Method 1 - Sample and Velocity Traverse

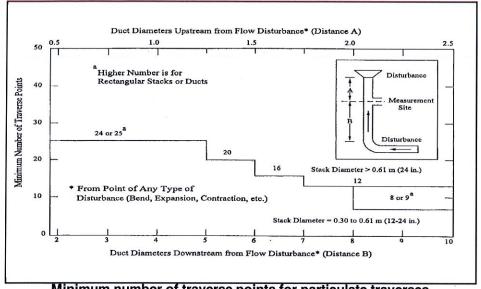
Date: 22-Apr-14

Time:

1700

Facility/Unit Stericycle Inc / Biological Incinerator

Operation Rate: ~1900 lbs/hr



<u>21 Apr 2014 at 1700</u>

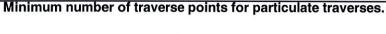
Notes:

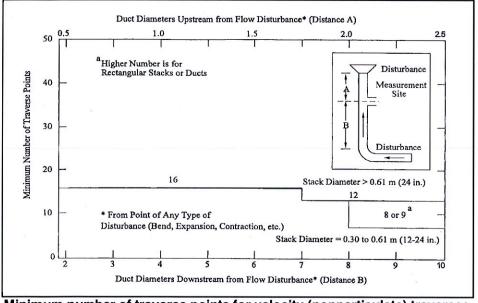
Stack Diameter _____ 29 ii

*Diameters upstream (A) ___6.0

*Diameters Downstream (B) 11.7

*For rectangular ducts, an equivalent diameter is: De = 2(L)(W)/(L + W)





Minimum number of traverse points for velocity (nonparticulate) traverses.

Note: If any question is answered NO then read the CFR to determine whether the test is acceptable.

Were the correct number of traverse points selected corresponding to the duct diameters upstream and downstream from disturbances? (11.2)

Yes

If the measurement locations were < 2 diameters downstream or < .5 diameter upstream from a disturbance, was the alternative site selection procedure used? (11.5)

N/A

If devices such as cyclones and inertial demisters following venturi scrubbers, or tangential inlets or other duct configurations which tend to induce swirling are present, was the absence of cyclonic flow determined? (11.4)

Yes

Inspector's Name: Omar Horta, John Kasper, Assefa Hailemariam

Method 2 - Stack Gas Velocity and Volumetric Flow Rate Facility/Unit: Stericycle Inc / Biological Incinerator Time: 0855 Date: 22-Apr-14 Operation Rate: ~1900 lbs/hr Note: If any question is answered NO then read the CFR to determine whether the test is acceptable. Setup: Were the inclined manometers level and zeroed? (8.2) Yes Was a Type S Pitot tube used? (6.1 and 10.2) Yes Did the Type S Pitot tube and assembly appear to be configured properly and in acceptable physical condition? (10.1) Yes What is the pitot tube coefficient, $C_{o(s)}$? (10.01, 12.4.1) 0.84 Testing: Was a post-test leak check conducted after each traverse run? (mandatory) (8.3) Yes Note: Answering YES to any of the following 4 questions indicates a more sensitive differential pressure guage must be used: (6.2) Was the average of all ΔP readings < .05 inches H2O? No If there were > 11 traverses, were > 10% of the individual ΔP readings < .05 inches H2O? No If there were < 12 traverses, was more than 1 ΔP reading < .05 inches H2)? No The Sensitiviey Factor for the Differential Pressure Guage (T) may be used as an alternative to the above 3 questions. If used, was T > 1.05? (6.2.1) No Analysis: Was Method 3 used for the determination of stack gas dry molecular weight? (8.6) (Can use a dry molecular weight of 29.0 for processes emitting essentially air.) (8.6) No

Notes:

Method 3A was used for the determination of stack gas dry molecular weight.

This method was performed continuously through the stack test.

