CED Enhanced Monitoring Instrument Checklist

Source Identification:	Date:
Analyzer Model No.:	Serial No.:

Daily Initial Measurement System Verification Tests

Test	Time:	
personnel:	Yes 🗹	No 🗹
Instrument battery charged (Section 8.2.1)		
<i>Valid annual maintenance check certification (Section 8.2.2)</i>		
H_2S scrubbing agent does not indicate a color change (Section 8.2.3)		
Particulate filter is in place and shows no liquid (Section 8.2.4)		
Calibration gas certificate is valid (Section 8.2.5) - Analytical uncertainty at least +/- 2% - Gas has not expired		
Sampling Apparatus Leak Check Performed (Section 8.2.6)		

Weekly Sensor Stability Test (Section 8.3.1)

Already performed for week: Date of Weekly Test:				
	Analyzer Response (C_{240})	Sensor Stability $(C_{240}$ - $C_{300})/ C_{240}$ x 100		
	(ppmv)	(ppmv)	(ppmv)	%
High Level Standard				

Test Results = PASS FAIL Instrument must have a result less than +/- 2.5% to pass.

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Daily Response Time Test (Section 8.4.1)

	Manufacturer Certified Cylinder Value <i>(ppmv)</i>	Target: 95% of High Std. Concentration or within 0.5 ppmv of High Std.	Target: 5% of High Std. Concentration or within 0.5 ppmv of Low Std.	Time to Reach Target (seconds)
High Level Standard				
Low Level Standard				

Response Time=

Initial Daily Instrument Error (IE) Test (Section 8.4.2, Section 8.6, Section 10)

Time <u>:</u>		Calibration Span (CS):		
	Manufacturer Certified Cylinder Value (A)	Analyzer Response (B)	Absolute Difference (B-A)	Instrument Error (Percent of Calibration Span) (B-A)/CS x 100
	ppmv	ppmv	ppmv	%
Low Level Standard				
High Level Standard				

Test Results = PASS

FAIL Instrument must have a result less than +/- 5% to pass.

Instrument Drift Test (Section 8.4.3)

Low Level Standard High Level Standard			
Time			
	Instrument Error Initial (A) [from initial IE test] %	Instrument Error Final (B) [from post run IE test] %	Drift (B-A) %

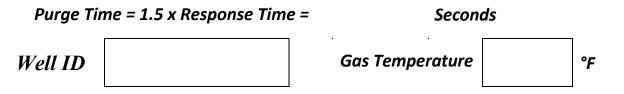
FAIL Instrument must have a result less than +/-3% to pass.

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Wellhead Sample Collection (Section 8.5)

[make copies of this page for each well to be tested]



Each run must be a minimum of 1-minute in length.

	ppmv		ppmv
Run 1 -		Instrument Range:	
Run 2 -		80% of Instrument Range:	
Run 3 -			
Run 4 -		5 x Response Time =	seconds
Run 5 -			
Average =			

Did any of the following occur during the sampling?

	Yes 🗹	No
Sensor Exposed to >80% of instrument range		
Analyzer did not return to zero +/- 20 ppm within 5 times the response time after gas removed from it		
Filters indicate that they require replacement		
Filters exposed to abnormal conditions		
End of Sampling		

If answer was yes to any of the occurrences noted above, conduct IE test, and determine drift.

QED Enhanced Monitoring Instrument Checklist

Source Identification:	Date:
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Instrument Error (IE) Test (Section 8.4.2, Section 8.6, Section 10)

Time:	Calibration Span (CS):			ppmv
	Manufacturer Certified Cylinder Value (A)	Analyzer Response (B)	Absolute Difference (B-A)	Instrument Error (Percent of Calibration Span) (B-A)/CS x 100
	ppmv	ppmv	ppmv	%
Low Level Standard				
High Level Standard				

Test Results =

PASS FAIL

Instrument must have a result less than +/- 5% to pass.

Drift test (page 2) and IE test above must pass for all samples since last passed IE (page 2) to be considered valid.

All Samples for are Valid: 🗌 Samples are Invalid: 🗌