SD over 24 hours	usea as garanace				
Temperature Device Check	2/wear	+ 2°C of standard					
Precision/using L-point OC	Calculated annually and as	90% CL CV < 7%	90% Confidence Limit of coefficient of				
checks)	appropriate for design value estimates		variation. 40 CFR Part 58 App A sec 4.1.2				
Bias (using 1-point QC checks)	Calculated annually and as	95% CL < + 7%	05% Confidence Limit of absolute bias				
	appropriate for design value estimates		estimate. 40 CFR Part 58 App A sec 4.1.3				
Annual Performance Evaluation							
Single analyzer	Every site 1/year 25 % of sites quarterly	Percent difference of each audit level 15%	3 consecutive audit concentration not including zero. 40 CFR Part 58 App A sec 3.2.2				
Primary QA Organization (PQAO)	annually	95% of audit percent differences fall within the one point QC check 95% probability intervals at PQAO level of aggregation	40 CFR Part 58 App A sec 4.1.4				
Federal Audits (NPAP)	1/year at selected sites 20% of sites audited	Mean absolute difference 🖉 10%	40 CFR Part 58 App A sec 2.4				
State audits	1/year	State requirements					
Calibration	Upon receipt/adjustment/repair	All points within ± 2 % of full scale of best-	Multipoint calibration (0 and 4 upscale				
	and 1/6 months if manual resolution	fit straight line	points) 40 CFR Part 50 App D sec 5.2.3				
	nerformed hiweekly	Linearity error <5 %					
	1/year if continuous zero/span						
Zero Air	performed daily	Concentrations below LDL					
Gaseous Standards		NIST Traceable	40 CFR Part 58 App A sec 2.6.1				
Cancous Standards		(e.g., EPA Protocol Gas)	in contrait so tipp to see 2001				
Zero Air Check	1/year	Concentrations below LDL		-			
Ozone Local primary standard				-			