Inspector's Name: Omar Horta, John Kasper, Assefa Hailemariam

Response time: Monitor Span: Continuously Process Information: Operating Rate (with units): ~1900 lbs/hr Interferences: Conduct an interference response test of the analyzer prior to it's initial use in the field and if the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? Yes Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Were all calibration gases current? Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Hig Range gas 40 - 60% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Quality Control: Was the Calibration error for each gas < +/- 2% of span? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the Zero drift < 3% of span over the period of each run? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Was the Calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites of CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs?	Method 3A	Facility/Unit	Stericycle inc / Biological Incinerator		
Monitor Span: Continuously Process Information: Operating Rate (with units): ~1900 lbs/hr Interferences: Conduct an interference response test of the analyzer prior to it's initial use in the field and if the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? Yes Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Brange gas 80 - 100% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the calibration error for each gas < +/- 2% of span? Yes Was the system bias < +/- 5% of span for the zero and upscale cal. gas? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the bas gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes If alied a bias check, was the previous run invalidated? And was a calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Were the O2 and CO2 data validated as per Section 4.4 of Method 3? Analytical Procedure: Was the sampling rate constant (within +/-10%)? Yes Were the measurements bias adjusted? Yes	Run: _1	_ Date/time:	22-Apr-14		
Process Information: Operating Rate (with units): —1900 lbs/hr Interferences: Conduct an interference response test of the analyzer prior to it's initial use in the field and f the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? Yes Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Yes Was the Hig Range gas 40 - 60% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the Calibration error for each gas < +/- 2% of span? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the zero drift < 3% of span over the period of each run? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Was the Calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Was emissions data only taken after twice the response time? Yes Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Vere No adjustments except sample flow)made to the analyzer between drift tests? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias and NO then read the CFR to determine whether the test is acceptable.					
Interferences: Conduct an interference response test of the analyzer prior to it's initial use in the field and if the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? Yes	Monitor Span:	Continuously	l		
## The Process of the analyzer prior to it's initial use in the field and it the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? **Reagents and Standards:* **Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? **Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? **Was the Mid Range gas 40 - 60% of span? **Was the Hig Range gas 80 - 100% of span? **Yes Was the stack pollutant concentration always below the span value during the test? **Yes Was the average measured O2 concentration > 20% of the span? **Yes Was the Calibration error for each gas < +/- 2% of span? **Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? **Yes Was the zero drift < 3% of span over the period of each run? **Yes Was the zero drift < 3% of span over the period of each run? **Yes Was the zero drift (sing the Mid Range gas) < 3% of span for each run? **Yes Was the Calibration error check and a sampling system bias check repeated? **When only O2 is measured, were duplicate Orsats or Fyrites of CO2? **When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? **Were the O2 and CO2 data validated as per Section 4.4 of Method 3? **Inal Vitical Procedure:* **Ves Was the sampling rate constant (within +/-10%)? **Ves Was emissions data only taken after twice the response time? **Ves Was the sampling rate constant (within +/-10%)? **Ves Was emissions data only taken after twice the response time? **Ves Was the sampling rate constant (within +/-10%)? **Ves Was the sampling rate constant (within +/-10%)? **Ves Was the sampling rate constant (w	Process Informa	ation:			
Conduct an interference response test of the analyzer prior to it's initial use in the field and it the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. f done, was total interference < or equal to 2% of the applicable span? Yes **Reagents and Standards:** Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Yes Yes Yes Yes Yes Yes Ye			~1900 lbs/hr		
Conduct an interference response test of the analyzer prior to it's initial use in the field and it the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. f done, was total interference < or equal to 2% of the applicable span? Yes **Reagents and Standards:** Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the Calibration error for each gas < +/- 2% of span? Yes Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always below the span value during the test? Yes **Was the Stack pollutant concentration always the span value during the test? Yes **Was the Stack pollutant concentration for one of the runs? Yes **Was the Stack pollutant concentration always the span for each run? Yes **When only O2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? *					
if the gas detector type is changed. Follow procedure in Section 5.4 of Method 20. If done, was total interference < or equal to 2% of the applicable span? Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Were all calibration gases current? Yes Vas the 20.25% of span (alternatively < 10% of span)? Yes Vas the Mid Range gas 40 - 60% of span? Yes Vas the Hig Range gas 80 - 100% of span? Yes Vas the stack pollutant concentration always below the span value during the test? Yes Vas the average measured O2 concentration > 20% of the span? Yes Vas the Calibration error for each gas < +/- 2% of span? Yes Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Vas the zero drift < 3% of span over the period of each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Yes Vas the Calibration error check and a sampling system bias check repeated? Inhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only C02 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inallytical Procedure: Vas the sampling rate constant (within +/-10%)? Yes Vas the sampling rat	and the same of th	foronco rocnon	as test of the analyzar prior to itle initial use in the field and		
Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Vas the Mid Range gas 40 - 60% of span? Yes Vas the Hig Range gas 80 - 100% of span? Yes Vas the Hig Range gas 80 - 100% of span? Yes Vas the stack pollutant concentration always below the span value during the test? Yes Vas the exercise measured O2 concentration > 20% of the span? Yes Vas the Calibration error for each gas < +/- 2% of span? Yes Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration error check and a sampling system bias check repeated? Veren only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only C02 is measured, were duplicate Orsats or Fyrites done for CO2? When only C02 is measured, were duplicate Orsats or Fyrites of C02 within 0.5% of the average measured CO2 concentration for one of the runs? Yes Vas the O2 and CO2 data validated as per Section 4.4 of Method 3? Inallytical Procedure: Vas the sampling rate constant (within +/-10%)? Yes Vas the measurements bias adjusted? Yes Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Vere If any question is answered NO then read the CFR to determine whether the test is acceptable.					
Reagents and Standards: Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Yes Were all calibration gases current? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the Calibration error for each gas < +/- 2% of span? Yes Was the System bias < +/- 5% of span for the zero and upscale cal. gas? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the Zero drift < 3% of span over the period of each run? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Yes Yes Yes Yes Yes Yes Ye				Voc	
Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Were all calibration gases current? Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Yes Was the Hig Range gas 80 - 100% of span? Yes Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the Calibration error for each gas < +/- 2% of span? Yes Was the system bias < +/- 5% of span for the zero and upscale cal. gas? Yes Was the span bias < +/- 5% of span for the zero and upscale cal. gas? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Yes Yes Was the Calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Yes Yes Yes Was the sampling rate constant (within +/-10%)? Yes Yes Yes Was the sampling rate constant (within +/-10%)? Yes Yes Yes Yes Yes Yes Yes Ye	i done, was total	interierence <	or equal to 2 % or the applicable span?	res	
Were all calibration gases certified < or equal to +/- 2% of the tag value or Protocol 1? Were all calibration gases current? Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the zero gas < 0.25% of span (alternatively < 10% of span)? Yes Was the Mid Range gas 40 - 60% of span? Was the Hig Range gas 80 - 100% of span? Was the Hig Range gas 80 - 100% of span? Was the stack pollutant concentration always below the span value during the test? Yes Was the average measured O2 concentration > 20% of the span? Yes Was the Calibration error for each gas < +/- 2% of span? Yes Was the system bias < +/- 5% of span for the zero and upscale cal. gas? Yes Was the bias gas the closer of either the Mid or High Range gas to the stack conc? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Was the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Yes Was the Calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of ne average measured CO2 concentration for one of the runs? Yes Was the sampling rate constant (within +/-10%)? Yes Was emissions data only taken after twice the response time? Yes Were NO adjustments(except sample flow)made to the analyzer between drift tests? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Vere If any question is answered NO then read the CFR to determine whether the test is acceptable.	Reagents and S	tandards:			
Vas the zero gas < 0.25% of span (alternatively < 10% of span)? Vas the Mid Range gas 40 - 60% of span? Vas the Hig Range gas 80 - 100% of span? Vas the stack pollutant concentration always below the span value during the test? Vas the average measured O2 concentration > 20% of the span? Vas the Calibration error for each gas < +/- 2% of span? Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration error check and a sampling system bias check repeated? Vhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vhen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas emissions data only taken after twice the response time? Vas emissions data only taken after twice the response time? Ves Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Vere the measurements bias adjusted? Other is answered NO then read the CFR to determine whether the test is acceptable.			ed < or equal to +/- 2% of the tag value or Protocol 1?	Yes	
Vas the Mid Range gas 40 - 60% of span? Vas the Hig Range gas 80 - 100% of span? Vas the stack pollutant concentration always below the span value during the test? Vas the average measured O2 concentration > 20% of the span? Ves Vas the Calibration error for each gas < +/- 2% of span? Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration error check and a sampling system bias check repeated? Van only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Van only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vas the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas emissions data only taken after twice the response time? Vas emissions data only taken after twice the response time? Vas emissions data only taken after twice the response time? Vere the measurements bias adjusted? Ves Vere the measurements bias adjusted?				Yes	
Vas the Hig Range gas 80 - 100% of span? Vas the stack pollutant concentration always below the span value during the test? Vas the average measured O2 concentration > 20% of the span? Vas the Calibration error for each gas < +/- 2% of span? Vas the System bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the zero drift < 3% of span over the period of each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the calibration error check and a sampling system bias check repeated? Vas the only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vas the O2 and CO2 concentration for one of the runs? Var en O2 and CO2 data validated as per Section 4.4 of Method 3? Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vas malytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas emissions data only taken after twice the response time? Vas vas the sampling rate constant (within +/-10%)? Vas vas the sampling the test of span rate of span rat				Yes	
Vas the stack pollutant concentration always below the span value during the test? Vas the average measured O2 concentration > 20% of the span? Vas the Calibration error for each gas < +/- 2% of span? Vas the Calibration error for each gas < +/- 2% of span? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the zero drift < 3% of span over the period of each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Zalibration error check and a sampling system bias check repeated? Vhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vhen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas das emissions data only taken after twice the response time? Ves Vas dere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve		•	5.00 Percongret Progression (Control of Control of Cont	Yes	
Vas the average measured O2 concentration > 20% of the span? Ves Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the zero drift < 3% of span over the period of each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration error check and a sampling system bias check repeated? Vhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vhen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Ves Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Ves Ves Ves Ves Ves Ves V				Yes	
Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas the zero drift < 3% of span over the period of each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Ves Vene only O2 is measured, was the previous run invalidated? And Vere the O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vere the O2 and CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Ves Vas the sampling rate constant (within +/-10%)? Ves Vas the sampling rate constant (within +/-10%)? Ves Vas the sampling rate constant (within +/-10%)? Ves Ves Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Vere NO adjustments (except sample flow)made to the analyzer between drift tests? Ves Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve				Yes	
Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas Vas the zero drift < 3% of span over the period of each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas a calibration drift (using the Mid Range gas) < 3% of span for each run? Vas a emission drift (using the Mid Range gas) < 3% of span for each run? Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vas was emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas emissions data only taken after twice the response time? Vas Vas the	Vas the average	measured O2	concentration > 20% of the span?	Yes	
Vas the Calibration error for each gas < +/- 2% of span? Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Vas Vas the zero drift < 3% of span over the period of each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Vas a calibration drift (using the Mid Range gas) < 3% of span for each run? Vas a measured, was the previous run invalidated? And drift and calibration drift (using the Mid Range gas) < 3% of span for each run? Vas measured, was the previous run invalidated? And drift each run? Vas measured CO2 is measured, were duplicate Orsats or Fyrites done for CO2? Vas the only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vas the Calibration drift (using the Mid Range gas to the stack conc? Vas the Survey of Survey data of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vas the Calibration drift (using the Mid Range gas to the stack conc? Vas drift and the Survey data of Surve					
Vas the system bias < +/- 5% of span for the zero and upscale cal. gas? Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Ves Vas the zero drift < 3% of span over the period of each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas a calibration error check and a sampling system bias check repeated? Van easured, were duplicate Orsats or Fyrites done for CO2? Van enessured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vare the O2 and CO2 data validated as per Section 4.4 of Method 3? Vas the sampling rate constant (within +/-10%)? Yes Vas emissions data only taken after twice the response time? Vas data only taken after twice the response time? Vas vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Vere the measurements bias adjusted? Yes Ote: If any question is answered NO then read the CFR to determine whether the test is acceptable.				98883	
Vas the bias gas the closer of either the Mid or High Range gas to the stack conc? Ves Vas the zero drift < 3% of span over the period of each run? Ves Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes failed a bias check, was the previous run invalidated? And as a calibration error check and a sampling system bias check repeated? Vhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vhen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Ves Vas emissions data only taken after twice the response time? Ves Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ves Ves Ve				100.000	
Vas the zero drift < 3% of span over the period of each run? Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Yes Vas failed a bias check, was the previous run invalidated? And Vas a calibration error check and a sampling system bias check repeated? Vas a calibration error check and a sampling system bias check repeated? Vas a measured, were duplicate Orsats or Fyrites done for CO2? Vas eaverage measured CO2 concentration for one of the runs? Vare the O2 and CO2 data validated as per Section 4.4 of Method 3? Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vas emissions data only taken after twice the response time? Vas vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vas vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve					
Vas the Calibration drift (using the Mid Range gas) < 3% of span for each run? Failed a bias check, was the previous run invalidated? And as a calibration error check and a sampling system bias check repeated? Vhen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? Vhen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve					
failed a bias check, was the previous run invalidated? And as a calibration error check and a sampling system bias check repeated? //hen only O2 is measured, were duplicate Orsats or Fyrites done for CO2? //hen only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? //ere the O2 and CO2 data validated as per Section 4.4 of Method 3? //ere the Sampling rate constant (within +/-10%)? //as emissions data only taken after twice the response time? //ere NO adjustments(except sample flow)made to the analyzer between drift tests? //ere the measurements bias adjusted? //es //ote: If any question is answered NO then read the CFR to determine whether the test is acceptable.			. 전 - [20] [20] [20] [20] [20] [20] [20] [20]		
ras a calibration error check and a sampling system bias check repeated? When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Were the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Was the sampling rate constant (within +/-10%)? Was emissions data only taken after twice the response time? Were NO adjustments(except sample flow)made to the analyzer between drift tests? Were the measurements bias adjusted? Yes Were the measurements bias adjusted? Yes Wes Wes Wes Wes Wes Wes Wes				Yes	
When only O2 is measured, were duplicate Orsats or Fyrites done for CO2? When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Were the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Was the sampling rate constant (within +/-10%)? Wes with a sampling rate constant (within +/-10%)? We with a sampling rate constant (withi					
When only CO2 is measured, were duplicate Orsats or Fyrites of CO2 within 0.5% of the average measured CO2 concentration for one of the runs? Were the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Was the sampling rate constant (within +/-10%)? Wese Was emissions data only taken after twice the response time? Were NO adjustments(except sample flow)made to the analyzer between drift tests? Were the measurements bias adjusted? Wese Wese Wese Was determine whether the test is acceptable. Wese Wese Was determine whether the test is acceptable.					N/A
re average measured CO2 concentration for one of the runs? Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve					No
Vere the O2 and CO2 data validated as per Section 4.4 of Method 3? Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve					
Inalytical Procedure: Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve					No
Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ves Ves Ves Ves Ves Ve	ere the O2 and	CO2 data valid	lated as per Section 4.4 of Method 3?		N/A
Vas the sampling rate constant (within +/-10%)? Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Vere the measurements bias adjusted? Ves Ves Ote: If any question is answered NO then read the CFR to determine whether the test is acceptable. Otes:	nalytical Proce	dure:			
Vas emissions data only taken after twice the response time? Vere NO adjustments(except sample flow)made to the analyzer between drift tests? Ves Vere the measurements bias adjusted? Ves ote: If any question is answered NO then read the CFR to determine whether the test is acceptable. otes:			(within +/-10%)?	Yes	
Vere NO adjustments (except sample flow) made to the analyzer between drift tests? Yes Vere the measurements bias adjusted? Yes ote: If any question is answered NO then read the CFR to determine whether the test is acceptable. otes:					
Vere the measurements bias adjusted? Yes ote: If any question is answered NO then read the CFR to determine whether the test is acceptable. otes:					
otes:					
otes:					
	ote: If any quest	ion is answered	d NO then read the CFR to determine whether the test is a	cceptable.	
	otes:				
his method was performed continuously through the stack test.					
	his method was	performed con	tinuously through the stack test.		
ospector's name: Omar Horta, John Kasper, Assefa Hailemariam	spector's name	Omar Horta	ohn Kasner Assefa Hailemariam		

Method 4 - Moisture	e Content		
Facility/Unit: Stericyc	le Inc / Biological Incinerator	Date: <u>22-Apr-14</u>	Time: 0855
Operation Rate:	~ <u>1900 lbs/hr</u>		
Note: If any questio	n is answered NO then read the CF	R to determine whether the tes	t is acceptable.
Interferences:			
must be made simult	re saturated or contain water droplets aneously with the RM. (4.1)		
If the above condition saturation vapor pres	is true, was the moisture percentage	e determined using a psychrometr	ic chart or Yes
Saturation vapor pres	Sure lables. (4.1)		162
<u> </u>	9		
Procedure:			
At least 8 traverses m	nust be used for circular stacks with c	liameter < 24 inches	
	nust be used for rectangular stacks with c		es.
At least 12 traverses	British and a second provide all contents. Although a remaining a content of the content of the content of the	in equivalent diameters < 24 men	00.
	ber of traverses used? (8.1.1.1)		Yes
- A	ne such that a minimum gas volume o	of 21 scf were collected	V
	nan .75 cfm? (8.1.1.2) rried out independent of isokinetic me	athod a campling rate within 10%	Yes
rate must be maintain		striod a sampling rate within 10% to	JI CONSIAM
	d 4, was constant sampling rate mair	tained (+ 10%)? (8.1.4)	N/A
	f < 20 ⁰ Fdegrees maintained at the si		Yes
	leak check of the sampling train con-		Yes
Was the leak rate ≤ 4	% of the average sampling rate or \leq	.2cfm? (8.1.4.2)	Yes
Analysis			
Analysis:			
the minutes of the second transmitted and the second multiple section			
Notes:			
This mathed was port	formed continuously through the stac	k toot	
This method was pen	offiled continuously through the stac	k test.	

Inspector: Omar Horta, John Kasper, Assefa Hailemariam

Method 5 - Determination of Particulate Matter Emissions Facility/Unit: Stericycle Inc / Biological Incinerator 22-Apr-14 Time: 1000 Date: **Process Information:** Operating Rate (with units): ~1900 lbs/hr Train Setup: Does the nozzle appear to be in acceptable condition? Yes Nozzle size: 0.34 Was the nozzle calibrated? (10.1) Yes Was the probe nozzle glass or stainless steel? (6.1.1.1) Yes Note: Either borosilicate or quartz glass probe liners may be used for stack temperatures up to 900 °F(480°C). Quartz glass liners must be used for temperatures between 900 and 1650 °F (480° and 900°C). (6.1.1.2) Was the proper probe liner used for the stack temperature? Glass Dry Gas Meter Coefficient: Y = 1.0094 (10.3.3, 16.1.1.4) Impinger 1 contents: ml or (8.3.1)mg Impinger 2 contents: mg (8.3.1) ml or Impinger 3 contents: mg (8.3.1) ml or Impinger 4 contents: ml or mg (8.3.1)Extra Impingers? Explain: See Method 29 Testing: Barometric Pressure: 29.79 Were the sampling times at each point of equal duration and > 2 minutes? (8.2.4, 8.25) Yes Was the temperature around the filter maintained at $120 \pm 14^{\circ}$ C($248 \pm 25^{\circ}$ F)? (8.5, 6.1.1.7) Yes Was an acceptable Method 5 data sheet used to record necessary values and was the data recorded at the beginning and end of each time increment, flow changes, etc.? (8.5.1) Yes Was the impinger outlet temperature kept below 68°F (20°C)? (8.5.6) Yes Was the manometer periodically leveled and zeroed? (8.5.6) Yes Was a post-test leak check conducted after every run? (mandatory)(8.4.4) Yes Were all leakage rates \leq 4% of the average sampling rate or \leq .02 cfm (.00057 m³)? (8.4.4) Yes Note: Pitot lines must also pass leak check as described in Method 2, Section 8.1, in order to validate velocity head data. Was the sampling rate within + 10% isokinetic? (8.5, 8.6) Yes Recovery: Was an acetone blank prepared? (8.7.5) Yes *Note: Glass probes should be brushed at least 3 times, metal at least 6. Was a probe brush used to properly clean the probe nozzle, fittings, and liner with an acetone rinse until no visible particles could be seen in the rinse? (8.7.6.2) Yes Was the inside of the front half of the filter holder cleaned with brush and acetone? (8.7.6.2.5) Yes Yes Was the sample recovered without spills or losses? **Note:** If any question is answered NO then read the CFR to determine whether the test is acceptable.

Inspector's Name: Omar Horta, John Kasper, Assefa Hailemariam

Notes:

Method 6C	Facility/Unit	Stericycle Inc / Biological incinerator	
Run:1	_ Date/time:	23 April 2014 / 0845	
Response time:			7
Monitor Span:	Continuously		
Process Informa	tion:	9	
Operating Rate (v		~1900 lbs/hr	
Operating nate (v	vitir uritis).	~1300 lbs/III	
Interferences:			
	erence respons	se test of the analyzer initially for each source category	
in accordance wi		, ,	
If done, was inter	ference less tha	an or equal to 7% of the modified Method 6 result?	Yes
Reagents and St			~ .
		ed < or equal to +/- 2% of the tag value or Protocol 1?	Yes
Were all calibration			Yes
Was the zero gas			Yes
Was the Mid Ran			Yes
Was the Hig Rang			Yes
		ration always below the span value during the test?	Yes
Was the applicab	le emission limi	it > 30% of the span?	Yes
0 111 0 1 1			
Quality Control:	•	1.00/ 1/ 00/	
		h gas < +/- 2% of span?	Yes
		f span for the zero and upscale cal. gas?	Yes
		ther the Mid or High Range gas to the stack conc?	Yes
		over the period of each run?	Yes
		ne Mid Range gas) < 3% of span for each run?	Yes
		evious run invalidated? And	
was a calibration	error check and	d a sampling system bias check repeated?	Yes
Equipment and S	Sunnline:		
		IR type analyzer used?	Yes
Were all lines hea	ted and insulat	ed up to the water knock out (dry measurements)?	Yes
		nalyzer sufficient to prevent condensation (hot wet sys)	Yes
Were an intestree	ited up to the di	naryzer sumetern to prevent condensation (not wet sys)	163
Analytical Proce	dure:		
Was the sampling		(within +/-10%)?	Yes
		after twice the response time?	Yes
	variante la collina en entire continue la con-	mple flow)made to the analyzer between drift tests?	Yes
Were the measure			Yes
		e or less (every 2 minutes if run exceeds 1 hour)	Yes
Note: If any quest	ion is answered	NO then read the CFR to determine whether the test is	acceptable.
, 4			acceptable!
Notes:			
	11/11/20		
	10		
Inspector's name:	Omar Horta	ohn Kasper, Assefa Hailemariam	

Method 7E	Facility/Unit: Stericycle Inc / Biological Incinerator	
Run: 1	Date/time: 22-Apr-14	
Response time:		
Monitor Span:	Continuously	
reconstitution of the second		
Process Information:		
Operating Rate (with units):	~1900 lbs/hr	
Interferences:		
	oonse test of the analyzer prior to its initial use in the field in	accordance with
Section 5.4 of Method 20.	Also perform the interference response test if the detector in	s changed
	han or equal to 2% of the applicable span?	Yes
TO THE TOTAL INTERPORTED INCOME.	man or oqual to 270 or the applicable opair.	100
Reagents and Standards:		
	rtified to within +/- 2% of the tag value or Protocol 1?	Yes
Were all calibration gases cu		Yes
Was the zero gas < 0.25% of		Yes
Was the Mid Range gas 40 -		Yes
Was the High Range gas 80		
was the High Hange gas 80	- 100 % of Spail?	Yes
Quality Control:		
	anch see and 100% of anoma	V
Was the Calibration error for		Yes
Was the system bias < +/- 5°		Yes
	of either the Mid or High Range gas to the stack conc?	Yes
	st done or data showing < 5% of the exhaust is NO2?	Yes
	% or less of peak ppm in 30 mins from converter eff.Test?	Yes
	f span over the period of each run?	Yes
	ng the Mid Range gas) $< +/-3\%$ of span for each run?	Yes
Were interference tests or co	nverter efficiency tests done prior to a compliance test?	Yes
Equipment and Supplies:		
Was a chemiluminescent type	e analyzer used?	Yes
Were all lines heated and ins	ulated up to the water knock out?	Yes
Analytical Procedure:		
Was the sampling rate consta	ant (within +/-10%)?	Yes
Was emissions data only take	en after twice the response time?	Yes
	ot sample flow) made to the analyzer between drift tests?	Yes
Note: If any question is answe	ered NO then read the CFR to determine whether the test	is acceptable.
money is made discussion.		.o desoptation
Notes:		
	<u>-</u>	
Inspector's name: Omar Horts	a, John Kasper, Assefa Hailemariam	
mopositor o marino. Ornar Horiz	a, com racpor, Accord Handmanam	

,

Method 23 Stack Test Observation Checklist

Was the manometer zeroed?

Method 23 Stack Test Observation Checklist	Fooility Ct	eviewale Inc / Dielegieel Incinevator	
Stack Test Observation Checklist	Unit: 1	ericycle Inc / Biological Incinerator	
¥	Run: 1	Date: <u>22-Apr-14</u> Time: <u>0855</u>	
CHANGE TO METHOD: Separate analysis of method 23 is not required. Instead the tolurand methylene chloride concentrate, the filter at section 5.1.4 prior to analysis.	ene rinse concentrate r	may be added to the acetone	
Interferences: No sealing greases may be used in assemblin All train openings where sample contamination with teflon tape or aluminum foil that was p Sample gas temperature must be maintained to adsorbent trap. The XAD-2 resin must n Adsorbent trap must be covered/wrapped at a	n can occur must be co repared with a hexane below 68 degrees F at never exceed the decor	rinse.	g.
Reagents and Standards:	8		
Adsorbent resin is Amberlite XAD-2?		Yes	
Quality Control: Was temperature information available (see di	isgram) and within one	ecs? Yes	
Were data sheets complete?	agram) and willin spe	Yes	
Did the post-test leak check pass?		Yes	
Will audit samples be analyzed?		100	No
Equipment and Supplies:			
Was the meter box level?		Yes	

Yes Yes

Were the impingers iced down?	

Analytical Procedure: Dioxin/Furan Sampling	
Were samples recovered on site?	Yes
Was the box temperature at 248 +/- 25 degree F?	Yes
Was the leak check < or = .02 cfm?	Yes
Was the adsorbent resin temperature below 122 degree F?	Yes

Process Information / Notes:

Post-test leak check: 0.005, 17" Hg

Inspector's name: Omar Horta, John Kasper, Assefa Hailemariam

Method 29

Stack Test Observation Checklist

Facility: Stericycle Inc / Biological Incinerator	
Unit: 1	

Dun	4	
Run:	8 8	

Date: 22-Apr-14 Time: 1000

Note:

Isokinetic sampling similar to EPA 5 with P.M. collected in front half and gaseous emissions collected in impinger solutions.

Extensive recovery procedures with minimum of 13 containers for analysis.

It is important to know the exact volume of solution used during recovery in this method for blank correction purposes.

Sample Train:

Is sample train constructed entirely of glass and Teflon and without the use

	of sealant greases?			Yes	
Were	the impingers filled as followed?			Yes	
#1	Empty (optional)	#5	100 ml KMNO4		
#2	100ml HNO3/H2O2	#6	100 ml KMNO4		
#3	100ml HNO3/H2O2	#7	Silica Gel		
#4	Empty				

Process Information / Notes:

