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**COUNTY LINE GIN, INC.**

12095 2nd Avenue  
Hanford, CA 93230  
Attn: **Mark Boyes**

**PM10 & TOTAL PARTICULATE TESTING  
NOTES, SUCTION, LINT CLEANER,  
OVERFLOW, #1 DRYING,  
GIN STAND TRASH,  
BATTERY CONDENSER AND  
#2 DRYING CYLONES**

**December 8 - 11, 1991**

Prepared By:

**BTC ENVIRONMENTAL, INC.**

1536 Eastman Avenue  
Ventura, CA 93003

Job Number  
3067

Laboratory Report Number  
291-204

Test Team Leader  
Tom Porter

Results Verified By:  
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ALHMER FORM NO. 84015  
PRINTED IN USA

County Line

12/91

AFTER MODS

System

No of  
Cylinders

Std.  
bales/  
hr

TSP  
lb/  
hr

TBP  
lb/  
hr

PM<sub>10</sub>  
lb/  
hr

PM<sub>10</sub>  
lb/  
bale

Suction

3

35.2

3.66

0.302

1.78

0.152

#1 Drying

4

33.9

2.05

0.243

0.93

0.110

#2 Drying

4

33.0

0.85

0.103

0.43

0.052

Notes

4

34.7

2.36

0.330

1.50

0.173

LC

8

33.2

1.21

0.292

0.66

0.159

OF

1

31.0

1.36

0.044

0.93

0.027

Bin Stand Trash

2

31.1

3.62

0.233

1.44

0.093

BC

4

32.2

0.66

0.082

0.10

0.012

Est.) Note Cleaner (3/4 Notes)  
gr. loading

2

34.7

-

0.070

-

0.037

Σ=1.70

Σ=0.315

Post-Med

**PARTICULATE EMISSION SUMMARY**

**NOTES CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0594	0.0598	0.0518	<b>0.0570</b>
lb/hr	2.97	3.04	2.58	<b>2.86</b>
<b>Particulate Size Distribution</b>				
+10µ (%)	45.92	48.86	47.75	<b>47.51</b>
+10µ (lb/hr)	1.36	1.49	1.23	<b>1.36</b>
-10µ (%)	54.08	51.14	52.25	<b>52.49</b>
-10µ (lb/hr)	1.61	1.55	1.35	<b>1.50</b>

**SUCTION CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0494	0.0638	0.0796	<b>0.0643</b>
lb/hr	2.69	3.62	4.33	<b>3.55</b>
<b>Particulate Size Distribution</b>				
+10µ (%)	46.60	49.96	51.36	<b>49.31</b>
+10µ (lb/hr)	1.25	1.81	2.22	<b>1.76</b>
-10µ (%)	53.40	50.05	48.64	<b>50.70</b>
-10µ (lb/hr)	1.44	1.81	2.11	<b>1.78</b>

**LINT CLEANER CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0191	0.0312	0.0190	<b>0.0231</b>
lb/hr	1.01	1.60	1.03	<b>1.21</b>
<b>Particulate Size Distribution</b>				
+10µ (%)	48.80	42.98	47.23	<b>46.34</b>
+10µ (lb/hr)	0.49	0.69	0.49	<b>0.56</b>
-10µ (%)	51.20	57.02	52.77	<b>53.66</b>
-10µ (lb/hr)	0.52	0.91	0.54	<b>0.66</b>

Post-Mod

## PARTICULATE EMISSION SUMMARY (Cont)

## OVERFLOW CYCLONE

	Run #1	Run #2	Run #3	Average
Total Particulate gr/DSCF	0.0333	0.0365	0.0367	0.0355
lb/hr	1.26	1.41	1.41	1.36
Particle Size Distribution				
+10 $\mu$ (%)	35.79	30.86	49.34	38.66
+10 $\mu$ (lb/hr)	0.45	0.44	0.70	0.53
-10 $\mu$ (%)	64.21	69.14	50.66	61.34
-10 $\mu$ (lb/hr)	0.81	0.97	0.71	0.83

## #1 DRYING CYCLONE

	Run #1	Run #2	Run #3	Average
Total Particulate gr/DSCF	0.0506	0.0901	0.0679	0.0695
lb/hr	1.41	2.74	2.00	2.05
Particle Size Distribution				
+10 $\mu$ (%)	66.44	46.49	57.17	56.70
+10 $\mu$ (lb/hr)	0.94	1.27	1.14	1.12
-10 $\mu$ (%)	33.56	53.51	42.83	43.30
-10 $\mu$ (lb/hr)	0.47	1.47	0.86	0.93

## GIN STAND TRASH CYCLONE

	Run #1	Run #2	Run #3	Average
Total Particulate gr/DSCF	0.1134	0.0764	0.0767	0.0888
lb/hr	4.62	3.13	3.10	3.62
Particle Size Distribution				
+10 $\mu$ (%)	62.53	56.18	60.30	59.67
+10 $\mu$ (lb/hr)	2.89	1.76	1.87	2.17
-10 $\mu$ (%)	37.47	43.82	39.70	40.33
-10 $\mu$ (lb/hr)	1.73	1.37	1.23	1.44

Post-Med.

## PARTICULATE EMISSION SUMMARY (Cont)

## BATTERY CONDENSER CYCLONE

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0058	0.0112	0.0189	<b>0.0120</b>
lb/hr	0.32	0.61	1.04	<b>0.66</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	60.30	79.97	94.08	<b>78.12</b>
+10 $\mu$ (lb/hr)	0.19	0.49	0.98	<b>0.55</b>
-10 $\mu$ (%)	39.70	20.03	5.92	<b>21.88</b>
-10 $\mu$ (lb/hr)	0.13	0.12	0.06	<b>0.10</b>

## #2 DRYING CYCLONE

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0262	0.0287	0.0325	<b>0.0291</b>
lb/hr	0.79	0.82	0.95	<b>0.85</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	43.25	51.26	52.04	<b>48.85</b>
+10 $\mu$ (lb/hr)	0.34	0.42	0.49	<b>0.42</b>
-10 $\mu$ (%)	56.75	48.74	47.96	<b>51.15</b>
-10 $\mu$ (lb/hr)	0.45	0.40	0.46	<b>0.43</b>

## TABLE OF CONTENTS

	<u>Page</u>
Summary of Source Test Results	1
I. Introduction	4
II. Wet Test Methods Data Summaries	7
A. Field Data Summary	
1. PM10	8
2. Total Particulate	17
B. Field Data and Calculations Summary	
1. PM10	26
2. Total Particulate	59
III. Wet Test Methods Calculations	92
A. PM-10 Particulate Calculations	93
B. Equations	125
IV. Continuous Test Methods Data	-
V. Laboratory Analysis	126
A. Impinger Weights	
1. PM10	127
2. Total Particulate	160
B. Particulate Analysis	
1. PM10 Weights	193
2. Total Particulate Weights	226
VI. Methodology	258
A. Sample Train Diagrams	259
VII. Raw Data	261
A. PM10 Data Sheets	262
B. Total Particulate Data Sheets	319
VIII. Quality Assurance	376
A. Dry Gas Meter Calibrations	377
B. Pitot Tube Calibration	379
C. Pyrometer Calibration	380
D. Nozzles	381
E. Magnehelic Calibrations	388
F. Chain of Custodies	392

## PARTICULATE EMISSION SUMMARY

### NOTES CYCLONE

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0594	0.0598	0.0518	<b>0.0570</b>
lb/hr	2.97	3.04	2.58	<b>2.86</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	45.92	48.86	47.75	<b>47.51</b>
+10 $\mu$ (lb/hr)	1.36	1.49	1.23	<b>1.36</b>
-10 $\mu$ (%)	54.08	51.14	52.25	<b>52.49</b>
-10 $\mu$ (lb/hr)	1.61	1.55	1.35	<b>1.50</b>

### SUCTION CYCLONE

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0494	0.0638	0.0796	<b>0.0643</b>
lb/hr	2.69	3.62	4.33	<b>3.55</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	46.60	49.96	51.36	<b>49.31</b>
+10 $\mu$ (lb/hr)	1.25	1.81	2.22	<b>1.76</b>
-10 $\mu$ (%)	53.40	50.05	48.64	<b>50.70</b>
-10 $\mu$ (lb/hr)	1.44	1.81	2.11	<b>1.78</b>

### LINT CLEANER CYCLONE

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0191	0.0312	0.0190	<b>0.0231</b>
lb/hr	1.01	1.60	1.03	<b>1.21</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	48.80	42.98	47.23	<b>46.34</b>
+10 $\mu$ (lb/hr)	0.49	0.69	0.49	<b>0.56</b>
-10 $\mu$ (%)	51.20	57.02	52.77	<b>53.66</b>
-10 $\mu$ (lb/hr)	0.52	0.91	0.54	<b>0.66</b>

**PARTICULATE EMISSION SUMMARY (Cont)**

✓ **OVERFLOW CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0333	0.0365	0.0367	<b>0.0355</b>
lb/hr	1.26	1.41	1.41	<b>1.36</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	35.79	30.86	49.34	<b>38.66</b>
+10 $\mu$ (lb/hr)	0.45	0.44	0.70	<b>0.53</b>
-10 $\mu$ (%)	64.21	69.14	50.66	<b>61.34</b>
-10 $\mu$ (lb/hr)	0.81	0.97	0.71	<b>0.83</b>

✓ **#1 DRYING CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.0506	0.0901	0.0679	<b>0.0695</b>
lb/hr	1.41	2.74	2.00	<b>2.05</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	66.44	46.49	57.17	<b>56.70</b>
+10 $\mu$ (lb/hr)	0.94	1.27	1.14	<b>1.12</b>
-10 $\mu$ (%)	33.56	53.51	42.83	<b>43.30</b>
-10 $\mu$ (lb/hr)	0.47	1.47	0.86	<b>0.93</b>

✓ **GIN STAND TRASH CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
gr/DSCF	0.1134	0.0764	0.0767	<b>0.0888</b>
lb/hr	4.62	3.13	3.10	<b>3.62</b>
<b>Particulate Size Distribution</b>				
+10 $\mu$ (%)	62.53	56.18	60.30	<b>59.67</b>
+10 $\mu$ (lb/hr)	2.89	1.76	1.87	<b>2.17</b>
-10 $\mu$ (%)	37.47	43.82	39.70	<b>40.33</b>
-10 $\mu$ (lb/hr)	1.73	1.37	1.23	<b>1.44</b>

2

**PARTICULATE EMISSION SUMMARY (Cont)**

✓ **BATTERY CONDENSER CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
<b>gr/DSCF</b>	0.0058	0.0112	0.0189	<b>0.0120</b>
<b>lb/hr</b>	0.32	0.61	1.04	<b>0.66</b>
<b>Particulate Size Distribution</b>				
<b>+10μ (%)</b>	60.30	79.97	94.08	<b>78.12</b>
<b>+10μ (lb/hr)</b>	0.19	0.49	0.98	<b>0.55</b>
<b>-10μ (%)</b>	39.70	20.03	5.92	<b>21.88</b>
<b>-10μ (lb/hr)</b>	0.13	0.12	0.06	<b>0.10</b>

✓ **#2 DRYING CYCLONE**

	Run #1	Run #2	Run #3	Average
<b>Total Particulate</b>				
<b>gr/DSCF</b>	0.0262	0.0287	0.0325	<b>0.0291</b>
<b>lb/hr</b>	0.79	0.82	0.95	<b>0.85</b>
<b>Particulate Size Distribution</b>				
<b>+10μ (%)</b>	43.25	51.26	52.04	<b>48.85</b>
<b>+10μ (lb/hr)</b>	0.34	0.42	0.49	<b>0.42</b>
<b>-10μ (%)</b>	56.75	48.74	47.96	<b>51.15</b>
<b>-10μ (lb/hr)</b>	0.45	0.40	0.46	<b>0.43</b>

**I. INTRODUCTION**

4

## **INTRODUCTION**

On December 8 - 11, 1991, BTC Environmental performed source emissions tests for PM-10 particulate matter on a Motes Cyclone, Suction Cyclone, Lint Cleaner Cyclone, Overflow Cleaner, #1 Drying Cyclone, Gin Stand Trash Cyclone, Battery Condenser Cyclone and the #2 Drying Cyclone. The cyclones are located at 12095 2nd Avenue, Hanford, California. Sampling was done in triplicate for total particulate and PM-10 particule size distribution. Production rates, in bales per hour, was taken by Robert Eckley with Eckley Engineering.

## **SAMPLING AND ANALYTICAL PROCEDURES**

**STACK GAS ANALYSIS:** The oxygen and carbon dioxide content of the exhaust gases were assumed to be ambient air. Oxygen = 20.9% and Carbon Dioxide = 0.05%.

**STACK GAS VELOCITY:** The stack gas velocity was determined using an "S" type pitot tube connected to a magnehelic gauge. The "S" type pitot was used to determine the stack velocity profile for each run. Sampling was conducted from two (2) vertical ports. A total of twelve (12) traverse points was utilized at each port for a total of 24 sample points.

The stack temperature was determined using a thermocouple and an indicating pyrometer. The proportion of water was determined gravimetrically and the dry molecular weight of the stack gas determined by E.P.A. Method 3, equation 3-2. Stack velocities were calculated using E.P.A. Method 2, equation 2-9; gas volumetric flow rate was determined by equation 2-10.

**TOTAL PARTICULATE EMISSIONS:** A CARB Method 5 sampling train was utilized to determine the total particulate emission from the cyclones. The sample train consisted of a stainless steel nozzle, a heated stainless steel probe, a heated glass fiber filter and cooled impingers. After the weight is obtained from the filter, probe and nozzle rinses; the total solids in the impingers is added to the front-end catch to satisfy Tulare County APCD rules.

**PARTICULE SIZE DITRIBUTION:** A sample was taken isokinetically from the stack using a GII cascade impactor. A modified CARB Method 501 was utilized. The impactor consisted of two (2) slotted discs, a back up filter and cooled impingers. The first two (2) discs are +10 $\mu$  and the backup filter and impingers are -10 $\mu$ . The total weights obtained from each fraction were added together to obtain the total particulate weight. The total weight was used to determine the % of the +10 $\mu$  and the -10 $\mu$  fraction. The total weight obtained from the total particulate runs are used to determine the +10 $\mu$  and the -10 $\mu$  results reported in lb/hr.

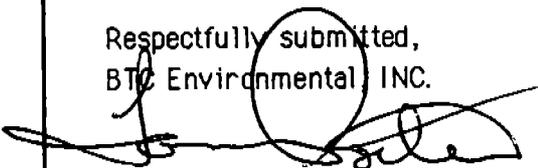
**LEAK CHECKS:** Leak rates were conducted on the sampling train and the pitot tubes before and after each test. The leak check for the sampling train was done at the nozzle. Any leak rate greater than 0.02 cfm was corrected for in the volume calculations.

All calculations for lb/hr were done by using the flow rate of the stack gas. All values were calculated by using Tulare County APCD standard conditions (60°F & 29.92 in Hg).

All glassware was inspected before and after each run to insure that no breakage had occurred during the sampling. No problems were encountered during the sampling except for an occasional plug-up in the gin system.

If you have any questions concerning the above results please contact the undersigned at 805-644-1095.

Respectfully submitted,  
BTC Environmental, INC.



Tom Porter  
Vice President - Air Test Division

cc: Eckley Engineering  
Attn: Wendy Eckley

## **II. WET TEST METHODS DATA SUMMARIES**

PM10  
PARTICULATE

8

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
NOTES CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.2	2.3	1.9
Vm - Gas volume, meter cond., dcf	35.373	35.467	36.812
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	0.95	30.09	30.09
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
ΔH - Avg. meter press. diff., in. H2O	1.346	1.290	1.338
Tm - Absolute meter temperature, °R	518.4	523.8	525.1
Vm(std) - Standard sample gas vol., dscf	33.9585	33.6934	34.8934
Bws - Water vapor part in gas stream	0.2	0.3	0.3
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.826	28.810	28.817
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
Δp - Avg. of sq. roots of each Δp	0.543	0.543	0.541
Ts - Absolute stack Temp. °R	529.3	521.8	536.8
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	5890	5926	5817
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	101.3	99.9	105.4

9

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
SUCTION CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	3.4	2.0	2.0
Vm - Gas volume, meter cond., dcf	38.071	37.772	40.558
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	29.92	29.92	30.10
Pg - Stack static pressure, in. H2O	-0.10	-0.10	-0.10
$\Delta H$ - Avg. meter press. diff., in. H2O	1.471	1.553	1.694
Tm - Absolute meter temperature, °R	524.3	520.8	519.5
Vm(std) - Standard sample gas vol., dscf	35.9480	35.9112	38.8992
Bws - Water vapor part in gas stream	0.4	0.3	0.2
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.796	28.816	28.818
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.569	0.583	0.606
Ts - Absolute stack Temp. °R	514.0	510.5	521.3
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6231	6419	6621
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	101.3	98.3	103.2

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
LINT CLEANER CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	2.0	1.8	1.9
Vm - Gas volume, meter cond., dcf	37.915	36.202	36.932
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	30.17	30.28	30.25
Pg - Stack static pressure, in. H2O	-0.11	-0.11	-0.11
$\Delta H$ - Avg. meter press. diff., in. H2O	1.390	1.353	1.389
Tm - Absolute meter temperature, °R	516.2	521.4	529.4
Vm(std) - Standard sample gas vol., dscf	36.6598	34.7744	34.9103
Bws - Water vapor part in gas stream	0.3	0.2	0.3
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.817	28.818	28.817
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.552	0.548	0.556
Ts - Absolute stack Temp. °R	510.4	524.5	510.0
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6105	5994	6161
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	105.5	101.9	99.5

11

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
OVERFLOW CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.6	3.5	5.4
Vm - Gas volume, meter cond., dcf	35.359	36.812	37.461
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	30.12	30.09	30.08
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
$\Delta H$ - Avg. meter press. diff., in. H2O	1.244	1.325	1.402
Tm - Absolute meter temperature, °R	530.5	531.1	528.2
Vm(std) - Standard sample gas vol., dscf	33.2006	34.4980	35.2923
Bws - Water vapor part in gas stream	0.2	0.5	0.7
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.820	28.793	28.767
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.395	0.407	0.418
Ts - Absolute stack Temp. °R	539.2	534.6	534.8
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	4243	4383	4496
An - Area of nozzle, square feet	0.0004307	0.0004307	0.0004307
$\theta$ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	100.3	100.9	100.6

12

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
#1 DRYING CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	7.0	8.5	13.0
Vm - Gas volume, meter cond., dcf	40.601	35.516	37.306
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	30.10	30.10	30.04
Pg - Stack static pressure, in. H2O	-0.02	-0.02	-0.02
$\Delta H$ - Avg. meter press. diff., in. H2O	1.784	1.192	1.429
Tm - Absolute meter temperature, °R	507.3	511.4	519.2
Vm(std) - Standard sample gas vol., dscf	39.8895	34.5610	35.7119
Bws - Water vapor part in gas stream	0.8	1.1	1.7
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.756	28.721	28.663
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.304	0.334	0.345
Ts - Absolute stack Temp. °R	586.9	572.5	581.1
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	3118	3456	3526
An - Area of nozzle, square feet	0.0007507	0.0005761	0.0005761
$\theta$ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	94.0	95.8	97.0

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
GIN STAND TRASH CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.5	2.2	0.8
Vm - Gas volume, meter cond., dcf	32.790	32.725	33.032
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	29.94	29.92	29.91
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
$\Delta H$ - Avg. meter press. diff., in. H2O	1.138	1.098	1.110
Tm - Absolute meter temperature, °R	521.6	522.0	522.5
Vm(std) - Standard sample gas vol., dscf	31.1176	31.0074	31.2589
Bws - Water vapor part in gas stream	0.2	0.3	0.1
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.820	28.808	28.831
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.445	0.437	0.441
Ts - Absolute stack Temp. °R	531.4	530.7	530.0
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	4803	4718	4768
An - Area of nozzle, square feet	0.0003744	0.0003744	0.0003744
$\theta$ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	95.5	96.9	96.7

14

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
BATTERY CONDENSER CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.7	2.0	1.4
Vm - Gas volume, meter cond., dcf	32.914	33.000	33.794
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	29.97	29.99	29.99
Pg - Stack static pressure, in. H2O	-0.18	-0.18	-0.18
ΔH - Avg. meter press. diff., in. H2O	1.141	1.135	1.156
Tm - Absolute meter temperature, °R	512.8	517.8	522.4
Vm(std) - Standard sample gas vol., dscf	31.8015	31.5972	32.0860
Bws - Water vapor part in gas stream	0.2	0.3	0.2
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.817	28.812	28.822
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
Δp - Avg. of sq. roots of each Δp	0.579	0.578	0.584
Ts - Absolute stack Temp. °R	520.5	521.8	525.3
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6314	6303	6350
An - Area of nozzle, square feet	0.0002885	0.0002885	0.0002885
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	96.3	95.9	96.7

**FIELD DATA SUMMARY  
PM 10 PARTICULATE  
#2 DRYING CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.5	2.3	5.2
Vm - Gas volume, meter cond., dcf	27.827	33.425	34.108
Y - Meter calibration factor	0.949	0.949	0.949
Pbar - Barometric pressure, in. Hg	30.00	29.98	29.98
Pg - Stack static pressure, in. H2O	-0.07	-0.07	-0.07
$\Delta H$ - Avg. meter press. diff., in. H2O	0.841	1.202	1.186
Tm - Absolute meter temperature, °R	521.9	523.6	523.4
Vm(std) - Standard sample gas vol., dscf	26.4255	31.6423	32.3056
Bws - Water vapor part in gas stream	0.3	0.3	0.7
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.815	28.807	28.763
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.339	0.328	0.327
Ts - Absolute stack Temp. °R	541.9	574.2	577.6
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	3625	3404	3378
An - Area of nozzle, square feet	0.0004276	0.0005343	0.0005343
$\bar{t}$ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	94.1	96.0	98.8

TOTAL  
PARTICULATE

17

**FIELD DATA SUMMARY**  
**TOTAL PARTICULATE**  
**MOTES CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	0.7	4.9	2.3
Vm - Gas volume, meter cond., dcf	36.469	38.762	37.982
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	30.09	30.09	30.09
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
ΔH - Avg. meter press. diff., in. H2O	1.308	1.353	1.308
Tm - Absolute meter temperature, °R	521.3	528.7	530.6
Vm(std) - Standard sample gas vol., dscf	36.1767	37.9160	37.0133
Bws - Water vapor part in gas stream	0.1	0.6	0.3
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.834	28.779	28.844
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
Δp - Avg. of sq. roots of each Δp	0.536	0.553	0.539
Ts - Absolute stack Temp. °R	529.3	521.8	536.8
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	5824	6024	5803
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
σ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	105.0	106.4	107.8

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
SUCTION CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	3.9	2.0	1.3
Vm - Gas volume, meter cond., dcf	42.312	41.853	40.377
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	29.92	29.92	30.10
Pg - Stack static pressure, in. H2O	-0.10	-0.10	-0.10
ΔH - Avg. meter press. diff., in. H2O	1.555	1.655	1.584
Tm - Absolute meter temperature, °R	529.5	526.7	524.9
Vm(std) - Standard sample gas vol., dscf	41.1093	40.8890	39.8134
Bws - Water vapor part in gas stream	0.4	0.2	0.2
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.796	28.819	28.828
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
Δp - Avg. of sq. roots of each Δp	0.581	0.601	0.580
Ts - Absolute stack Temp. °R	514.0	510.5	520.7
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6368	6613	6350
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	109.2	104.6	106.0

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
LINT CLEANER CYCLONE**

	Run# 1	Run# 2	Run# 3
Vlc - Volume of water collected, ml	0.9	2.5	2.0
Vm - Gas volume, meter cond., dcf	38.402	37.693	39.815
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	30.17	30.28	30.25
Pg - Stack static pressure, in. H2O	-0.11	-0.11	-0.11
$\Delta H$ - Avg. meter press. diff., in. H2O	1.397	1.365	1.474
Tm - Absolute meter temperature, °R	518.4	527.6	534.6
Vm(std) - Standard sample gas vol., dscf	38.4106	37.1752	38.7274
Bws - Water vapor part in gas stream	0.1	0.3	0.2
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.832	28.810	28.818
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.554	0.547	0.568
Ts - Absolute stack Temp. °R	510.4	524.5	510.0
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6136	5979	6297
An - Area of nozzle, square feet	0.0003142	0.0003142	0.0003142
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	105.8	105.1	104.0

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
OVERFLOW CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	1.2	3.1	4.2
Vm - Gas volume, meter cond., dcf	38.853	39.134	38.908
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	30.12	30.09	30.08
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
$\Delta H$ - Avg. meter press. diff., in. H2O	1.336	1.394	1.388
Tm - Absolute meter temperature, °R	536.1	536.7	533.9
Vm(std) - Standard sample gas vol., dscf	37.5120	37.7101	37.6783
Bws - Water vapor part in gas stream	0.1	0.4	0.5
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.828	28.803	28.788
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.411	0.418	0.418
Ts - Absolute stack Temp. °R	538.8	534.6	534.8
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	4425	4509	4496
An - Area of nozzle, square feet	0.0004307	0.0004307	0.0004307
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	104.6	103.2	103.4

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
#1 DRYING CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	18.1	9.3	13.0
Vm - Gas volume, meter cond., dcf	43.321	37.143	37.817
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	30.10	30.10	30.04
Pg - Stack static pressure, in. H2O	-0.02	-0.02	-0.02
$\Delta H$ - Avg. meter press. diff., in. H2O	1.960	1.254	1.355
Tm - Absolute meter temperature, °R	511.0	517.4	523.5
Vm(std) - Standard sample gas vol., dscf	43.9234	37.1242	37.2965
Bws - Water vapor part in gas stream	1.9	1.2	1.6
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.640	28.719	28.671
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.320	0.342	0.336
Ts - Absolute stack Temp. °R	586.8	572.5	581.2
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	3255	3543	3434
An - Area of nozzle, square feet	0.0007507	0.0005761	0.0005761
$\sigma$ - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	95.5	96.6	100.1

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
GIN STAND TRASH CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	2.5	3.5	4.5
Vm - Gas volume, meter cond., dcf	34.781	35.952	34.985
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	29.94	29.92	29.91
Pg - Stack static pressure, in. H2O	-0.09	-0.09	-0.09
$\Delta H$ - Avg. meter press. diff., in. H2O	1.118	1.129	1.098
Tm - Absolute meter temperature, °R	526.5	527.0	527.1
Vm(std) - Standard sample gas vol., dscf	33.9752	35.0592	34.0942
Bws - Water vapor part in gas stream	0.3	0.5	0.6
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.807	28.794	28.778
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
$\Delta p$ - Avg. of sq. roots of each $\Delta p$	0.441	0.443	0.438
Ts - Absolute stack Temp. °R	531.5	530.7	530.0
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	4759	4779	4716
An - Area of nozzle, square feet	0.0003744	0.0003744	0.0003744
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	101.3	104.1	102.6

**FIELD DATA SUMMARY**  
**TOTAL PARTICULATE**  
**BATTERY CONDENSER CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	2.4	2.0	1.6
Vm - Gas volume, meter cond., dcf	34.008	34.686	35.894
Y - Meter calibration factor	0.986	0.986	0.986
Pbar - Barometric pressure, in. Hg	29.97	29.94	30.00
Pg - Stack static pressure, in. H2O	-0.18	-0.18	-0.18
ΔH - Avg. meter press. diff., in. H2O	1.153	1.132	1.185
Tm - Absolute meter temperature, °R	513.1	521.0	525.4
Vm(std) - Standard sample gas vol., dscf	34.1232	34.2417	35.2107
Bws - Water vapor part in gas stream	0.3	0.3	0.2
CO2 - Dry concentration, volume %	0.1	0.1	0.1
O2 - Dry concentration, volume %	20.9	20.9	20.9
Md - Mol wt. stack gas, dry, g/gmole	28.844	28.844	28.844
Ms - Mol wt. stack gas, wet, g/gmole	28.809	28.815	28.821
Cp - Pitot tube coef., dimensionless	0.874	0.874	0.874
Δp - Avg. of sq. roots of each Δp	0.582	0.579	0.589
Ts - Absolute stack Temp. °R	520.6	521.8	525.3
A - Area of stack, square feet	3.14	3.14	3.14
Qstd - Volumetric flow rate, dscfm	6349	6309	6406
An - Area of nozzle, square feet	0.0002885	0.0002885	0.0002885
t - Sampling time, minutes	60	60	60
I - Isokinetic variation, percent	99.0	99.9	101.2

**FIELD DATA SUMMARY  
TOTAL PARTICULATE  
#2 DRYING CYCLONE**

	Run#1	Run#2	Run#3
Vlc - Volume of water collected, ml	<u>3.5</u>	<u>7.6</u>	<u>7.8</u>
Vm - Gas volume, meter cond., dcf	<u>29.301</u>	<u>35.667</u>	<u>36.799</u>
Y - Meter calibration factor	<u>0.986</u>	<u>0.986</u>	<u>0.986</u>
Pbar - Barometric pressure, in. Hg	<u>30.00</u>	<u>29.98</u>	<u>29.98</u>
Pg - Stack static pressure, in. H2O	<u>-0.07</u>	<u>-0.07</u>	<u>-0.07</u>
ΔH - Avg. meter press. diff., in. H2O	<u>0.783</u>	<u>1.168</u>	<u>1.219</u>
Tm - Absolute meter temperature, °R	<u>525.9</u>	<u>528.3</u>	<u>527.9</u>
Vm(std) - Standard sample gas vol., dscf	<u>28.6889</u>	<u>34.7676</u>	<u>35.9038</u>
Bws - Water vapor part in gas stream	<u>0.6</u>	<u>1.0</u>	<u>1.0</u>
CO2 - Dry concentration, volume %	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>
O2 - Dry concentration, volume %	<u>20.9</u>	<u>20.9</u>	<u>20.9</u>
Md - Mol wt. stack gas, dry, g/gmole	<u>28.844</u>	<u>28.844</u>	<u>28.844</u>
Ms - Mol wt. stack gas, wet, g/gmole	<u>28.783</u>	<u>28.735</u>	<u>28.736</u>
Cp - Pitot tube coef., dimensionless	<u>0.874</u>	<u>0.874</u>	<u>0.874</u>
Δp - Avg. of sq. roots of each Δp	<u>0.330</u>	<u>0.324</u>	<u>0.332</u>
Ts - Absolute stack Temp. °R	<u>541.9</u>	<u>574.2</u>	<u>577.6</u>
A - Area of stack, square feet	<u>3.14</u>	<u>3.14</u>	<u>3.14</u>
Qstd - Volumetric flow rate, dscfm	<u>3517</u>	<u>3350</u>	<u>3418</u>
An - Area of nozzle, square feet	<u>0.0004307</u>	<u>0.0005345</u>	<u>0.0005343</u>
ø - Sampling time, minutes	<u>60</u>	<u>60</u>	<u>60</u>
I - Isokinetic variation, percent	<u>100.6</u>	<u>103.2</u>	<u>104.4</u>

PM10  
PARTICULATE

26

MOTES  
CYCLONE

27

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Mote**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	1.2	g		
<b>Vlc</b>	Water Condensate Volume	1.2	ml		
<b>Vm</b>	Metered Sample Gas Volume	<b>35.373</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.373	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.09</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.346</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	58.4	deg. F	<b>518.4</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>33.9585</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.0144	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0558	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		<b>0.2</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.826</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.543</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>69.3</b>	deg. F	529.3	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.69	ft/sec		
<b>Qa</b>	Actual Flow Rate	5.973	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5.963	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>5.890</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>101.3</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Note**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	2.3	g		
<b>Vlc</b>	Water Condensate Volume	2.3	ml		
<b>Vm</b>	Metered Sample Gas Volume	35.467	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.467	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.09	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.290	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	63.8	deg. F	523.8	deg. R
<b>Vm(std)</b>	Sample Gas Volume	33.6934	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	33.8004	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1070	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.810	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.543	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	61.8	deg. F	521.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.47	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,932	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,914	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	5.926	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	99.9	%		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Note**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **3-PH10**

<b>Wlc</b>	Water Condensate Weight	1.9	g		
<b>Vlc</b>	Water Condensate Volume	1.9	ml		
<b>Vm</b>	Metered Sample Gas Volume	36.812	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.812	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.09	in. Hg		
<b>Pg</b>	Static Pressure	-0.9	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.02	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.338	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	65.1	deg. F	525.1	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.8934	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.9818	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0884	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.817	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.541	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	76.8	deg. F	536.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.82	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,999	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,983	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	5,817	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	105.4	%		

SUCTION  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	3.4	g		
<b>Vlc</b>	Water Condensate Volume	<b>3.4</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>38.071</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	38.071	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>29.92</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.1</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.471</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	64.3	deg. F	<b>524.3</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>35.9480</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.1062	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1582	scf		
<b>Bws</b>	Water Content of Stack Gas	0.004		<b>0.4</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.796</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.569</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>54.0</b>	deg. F	514.0	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	32.83	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,188	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,161	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>6,231</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>101.3</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	<b>2.0</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>37.772</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.772	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>29.92</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.1</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.553</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	60.8	deg. F	<b>520.8</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>35.9112</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.0042	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		<b>0.3</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.816</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.583</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>50.5</b>	deg. F	510.5	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.53	ft/sec		
<b>Qa</b>	Actual Flow Rate	6.320	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6.303	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>6.419</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>98.3</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	2.0	ml		
<b>Vm</b>	Metered Sample Gas Volume	40.558	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	40.558	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.10	in. Hg		
<b>Pg</b>	Static Pressure	-0.1	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.09	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.694	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	59.5	deg. F	519.5	deg. R
<b>Vm(std)</b>	Sample Gas Volume	38.8992	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	38.9923	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.818	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.606	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	61.3	deg. F	521.3	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	35.09	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,615	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,599	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6.621	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	103.2	%		

LINT CLEANER  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	2.0	ml		
<b>Vm</b>	Metered Sample Gas Volume	37.915	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.915	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.17	in. Hg		
<b>Pg</b>	Static Pressure	-0.11	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.16	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.390	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	56.2	deg. F	516.2	deg. R
<b>Vm(std)</b>	Sample Gas Volume	36.6598	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.7529	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.817	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.552	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	50.4	deg. F	510.4	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.62	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,960	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,945	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,105	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	105.5	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	1.8	g		
<b>Vlc</b>	Water Condensate Volume	1.8	ml		
<b>Vm</b>	Metered Sample Gas Volume	36.202	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.202	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.28	in. Hg		
<b>Pg</b>	Static Pressure	-0.11	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.27	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.353	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	61.4	deg. F	521.4	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.7744	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.8581	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0837	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.818	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.548	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	64.5	deg. F	524.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.78	ft/sec		
<b>Qa</b>	Actual Flow Rate	5.990	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5.976	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	5.994	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	101.9	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	1.9	g		
<b>Vlc</b>	Water Condensate Volume	1.9	ml		
<b>Vm</b>	Metered Sample Gas Volume	36.932	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.932	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	30.25	in. Hg		
<b>Pg</b>	Static Pressure	-0.11	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.24	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.389	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	69.4	deg. F	529.4	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.9103	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.9987	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0884	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.817	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.556	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	50.0	deg. F	510.0	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.80	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,993	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,978	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,161	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	99.5	%		

OVERFLOW  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	1.6	g		
<b>Vlc</b>	Water Condensate Volume	<b>1.6</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>35.359</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.359	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.12</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.11	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.244</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	70.5	deg. F	<b>530.5</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>33.2006</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	33.2750	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0744	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		<b>0.2</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.820</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.395</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>79.2</b>	deg. F	539.2	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	23.24	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,381	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,371	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>4,243</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0004307</b>	<b>sq ft</b>	0.281	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>100.3</b>	<b>%</b>		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **2-PH10**

<b>Wlc</b>	Water Condensate Weight	3.5	g		
<b>Vlc</b>	Water Condensate Volume	<b>3.5</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>36.812</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.812	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.09</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.325</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	71.1	deg. F	<b>531.1</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>34.4980</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.6608	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1628	scf		
<b>Bws</b>	Water Content of Stack Gas	0.005		<b>0.5</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.793</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.407</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>74.6</b>	deg. F	534.6	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	23.89	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,503	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,482	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>4.383</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0004307</b>	<b>sq ft</b>	0.281	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>100.9</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	5.4	g		
<b>Vlc</b>	Water Condensate Volume	<b>5.4</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>37.461</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.461	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.08</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.07	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.402</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	68.2	deg. F	<b>528.2</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>35.2923</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	35.5435	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.2512	scf		
<b>Bws</b>	Water Content of Stack Gas	0.007		<b>0.7</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.767</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.418</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>74.8</b>	deg. F	534.8	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	24.58	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,632	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,600	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>4,496</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0004307</b>	<b>sq ft</b>	0.281	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>100.6</b>	<b>%</b>		

#1 DRYING  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	7.0	g		
<b>Vlc</b>	Water Condensate Volume	<b>7.0</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>40.601</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	40.601	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.10</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.02</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.10	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.784</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	47.3	deg. F	<b>507.3</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>39.8895</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	40.2152	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.3256	scf		
<b>Bws</b>	Water Content of Stack Gas	0.008		<b>0.8</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.756</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.304</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>126.9</b>	deg. F	586.9	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	18.71	ft/sec		
<b>Qa</b>	Actual Flow Rate	3.527	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3.498	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3.118</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0007507</b>	<b>sq ft</b>	0.371	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>94.0</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	8.5	g		
<b>Vlc</b>	Water Condensate Volume	<b>8.5</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>35.516</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.516	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.10</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.02</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.10	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.192</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	51.4	deg. F	<b>511.4</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>34.5610</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.9564	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.3954	scf		
<b>Bws</b>	Water Content of Stack Gas	0.011		<b>1.1</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.721</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.334</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>112.5</b>	deg. F	572.5	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.30	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,826	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,782	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3,456</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0005761</b>	<b>sq ft</b>	0.325	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>95.8</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	13.0	g		
<b>Vlc</b>	Water Condensate Volume	<b>13.0</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>37.306</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.306	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.04</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.02</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.04	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.429</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	59.2	deg. F	<b>519.2</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>35.7119</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.3166	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.6047	scf		
<b>Bws</b>	Water Content of Stack Gas	0.017		<b>1.7</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.663</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.345</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>121.1</b>	deg. F	581.1	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	21.17	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,991	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,925	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3,526</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0005761</b>	<b>sq ft</b>	0.325	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>97.0</b>	<b>%</b>		

GIN STAND TRASH  
CYCLONE

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	1.5	g		
<b>Vlc</b>	Water Condensate Volume	1.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	32.790	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	32.790	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	29.94	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.93	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.138	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	61.6	deg. F	521.6	deg. R
<b>Vm(std)</b>	Sample Gas Volume	31.1176	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.1874	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0698	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.820	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.445	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	71.4	deg. F	531.4	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	26.09	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,917	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,906	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4.803	dscfm		
<b>An</b>	Nozzle Area	0.0003744	sq ft	0.262	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	95.5	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	2.2	g		
<b>Vlc</b>	Water Condensate Volume	2.2	ml		
<b>Vm</b>	Metered Sample Gas Volume	32.725	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	32.725	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	29.92	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.098	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	62.0	deg. F	522.0	deg. R
<b>Vm(std)</b>	Sample Gas Volume	31.0074	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.1097	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1023	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.808	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.437	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	70.7	deg. F	530.7	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	25.63	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,832	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,816	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,718	dscfm		
<b>An</b>	Nozzle Area	0.0003744	sq ft	0.262	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	96.9	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **3-PH10**

<b>Wlc</b>	Water Condensate Weight	0.8	g		
<b>Vlc</b>	Water Condensate Volume	<b>0.8</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>33.032</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	33.032	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>29.91</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.90	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.110</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	62.5	deg. F	<b>522.5</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>31.2589</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.2961	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0372	scf		
<b>Bws</b>	Water Content of Stack Gas	0.001		<b>0.1</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.831</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.441</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>70.0</b>	deg. F	530.0	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	25.82	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,868	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,862	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>4,768</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003744</b>	<b>sq ft</b>	0.262	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>96.7</b>	<b>%</b>		

BATTERY CONDENSER  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	1.7	g		
<b>Vlc</b>	Water Condensate Volume	1.7	ml		
<b>Vm</b>	Metered Sample Gas Volume	32.914	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	32.914	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	29.97	in. Hg		
<b>Pg</b>	Static Pressure	-0.18	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.96	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.141	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	52.8	deg. F	512.8	deg. R
<b>Vm(std)</b>	Sample Gas Volume	31.8015	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.8806	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0791	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.817	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.579	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	60.5	deg. F	520.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.57	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,328	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,312	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,314	dscfm		
<b>An</b>	Nozzle Area	0.0002885	sq ft	0.230	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	96.3	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **2-PM10**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	2.0	ml		
<b>Vm</b>	Metered Sample Gas Volume	33.000	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	33.000	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	29.99	in. Hg		
<b>Pg</b>	Static Pressure	-0.18	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.98	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.135	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	57.8	deg. F	517.8	deg. R
<b>Vm(std)</b>	Sample Gas Volume	31.5972	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.6903	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.812	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.578	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	61.8	deg. F	521.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.59	ft/sec		
<b>Qa</b>	Actual Flow Rate	6.332	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6.313	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6.303	dscfm		
<b>An</b>	Nozzle Area	0.0002885	sq ft	0.230	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	95.9	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	1.4	g		
<b>Vlc</b>	Water Condensate Volume	<b>1.4</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>33.794</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	33.794	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.00</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.18</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.99	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.156</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	62.4	deg. F	<b>522.4</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>32.0860</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	32.1511	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0651	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		<b>0.2</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.822</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.584</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>65.3</b>	deg. F	525.3	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	34.02	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,413	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,400	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>6,350</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0002885</b>	<b>sq ft</b>	0.230	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>96.7</b>	<b>%</b>		

#2 DRYING  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **1-PM10**

<b>Wlc</b>	Water Condensate Weight	1.5	g		
<b>Vlc</b>	Water Condensate Volume	<b>1.5</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>27.827</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	27.827	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.00</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.07</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.99	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>0.841</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	61.9	deg. F	<b>521.9</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>26.4255</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	26.4953	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0698	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		<b>0.3</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.815</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.339</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>81.9</b>	deg. F	541.9	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.04	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,778	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,768	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3.625</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0004276</b>	<b>sq ft</b>	0.280	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>94.1</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **2-PH10**

<b>Wlc</b>	Water Condensate Weight	2.3	g		
<b>Vlc</b>	Water Condensate Volume	2.3	ml		
<b>Vm</b>	Metered Sample Gas Volume	33.425	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	33.425	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.949			
<b>Pbar</b>	Barometric Pressure	29.98	in. Hg		
<b>Pg</b>	Static Pressure	-0.07	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.97	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.202	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	63.6	deg. F	523.6	deg. R
<b>Vm(std)</b>	Sample Gas Volume	31.6423	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	31.7493	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1070	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.807	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.328	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	114.2	deg. F	574.2	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	19.97	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,765	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,752	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	3,404	dscfm		
<b>An</b>	Nozzle Area	0.0005343	sq ft	0.313	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	96.0	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **3-PM10**

<b>Wlc</b>	Water Condensate Weight	5.2	g		
<b>Vlc</b>	Water Condensate Volume	<b>5.2</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>34.108</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	34.108	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.949</b>			
<b>Pbar</b>	Barometric Pressure	<b>29.98</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.07</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	29.97	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.186</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	63.4	deg. F	<b>523.4</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>32.3056</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	32.5475	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.2419	scf		
<b>Bws</b>	Water Content of Stack Gas	0.007		<b>0.7</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.763</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.327</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>117.6</b>	deg. F	577.6	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.02	ft/sec		
<b>Qa</b>	Actual Flow Rate	3.773	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3.745	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3.378</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0005343</b>	<b>sq ft</b>	0.313	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>98.8</b>	<b>%</b>		

TOTAL  
PARTICULATE

59

MOTES  
CYCLONE

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Note**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	0.7	g		
<b>Vlc</b>	Water Condensate Volume	<b>0.7</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>36.469</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.469	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.986</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.09</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.09</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.308</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	61.3	deg. F	<b>521.3</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>36.1767</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.2092	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0326	scf		
<b>Bws</b>	Water Content of Stack Gas	0.001		<b>0.1</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.834</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.536</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>69.3</b>	deg. F	529.3	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.31	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,902	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,896	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>5,824</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>105.0</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Note**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	4.9	g		
<b>Vlc</b>	Water Condensate Volume	4.9	ml		
<b>Vm</b>	Metered Sample Gas Volume	38.762	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	38.762	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.09	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.353	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	68.7	deg. F	528.7	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.9160	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	38.1440	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.2279	scf		
<b>Bws</b>	Water Content of Stack Gas	0.006		0.6	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.779	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.553	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	61.8	deg. F	521.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	32.08	ft/sec		
<b>Qa</b>	Actual Flow Rate	6.047	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6.011	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6.024	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	106.4	%		

62

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Note**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	2.3	g		
<b>Vlc</b>	Water Condensate Volume	2.3	ml		
<b>Vm</b>	Metered Sample Gas Volume	37.982	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.982	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.09	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.308	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	70.6	deg. F	530.6	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.0133	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.1203	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1070	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.813	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.539	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	76.8	deg. F	536.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.70	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,975	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,958	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	5,803	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	107.8	%		

SUCTION  
CYCLONE

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std - 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	3.9	g		
<b>Vlc</b>	Water Condensate Volume	3.9	ml		
<b>Vm</b>	Metered Sample Gas Volume	42.312	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	42.312	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.92	in. Hg		
<b>Pg</b>	Static Pressure	-0.1	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.555	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	69.5	deg. F	529.5	deg. R
<b>Vm(std)</b>	Sample Gas Volume	41.1093	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	41.2908	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1814	scf		
<b>Bws</b>	Water Content of Stack Gas	0.004		0.4	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.796	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.581	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	54.0	deg. F	514.0	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.55	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,323	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,296	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,368	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	109.2	%		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	2.0	ml		
<b>Vm</b>	Metered Sample Gas Volume	41.853	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	41.853	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.92	in. Hg		
<b>Pg</b>	Static Pressure	-0.1	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.655	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	66.7	deg. F	526.7	deg. R
<b>Vm(std)</b>	Sample Gas Volume	40.8890	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	40.9820	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.819	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.601	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	50.5	deg. F	510.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	34.53	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,509	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,494	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,613	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	104.6	%		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Suction**

Date: **12/8/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	1.3	g		
<b>Vlc</b>	Water Condensate Volume	1.3	ml		
<b>Vm</b>	Metered Sample Gas Volume	40.377	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	40.377	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.10	in. Hg		
<b>Pg</b>	Static Pressure	-0.1	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.09	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.584	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	64.9	deg. F	524.9	deg. R
<b>Vm(std)</b>	Sample Gas Volume	39.8134	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	39.8739	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0605	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.828	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.580	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	60.7	deg. F	520.7	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.59	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,332	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,322	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6.350	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	106.0	%		

LINT CLEANER  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	0.9	g		
<b>Vlc</b>	Water Condensate Volume	<b>0.9</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>38.402</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	38.402	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.986</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.17</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.11</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.16	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.397</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	58.4	deg. F	<b>518.4</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>38.4106</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	38.4525	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0419	scf		
<b>Bws</b>	Water Content of Stack Gas	0.001		<b>0.1</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.832</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.554</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>50.4</b>	deg. F	510.4	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.73	ft/sec		
<b>Qa</b>	Actual Flow Rate	5,982	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5,975	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>6,136</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>105.8</b>	<b>%</b>		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	2.5	g		
<b>Vlc</b>	Water Condensate Volume	2.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	37.693	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.693	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.28	in. Hg		
<b>Pg</b>	Static Pressure	-0.11	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.27	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.365	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	67.6	deg. F	527.6	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.1752	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.2915	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1163	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.810	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.547	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	64.5	deg. F	524.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	31.72	ft/sec		
<b>Qa</b>	Actual Flow Rate	5.980	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	5.961	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	5.979	dscfm		
<b>An</b>	Nozzle Area	0.0003142	sq ft	0.240	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	105.1	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Lint Cleaner**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	<b>2.0</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>39.815</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	39.815	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.986</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.25</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.11</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.24	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.474</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	74.6	deg. F	<b>534.6</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>38.7274</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	38.8205	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		<b>0.2</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.818</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.568</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>50.0</b>	deg. F	510.0	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	32.49	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,125	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,110	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>6.297</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0003142</b>	<b>sq ft</b>	0.240	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>104.0</b>	<b>%</b>		

OVERFLOW  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	1.2	g		
<b>Vlc</b>	Water Condensate Volume	1.2	ml		
<b>Vm</b>	Metered Sample Gas Volume	38.853	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	38.853	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.12	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.11	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.336	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	76.1	deg. F	536.1	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.5120	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.5678	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0558	scf		
<b>Bws</b>	Water Content of Stack Gas	0.001		0.1	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.828	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.411	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	78.8	deg. F	538.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	24.21	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,563	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,556	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,425	dscfm		
<b>An</b>	Nozzle Area	0.0004307	sq ft	0.281	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	104.6	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	3.1	g		
<b>Vlc</b>	Water Condensate Volume	3.1	ml		
<b>Vm</b>	Metered Sample Gas Volume	39.134	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	39.134	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.09	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.08	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.394	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	76.7	deg. F	536.7	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.7101	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.8543	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1442	scf		
<b>Bws</b>	Water Content of Stack Gas	0.004		0.4	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.803	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.418	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	74.6	deg. F	534.6	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	24.55	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,628	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,611	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,509	dscfm		
<b>An</b>	Nozzle Area	0.0004307	sq ft	0.281	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	103.2	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Overflow**

Date: **12/9/92**  
 Type: **T std - 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	4.2	g		
<b>Vlc</b>	Water Condensate Volume	4.2	ml		
<b>Vm</b>	Metered Sample Gas Volume	38.908	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	38.908	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.08	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.07	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.388	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	73.9	deg. F	533.9	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.6783	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.8736	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1954	scf		
<b>Bws</b>	Water Content of Stack Gas	0.005		0.5	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.788	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.418	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	74.8	deg. F	534.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	24.53	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,624	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,600	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,496	dscfm		
<b>An</b>	Nozzle Area	0.0004307	sq ft	0.281	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	103.4	%		

# 1 DRYING  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	18.1	g		
<b>Vlc</b>	Water Condensate Volume	<b>18.1</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>43.321</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	43.321	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.986</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.10</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.02</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.10	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.960</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	51.0	deg. F	<b>511.0</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>43.9234</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	44.7654	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.8420	scf		
<b>Bws</b>	Water Content of Stack Gas	0.019		<b>1.9</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.640</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.320</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>126.8</b>	deg. F	586.8	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	19.74	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,722	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,652	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3,255</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0007507</b>	<b>sq ft</b>	0.371	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>95.5</b>	<b>%</b>		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	9.3	g		
<b>Vlc</b>	Water Condensate Volume	9.3	ml		
<b>Vm</b>	Metered Sample Gas Volume	37.143	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.143	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.10	in. Hg		
<b>Pg</b>	Static Pressure	-0.02	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	30.10	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.254	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	57.4	deg. F	517.4	deg. R
<b>Vm(std)</b>	Sample Gas Volume	37.1242	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.5568	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.4326	scf		
<b>Bws</b>	Water Content of Stack Gas	0.012		1.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.719	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.342	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	112.5	deg. F	572.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.81	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,923	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,877	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	3,543	dscfm		
<b>An</b>	Nozzle Area	0.0005761	sq ft	0.325	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	96.6	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#1 Drying**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	13.0	g		
<b>Vlc</b>	Water Condensate Volume	<b>13.0</b>	<b>ml</b>		
<b>Vm</b>	Metered Sample Gas Volume	<b>37.817</b>	<b>dcf</b>		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	37.817	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	<b>0.986</b>			
<b>Pbar</b>	Barometric Pressure	<b>30.04</b>	<b>in. Hg</b>		
<b>Pg</b>	Static Pressure	<b>-0.02</b>	<b>in. H2O</b>		
<b>Ps</b>	Stack Pressure, Absolute	30.04	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	<b>1.355</b>	<b>in. H2O</b>		
<b>Tm</b>	Dry Gas Meter Temperature, Average	63.5	deg. F	<b>523.5</b>	<b>deg. R</b>
<b>Vm(std)</b>	Sample Gas Volume	<b>37.2965</b>	<b>dscf</b>		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	37.9012	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.6047	scf		
<b>Bws</b>	Water Content of Stack Gas	0.016		<b>1.6</b>	<b>%</b>
<b>CO2</b>	Carbon Dioxide, Dry	<b>0.1</b>	<b>%</b>		
<b>O2</b>	Oxygen, Dry	<b>20.9</b>	<b>%</b>		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	<b>28.844</b>	<b>lb/lb mole</b>		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	<b>28.671</b>	<b>lb/lb mole</b>		
<b>Cp</b>	Pitot Calibration Factor	<b>0.874</b>			
<b>Δ P</b>	Velocity Head, Average Square Root	<b>0.336</b>	<b>in. H2O</b>		
<b>Ts</b>	Stack Gas Temperature, Average	<b>121.2</b>	deg. F	581.2	deg. R
<b>As</b>	Area of Stack	<b>3.14</b>	<b>sq ft</b>	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.61	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,884	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,822	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	<b>3,434</b>	<b>dscfm</b>		
<b>An</b>	Nozzle Area	<b>0.0005761</b>	<b>sq ft</b>	0.325	in. dia.
<b>Theta</b>	Sampling Time	<b>60</b>	<b>min.</b>		
<b>I</b>	Isokinetics	<b>100.1</b>	<b>%</b>		

GIN STAND TRASH  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std - 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	2.5	g		
<b>Vlc</b>	Water Condensate Volume	2.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	34.781	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	34.781	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.94	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.93	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.118	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	66.5	deg. F	526.5	deg. R
<b>Vm(std)</b>	Sample Gas Volume	33.9752	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.0915	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1163	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.807	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.441	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	71.5	deg. F	531.5	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	25.88	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,879	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,862	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,759	dscfm		
<b>An</b>	Nozzle Area	0.0003744	sq ft	0.262	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	101.3	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	3.5	g		
<b>Vlc</b>	Water Condensate Volume	3.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	35.952	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.952	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.92	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.91	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.129	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	67.0	deg. F	527.0	deg. R
<b>Vm(std)</b>	Sample Gas Volume	35.0592	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	35.2220	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1628	scf		
<b>Bws</b>	Water Content of Stack Gas	0.005		0.5	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.794	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.443	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	70.7	deg. F	530.7	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	26.00	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,901	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,878	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,779	dscfm		
<b>An</b>	Nozzle Area	0.0003744	sq ft	0.262	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	104.1	%		

### FIELD DATA & CALCULATIONS SUMMARY

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Gin Stand Trash**

Date: **12/10/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	4.5	g		
<b>Vlc</b>	Water Condensate Volume	4.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	34.985	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	34.985	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.91	in. Hg		
<b>Pg</b>	Static Pressure	-0.09	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.90	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.098	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	67.1	deg. F	527.1	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.0942	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.3035	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.2093	scf		
<b>Bws</b>	Water Content of Stack Gas	0.006		0.6	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.778	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.438	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	70.0	deg. F	530.0	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	25.67	ft/sec		
<b>Qa</b>	Actual Flow Rate	4,839	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	4,810	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	4,716	dscfm		
<b>An</b>	Nozzle Area	0.0003744	sq ft	0.262	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	102.6	%		

BATTERY CONDENSER  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	2.4	g		
<b>Vlc</b>	Water Condensate Volume	2.4	ml		
<b>Vm</b>	Metered Sample Gas Volume	34.008	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	34.008	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.97	in. Hg		
<b>Pg</b>	Static Pressure	-0.18	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.96	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.153	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	53.1	deg. F	513.1	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.1232	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.2348	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1116	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.809	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.582	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	60.6	deg. F	520.6	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.79	ft/sec		
<b>Qa</b>	Actual Flow Rate	6.369	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6.348	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6.349	dscfm		
<b>An</b>	Nozzle Area	0.0002885	sq ft	0.230	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	99.0	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	2.0	g		
<b>Vlc</b>	Water Condensate Volume	2.0	ml		
<b>Vm</b>	Metered Sample Gas Volume	34.686	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	34.686	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.94	in. Hg		
<b>Pg</b>	Static Pressure	-0.18	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.93	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.132	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	61.0	deg. F	521.0	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.2417	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	34.3347	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0930	scf		
<b>Bws</b>	Water Content of Stack Gas	0.003		0.3	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.815	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.579	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	61.8	deg. F	521.8	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	33.67	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,347	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,330	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,309	dscfm		
<b>An</b>	Nozzle Area	0.0002885	sq ft	0.230	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	99.9	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **Battery Condenser**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	1.6	g		
<b>Vlc</b>	Water Condensate Volume	1.6	ml		
<b>Vm</b>	Metered Sample Gas Volume	35.894	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vh</b>	Leak Corrected Sample Gas Volume	35.894	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.00	in. Hg		
<b>Pg</b>	Static Pressure	-0.18	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.99	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.185	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	65.4	deg. F	525.4	deg. R
<b>Vm(std)</b>	Sample Gas Volume	35.2107	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	35.2852	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.0744	scf		
<b>Bws</b>	Water Content of Stack Gas	0.002		0.2	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.821	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.589	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	65.3	deg. F	525.3	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	34.33	ft/sec		
<b>Qa</b>	Actual Flow Rate	6,471	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	6,458	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	6,406	dscfm		
<b>An</b>	Nozzle Area	0.0002885	sq ft	0.230	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	101.2	%		

#2 DRYING  
CYCLONE

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **1-Part**

<b>Wlc</b>	Water Condensate Weight	3.5	g		
<b>Vlc</b>	Water Condensate Volume	3.5	ml		
<b>Vm</b>	Metered Sample Gas Volume	29.301	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	29.301	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	30.00	in. Hg		
<b>Pg</b>	Static Pressure	-0.07	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.99	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	0.783	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	65.9	deg. F	525.9	deg. R
<b>Vm(std)</b>	Sample Gas Volume	28.6889	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	28.8517	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.1628	scf		
<b>Bws</b>	Water Content of Stack Gas	0.006		0.6	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.783	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.330	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	81.9	deg. F	541.9	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	19.51	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,677	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,657	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	3,517	dscfm		
<b>An</b>	Nozzle Area	0.0004307	sq ft	0.281	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	100.6	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std - 60 F**  
 Run: **2-Part**

<b>Wlc</b>	Water Condensate Weight	7.6	g		
<b>Vlc</b>	Water Condensate Volume	7.6	ml		
<b>Vm</b>	Metered Sample Gas Volume	35.667	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	35.667	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.98	in. Hg		
<b>Pg</b>	Static Pressure	-0.07	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.97	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.168	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	68.3	deg. F	528.3	deg. R
<b>Vm(std)</b>	Sample Gas Volume	34.7676	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	35.1212	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.3535	scf		
<b>Bws</b>	Water Content of Stack Gas	0.010		1.0	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.735	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.324	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	114.2	deg. F	574.2	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	19.79	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,730	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,693	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	3.350	dscfm		
<b>An</b>	Nozzle Area	0.0005343	sq ft	0.313	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	103.2	%		

**FIELD DATA & CALCULATIONS SUMMARY**

Client: **County Line Gins**  
 Site: **Hanford**  
 Unit: **#2 Drying**

Date: **12/11/92**  
 Type: **T std = 60 F**  
 Run: **3-Part**

<b>Wlc</b>	Water Condensate Weight	7.8	g		
<b>Vlc</b>	Water Condensate Volume	7.8	ml		
<b>Vm</b>	Metered Sample Gas Volume	36.799	dcf		
<b>Lp</b>	Avg. Leak Rate	0.000	cf		
<b>Vn</b>	Leak Corrected Sample Gas Volume	36.799	dcf		
<b>Y</b>	Dry Gas Meter Calibration Factor	0.986			
<b>Pbar</b>	Barometric Pressure	29.98	in. Hg		
<b>Pg</b>	Static Pressure	-0.07	in. H2O		
<b>Ps</b>	Stack Pressure, Absolute	29.97	in. Hg		
<b>Δ H</b>	Dry Gas Meter Press. Differential, Average	1.219	in. H2O		
<b>Tm</b>	Dry Gas Meter Temperature, Average	67.9	deg. F	527.9	deg. R
<b>Vm(std)</b>	Sample Gas Volume	35.9038	dscf		
<b>Vm(wet)</b>	Sample Gas Volume, Wet	36.2667	scf		
<b>Vw(std)</b>	Water Vapor Volume	0.3628	scf		
<b>Bws</b>	Water Content of Stack Gas	0.010		1.0	%
<b>CO2</b>	Carbon Dioxide, Dry	0.1	%		
<b>O2</b>	Oxygen, Dry	20.9	%		
<b>N2</b>	Nitrogen, Dry	79.1	%		
<b>Md</b>	Molecular Wt. of Stack Gas, Dry	28.844	lb/lb mole		
<b>Ms</b>	Molecular Wt. of Stack Gas, Wet	28.736	lb/lb mole		
<b>Cp</b>	Pitot Calibration Factor	0.874			
<b>Δ P</b>	Velocity Head, Average Square Root	0.332	in. H2O		
<b>Ts</b>	Stack Gas Temperature, Average	117.6	deg. F	577.6	deg. R
<b>As</b>	Area of Stack	3.14	sq ft	24.0	in. dia.
<b>Vs</b>	Stack Gas Velocity	20.31	ft/sec		
<b>Qa</b>	Actual Flow Rate	3,828	cfm		
<b>Qad</b>	Actual Flow Rate, Dry	3,790	dcfm		
<b>Q(std)</b>	Stack Gas Flow Rate	3,418	dscfm		
<b>An</b>	Nozzle Area	0.0005343	sq ft	0.313	in. dia.
<b>Theta</b>	Sampling Time	60	min.		
<b>I</b>	Isokinetics	104.4	%		

### **III. WET TEST METHODS CALCULATIONS**

92

MOTES  
CYCLONE

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Note**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **1-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.1393	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0594</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>2.97</b>	lb/hr
	+10 $\mu$ Particulate	<b>45.92</b>	%
	+10 $\mu$ Particulate	<b>1.36</b>	lb/hr
	-10 $\mu$ Particulate	<b>54.08</b>	%
	-10 $\mu$ Particulate	<b>1.60</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Note**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.1447	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0589</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>3.04</b>	lb/hr
	+10 $\mu$ Particulate	<b>48.86</b>	%
	+10 $\mu$ Particulate	<b>1.49</b>	lb/hr
	-10 $\mu$ Particulate	<b>51.14</b>	%
	-10 $\mu$ Particulate	<b>1.55</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Note**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.1243	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0518</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>2.58</b>	lb/hr
	+10 $\mu$ Particulate	<b>47.75</b>	%
	+10 $\mu$ Particulate	<b>1.23</b>	lb/hr
	-10 $\mu$ Particulate	<b>52.25</b>	%
	-10 $\mu$ Particulate	<b>1.35</b>	lb/hr

BTC Environmental, Inc. - 1989

SUCTION  
CYCLONE

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Suction**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **1-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.1315	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0494</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>2.69</b>	lb/hr
	+10 $\mu$ Particulate	<b>46.60</b>	%
	+10 $\mu$ Particulate	<b>1.26</b>	lb/hr
	-10 $\mu$ Particulate	<b>53.40</b>	%
	-10 $\mu$ Particulate	<b>1.44</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Suction**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>WT</b>	Total Particulate Weight	0.1692	g
<b>CE</b>	Total Particulate Emissions	<b>0.0638</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>3.62</b>	lb/hr
	+10 $\mu$ Particulate	<b>49.96</b>	%
	+10 $\mu$ Particulate	<b>1.81</b>	lb/hr
	-10 $\mu$ Particulate	<b>50.05</b>	%
	-10 $\mu$ Particulate	<b>1.81</b>	lb/hr

BTC Environmental, Inc. - 1989

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Suction**

Date: **12/8/92**  
Type: **T std = 60 F**  
Run: **3-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.2053	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0796</b>	grain/dscf
<b>CFt</b>	Particulate Flow Rate	<b>4.33</b>	lb/hr
	+10 $\mu$ Particulate	<b>51.36</b>	%
	+10 $\mu$ Particulate	<b>2.22</b>	lb/hr
	-10 $\mu$ Particulate	<b>48.64</b>	%
	-10 $\mu$ Particulate	<b>2.11</b>	lb/hr

BTC Environmental, Inc. - 1989

LINT CLEANER  
CYCLONE

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Lint Cleaner**

Date: **12/9/92**  
Type: **T std = 60 F**  
Run: **1-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0476	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0191</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>1.01</b>	lb/hr
	+10 $\mu$ Particulate	<b>48.80</b>	%
	+10 $\mu$ Particulate	<b>0.49</b>	lb/hr
	-10 $\mu$ Particulate	<b>51.20</b>	%
	-10 $\mu$ Particulate	<b>0.51</b>	lb/hr

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**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Lint Cleaner**

Date: **12/9/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0752	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0312</b>	grain/dscf
<b>CFl</b>	Particulate Flow Rate	<b>1.60</b>	lb/hr
	+10 $\mu$ Particulate	<b>42.98</b>	%
	+10 $\mu$ Particulate	<b>0.69</b>	lb/hr
	-10 $\mu$ Particulate	<b>57.02</b>	%
	-10 $\mu$ Particulate	<b>0.91</b>	lb/hr

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**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Lint Cleaner**

Date: **12/9/92**  
Type: **T std - 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0478	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0190</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>1.03</b>	lb/hr
	+10 $\mu$ Particulate	<b>47.23</b>	%
	+10 $\mu$ Particulate	<b>0.49</b>	lb/hr
	-10 $\mu$ Particulate	<b>52.77</b>	%
	-10 $\mu$ Particulate	<b>0.54</b>	lb/hr

*BTC Environmental, Inc. - 1989*

OVERFLOW  
CYCLONE

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Overflow**

Date: **12/9/92**  
Type: **T std = 60 F**  
Run: **1-Part**

**PM10 PARTICULATE**

<b>WT</b>	Total Particulate Weight	0.0810	g
<b>CE</b>	Total Particulate Emissions	<b>0.0333</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>1.26</b>	lb/hr
	+10 $\mu$ Particulate	<b>35.79</b>	%
	+10 $\mu$ Particulate	<b>0.45</b>	lb/hr
	-10 $\mu$ Particulate	<b>64.21</b>	%
	-10 $\mu$ Particulate	<b>0.81</b>	lb/hr

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**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Overflow**

Date: **12/9/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0891	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0365</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>1.41</b>	lb/hr
	+10 $\mu$ Particulate	<b>30.86</b>	%
	+10 $\mu$ Particulate	<b>0.43</b>	lb/hr
	-10 $\mu$ Particulate	<b>69.14</b>	%
	-10 $\mu$ Particulate	<b>0.97</b>	lb/hr

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**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Overflow**

Date: **12/9/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0896	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0367</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>1.41</b>	lb/hr
	+10 $\mu$ Particulate	<b>49.34</b>	%
	+10 $\mu$ Particulate	<b>0.70</b>	lb/hr
	-10 $\mu$ Particulate	<b>50.66</b>	%
	-10 $\mu$ Particulate	<b>0.72</b>	lb/hr

BTC Environmental, Inc. - 1989

# 1 DRYING  
CYCLONE

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#1 Drying**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **1-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.1441	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0506</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>1.41</b>	lb/hr
	+10 $\mu$ Particulate	<b>66.44</b>	%
	+10 $\mu$ Particulate	<b>0.94</b>	lb/hr
	-10 $\mu$ Particulate	<b>33.56</b>	%
	-10 $\mu$ Particulate	<b>0.47</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#1 Drying**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	<b>0.2167</b>	<b>g</b>
<b>Ct</b>	Total Particulate Emissions	<b>0.0901</b>	<b>grain/dscf</b>
<b>CFl</b>	Particulate Flow Rate	<b>2.74</b>	<b>lb/hr</b>
	+10 $\mu$ Particulate	<b>46.49</b>	<b>%</b>
	+10 $\mu$ Particulate	<b>1.27</b>	<b>lb/hr</b>
	-10 $\mu$ Particulate	<b>53.51</b>	<b>%</b>
	-10 $\mu$ Particulate	<b>1.46</b>	<b>lb/hr</b>

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#1 Drying**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.1641	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0679</b>	grain/dscf
<b>CFL</b>	Particulate Flow Rate	<b>2.00</b>	lb/hr
	+10 $\mu$ Particulate	<b>57.17</b>	%
	+10 $\mu$ Particulate	<b>1.14</b>	lb/hr
	-10 $\mu$ Particulate	<b>42.83</b>	%
	-10 $\mu$ Particulate	<b>0.86</b>	lb/hr

*BTC Environmental, Inc. - 1989*

GIN STAND TRASH  
CYCLONE

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Gin Stand Trash**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **1-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.2496	g
<b>Ct</b>	Total Particulate Emissions	<b>0.1134</b>	grain/dscf
<b>CFl</b>	Particulate Flow Rate	<b>4.62</b>	lb/hr
	+10 $\mu$ Particulate	<b>62.53</b>	%
	+10 $\mu$ Particulate	<b>2.89</b>	lb/hr
	-10 $\mu$ Particulate	<b>37.47</b>	%
	-10 $\mu$ Particulate	<b>1.73</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Gin Stand Trash**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **2-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.1736	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0764</b>	grain/dscf
<b>CFl</b>	Particulate Flow Rate	<b>3.13</b>	lb/hr
	+10 $\mu$ Particulate	<b>56.18</b>	%
	+10 $\mu$ Particulate	<b>1.76</b>	lb/hr
	-10 $\mu$ Particulate	<b>43.82</b>	%
	-10 $\mu$ Particulate	<b>1.37</b>	lb/hr

*BTC Environmental, Inc. - 1989*

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Gin Stand Trash**

Date: **12/10/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>WL</b>	Total Particulate Weight	0.1694	g
<b>CL</b>	Total Particulate Emissions	<b>0.0767</b>	grain/dscf
<b>CFR</b>	Particulate Flow Rate	<b>3.10</b>	lb/hr
	+10 $\mu$ Particulate	<b>60.30</b>	%
	+10 $\mu$ Particulate	<b>1.87</b>	lb/hr
	-10 $\mu$ Particulate	<b>39.70</b>	%
	-10 $\mu$ Particulate	<b>1.23</b>	lb/hr

BTC Environmental, Inc. - 1989

BATTERY CONDENSER  
CYCLONE

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Battery Condenser**

Date: **12/11/92**  
Type: **T std = 60 F**  
Run: **1-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0129	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0058</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>0.32</b>	lb/hr
	+10 $\mu$ Particulate	<b>60.30</b>	%
	+10 $\mu$ Particulate	<b>0.19</b>	lb/hr
	-10 $\mu$ Particulate	<b>39.70</b>	%
	-10 $\mu$ Particulate	<b>0.13</b>	lb/hr

*BTC Environmental, Inc. - 1989*

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Battery Condenser**

Date: **12/11/92**  
Type: **T std = 60 F**  
Run: **2-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.0249	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0112</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>0.61</b>	lb/hr
	+10 $\mu$ Particulate	<b>79.97</b>	%
	+10 $\mu$ Particulate	<b>0.49</b>	lb/hr
	-10 $\mu$ Particulate	<b>20.03</b>	%
	-10 $\mu$ Particulate	<b>0.12</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **Battery Condenser**

Date: **12/11/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0431	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0189</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>1.04</b>	lb/hr
	+10 $\mu$ Particulate	<b>94.08</b>	%
	+10 $\mu$ Particulate	<b>0.98</b>	lb/hr
	-10 $\mu$ Particulate	<b>5.92</b>	%
	-10 $\mu$ Particulate	<b>0.06</b>	lb/hr

BTC Environmental, Inc. - 1989

#2 DRYING  
CYCLONE

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#2 Drying**

Date: **12/11/92**  
Type: **T std = 60 F**  
Run: **1-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0487	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0262</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>0.79</b>	lb/hr
	+10 $\mu$ Particulate	<b>43.25</b>	%
	+10 $\mu$ Particulate	<b>0.34</b>	lb/hr
	-10 $\mu$ Particulate	<b>56.75</b>	%
	-10 $\mu$ Particulate	<b>0.45</b>	lb/hr

BTC Environmental, Inc. - 1989

### CALCULATED EMISSION RESULTS

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#2 Drying**

Date: **12/11/92**  
Type: **T std - 60 F**  
Run: **2-Part**

### PM10 PARTICULATE

<b>Wt</b>	Total Particulate Weight	0.0646	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0287</b>	grain/dscf
<b>CFl</b>	Particulate Flow Rate	<b>0.82</b>	lb/hr
	+10 $\mu$ Particulate	<b>51.26</b>	%
	+10 $\mu$ Particulate	<b>0.42</b>	lb/hr
	-10 $\mu$ Particulate	<b>48.74</b>	%
	-10 $\mu$ Particulate	<b>0.40</b>	lb/hr

BTC Environmental, Inc. - 1989

**CALCULATED EMISSION RESULTS**

Client: **County Line Gins**  
Site: **Hanford**  
Unit: **#2 Drying**

Date: **12/11/92**  
Type: **T std = 60 F**  
Run: **3-Part**

**PM10 PARTICULATE**

<b>Wt</b>	Total Particulate Weight	0.0757	g
<b>Ct</b>	Total Particulate Emissions	<b>0.0325</b>	grain/dscf
<b>Cft</b>	Particulate Flow Rate	<b>0.95</b>	lb/hr
	+10 $\mu$ Particulate	<b>52.04</b>	%
	+10 $\mu$ Particulate	<b>0.50</b>	lb/hr
	-10 $\mu$ Particulate	<b>47.96</b>	%
	-10 $\mu$ Particulate	<b>0.46</b>	lb/hr

BTC Environmental, Inc. - 1989

**BTC ENVIRONMENTAL**  
**EPA methods 2, 3, 4, 5, 6, 8**

**CONSTANTS & CONVERSIONS**

Tstd = 60, 68, or 70 °F	1 in. Hg = 13.6 in. H <sub>2</sub> O
Pstd = 29.92 in. Hg	1 lb = 453.6 g
R = 21.85(in. Hg-cu ft/lb mole-°R)	1 lb = 7000 grain
Dw = 0.9982(g/ml)	1 g = 15.432 grain
MW(H <sub>2</sub> O) = 18.0 lb/lb mole	1 mg = 0.001 g
MW(Sulfur) = 32.03 lb/lb mole	1 hr = 60 min.
M(H <sub>2</sub> SO <sub>4</sub> ) = 98.08 lb/lb mole	1 part/vol X = 1*10 <sup>6</sup> ppmv X
MW(SO <sub>2</sub> ) = 64.06 lb/lb mole	1 bbl = 42 gal
K(H <sub>2</sub> SO <sub>4</sub> ) = 0.5 mg-g mole/g-meq	M = 1000
K(SO <sub>2</sub> ) = 0.5 mg-g mole/g-meq	La = 0.02 cfm
Kp = 85.49(ft/sec(sqrt{lb/lb mole-in.Hg/°R-in. H <sub>2</sub> O}))	
Kw,[cu ft/g-°R] = R / (453.6*MW(H <sub>2</sub> O)*Pstd)	
Kf,[scf-ppm/lb mole] = R * (Tstd+460) * (1*10 <sup>6</sup> ) / Pstd	

**INTERMEDIATE CALCULATIONS**

F,[scf/MMBtu] = F Factor * ( Tstd + 460 ) / 528
Ph,[in. Hg] = Pbar + ( ΔH / 13.6)
N <sub>2</sub> ,[%] = 100 - (O <sub>2</sub> % + CO <sub>2</sub> %)
Vlc,[ml] = Ww / Dw
Qa,[cfm] = 60 * Vs * As
Qad,[dcfm] = Qa * (1 - Bws)

**CFR 40 - EPA EQUATIONS**

eq. 2-8	T[°R] = T[°F]+460
eq. 2-6	Ps, [in. Hg] = Pbar+(Pg/13.6)
eq. 5-3	Bws, [%] = Vw(std) / { Vw(std) + Vm(std) }
eq. 3-2	Md, [lb/lb-mole] = 0.44*CO <sub>2</sub> %+0.32*O <sub>2</sub> %+0.28*(N <sub>2</sub> %+CO%)
eq. 2-5	Ms, [lb/lb mol] = Md*(1-Bws)+(MW(H <sub>2</sub> O)*Bws )
eq. 5-2	Vw(std), [scf] = Ww * Kw * (Tstd+460)
eq. 5-1	Vn, [cf] = Vm - ((Lp-La) * Theta)
eq. 5-1	Vm(std), [sdcf] = Vm * Y * ( (Tstd+460) / (Tm+460) ) * Ph / Pstd
eq. 2-9	Vs, [ft./sec.] = Kp*Cp*(ΔP*(Ts+460))/ ( Ps*Ms))^0.5
eq. 2-10	Qstd, [dscfm] = Qad*(Tstd+460)*Ps/((Ts+460)*Pstd)
eq. 5-8	I, [%] = 100*(Ts+460)*Vm(std)*Pstd/(60*Vs*Theta*An*Ps*(1-Bws)*(Tstd+460))
eq. 5-6	Cx, [grain/dscf] = Wx,g*15.432/Vm(std)
eq. 8-2,3	Wx, [mg] = (Vt-Vtb)*N(std)*(Vsoln/Valq)*MWx*Kx
	Cx, [grain/dscf] = Wx,mg*0.001*15.432/Vm(std)
	CWx, [grain/scf] = Cx*(1-Bws)
	CCx, [grain/dscf @ 12% CO <sub>2</sub> ] = Cx*12.0/CO <sub>2</sub> %
	CWCx, [grain/scf @ 12% CO <sub>2</sub> %] = CCx
	CPx, [ppmv dry] = Cx*Kf/(MWx*7000)
	CPCx, [ppmv @ N% O <sub>2</sub> ] = CPX* ((20.9-N%)/(20.9-O <sub>2</sub> %))
	CFx, [lb/hr] = Cx*Q(std)*60/7000
	CEx, [lb/MMBtu] = F*(Cx/7000)*(20.9/(20.9-O <sub>2</sub> %))
	CBx, [lb/bbl] = CEx*(Fuel Btu/MM)*(Fuel lb/gal)*42
	CEsx, [lb S/MMBtu] = CEx*(MW(S) / MWx)

Where x represents, Particulate, Sulfuric Acid, Sulfate, or Sulfur Dioxide respectively.

**V. LABORATORY ANALYSIS**

PM10  
PARTICULATE

MOTES  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Motes

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	595.7
tare	594.4
final	<u>1.3</u>

Imp. #2: 

gross	587.2
tare	587.7
final	<u>-0.5</u>

Imp. #3: 

gross	461.3
tare	461.2
final	<u>0.1</u>

Imp. #4: 

gross	576.4
tare	576.1
final	<u>0.3</u>

Total 1.2

Solution blank 

DI
Acetone

Filter Nos: 

H-1
H-2
I-1

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client: County Line/Eckley  
 Site: Hanford  
 Unit: Motes

Date: 12/8/91  
 Job #: 3067  
 Lab #: 291-204

Method#: PM10      Probe#: 4  
 Run#: 2      Stack box#: B  
 Hot box#: -      Cold box#: 11

Pryo#: T-3  
 Nozzle#: 0.24  
 Pitot#: 0.874

Imp. #1:      

gross	637.8
tare	636.6
final	<u>1.2</u>

Imp. #2:      

gross	595.5
tare	596.2
final	<u>-0.7</u>

Imp. #3:      

gross	444.2
tare	443.7
final	<u>0.5</u>

Imp. #4:      

gross	639.4
tare	638.1
final	<u>1.3</u>

Total      2.3

Solution blank: DI  
 Solution blank: Acetone

Filter Nos: H-3  
 Filter Nos: H-4  
 Filter Nos: I-2

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Motes

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 4

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	673.5
tare	672.6
final	<u>0.9</u>

Imp. #2: 

gross	657.0
tare	656.3
final	<u>0.7</u>

Imp. #3: 

gross	442.8
tare	442.8
final	<u>0.0</u>

Imp. #4: 

gross	607.0
tare	606.7
final	<u>0.3</u>

Total 1.9

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

H-5
-----

  
 Filter Nos: 

H-6
-----

  
 Filter Nos: 

I-3
-----

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SUCTION  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Suction

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 10

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	573.5
tare	571.6
final	<u>1.9</u>

Imp. #2: 

gross	581.7
tare	581.5
final	<u>0.2</u>

Imp. #3: 

gross	461.9
tare	461.3
final	<u>0.6</u>

Imp. #4: 

gross	577.1
tare	576.4
final	<u>0.7</u>

Total 3.4

Solution blank: 

DI
Acetone

Filter Nos: 

H-7
H-8
I-4

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Suction

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 2  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 11

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	617.2
tare	564.7
final	<u>52.5</u>

Imp. #2: 

gross	496.8
tare	547.9
final	<u>-51.1</u>

Imp. #3: 

gross	443.7
tare	443.6
final	<u>0.1</u>

Imp. #4: 

gross	638.6
tare	638.1
final	<u>0.5</u>

Total 2.0

Solution blank 

DI
Acetone

Filter Nos: 

H-9
H-10
I-5

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Suction

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 4

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	580.2
tare	578.7
final	<u>1.5</u>

Imp. #2: 

gross	594.7
tare	594.4
final	<u>0.3</u>

Imp. #3: 

gross	443.6
tare	443.5
final	<u>0.1</u>

Imp. #4: 

gross	606.8
tare	606.7
final	<u>0.1</u>

Total 2.0

Solution blank DI  
 Solution blank Acetone

Filter Nos: H-11  
 Filter Nos: H-12  
 Filter Nos: I-6

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

LINT CLEANER  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Lint Cleaner

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 1  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 1

Pryo# : T-3  
Nozzle# : 0.24  
Pitot# : 0.874

Imp. #1: 

gross	564.0
tare	563.2
final	<u>0.8</u>

Imp. #2: 

gross	562.1
tare	561.8
final	<u>0.3</u>

Imp. #3: 

gross	462.2
tare	462.0
final	<u>0.2</u>

Imp. #4: 

gross	577.8
tare	577.1
final	<u>0.7</u>

Total 2.0

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

H-13
------

  
Filter Nos: 

H-14
------

  
Filter Nos: 

I-7
-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Lint Cleaner

Date : 12/9/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 2  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 11

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	560.6
tare	560.3
final	<u>0.3</u>

Imp. #2: 

gross	574.0
tare	572.7
final	<u>1.3</u>

Imp. #3: 

gross	444.2
tare	444.0
final	<u>0.2</u>

Imp. #4: 

gross	638.6
tare	638.6
final	<u>0.0</u>

Total 1.8

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter Nos: 

H-15
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 Filter Nos: 

H-16
------

  
 Filter Nos: 

I-8
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Lint Cleaner

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 3  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 4

Pryo# : T-3  
Nozzle# : 0.24  
Pitot# : 0.874

Imp. #1: 

gross	586.1
tare	586.3
final	<u>-0.2</u>

Imp. #2: 

gross	587.9
tare	587.5
final	<u>0.4</u>

Imp. #3: 

gross	444.4
tare	443.8
final	<u>0.6</u>

Imp. #4: 

gross	607.8
tare	606.7
final	<u>1.1</u>

Total 1.9

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

H-17
------

  
Filter Nos: 

H-18
------

  
Filter Nos: 

I-9
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OVERFLOW  
CYCLONE

### Run Set Up Sheet

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Overflow

Date : 12/9/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.281  
 Pitot# : 0.874

Imp. #1: 

gross	553.7
tare	552.9
final	<u>0.8</u>

Imp. #2: 

gross	559.5
tare	558.7
final	<u>0.8</u>

Imp. #3: 

gross	461.5
tare	461.3
final	<u>0.2</u>

Imp. #4: 

gross	577.6
tare	577.8
final	<u>-0.2</u>

Total 1.6

Solution blank 

DI
Acetone

Filter Nos: 

H-19
H-20
I-10

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Run Set Up Sheet

Client : County Line/Eckley  
Site : Hanford  
Unit : Overflow

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 2  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 11

Pryo# : T-3  
Nozzle# : 0.281  
Pitot# : 0.874

Imp. #1: 

gross	589.7
tare	588.0
final	<u>1.7</u>

Imp. #2: 

gross	567.4
tare	566.7
final	<u>0.7</u>

Imp. #3: 

gross	444.2
tare	443.3
final	<u>0.9</u>

Imp. #4: 

gross	638.8
tare	638.6
final	<u>0.2</u>

Total 3.5

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

H-21
------

  
Filter Nos: 

H-22
------

  
Filter Nos: 

I-11
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Overflow

Date : 12/9/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 4

Pryo# : T-3  
 Nozzle# : 0.281  
 Pitot# : 0.874

Imp. #1: 

gross	586.1
tare	582.9
final	<u>3.2</u>

Imp. #2: 

gross	592.0
tare	591.2
final	<u>0.8</u>

Imp. #3: 

gross	444.2
tare	443.3
final	<u>0.9</u>

Imp. #4: 

gross	607.2
tare	606.7
final	<u>0.5</u>

Total 5.4

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

H-23
------

  
 Filter Nos: 

H-24
------

  
 Filter Nos: 

I-12
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# 1 DRYING  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : #1 Drying

Date : 12/10/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.371  
 Pitot# : 0.874

Imp. #1: 

gross	603.3
tare	599.7
final	<u>3.6</u>

Imp. #2: 

gross	621.7
tare	619.8
final	<u>1.9</u>

Imp. #3: 

gross	467.1
tare	466.5
final	<u>0.6</u>

Imp. #4: 

gross	578.5
tare	577.6
final	<u>0.9</u>

Total 7.0

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

H-25
------

  
 Filter Nos: 

H-26
------

  
 Filter Nos: 

I-13
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #1 Drying

Date : 12/10/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 2  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 11

Pryo# : T-3  
Nozzle# : 0.325  
Pitot# : 0.874

Imp. #1: 

gross	601.4
tare	593.3
final	8.1

Imp. #2: 

gross	546.0
tare	544.9
final	1.1

Imp. #3: 

gross	468.2
tare	468.9
final	-0.7

Imp. #4: 

gross	638.8
tare	638.8
final	0.0

Total 8.5

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

H-27
------

  
Filter Nos: 

H-28
------

  
Filter Nos: 

I-14
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #1 Drying

Date : 12/10/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 3  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 4

Pryo# : T-3  
Nozzle# : 0.325  
Pitot# : 0.874

Imp. #1: 

gross	589.4
tare	577.8
final	<u>11.6</u>

Imp. #2: 

gross	577.6
tare	576.4
final	<u>1.2</u>

Imp. #3: 

gross	445.3
tare	445.1
final	<u>0.2</u>

Imp. #4: 

gross	607.2
tare	607.2
final	<u>0.0</u>

Total 13.0

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

H-29
------

  
Filter Nos: 

H-30
------

  
Filter Nos: 

I-15
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GIN STAND TRASH  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Gin Stand Trash

Date : 12/10/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.262  
 Pitot# : 0.874

Imp. #1: 

gross	550.3
tare	548.9
final	1.4

Imp. #2: 

gross	539.4
tare	539.5
final	-0.1

Imp. #3: 

gross	467.6
tare	467.5
final	0.1

Imp. #4: 

gross	578.6
tare	578.5
final	0.1

Total 1.5

Solution blank DI  
 Solution blank Acetone

Filter Nos: H-31  
 Filter Nos: H-32  
 Filter Nos: I-16

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Gin Stand Trash

Date : 12/10/91  
 Job # : 3067  
 Lab # : 291-204

Method#: PM10  
 Run #: 2  
 Hot box#: -

Probe#: 4  
 Stack box#: B  
 Cold box#: 9

Pryo#: T-3  
 Nozzle#: 0.262  
 Pitot#: 0.874

Imp. #1: 

gross	555.7
tare	554.1
final	<u>1.6</u>

Imp. #2: 

gross	547.2
tare	546.7
final	<u>0.5</u>

Imp. #3: 

gross	468.9
tare	469.4
final	<u>-0.5</u>

Imp. #4: 

gross	639.4
tare	638.8
final	<u>0.6</u>

Total 2.2

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-14
------

  
 Filter Nos: 

G-20
------

  
 Filter Nos: 

I-17
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Gin Stand Trash

Date : 12/10/91  
 Job #: 3067  
 Lab #: 291-204

Method#: PM10  
 Run#: 3  
 Hot box#: -

Probe#: 4  
 Stack box#: B  
 Cold box#: 4

Pryo#: T-3  
 Nozzle#: 0.262  
 Pitot#: 0.874

Imp. #1: 

gross	580.6
tare	580.3
final	0.3

Imp. #2: 

gross	589.3
tare	589.2
final	0.1

Imp. #3: 

gross	444.7
tare	444.6
final	0.1

Imp. #4: 

gross	607.5
tare	607.2
final	0.3

Total 0.8

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-22
------

  
 Filter Nos: 

G-27
------

  
 Filter Nos: 

I-18
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

BATTERY CONDENSER  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit: Battery Condenser

Date : 12/11/91  
Job #: 3067  
Lab #: 291-204

Method#: PM10  
Run#: 1  
Hot box#: -

Probe#: 4  
Stack box#: B  
Cold box#: 1

Pryo#: T-3  
Nozzle#: 0.23  
Pitot#: 0.874

Imp. #1: 

gross	582.3
tare	581.0
final	<u>1.3</u>

Imp. #2: 

gross	574.5
tare	574.6
final	<u>-0.1</u>

Imp. #3: 

gross	467.0
tare	467.0
final	<u>0.0</u>

Imp. #4: 

gross	579.1
tare	578.6
final	<u>0.5</u>

Total 1.7

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

G-28
------

  
Filter Nos: 

G-30
------

  
Filter Nos: 

I-19
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Battery Condenser

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 2  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 11

Pryo# : T-3  
 Nozzle# : 0.23  
 Pitot# : 0.874

Imp. #1: 

gross	568.5
tare	567.5
final	<u>1.0</u>

Imp. #2: 

gross	538.8
tare	538.1
final	<u>0.7</u>

Imp. #3: 

gross	468.7
tare	468.7
final	<u>0.0</u>

Imp. #4: 

gross	639.7
tare	639.4
final	<u>0.3</u>

Total 2.0

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-32
------

  
 Filter Nos: 

G-33
------

  
 Filter Nos: 

I-20
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Battery Condenser

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 4

Pryo# : T-3  
 Nozzle# : 0.23  
 Pitot# : 0.874

Imp. #1: 

gross	562.4
tare	560.6
final	<u>1.8</u>

Imp. #2: 

gross	573.5
tare	574.2
final	<u>-0.7</u>

Imp. #3: 

gross	445.0
tare	444.8
final	<u>0.2</u>

Imp. #4: 

gross	607.5
tare	607.4
final	<u>0.1</u>

Total 1.4

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-41
------

  
 Filter Nos: 

G-43
------

  
 Filter Nos: 

I-21
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

#2 DRYING  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #2 Drying

Date : 12/11/91  
Job # : 3067  
Lab # : 291-204

Method# : PM10  
Run# : 1  
Hot box# : -

Probe# : 4  
Stack box# : B  
Cold box# : 1

Pryo# : T-3  
Nozzle# : 0.28  
Pitot# : 0.874

Imp. #1: 

gross	556.9
tare	555.5
final	<u>1.4</u>

Imp. #2: 

gross	559.6
tare	559.8
final	<u>-0.2</u>

Imp. #3: 

gross	467.5
tare	467.1
final	<u>0.4</u>

Imp. #4: 

gross	579.0
tare	579.1
final	<u>-0.1</u>

Total 1.5

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter Nos: 

G-52
------

  
Filter Nos: 

G-71
------

  
Filter Nos: 

I-22
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : #2 Drying

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 2  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 11

Pryo# : T-3  
 Nozzle# : 0.313  
 Pitot# : 0.874

Imp. #1: 

gross	576.4
tare	575.6
final	<u>0.8</u>

Imp. #2: 

gross	541.8
tare	540.4
final	<u>1.4</u>

Imp. #3: 

gross	470.6
tare	470.7
final	<u>-0.1</u>

Imp. #4: 

gross	639.9
tare	639.7
final	<u>0.2</u>

Total 2.3

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-72
------

  
 Filter Nos: 

G-73
------

  
 Filter Nos: 

G-120
-------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : #2 Drying

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : PM10  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : B  
 Cold box# : 4

Pryo# : T-3  
 Nozzle# : 0.313  
 Pitot# : 0.874

Imp. #1: 

gross	607.5
tare	578.6
final	<u>28.9</u>

Imp. #2: 

gross	560.2
tare	584.6
final	<u>-24.4</u>

Imp. #3: 

gross	444.7
tare	444.7
final	<u>0.0</u>

Imp. #4: 

gross	608.1
tare	607.4
final	<u>0.7</u>

Total 5.2

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter Nos: 

G-76
------

  
 Filter Nos: 

G-84
------

  
 Filter Nos: 

G-126
-------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TOTAL  
PARTICULATE

MOTES  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit: Mote

Date : 12/8/91  
Job #: 3067  
Lab #: 291-204

Method#: M5 Probe#: 4  
Run#: 1 Stack box#: A  
Hot box#: - Cold box#: 10

Pryo#: T-3  
Nozzle#: 0.24  
Pitot#: 0.874

Imp. #1: 

gross	591.8
tare	591.8
final	<u>0.0</u>

Imp. #2: 

gross	478.4
tare	477.9
final	<u>0.5</u>

Imp. #3: 

gross	481.4
tare	481.3
final	<u>0.1</u>

Imp. #4: 

gross	655.9
tare	655.8
final	<u>0.1</u>

Total 0.7

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter No: 

B-8
-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Run Set Up Sheet

Client : County Line/Eckley  
Site : Hanford  
Unit: Mote

Date : 12/8/91  
Job # : 3067  
Lab # : 291-204

Method#: M5  
Run#: 2  
Hot box#: -

Probe#: 4  
Stack box#: A  
Cold box#: 9

Pryo#: T-3  
Nozzle#: 0.24  
Pitot#: 0.874

Imp. #1: 

gross	625.4
tare	619.3
final	<u>6.1</u>

Imp. #2: 

gross	617.3
tare	619.8
final	<u>-2.5</u>

Imp. #3: 

gross	459.4
tare	458.7
final	<u>0.7</u>

Imp. #4: 

gross	596.0
tare	595.4
final	<u>0.6</u>

Total 4.9

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter No: 

B-92
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit: Mote

Date : 12/8/91  
Job #: 3067  
Lab #: 291-204

Method#: M5  
Run#: 3  
Hot box#: -

Probe#: 4  
Stack box#: A  
Cold box#: 8

Pryo#: T-3  
Nozzle#: 0.24  
Pitot#: 0.874

Imp. #1: 

gross	618.3
tare	616.7
final	<u>1.6</u>

Imp. #2: 

gross	600.8
tare	600.6
final	<u>0.2</u>

Imp. #3: 

gross	493.9
tare	493.7
final	<u>0.2</u>

Imp. #4: 

gross	578.4
tare	578.1
final	<u>0.3</u>

Total 2.3

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter No: 

B-48
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SUCTION  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Suction

Date : 12/8/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	579.2
tare	577.3
final	<u>1.9</u>

Imp. #2: 

gross	461.3
tare	460.5
final	<u>0.8</u>

Imp. #3: 

gross	482.3
tare	481.7
final	<u>0.6</u>

Imp. #4: 

gross	656.4
tare	655.8
final	<u>0.6</u>

Total 3.9

Solution blank 

DI
----

  
 Solution blank 

Acetone
---------

Filter No: 

B-50
------

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit: Suction

Date : 12/8/91  
Job #: 3067  
Lab #: 291-204

Method#: M5  
Run #: 2  
Hot box#: -

Probe#: 4  
Stack box#: A  
Cold box#: 9

Pryo#: T-3  
Nozzle#: 0.24  
Pitot#: 0.874

Imp. #1: 

gross	582.8
tare	581.0
final	<u>1.8</u>

Imp. #2: 

gross	571.6
tare	571.5
final	<u>0.1</u>

Imp. #3: 

gross	460.0
tare	460.1
final	<u>-0.1</u>

Imp. #4: 

gross	596.2
tare	596.0
final	<u>0.2</u>

Total 2.0

Solution blank 

DI
----

  
Solution blank 

Acetone
---------

Filter No: 

B-54
------

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Suction

Date : 12/8/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 3  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 8

Pryo# : T-3  
Nozzle# : 0.24  
Pitot# : 0.874

Imp. #1: 

gross	577.7
tare	577.3
final	0.4

Imp. #2: 

gross	578.3
tare	578.2
final	0.1

Imp. #3: 

gross	494.3
tare	494.1
final	0.2

Imp. #4: 

gross	578.7
tare	578.1
final	0.6

Total 1.3

Solution blank DI  
Solution blank Acetone

Filter No: B-55

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LINT CLEANER  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Lint Cleaner

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 1  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 10

Pryo# : T-3  
Nozzle# : 0.24  
Pitot# : 0.874

Imp. #1: 

gross	569.6
tare	569.1
final	<u>0.5</u>

Imp. #2: 

gross	467.9
tare	467.8
final	<u>0.1</u>

Imp. #3: 

gross	482.4
tare	482.3
final	<u>0.1</u>

Imp. #4: 

gross	656.4
tare	656.2
final	<u>0.2</u>

Total 0.9

Solution blank 

DI
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Solution blank 

Acetone
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Filter No: 

B-57
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Lint Cleaner

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 2  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 9

Pryo# : T-3  
Nozzle# : 0.24  
Pitot# : 0.874

Imp. #1: 

gross	572.3
tare	570.9
final	<u>1.4</u>

Imp. #2: 

gross	545.5
tare	544.8
final	<u>0.7</u>

Imp. #3: 

gross	460.3
tare	460.1
final	<u>0.2</u>

Imp. #4: 

gross	596.4
tare	596.2
final	<u>0.2</u>

Total 2.5

Solution blank 

DI
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Solution blank 

Acetone
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Filter No: 

B-58
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Lint Cleaner

Date : 12/9/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 8

Pryo# : T-3  
 Nozzle# : 0.24  
 Pitot# : 0.874

Imp. #1: 

gross	574.3
tare	573.2
final	<u>1.1</u>

Imp. #2: 

gross	575.8
tare	575.8
final	<u>0.0</u>

Imp. #3: 

gross	494.9
tare	494.3
final	<u>0.6</u>

Imp. #4: 

gross	578.7
tare	578.4
final	<u>0.3</u>

Total 2.0

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-59
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Comments: \_\_\_\_\_  
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OVERFLOW  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : Verflow

Date : 12/9/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 1  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 10

Pryo# : T-3  
Nozzle# : 0.281  
Pitot# : 0.874

Imp. #1: 

gross	581.5
tare	580.5
final	<u>1.0</u>

Imp. #2: 

gross	455.3
tare	455.8
final	<u>-0.5</u>

Imp. #3: 

gross	481.5
tare	481.5
final	<u>0.0</u>

Imp. #4: 

gross	656.2
tare	655.5
final	<u>0.7</u>

Total 1.2

Solution blank 

DI
----

  
Solution blank 

Acetone
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Filter No: 

B-60
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit: Verflow

Date : 12/9/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 2  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 9

Pryo# : T-3  
 Nozzle# : 0.281  
 Pitot# : 0.874

Imp. #1: 

gross	579.9
tare	579.0
final	<u>0.9</u>

Imp. #2: 

gross	565.3
tare	563.5
final	<u>1.8</u>

Imp. #3: 

gross	459.5
tare	459.0
final	<u>0.5</u>

Imp. #4: 

gross	596.3
tare	596.4
final	<u>-0.1</u>

Total 3.1

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-61
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
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**Run Set Up Sheet**

Client: County Line/Eckley  
 Site: Hanford  
 Unit: Overflow

Date: 12/9/91  
 Job #: 3067  
 Lab #: 291-204

Method#: M5  
 Run#: 3  
 Hot box#: -

Probe#: 4  
 Stack box#: A  
 Cold box#: 8

Pryo#: T-3  
 Nozzle#: 0.281  
 Pitot#: 0.874

Imp. #1: 

gross	581.3
tare	579.7
final	<u>1.6</u>

Imp. #2: 

gross	579.0
tare	578.3
final	<u>0.7</u>

Imp. #3: 

gross	494.4
tare	493.1
final	<u>1.3</u>

Imp. #4: 

gross	579.0
tare	578.4
final	<u>0.6</u>

Total 4.2

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-62
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_

# 1 DRYING  
CYCLONE

**Run Set Up Sheet**

Client: County Line/Eckley  
 Site: Hanford  
 Unit: #1 Drying

Date: 12/10/91  
 Job #: 3067  
 Lab #: 291-204

Method#: M5  
 Run#: 1  
 Hot box#: -

Probe#: 4  
 Stack box#: A  
 Cold box#: 10

Pryo#: T-3  
 Nozzle#: 0.371  
 Pitot#: 0.874

Imp. #1: 

gross	576.9
tare	562.4
final	<u>14.5</u>

Imp. #2: 

gross	455.6
tare	453.6
final	<u>2.0</u>

Imp. #3: 

gross	482.1
tare	481.4
final	<u>0.7</u>

Imp. #4: 

gross	656.5
tare	655.6
final	<u>0.9</u>

Total 18.1

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-63
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
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**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #1 Drying

Date : 12/10/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 2  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 9

Pryo# : T-3  
Nozzle# : 0.325  
Pitot# : 0.874

Imp. #1: 

gross	616.4
tare	608.5
final	<u>7.9</u>

Imp. #2: 

gross	562.6
tare	561.6
final	<u>1.0</u>

Imp. #3: 

gross	455.1
tare	454.8
final	<u>0.3</u>

Imp. #4: 

gross	596.5
tare	596.4
final	<u>0.1</u>

Total 9.3

Solution blank DI  
Solution blank Acetone

Filter No: B-64

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #1 Drying

Date : 12/10/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 3  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 8

Pryo# : T-3  
Nozzle# : 0.325  
Pitot# : 0.874

Imp. #1: 

gross	604.1
tare	593.8
final	<u>10.3</u>

Imp. #2: 

gross	562.0
tare	559.8
final	<u>2.2</u>

Imp. #3: 

gross	495.6
tare	495.1
final	<u>0.5</u>

Imp. #4: 

gross	579.0
tare	579.0
final	<u>0.0</u>

Total 13.0

Solution blank 

DI
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Solution blank 

Acetone
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Filter No: 

B-65
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

GIN STAND TRASH  
CYCLONE

181

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Gin Stand Trash

Date : 12/10/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 10

Pryo# : T-3  
 Nozzle# : 0.262  
 Pitot# : 0.874

Imp. #1: 

gross	544.3
tare	542.7
final	<u>1.6</u>

Imp. #2: 

gross	452.8
tare	452.2
final	<u>0.6</u>

Imp. #3: 

gross	482.9
tare	482.4
final	<u>0.5</u>

Imp. #4: 

gross	656.3
tare	656.5
final	<u>-0.2</u>

Total 2.5

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-66
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Comments: \_\_\_\_\_  
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**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit: Gin Stand Trash

Date : 12/10/91  
Job #: 3067  
Lab #: 291-204

Method#: M5      Probe#: 4  
Run#: 2      Stack box#: A  
Hot box#: -      Cold box#: 9

Pryo#: T-3  
Nozzle#: 0.262  
Pitot#: 0.874

Imp. #1: 

gross	544.2
tare	541.8
final	<u>2.4</u>

Imp. #2: 

gross	544.4
tare	543.8
final	<u>0.6</u>

Imp. #3: 

gross	455.0
tare	454.8
final	<u>0.2</u>

Imp. #4: 

gross	596.8
tare	596.5
final	<u>0.3</u>

Total 3.5

Solution blank 

DI
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Solution blank 

Acetone
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Filter No: 

B-67
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Gin Stand Trash

Date : 12/10/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 8

Pryo# : T-3  
 Nozzle# : 0.262  
 Pitot# : 0.874

Imp. #1: 

gross	545.3
tare	542.8
final	<u>2.5</u>

Imp. #2: 

gross	556.6
tare	555.2
final	<u>1.4</u>

Imp. #3: 

gross	494.7
tare	494.5
final	<u>0.2</u>

Imp. #4: 

gross	579.4
tare	579.0
final	<u>0.4</u>

Total 4.5

Solution blank 

DI
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 Solution blank 

Acetone
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Filter No: 

B-68
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Comments: \_\_\_\_\_  
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BATTERY CONDENSER  
CYCLONE

185

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : Battery Condenser

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 1  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 10

Pryo# : T-3  
 Nozzle# : 0.23  
 Pitot# : 0.874

Imp. #1: 

gross	576.9
tare	575.9
final	<u>1.0</u>

Imp. #2: 

gross	455.3
tare	454.7
final	<u>0.6</u>

Imp. #3: 

gross	482.2
tare	481.9
final	<u>0.3</u>

Imp. #4: 

gross	656.8
tare	656.3
final	<u>0.5</u>

Total 2.4

Solution blank 

DI
----

  
 Solution blank 

Acetone
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Filter No: 

B-69
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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_

Run Set Up Sheet

Client: County Line/Eckley  
Site: Hanford  
Unit: Battery Condenser

Date: 12/11/91  
Job #: 3067  
Lab #: 291-204

Method#: M5  
Run#: 2  
Hot box#: -

Probe#: 4  
Stack box#: A  
Cold box#: 9

Pryo#: T-3  
Nozzle#: 0.23  
Pitot#: 0.874

Imp. #1: 

gross	574.5
tare	573.4
final	1.1

Imp. #2: 

gross	561.4
tare	561.1
final	0.3

Imp. #3: 

gross	455.3
tare	454.8
final	0.5

Imp. #4: 

gross	596.9
tare	596.8
final	0.1

Total 2.0

Solution blank: DI  
Solution blank: Acetone

Filter No: B-70

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Run Set Up Sheet**

Client : <u>County Line/Eckley</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Battery Condenser</u>	Lab # : <u>291-204</u>

Method# : <u>M5</u>	Probe# : <u>4</u>	Pryo# : <u>T-3</u>
Run# : <u>3</u>	Stack box# : <u>A</u>	Nozzle# : <u>0.23</u>
Hot box# : <u>-</u>	Cold box# : <u>8</u>	Pitot# : <u>0.874</u>

<table style="width:100%;"> <tr> <td style="width:15%;">Imp. #1:</td> <td style="width:15%; border: 1px solid black;">gross</td> <td style="width:15%; border: 1px solid black;">560.2</td> <td style="width:15%;"></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">tare</td> <td style="border: 1px solid black;">559.7</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">final</td> <td style="border: 1px solid black;">0.5</td> <td></td> </tr> <tr><td colspan="4"> </td></tr> <tr> <td>Imp. #2:</td> <td style="border: 1px solid black;">gross</td> <td style="border: 1px solid black;">581.8</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">tare</td> <td style="border: 1px solid black;">581.0</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">final</td> <td style="border: 1px solid black;">0.8</td> <td></td> </tr> <tr><td colspan="4"> </td></tr> <tr> <td>Imp. #3:</td> <td style="border: 1px solid black;">gross</td> <td style="border: 1px solid black;">494.6</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">tare</td> <td style="border: 1px solid black;">494.5</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">final</td> <td style="border: 1px solid black;">0.1</td> <td></td> </tr> <tr><td colspan="4"> </td></tr> <tr> <td>Imp. #4:</td> <td style="border: 1px solid black;">gross</td> <td style="border: 1px solid black;">579.4</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">tare</td> <td style="border: 1px solid black;">579.2</td> <td></td> </tr> <tr> <td></td> <td style="border: 1px solid black;">final</td> <td style="border: 1px solid black;">0.2</td> <td></td> </tr> <tr><td colspan="4"> </td></tr> <tr> <td style="text-align: right;">Total</td> <td></td> <td style="border: 1px solid black;">1.6</td> <td></td> </tr> </table>	Imp. #1:	gross	560.2			tare	559.7			final	0.5						Imp. #2:	gross	581.8			tare	581.0			final	0.8						Imp. #3:	gross	494.6			tare	494.5			final	0.1						Imp. #4:	gross	579.4			tare	579.2			final	0.2						Total		1.6		<table style="width:100%;"> <tr> <td style="width:70%;">Solution blank</td> <td style="border: 1px solid black; width:30%;">DI</td> </tr> <tr> <td>Solution blank</td> <td style="border: 1px solid black;">Acetone</td> </tr> <tr><td colspan="2"> </td></tr> <tr> <td>Filter No:</td> <td style="border: 1px solid black;">B-71</td> </tr> </table>	Solution blank	DI	Solution blank	Acetone			Filter No:	B-71
Imp. #1:	gross	560.2																																																																											
	tare	559.7																																																																											
	final	0.5																																																																											
Imp. #2:	gross	581.8																																																																											
	tare	581.0																																																																											
	final	0.8																																																																											
Imp. #3:	gross	494.6																																																																											
	tare	494.5																																																																											
	final	0.1																																																																											
Imp. #4:	gross	579.4																																																																											
	tare	579.2																																																																											
	final	0.2																																																																											
Total		1.6																																																																											
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Comments: \_\_\_\_\_

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#2 DRYING  
CYCLONE

**Run Set Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #2 Drying

Date : 12/11/91  
Job # : 3067  
Lab # : 291-204

Method# : M5                      Probe# : 4  
Run# : 1                              Stack box# : A  
Hot box# : -                            Cold box# : 10

Pryo# : T-3  
Nozzle# : 0.281  
Pitot# : 0.874

Imp. #1: 

gross	560.4
tare	557.3
final	<u>3.1</u>

Imp. #2: 

gross	466.0
tare	465.5
final	<u>0.5</u>

Imp. #3: 

gross	482.4
tare	482.3
final	<u>0.1</u>

Imp. #4: 

gross	656.6
tare	656.8
final	<u>-0.2</u>

Total                      3.5

Solution blank 

DI
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Solution blank 

Acetone
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Filter No: 

B-72
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
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**Run Set-Up Sheet**

Client : County Line/Eckley  
Site : Hanford  
Unit : #2 Drying

Date : 12/11/91  
Job # : 3067  
Lab # : 291-204

Method# : M5  
Run# : 2  
Hot box# : -

Probe# : 4  
Stack box# : A  
Cold box# : 9

Pryo# : T-3  
Nozzle# : 0.313  
Pitot# : 0.874

Imp. #1: 

gross	564.4
tare	558.5
final	<u>5.9</u>

Imp. #2: 

gross	554.0
tare	552.7
final	<u>1.3</u>

Imp. #3: 

gross	455.1
tare	454.9
final	<u>0.2</u>

Imp. #4: 

gross	597.1
tare	596.9
final	<u>0.2</u>

Total 7.6

Solution blank 

DI
Acetone

Filter No: 

B-73
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Comments: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

**Run Set Up Sheet**

Client : County Line/Eckley  
 Site : Hanford  
 Unit : #2 Drying

Date : 12/11/91  
 Job # : 3067  
 Lab # : 291-204

Method# : M5  
 Run# : 3  
 Hot box# : -

Probe# : 4  
 Stack box# : A  
 Cold box# : 1

Pryo# : T-3  
 Nozzle# : 0.313  
 Pitot# : 0.874

Imp. #1: 

gross	564.6
tare	559.2
final	<u>5.4</u>

Imp. #2: 

gross	569.3
tare	568.0
final	<u>1.3</u>

Imp. #3: 

gross	495.0
tare	494.4
final	<u>0.6</u>

Imp. #4: 

gross	579.7
tare	579.2
final	<u>0.5</u>

Total 7.8

Solution blank 

DI
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 Solution blank 

Acetone
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Filter No: 

B-75
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Comments: \_\_\_\_\_  
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PM10  
PARTICULATE

197

MOTES  
CYCLONE

194

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Mote</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0898</u> gms.	Tare: <u>0.0871</u> gms.	Net: <u>0.0027</u> gms.
Filter	Gross: <u>0.0902</u> gms.	Tare: <u>0.0875</u> gms.	Net: <u>0.0027</u> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>66.1747</u> gms.	Tare: <u>66.1307</u> gms.	Net: <u>0.0440</u> gms.

**+ 10μ Total Weight = 0.0478 gms.**

Filter	Gross: <u>0.1525</u> gms.	Tare: <u>0.1118</u> gms.	Net: <u>0.0407</u> gms.
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- 10 μ Rinse

DI Water:	<u>475</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0038</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>525</u> ml	Aliquot: <u>525</u> ml	
Gross:	<u>65.8748</u> gms.	Tare: <u>65.8514</u> gms.	Net: <u>0.0195</u> gms.

**- 10μ Total Weight = 0.0563 gms.**

**Total Weight = 0.1041 gms.**

+ 10 μ	<u>45.92</u> %
- 10 μ	<u>54.08</u> %

AS

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Mote</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0889</u> gms.	Tare: <u>0.0872</u> gms.	Net: <u>0.0017</u> gms.
Filter	Gross: <u>0.0909</u> gms.	Tare: <u>0.0877</u> gms.	Net: <u>0.0032</u> gms.
+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>72.7488</u> gms.	Tare: <u>72.7050</u> gms.	Net: <u>0.0438</u> gms.
	<b>+ 10μ Total Weight</b>	=	<b><u>0.0471</u> gms.</b>
Filter	Gross: <u>0.1572</u> gms.	Tare: <u>0.1115</u> gms.	Net: <u>0.0457</u> gms.
- 10 μ Rinse			
DI Water:	<u>475</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0038</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>525</u> ml	Aliquot: <u>525</u> ml	
Gross:	<u>66.1374</u> gms.	Tare: <u>66.1260</u> gms.	Net: <u>0.0075</u> gms.
	<b>- 10μ Total Weight</b>	=	<b><u>0.0493</u> gms.</b>
	<b>Total Weight</b>	=	<b><u>0.0964</u> gms.</b>
	<b>+ 10 μ</b>		<b><u>48.86</u> %</b>
	<b>- 10 μ</b>		<b><u>51.14</u> %</b>

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Mote</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0903</u> gms.	Tare: <u>0.0876</u> gms.	Net: <u>0.0027</u> gms.
Filter	Gross: <u>0.0900</u> gms.	Tare: <u>0.0872</u> gms.	Net: <u>0.0028</u> gms.

+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>66.3024</u> gms.	Tare: <u>66.2554</u> gms.	Net: <u>0.0470</u> gms.
<b>+ 10μ Total Weight</b>			<b>= <u>0.0509</u> gms.</b>

Filter	Gross: <u>0.1523</u> gms.	Tare: <u>0.1104</u> gms.	Net: <u>0.0419</u> gms.
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- 10 μ Rinse			
DI Water:	<u>475</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0038</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>525</u> ml	Aliquot: <u>525</u> ml	
Gross:	<u>65.7684</u> gms.	Tare: <u>65.7468</u> gms.	Net: <u>0.0177</u> gms.
<b>- 10μ Total Weight</b>			<b>= <u>0.0557</u> gms.</b>

<b>Total Weight</b>			<b>= <u>0.1066</u> gms.</b>
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+ 10 μ	<u>47.75</u> %
- 10 μ	<u>52.25</u> %

SUCTION  
CYCLONE

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Suction</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0923</u> gms.	Tare: <u>0.0895</u> gms.	Net: <u>0.0028</u> gms.
Filter	Gross: <u>0.0899</u> gms.	Tare: <u>0.0873</u> gms.	Net: <u>0.0026</u> gms.
+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>150</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0012</u> gms.
Gross:	<u>65.9994</u> gms.	Tare: <u>65.9496</u> gms.	Net: <u>0.0498</u> gms.
	<b>+ 10μ Total Weight</b>	=	<u>0.0538</u> gms.
Filter	Gross: <u>0.1629</u> gms.	Tare: <u>0.1105</u> gms.	Net: <u>0.0524</u> gms.
- 10 μ Rinse			
DI Water:	<u>460</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0037</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>510</u> ml	Aliquot: <u>510</u> ml	
Gross:	<u>66.7784</u> gms.	Tare: <u>66.7616</u> gms.	Net: <u>0.0130</u> gms.
	<b>- 10μ Total Weight</b>	=	<u>0.0616</u> gms.
	<b>Total Weight</b>	=	<u>0.1154</u> gms.
	<b>+ 10 μ</b>		<u>46.60</u> %
	<b>- 10 μ</b>		<u>53.40</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Suction</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0939</u> gms.	Tare: <u>0.0899</u> gms.	Net: <u>0.0040</u> gms.
Filter	Gross: <u>0.0922</u> gms.	Tare: <u>0.0885</u> gms.	Net: <u>0.0037</u> gms.

+10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>67.6269</u> gms.	Tare: <u>67.5484</u> gms.	Net: <u>0.0785</u> gms.

**+10μ Total Weight = 0.0846 gms.**

Filter	Gross: <u>0.1803</u> gms.	Tare: <u>0.1113</u> gms.	Net: <u>0.0690</u> gms.
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-10 μ Rinse

DI Water:	<u>460</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0037</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>500</u> ml	Aliquot: <u>500</u> ml	
Gross:	<u>65.8126</u> gms.	Tare: <u>65.7893</u> gms.	Net: <u>0.0195</u> gms.

**-10μ Total Weight = 0.0847 gms.**

**Total Weight = 0.1693 gms.**

+ 10 μ	<u>49.96</u> %
- 10 μ	<u>50.04</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/8/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Suction</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0927</u> gms.	Tare: <u>0.0891</u> gms.	Net: <u>0.0036</u> gms.
Filter	Gross: <u>0.0927</u> gms.	Tare: <u>0.0884</u> gms.	Net: <u>0.0043</u> gms.
+ 10 µ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>66.0360</u> gms.	Tare: <u>65.9416</u> gms.	Net: <u>0.0944</u> gms.
	<b>+ 10µ Total Weight</b>	=	<u>0.1007</u> gms.
Filter	Gross: <u>0.2008</u> gms.	Tare: <u>0.1106</u> gms.	Net: <u>0.0902</u> gms.
- 10 µ Rinse			
DI Water:	<u>440</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0035</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>490</u> ml	Aliquot: <u>490</u> ml	
Gross:	<u>66.4194</u> gms.	Tare: <u>66.4070</u> gms.	Net: <u>0.0088</u> gms.
	<b>- 10µ Total Weight</b>	=	<u>0.0954</u> gms.
	<b>Total Weight</b>	=	<u>0.1961</u> gms.
	<b>+ 10 µ</b>		<u>51.36</u> %
	<b>- 10 µ</b>		<u>48.64</u> %

LINT CLEANER  
CYCLONE

202

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Lint Cleaner</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0895</u> gms.	Tare: <u>0.0882</u> gms.	Net: <b><u>0.0013</u></b> gms.
Filter	Gross: <u>0.0896</u> gms.	Tare: <u>0.0882</u> gms.	Net: <b><u>0.0014</u></b> gms.

+ 10 $\mu$ Rinse -			
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
DI Water:	<u>100</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0008</u></b> gms.
Gross:	<u>66.3476</u> gms.	Tare: <u>66.3250</u> gms.	Net: <b><u>0.0226</u></b> gms.

**+ 10 $\mu$  Total Weight = 0.0244 gms.**

Filter	Gross: <u>0.1333</u> gms.	Tare: <u>0.1127</u> gms.	Net: <b><u>0.0206</u></b> gms.
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- 10 $\mu$ Rinse			
DI Water:	<u>400</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0032</u></b> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
Total:	<u>450</u> ml	Aliquot: <u>450</u> ml	
Gross:	<u>66.3650</u> gms.	Tare: <u>66.3534</u> gms.	Net: <b><u>0.0083</u></b> gms.

**- 10 $\mu$  Total Weight = 0.0256 gms.**

**Total Weight = 0.0500 gms.**

+ 10 $\mu$	<u>48.80</u> %
- 10 $\mu$	<u>51.20</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Lint Cleaner</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0898</u> gms.	Tare: <u>0.0879</u> gms.	Net: <u>0.0019</u> gms.
Filter	Gross: <u>0.0892</u> gms.	Tare: <u>0.0871</u> gms.	Net: <u>0.0021</u> gms.

+ 10 $\mu$ Rinse -			
Acetone: <u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.	
DI Water: <u>50</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0004</u> gms.	
Gross: <u>66.6023</u> gms.	Tare: <u>66.5746</u> gms.	Net: <u>0.0277</u> gms.	

**+ 10 $\mu$  Total Weight = 0.0312 gms.**

Filter	Gross: <u>0.1422</u> gms.	Tare: <u>0.1112</u> gms.	Net: <u>0.0310</u> gms.
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- 10 $\mu$ Rinse			
DI Water: <u>300</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0024</u> gms.	
Acetone: <u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.	
Total: <u>350</u> ml	Aliquot: <u>350</u> ml		
Gross: <u>65.5268</u> gms.	Tare: <u>65.5114</u> gms.	Net: <u>0.0129</u> gms.	

**- 10 $\mu$  Total Weight = 0.0414 gms.**

**Total Weight = 0.0726 gms.**

+ 10 $\mu$	<u>42.98</u> %
- 10 $\mu$	<u>57.02</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Lint Cleaner</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0913</u> gms.	Tare: <u>0.0899</u> gms.	Net: <u>0.0014</u> gms.
Filter	Gross: <u>0.0909</u> gms.	Tare: <u>0.0898</u> gms.	Net: <u>0.0011</u> gms.

+ 10 μ Rinse -

Acetone:	<u>25</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
DI Water:	<u>50</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0004</u> gms.
Gross:	<u>67.2598</u> gms.	Tare: <u>67.2418</u> gms.	Net: <u>0.0180</u> gms.

**+ 10μ Total Weight = 0.0201 gms.**

Filter	Gross: <u>0.1302</u> gms.	Tare: <u>0.1122</u> gms.	Net: <u>0.0180</u> gms.
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- 10 μ Rinse

DI Water:	<u>350</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0028</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>400</u> ml	Aliquot: <u>400</u> ml	
Gross:	<u>67.0830</u> gms.	Tare: <u>67.0728</u> gms.	Net: <u>0.0073</u> gms.

**- 10μ Total Weight = 0.0224 gms.**

**Total Weight = 0.0425 gms.**

+ 10 μ	<u>47.23</u> %
- 10 μ	<u>52.77</u> %

OVERFLOW  
CYCLONE

206

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Overflow</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0930</u> gms.	Tare: <u>0.0913</u> gms.	Net: <u>0.0017</u> gms.
Filter	Gross: <u>0.0921</u> gms.	Tare: <u>0.0901</u> gms.	Net: <u>0.0020</u> gms.

+ 10 μ Rinse -

Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
DI Water:	<u>65</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0005</u> gms.
Gross:	<u>67.4870</u> gms.	Tare: <u>67.4649</u> gms.	Net: <u>0.0221</u> gms.

**+ 10μ Total Weight = 0.0252 gms.**

Filter	Gross: <u>0.1561</u> gms.	Tare: <u>0.1126</u> gms.	Net: <u>0.0435</u> gms.
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- 10 μ Rinse

DI Water:	<u>270</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0022</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>320</u> ml	Aliquot: <u>320</u> ml	
Gross:	<u>66.5360</u> gms.	Tare: <u>66.5298</u> gms.	Net: <u>0.0039</u> gms.

**- 10μ Total Weight = 0.0452 gms.**

**Total Weight = 0.0704 gms.**

+ 10 μ	<u>35.79</u> %
- 10 μ	<u>64.21</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Overflow</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0926</u> gms.	Tare: <u>0.0899</u> gms.	Net: <u>0.0027</u> gms.
Filter	Gross: <u>0.0928</u> gms.	Tare: <u>0.0898</u> gms.	Net: <u>0.0030</u> gms.

+ 10 μ Rinse -			
Acetone:	<u>40</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
DI Water:	<u>50</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0004</u> gms.
Gross:	<u>66.0666</u> gms.	Tare: <u>66.0419</u> gms.	Net: <u>0.0247</u> gms.

**+ 10μ Total Weight = 0.0299 gms.**

Filter	Gross: <u>0.1674</u> gms.	Tare: <u>0.1117</u> gms.	Net: <u>0.0557</u> gms.
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- 10 μ Rinse			
DI Water:	<u>330</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0026</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>380</u> ml	Aliquot: <u>380</u> ml	
Gross:	<u>65.6080</u> gms.	Tare: <u>65.5912</u> gms.	Net: <u>0.0141</u> gms.

**- 10μ Total Weight = 0.0670 gms.**

**Total Weight = 0.0969 gms.**

+ 10 μ	<u>30.86</u> %
- 10 μ	<u>69.14</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/9/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Overflow</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0914</u> gms.	Tare: <u>0.0899</u> gms.	Net: <u>0.0015</u> gms.
Filter	Gross: <u>0.0911</u> gms.	Tare: <u>0.0893</u> gms.	Net: <u>0.0018</u> gms.

+ 10 μ Rinse -

Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
DI Water:	<u>135</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0011</u> gms.
Gross:	<u>66.0031</u> gms.	Tare: <u>65.9748</u> gms.	Net: <u>0.0283</u> gms.

**+ 10μ Total Weight = 0.0304 gms.**

Filter	Gross: <u>0.1434</u> gms.	Tare: <u>0.1115</u> gms.	Net: <u>0.0319</u> gms.
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- 10 μ Rinse

DI Water:	<u>460</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0037</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>510</u> ml	Aliquot: <u>510</u> ml	
Gross:	<u>65.9213</u> gms.	Tare: <u>65.9144</u> gms.	Net: <u>0.0031</u> gms.

**- 10μ Total Weight = 0.0312 gms.**

**Total Weight = 0.0617 gms.**

+ 10 μ	<u>49.34</u> %
- 10 μ	<u>50.66</u> %

# 1 DRYING  
CYCLONE

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#1 Drying</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.1027</u> gms.	Tare: <u>0.0893</u> gms.	Net: <b><u>0.0134</u></b> gms.
Filter	Gross: <u>0.0998</u> gms.	Tare: <u>0.0890</u> gms.	Net: <b><u>0.0108</u></b> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0002</u></b> gms.
DI Water:	<u>170</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0014</u></b> gms.
Gross:	<u>66.3163</u> gms.	Tare: <u>66.1300</u> gms.	Net: <b><u>0.1863</u></b> gms.

**+ 10μ Total Weight = 0.2089 gms.**

Filter	Gross: <u>0.2065</u> gms.	Tare: <u>0.1111</u> gms.	Net: <b><u>0.0954</u></b> gms.
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- 10 μ Rinse

DI Water:	<u>490</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0039</u></b> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
Total:	<u>540</u> ml	Aliquot: <u>540</u> ml	
Gross:	<u>65.8688</u> gms.	Tare: <u>65.8506</u> gms.	Net: <b><u>0.0142</u></b> gms.

**- 10μ Total Weight = 0.1056 gms.**

**Total Weight = 0.3145 gms.**

+ 10 μ	<u>66.44</u> %
- 10 μ	<u>33.56</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#1 Drying</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.1025</u> gms.	Tare: <u>0.0902</u> gms.	Net: <u>0.0123</u> gms.
Filter	Gross: <u>0.0987</u> gms.	Tare: <u>0.0902</u> gms.	Net: <u>0.0085</u> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>175</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0014</u> gms.
Gross:	<u>68.0954</u> gms.	Tare: <u>67.9756</u> gms.	Net: <u>0.1198</u> gms.

**+ 10μ Total Weight = 0.1390 gms.**

Filter	Gross: <u>0.2639</u> gms.	Tare: <u>0.1115</u> gms.	Net: <u>0.1524</u> gms.
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- 10 μ Rinse

DI Water:	<u>450</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0036</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>500</u> ml	Aliquot: <u>500</u> ml	
Gross:	<u>72.7196</u> gms.	Tare: <u>72.7046</u> gms.	Net: <u>0.0113</u> gms.

**- 10μ Total Weight = 0.1600 gms.**

**Total Weight = 0.2990 gms.**

+ 10 μ	<u>46.49</u> %
- 10 μ	<u>53.51</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#1 Drying</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.1023</u> gms.	Tare: <u>0.0892</u> gms.	Net: <u>0.0131</u> gms.
Filter	Gross: <u>0.1033</u> gms.	Tare: <u>0.0892</u> gms.	Net: <u>0.0141</u> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>115</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0009</u> gms.
Gross:	<u>67.5514</u> gms.	Tare: <u>67.3808</u> gms.	Net: <u>0.1706</u> gms.

**+ 10μ Total Weight = 0.1967 gms.**

Filter	Gross: <u>0.2503</u> gms.	Tare: <u>0.1113</u> gms.	Net: <u>0.1390</u> gms.
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- 10 μ Rinse

DI Water:	<u>465</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0037</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>515</u> ml	Aliquot: <u>515</u> ml	
Gross:	<u>66.1406</u> gms.	Tare: <u>66.1246</u> gms.	Net: <u>0.0122</u> gms.

**- 10μ Total Weight = 0.1474 gms.**

**Total Weight = 0.3440 gms.**

+ 10 μ	<u>57.17</u> %
- 10 μ	<u>42.83</u> %

GIN STAND TRASH  
CYCLONE

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Gin Stand Trash</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.1021</u> gms.	Tare: <u>0.0927</u> gms.	Net: <b><u>0.0094</u></b> gms.
Filter	Gross: <u>0.0938</u> gms.	Tare: <u>0.0900</u> gms.	Net: <b><u>0.0038</u></b> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>140</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0011</u> gms.
Gross:	<u>67.8062</u> gms.	Tare: <u>67.7218</u> gms.	Net: <b><u>0.0844</u></b> gms.

**+ 10μ Total Weight = 0.0963 gms.**

Filter	Gross: <u>0.1675</u> gms.	Tare: <u>0.1124</u> gms.	Net: <b><u>0.0551</u></b> gms.
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- 10 μ Rinse

DI Water:	<u>425</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0034</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>475</u> ml	Aliquot: <u>475</u> ml	
Gross:	<u>67.0264</u> gms.	Tare: <u>67.0168</u> gms.	Net: <b><u>0.0061</u></b> gms.

**- 10μ Total Weight = 0.0577 gms.**

**Total Weight = 0.1540 gms.**

+ 10 μ	<u>62.53</u> %
- 10 μ	<u>37.47</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Gin Stand Trash</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0935</u> gms.	Tare: <u>0.0893</u> gms.	Net: <u>0.0042</u> gms.
Filter	Gross: <u>0.0933</u> gms.	Tare: <u>0.0890</u> gms.	Net: <u>0.0043</u> gms.
+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>160</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0013</u> gms.
Gross:	<u>72.7144</u> gms.	Tare: <u>72.6159</u> gms.	Net: <u>0.0985</u> gms.
<b>+ 10μ Total Weight</b>			<b>= <u>0.1055</u> gms.</b>
Filter	Gross: <u>0.1897</u> gms.	Tare: <u>0.1112</u> gms.	Net: <u>0.0785</u> gms.
- 10 μ Rinse			
DI Water:	<u>425</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0034</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>475</u> ml	Aliquot: <u>475</u> ml	
Gross:	<u>66.6249</u> gms.	Tare: <u>66.6141</u> gms.	Net: <u>0.0073</u> gms.
<b>- 10μ Total Weight</b>			<b>= <u>0.0823</u> gms.</b>
<b>Total Weight</b>			<b>= <u>0.1878</u> gms.</b>
<b>+ 10 μ</b>			<b><u>56.18</u> %</b>
<b>- 10 μ</b>			<b><u>43.82</u> %</b>

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/10/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Gin Stand Trash</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone	Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0002</u> gms.
DI Water	Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Volume: <u>100</u> ml	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0941</u> gms.	Tare: <u>0.0905</u> gms.	Net: <b><u>0.0036</u></b> gms.
Filter	Gross: <u>0.0944</u> gms.	Tare: <u>0.0896</u> gms.	Net: <b><u>0.0048</u></b> gms.
+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0002</u></b> gms.
DI Water:	<u>150</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0012</u></b> gms.
Gross:	<u>66.0327</u> gms.	Tare: <u>65.9478</u> gms.	Net: <b><u>0.0849</u></b> gms.
<b>+ 10μ Total Weight</b>			= <b><u>0.0919</u></b> gms.
Filter	Gross: <u>0.1702</u> gms.	Tare: <u>0.1113</u> gms.	Net: <b><u>0.0589</u></b> gms.
- 10 μ Rinse			
DI Water:	<u>450</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0036</u></b> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
Total:	<u>500</u> ml	Aliquot: <u>500</u> ml	
Gross:	<u>66.6486</u> gms.	Tare: <u>66.6396</u> gms.	Net: <b><u>0.0053</u></b> gms.
<b>- 10μ Total Weight</b>			= <b><u>0.0605</u></b> gms.
<b>Total Weight</b>			= <b><u>0.1524</u></b> gms.
<b>+ 10 μ</b>			<b><u>60.30</u></b> %
<b>- 10 μ</b>			<b><u>39.70</u></b> %

BATTERY CONDENSER  
CYCLONE

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Battery Condenser</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0906</u> gms.	Tare: <u>0.0899</u> gms.	Net: <u>0.0007</u> gms.
Filter	Gross: <u>0.0908</u> gms.	Tare: <u>0.0897</u> gms.	Net: <u>0.0011</u> gms.

+ 10 μ Rinse -

Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
DI Water:	<u>95</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0008</u> gms.
Gross:	<u>66.0002</u> gms.	Tare: <u>65.9775</u> gms.	Net: <u>0.0227</u> gms.

**+ 10μ Total Weight = 0.0236 gms.**

Filter	Gross: <u>0.1165</u> gms.	Tare: <u>0.1127</u> gms.	Net: <u>0.0038</u> gms.
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- 10 μ Rinse

DI Water:	<u>475</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0038</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>525</u> ml	Aliquot: <u>525</u> ml	
Gross:	<u>65.9678</u> gms.	Tare: <u>65.9624</u> gms.	Net: <u>0.0015</u> gms.

**- 10μ Total Weight = 0.0014 gms.**

**Total Weight = 0.0250 gms.**

+ 10 μ	<u>94.41</u> %
- 10 μ	<u>5.59</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>Battery Condenser</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0906</u> gms.	Tare: <u>0.0898</u> gms.	Net: <b><u>0.0008</u></b> gms.
Filter	Gross: <u>0.0911</u> gms.	Tare: <u>0.0909</u> gms.	Net: <b><u>0.0002</u></b> gms.

+ 10 μ Rinse -

Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
DI Water:	<u>125</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0010</u></b> gms.
Gross:	<u>66.6508</u> gms.	Tare: <u>66.6384</u> gms.	Net: <b><u>0.0124</u></b> gms.

**+ 10μ Total Weight = 0.0123 gms.**

Filter	Gross: <u>0.1149</u> gms.	Tare: <u>0.1128</u> gms.	Net: <b><u>0.0021</u></b> gms.
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- 10 μ Rinse

DI Water:	<u>450</u> ml * <u>8E-06</u> gms./ml	=	Net: <b><u>-0.0036</u></b> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <b><u>-0.0001</u></b> gms.
Total:	<u>500</u> ml	Aliquot: <u>525</u> ml	
Gross:	<u>65.6896</u> gms.	Tare: <u>65.6808</u> gms.	Net: <b><u>0.0047</u></b> gms.

**- 10μ Total Weight = 0.0031 gms.**

**Total Weight = 0.0154 gms.**

+ 10 μ	<u>79.97</u> %
- 10 μ	<u>20.03</u> %



#2 DRYING  
CYCLONE

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#2 Drying</u>	Lab # : <u>291-204</u>
Run : <u>1</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0901</u> gms.	Tare: <u>0.0888</u> gms.	Net: <u>0.0013</u> gms.
Filter	Gross: <u>0.0916</u> gms.	Tare: <u>0.0973</u> gms.	Net: <u>-0.0057</u> gms.
+ 10 μ Rinse -			
Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>100</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0008</u> gms.
Gross:	<u>66.5969</u> gms.	Tare: <u>66.5735</u> gms.	Net: <u>0.0234</u> gms.
	<b>+ 10μ Total Weight</b>	=	<b><u>0.0180</u> gms.</b>
Filter	Gross: <u>0.1345</u> gms.	Tare: <u>0.1125</u> gms.	Net: <u>0.0220</u> gms.
- 10 μ Rinse			
DI Water:	<u>430</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0034</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>480</u> ml	Aliquot: <u>480</u> ml	
Gross:	<u>65.5196</u> gms.	Tare: <u>65.5109</u> gms.	Net: <u>0.0052</u> gms.
	<b>- 10μ Total Weight</b>	=	<b><u>0.0236</u> gms.</b>
	<b>Total Weight</b>	=	<b><u>0.0416</u> gms.</b>
	<b>+ 10 μ</b>		<b><u>43.25</u> %</b>
	<b>- 10 μ</b>		<b><u>56.75</u> %</b>

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#2 Drying</u>	Lab # : <u>291-204</u>
Run : <u>2</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0928</u> gms.	Tare: <u>0.0910</u> gms.	Net: <b><u>0.0018</u></b> gms.
Filter	Gross: <u>0.0927</u> gms.	Tare: <u>0.0915</u> gms.	Net: <b><u>0.0012</u></b> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>140</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0011</u> gms.
Gross:	<u>67.2728</u> gms.	Tare: <u>67.2404</u> gms.	Net: <b><u>0.0324</u></b> gms.

**+ 10μ Total Weight = 0.0341 gms.**

Filter	Gross: <u>0.1498</u> gms.	Tare: <u>0.1179</u> gms.	Net: <b><u>0.0319</u></b> gms.
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- 10 μ Rinse

DI Water:	<u>450</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0036</u> gms.
Acetone :	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>500</u> ml	Aliquot: <u>500</u> ml	
Gross:	<u>70.7658</u> gms.	Tare: <u>70.7579</u> gms.	Net: <b><u>0.0042</u></b> gms.

**- 10μ Total Weight = 0.0324 gms.**

**Total Weight = 0.0665 gms.**

+ 10 μ	<u>51.26</u> %
- 10 μ	<u>48.74</u> %

**PM10 PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : <u>County Line Gins</u>	Date : <u>12/11/91</u>
Site : <u>Hanford</u>	Job # : <u>3067</u>
Unit : <u>#2 Drying</u>	Lab # : <u>291-204</u>
Run : <u>3</u>	

**BLANKS**

Acetone		Volume: <u>100</u> ml
Gross: <u>68.4500</u> gms.	Tare: <u>68.4498</u> gms.	Residue: <u>0.0002</u> gms.
DI Water		Volume: <u>100</u> ml
Gross: <u>73.2411</u> gms.	Tare: <u>73.2403</u> gms.	Residue: <u>0.0008</u> gms.

**WEIGHTS & VOLUMES**

Filter	Gross: <u>0.0917</u> gms.	Tare: <u>0.0893</u> gms.	Net: <u>0.0024</u> gms.
Filter	Gross: <u>0.0918</u> gms.	Tare: <u>0.0901</u> gms.	Net: <u>0.0017</u> gms.

+ 10 μ Rinse -

Acetone:	<u>100</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0002</u> gms.
DI Water:	<u>150</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0012</u> gms.
Gross:	<u>67.1154</u> gms.	Tare: <u>67.0710</u> gms.	Net: <u>0.0444</u> gms.

**+ 10μ Total Weight = 0.0471 gms.**

Filter	Gross: <u>0.1523</u> gms.	Tare: <u>0.1175</u> gms.	Net: <u>0.0348</u> gms.
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- 10 μ Rinse

DI Water:	<u>450</u> ml * <u>8E-06</u> gms./ml	=	Net: <u>-0.0036</u> gms.
Acetone:	<u>50</u> ml * <u>2E-06</u> gms./ml	=	Net: <u>-0.0001</u> gms.
Total:	<u>500</u> ml	Aliquot: <u>500</u> ml	
Gross:	<u>67.6642</u> gms.	Tare: <u>67.6482</u> gms.	Net: <u>0.0123</u> gms.

**- 10μ Total Weight = 0.0434 gms.**

**Total Weight = 0.0905 gms.**

+ 10 μ	<u>52.04</u> %
- 10 μ	<u>47.96</u> %

TOTAL  
PARTICULATE

226

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/8/91  
Site : Hanford      Job # : 3067  
Unit : Mote      Lab # : 291-204  
Run : 1

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.

DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.4502 gms.      Tare: 0.4033 gms.      Net: 0.0469 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.

DI Water: 175 ml \* 8E-06 gms./ml      =      Net: -0.0014 gms.

Gross: 65.6855 gms.      Tare: 65.5913 gms.      Net: 0.0942 gms.

Impinger Catch -  
DI Water: 495 ml \* 8E-06 gms./ml      =      Net: -0.0040 gms.

Total: 500 ml      Aliquot: 500 ml

Gross: 65.9785 gms.      Tare: 65.9748 gms.      Net: -0.0003 gms.

**Total Particulate Weight      =      0.1393 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/8/91  
Site : Hanford Job # : 3067  
Unit : Mote Lab # : 291-204  
Run : 2

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.

DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.6700 gms. Tare: 0.5962 gms. Net: 0.0738 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: -0.0001 gms.  
DI Water: 125 ml \* 8E-06 gms./ml = Net: -0.0010 gms.

Gross: 65.9858 gms. Tare: 65.9146 gms. Net: 0.0712 gms.

Impinger Catch -  
DI Water: 500 ml \* 8E-06 gms./ml = Net: -0.0040 gms.

Total: 525 ml Aliquot: 525 ml  
Gross: 65.8139 gms. Tare: 65.8091 gms. Net: 0.0008 gms.

**Total Particulate Weight = 0.1447 gms.**

224

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/8/91  
Site : Hanford      Job # : 3067  
Unit : Mote      Lab # : 291-204  
Run : 3

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.  
DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6190 gms.      Tare: 0.5711 gms.      Net: 0.0479 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.  
DI Water: 150 ml \* 8E-06 gms./ml      =      Net: -0.0012 gms.  
Gross: 66.4156 gms.      Tare: 66.3408 gms.      Net: 0.0748 gms.  
Impinger Catch -  
DI Water: 505 ml \* 8E-06 gms./ml      =      Net: -0.0040 gms.  
Total: 510 ml      Aliquot: 510 ml  
Gross: 71.0553 gms.      Tare: 71.0484 gms.      Net: 0.0029 gms.  
**Total Particulate Weight      =      0.1243 gms.**

SUCTION  
CYCLONE

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/8/91  
Site : Hanford Job # : 3067  
Unit : Suction Lab # : 291-204  
Run : 1

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.  
DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.6155 gms. Tare: 0.5690 gms. Net: **0.0465** gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: **-0.0001** gms.  
DI Water: 150 ml \* 8E-06 gms./ml = Net: **-0.0012** gms.  
Gross: 70.1632 gms. Tare: 70.0784 gms. Net: **0.0848** gms.  
Impinger Catch -  
DI Water: 495 ml \* 8E-06 gms./ml = Net: **-0.0040** gms.  
Total: 500 ml Aliquot: 500 ml  
Gross: 65.9342 gms. Tare: 65.9287 gms. Net: **0.0015** gms.  
**Total Particulate Weight = 0.1315 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/8/91  
Site : Hanford      Job #: 3067  
Unit : Suction      Lab #: 291-204  
Run : 2

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.  
DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6437 gms.      Tare: 0.5772 gms.      Net: 0.0665 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.  
DI Water: 210 ml \* 8E-06 gms./ml      =      Net: -0.0017 gms.  
Gross: 67.4093 gms.      Tare: 67.3051 gms.      Net: 0.1042 gms.  
Impinger Catch -  
DI Water: 515 ml \* 8E-06 gms./ml      =      Net: -0.0041 gms.  
Total: 520 ml      Aliquot: 520 ml  
Gross: 72.6196 gms.      Tare: 72.6152 gms.      Net: 0.0003 gms.  
**Total Particulate Weight**      =      0.1692 gms.



LINT CLEANER  
CYCLONE

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins                      Date : 12/9/91  
Site : Hanford                                      Job # : 3067  
Unit : Lint Cleaner                              Lab # : 291-204  
Run : 1

**BLANKS**

Acetone    Volume: 100 ml  
Gross: 68.4500 gms.                      Tare: 68.4498 gms.                      Residue: 0.0002 gms.  
  
DI Water    Volume: 100 ml  
Gross: 73.2411 gms.                      Tare: 73.2403 gms.                      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5826 gms.                      Tare: 0.5663 gms.                      Net: **0.0163** gms.  
  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml                      =                      Net: **-0.0001** gms.  
DI Water: 125 ml \* 8E-06 gms./ml                      =                      Net: **-0.0010** gms.  
Gross: 66.0092 gms.                      Tare: 65.9784 gms.                      Net: **0.0308** gms.  
  
Impinger Catch -  
DI Water: 445 ml \* 8E-06 gms./ml                      =                      Net: **-0.0036** gms.  
Total: 450 ml                      Aliquot: 450 ml  
Gross: 65.9700 gms.                      Tare: 65.9648 gms.                      Net: **0.0016** gms.  
  
**Total Particulate Weight                      =                      0.0476 gms.**



**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/9/91  
Site : Hanford      Job # : 3067  
Unit : Lint Cleaner      Lab # : 291-204  
Run : 3

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.

DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5831 gms.      Tare: 0.5678 gms.      Net: **0.0153** gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: **-0.0001** gms.

DI Water: 150 ml \* 8E-06 gms./ml      =      Net: **-0.0012** gms.

Gross: 67.1980 gms.      Tare: 67.1650 gms.      Net: **0.0330** gms.

Impinger Catch -  
DI Water: 395 ml \* 8E-06 gms./ml      =      Net: **-0.0032** gms.

Total: 400 ml      Aliquot: 400 ml

Gross: 66.0654 gms.      Tare: 66.0614 gms.      Net: **0.0008** gms.

**Total Particulate Weight      =      0.0478 gms.**

OVERFLOW  
CYCLONE

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/9/91  
Site : Hanford      Job # : 3067  
Unit : Overflow      Lab # : 291-204  
Run : 1

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.

DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6028 gms.      Tare: 0.5661 gms.      Net: 0.0367 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.

DI Water: 180 ml \* 8E-06 gms./ml      =      Net: -0.0014 gms.

Gross: 70.8042 gms.      Tare: 70.7593 gms.      Net: 0.0449 gms.

Impinger Catch -  
DI Water: 305 ml \* 8E-06 gms./ml      =      Net: -0.0024 gms.

Total: 310 ml      Aliquot: 310 ml

Gross: 67.9583 gms.      Tare: 67.9549 gms.      Net: 0.0010 gms.

**Total Particulate Weight      =      0.0810 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/9/91  
Site : Hanford      Job # : 3067  
Unit : Overflow      Lab # : 291-204  
Run : 2

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.

DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6089 gms.      Tare: 0.5690 gms.      Net: 0.0399 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.

DI Water: 100 ml \* 8E-06 gms./ml      =      Net: -0.0008 gms.

Gross: 67.2919 gms.      Tare: 67.2428 gms.      Net: 0.0491 gms.

Impinger Catch -  
DI Water: 305 ml \* 8E-06 gms./ml      =      Net: -0.0024 gms.

Total: 310 ml      Aliquot: 310 ml

Gross: 67.5098 gms.      Tare: 67.5064 gms.      Net: 0.0010 gms.

**Total Particulate Weight      =      0.0891 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/9/91  
Site : Hanford      Job # : 3067  
Unit : Overflow      Lab # : 291-204  
Run : 3

**BLANKS**

Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.  
DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5948 gms.      Tare: 0.5682 gms.      Net: 0.0266 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.  
DI Water: 70 ml \* 8E-06 gms./ml      =      Net: -0.0006 gms.  
Gross: 67.4200 gms.      Tare: 67.3572 gms.      Net: 0.0628 gms.  
Impinger Catch -  
DI Water: 465 ml \* 8E-06 gms./ml      =      Net: -0.0037 gms.  
Total: 470 ml      Aliquot: 470 ml  
Gross: 70.8704 gms.      Tare: 70.8658 gms.      Net: 0.0009 gms.  
**Total Particulate Weight      =      0.0896 gms.**

# 1 DRYING  
CYCLONE

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins                      Date : 12/10/91  
Site : Hanford                                      Job # : 3067  
Unit : #1 Drying                                Lab # : 291-204  
Run : 1

**BLANKS**

Acetone    Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.  
  
DI Water     Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6752 gms.      Tare: 0.5688 gms.      Net: 0.1064 gms.  
  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.  
DI Water: 190 ml \* 8E-06 gms./ml      =      Net: -0.0015 gms.  
  
Gross: 65.1150 gms.      Tare: 65.0843 gms.      Net: 0.0307 gms.  
  
Impinger Catch -  
DI Water: 400 ml \* 8E-06 gms./ml      =      Net: -0.0032 gms.  
  
Total: 420 ml      Aliquot: 420 ml  
  
Gross: 65.8202 gms.      Tare: 65.8084 gms.      Net: 0.0086 gms.  
  
**Total Particulate Weight      =      0.1441 gms.**





GIN STAND TRASH  
CYCLONE



**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/10/91  
Site : Hanford Job # : 3067  
Unit : Gin Stand Trash Lab # : 291-204  
Run : 2

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.

DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.6230 gms. Tare: 0.5683 gms. Net: 0.0547 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: -0.0001 gms.

DI Water: 160 ml \* 8E-06 gms./ml = Net: -0.0013 gms.

Gross: 66.0468 gms. Tare: 65.9275 gms. Net: 0.1193 gms.

Impinger Catch -  
DI Water: 370 ml \* 8E-06 gms./ml = Net: -0.0030 gms.

Total: 375 ml Aliquot: 375 ml

Gross: 65.9487 gms. Tare: 65.9448 gms. Net: 0.0009 gms.

**Total Particulate Weight = 0.1736 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins                      Date : 12/10/91  
Site : Hanford                                      Job # : 3067  
Unit : Gin Stand Trash                      Lab # : 291-204  
Run : 3

**BLANKS**

Acetone    Volume: 100 ml  
Gross: 68.4500 gms.                      Tare: 68.4498 gms.                      Residue: 0.0002 gms.  
  
DI Water    Volume: 100 ml  
Gross: 73.2411 gms.                      Tare: 73.2403 gms.                      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.6190 gms.                      Tare: 0.5689 gms.                      Net: 0.0501 gms.  
  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml                      =                      Net: -0.0001 gms.  
DI Water: 115 ml \* 8E-06 gms./ml                      =                      Net: -0.0009 gms.  
  
Gross: 67.4225 gms.                      Tare: 67.3029 gms.                      Net: 0.1196 gms.  
  
Impinger Catch -  
DI Water: 415 ml \* 8E-06 gms./ml                      =                      Net: -0.0033 gms.  
  
Total: 420 ml                      Aliquot: 420 ml  
  
Gross: 74.3424 gms.                      Tare: 74.3384 gms.                      Net: 0.0007 gms.  
  
**Total Particulate Weight                      =                      0.1694 gms.**

BATTERY CONDENSER  
CYCLONE

251

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/11/91  
Site : Hanford Job # : 3067  
Unit : Battery Condenser Lab # : 291-204  
Run : 1

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.  
DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.5715 gms. Tare: 0.5685 gms. Net: 0.0030 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: -0.0001 gms.  
DI Water: 95 ml \* 8E-06 gms./ml = Net: -0.0008 gms.  
Gross: 66.7692 gms. Tare: 66.7598 gms. Net: 0.0094 gms.  
Impinger Catch -  
DI Water: 395 ml \* 8E-06 gms./ml = Net: -0.0032 gms.  
Total: 400 ml Aliquot: 400 ml  
Gross: 66.3209 gms. Tare: 66.3164 gms. Net: 0.0013 gms.  
**Total Particulate Weight = 0.0129 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/11/91  
Site : Hanford Job # : 3067  
Unit : Battery Condenser Lab # : 291-204  
Run : 2

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.  
DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.5745 gms. Tare: 0.5685 gms. Net: 0.0060 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: -0.0001 gms.  
DI Water: 125 ml \* 8E-06 gms./ml = Net: -0.0010 gms.  
Gross: 67.5664 gms. Tare: 67.5470 gms. Net: 0.0194 gms.  
Impinger Catch -  
DI Water: 445 ml \* 8E-06 gms./ml = Net: -0.0036 gms.  
Total: 450 ml Aliquot: 450 ml  
Gross: 65.7902 gms. Tare: 65.7860 gms. Net: 0.0006 gms.  
**Total Particulate Weight = 0.0249 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins                      Date : 12/11/91  
Site : Hanford                                      Job # : 3067  
Unit : Battery Condenser                      Lab # : 291-204  
Run : 3

**BLANKS**

Acetone    Volume: 100 ml  
Gross: 68.4500 gms.                      Tare: 68.4498 gms.                      Residue: 0.0002 gms.  
  
DI Water    Volume: 100 ml  
Gross: 73.2411 gms.                      Tare: 73.2403 gms.                      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5713 gms.                      Tare: 0.5611 gms.                      Net: 0.0102 gms.  
  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml                      =                      Net: -0.0001 gms.  
DI Water: 120 ml \* 8E-06 gms./ml                      =                      Net: -0.0010 gms.  
  
Gross: 65.9728 gms.                      Tare: 65.9395 gms.                      Net: 0.0333 gms.  
  
Impinger Catch -  
DI Water: 445 ml \* 8E-06 gms./ml                      =                      Net: -0.0036 gms.  
  
Total: 450 ml                      Aliquot: 450 ml  
Gross: 66.4102 gms.                      Tare: 66.4060 gms.                      Net: 0.0006 gms.  
  
**Total Particulate Weight                      =                      0.0431 gms.**

#2 DRYING  
CYCLONE

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins  
Site : Hanford  
Unit : #2 Drying  
Run : 1

Date : 12/11/91  
Job # : 3067  
Lab # : 291-204

**BLANKS**

Acetone  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Volume: 100 ml  
Residue: 0.0002 gms.

DI Water  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Volume: 100 ml  
Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5856 gms.      Tare: 0.5690 gms.      Net: 0.0166 gms.

Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.

DI Water: 100 ml \* 8E-06 gms./ml      =      Net: -0.0008 gms.

Gross: 66.0929 gms.      Tare: 66.0605 gms.      Net: 0.0324 gms.

Impinger Catch -  
DI Water: 415 ml \* 8E-06 gms./ml      =      Net: -0.0033 gms.

Total: 425 ml      Aliquot: 425 ml

Gross: 66.0239 gms.      Tare: 66.0200 gms.      Net: 0.0006 gms.

**Total Particulate Weight**      =      0.0487 gms.

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins Date : 12/11/91  
Site : Hanford Job # : 3067  
Unit : #2 Drying Lab # : 291-204  
Run : 2

**BLANKS**

Acetone Volume: 100 ml  
Gross: 68.4500 gms. Tare: 68.4498 gms. Residue: 0.0002 gms.  
DI Water Volume: 100 ml  
Gross: 73.2411 gms. Tare: 73.2403 gms. Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter Gross: 0.5935 gms. Tare: 0.5684 gms. Net: 0.0251 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml = Net: -0.0001 gms.  
DI Water: 125 ml \* 8E-06 gms./ml = Net: -0.0010 gms.  
Gross: 66.3638 gms. Tare: 66.3236 gms. Net: 0.0402 gms.  
Impinger Catch -  
DI Water: 400 ml \* 8E-06 gms./ml = Net: -0.0032 gms.  
Total: 410 ml Aliquot: 410 ml  
Gross: 66.0978 gms. Tare: 66.0942 gms. Net: 0.0004 gms.  
**Total Particulate Weight = 0.0646 gms.**

**PARTICULATE WEIGHTS : DATA & CALCULATIONS**

Client : County Line Gins      Date : 12/11/91  
Site : Hanford      Job #: 3067  
Unit : #2 Drying      Lab #: 291-204  
Run : 3

**BLANKS**

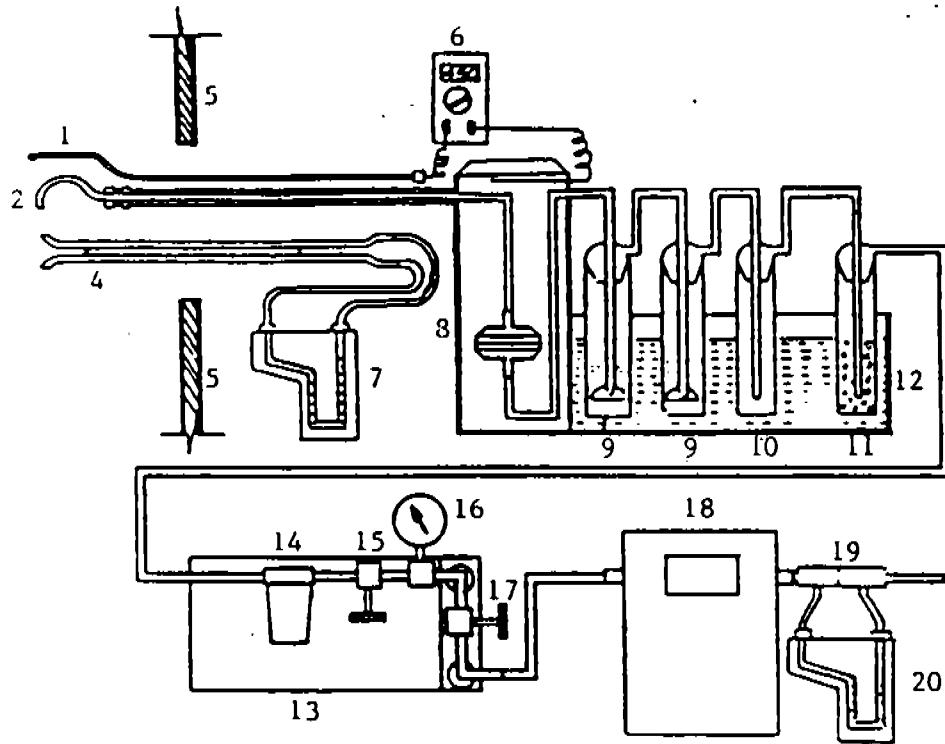
Acetone      Volume: 100 ml  
Gross: 68.4500 gms.      Tare: 68.4498 gms.      Residue: 0.0002 gms.  
DI Water      Volume: 100 ml  
Gross: 73.2411 gms.      Tare: 73.2403 gms.      Residue: 0.0008 gms.

**WEIGHTS & VOLUMES**

Filter      Gross: 0.5958 gms.      Tare: 0.5683 gms.      Net: 0.0275 gms.  
Probe Rinse -  
Acetone: 50 ml \* 2E-06 gms./ml      =      Net: -0.0001 gms.  
DI Water: 125 ml \* 8E-06 gms./ml      =      Net: -0.0010 gms.  
Gross: 66.4011 gms.      Tare: 66.3520 gms.      Net: 0.0491 gms.  
Impinger Catch -  
DI Water: 390 ml \* 8E-06 gms./ml      =      Net: -0.0031 gms.  
Total: 400 ml      Aliquot: 400 ml  
Gross: 66.0434 gms.      Tare: 66.0401 gms.      Net: 0.0002 gms.  
**Total Particulate Weight      =      0.0757 gms.**

**VI. METHODOLOGY**

258

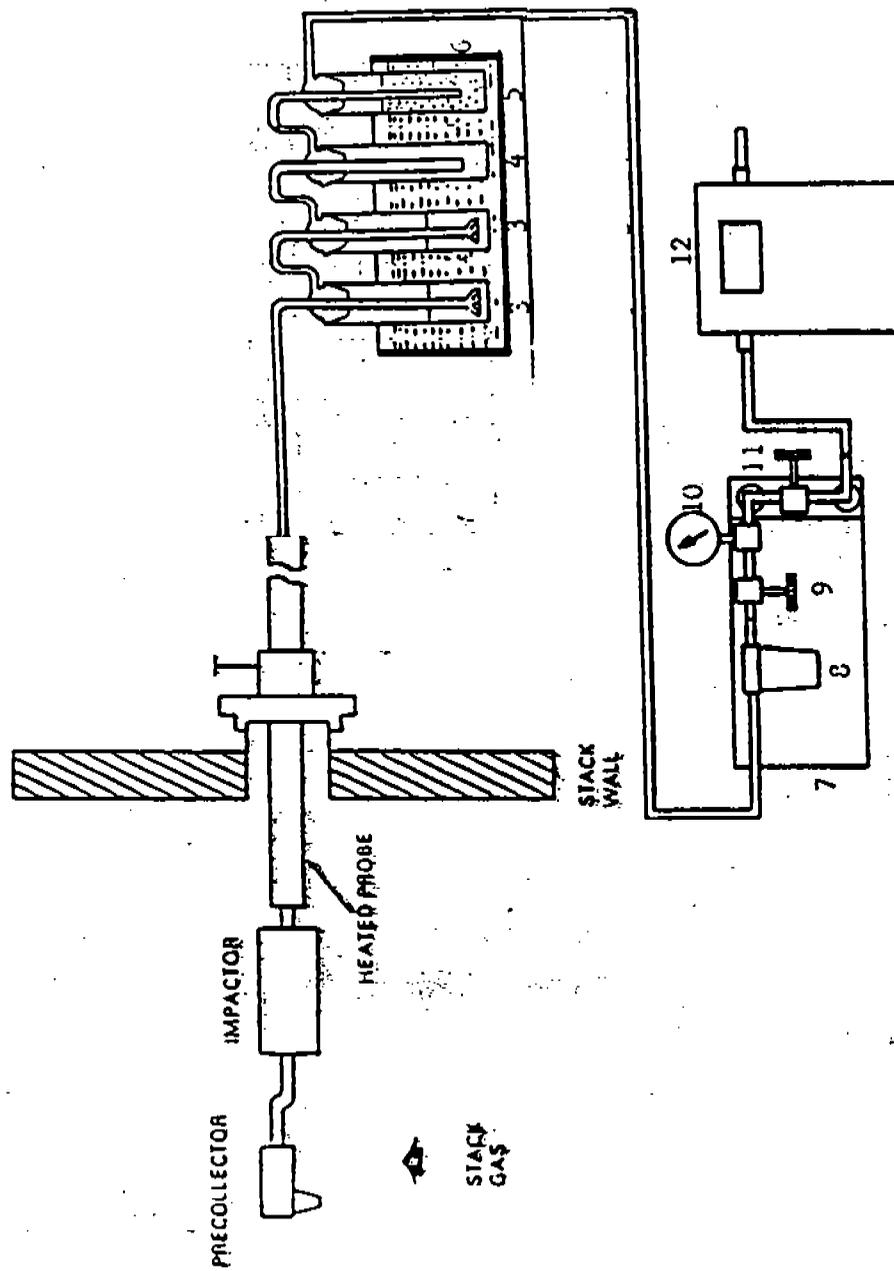


- |   |   |
|---|---|
| 1. Temperature Sensor                       | 11. Bubbler with Silica Gel               |
| 2. Nozzle                                   | 12. Ice Bath                              |
| 3. Glass lined Stainless Steel Probe-Heated | 13. Sealed Pump (Leak Free)               |
| 4. S-type Pitot Tube                        | 14. Filter for Pump                       |
| 5. Stack Wall                               | 15. Metering Valve                        |
| 6. Temperature Sensor Meter                 | 16. Vacuum Gauge                          |
| 7. Pitot Tube Inclined Manometer            | 17. By-pass Valve                         |
| 8. Heated Box with Filter                   | 18. Temperature Compensated Dry Gas Meter |
| 9. Impinger with 100 ml H <sub>2</sub> O    | 19. Orifice                               |
| 10. Empty Bubbler                           | 20. Orifice Inclined Manometer            |

Figure 5.2-1

Particulate Sampling Train Set-up with Heated Probe and Heated Filter

PM-10 PARTICULATE SAMPLING TRAIN



- |   |   |
|---|---|
| 1. Stack Wall                               | 8. Filter for Pump                        |
| 2. Probe                                    | 9. Metering Valve                         |
| 3. Impinger with 100 ml of H <sub>2</sub> O | 10. Vacuum Gauge                          |
| 4. Empty Bubblers                           | 11. By-pass Valve                         |
| 5. Bubbler with Silica Gel                  | 12. Temperature Compensated Dry Gas Meter |
| 6. Ice Bath                                 |   |
| 7. Sealed Pump (Leak Free)                  |   |

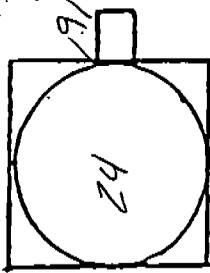
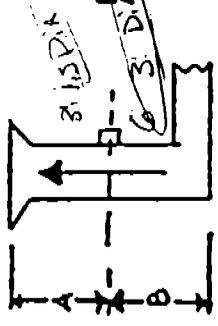
**VII. RAW DATA**

PM10  
PARTICULATE

MOTES  
CYCLONE

41 6' 11"

PLANT: County Line CCA  
 LOCATION: Hamilton  
 COUNTY: Kind  
 UNIT: 11018  
 DATE: 12/8/91  
 RUN NO/METHOD: 11 P1110  
 COLD BOX NO.: 1  
 METER BOX NO.: B  
 METER FACTOR: 9.456  
 PITOT #/FACTOR: 74 0.874  
 PYROMETER #: I3  
 MAGNEHELC FACTOR: AP 0.983 ΔH 0.991  
M-3 M-4



FILTER NO. H 1, 2 I-1  
 AMBIENT TEMP.: 46  
 BAROMETRIC PRESS., IN. HG.: 30.09  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: Calu  
 SAMPLE BOX TEMP., (F): 8  
 STATIC PRESSURE: 0.1 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) / (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		20.9	0.05	0	52	0.4		1.81	312.190	49	49	14	
2				2.5	73	0.12		1.90	314.1	53	51		
3				5	77	0.41		1.85	315.7	54	51		
4				7.5	78	0.81		1.76	317.7	54	52		
5				10	78	0.27		1.67	319.7	56	53	11	
6				12.5	79	0.22		0.99	320.0	56	53		
7				15	78	0.24		1.08	322.0	57	53		
8				17.5	77	0.23		1.04	323.1	60	54		
9				20	69	0.24		1.08	324.7	58	56		
10				22.5	70	0.25		1.13	325.4	57	55		
11				25	70	0.24		1.08	327.0	59	55	8	
12				27.5	71	0.23		1.04	328.3	63	56		
	ZERO SPAN			30					329.356				
	AVERAGE		20.9	10.05									

PTOT LEAK CHECK:  
 BEFORE: TOP ΔP = 26 BOTTOM ΔP = 57  
 ΔP = 37  
 AFTER: TOP ΔP = 26 BOTTOM ΔP = 37  
 ΔP = 37

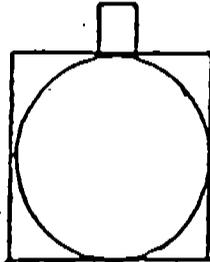
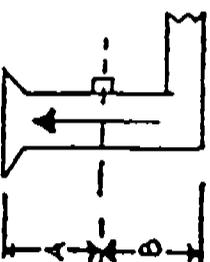
SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 17 IN. HG.  
 AFTER: CRM@ 20 IN. HG.

COMMENTS: PURGE 4.52

2 04175 A10 1.96L  
 1.8876

269

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: WAOIS  
 DATE: 12/6/91  
 RUN NO./METHOD: 1 / P.M. 10 Sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

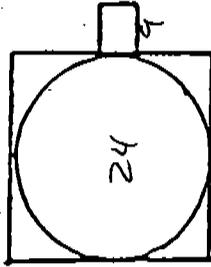
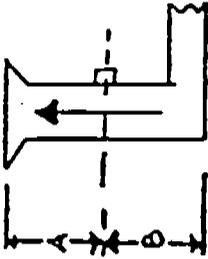


FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	60	53	.27		1.22	329.356	58	58	9	
2				25	53	.28		1.26	311.2	61	57	10	
3				50	54	.32		1.44	332.7	62	57		
4				75	53	.29		1.31	333.8	62	57		
5				10	58	.29		1.31	335.5	63	58		
6				125	61	.23		1.03	337.0	65	56		
7				15	62	.22		0.97	338.2	66	59		
8				175	64	.23		1.03	339.1	67	60	8	
9				20	64	.30		1.36	340.8	68	61		
10				225	61	.36		1.63	342.0	68	61		
11				75	60	.37		1.67	344.0	70	62		
12				275	63	.36		1.63	345.6	71	63		
				30	NO 1				347.563				
AVERAGE		20.9	0.05	60	69.3		0.573	1.376	353.373	58.9			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE 4.52

PLANT: Country Club  
 LOCATION: WANTON  
 COUNTY: KINGS  
 UNIT: WATERS  
 DATE: 12/8/91  
 RUN NO/METHOD: 2/P.M.I.D.  
 COLD BOX NO.: 11  
 METER BOX NO.: B  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: #1/0.874  
 PYROMETER #: T3  
 MAGNETIC FACTOR: AP M-10.834H M-4 0.981



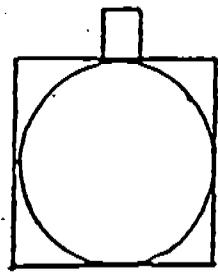
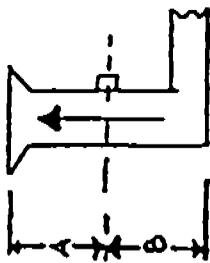
FILTER NO. H 317 + I 2  
 AMBIENT TEMP.: 53  
 BAROMETRIC PRESS., IN. HG.: 30.09  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.5245  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: 0.00  
 SAMPLE BOX TEMP., (F): 00  
 STATIC PRESSURE: -0.8 "H2O  
 OFFSET: 5 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	58	.27		1.17	348.665	58	58		
2				25	60	.28		1.22	349.9	59	58	70	
3				5	62	.32		1.35	351.2	60	57	12	
4				7.5	60	.29		1.26	352.6	61	57		
5				10	61	.21		1.26	354.6	62	58		
6				12.5	60	.23		1.0	350.6	63	58		
7				15	63	.22		0.96	357.0	64	58		
8				17.5	61	.23		1.0	356.1	65	60		
9				20	61	.30		1.30	359.5	68	61		
10				22.5	63	.26		1.56	360.9	67	61		
11				25	63	.37		1.60	362.7	68	62		
12				27.5	60	.36		1.56	362.3	69	61		
	ZERO SPAN			30					365.897				
AVERAGE				12.1									

PITOT LEAK CHECK: BEFORE: TOP ΔP = 1.8 BOTTOM ΔP = .41  
 AFTER: TOP ΔP = 1.8 BOTTOM ΔP = .41  
 SAMPLE TRAIN LEAK: BEFORE CRM@ 0.000 IN. HG. 23  
 AFTER CRM@ 0.007 IN. HG. 16  
 COMMENTS: PURGE 4.35

266

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: MCS  
 DATE: 12/8/91  
 RUN NO./METHOD: 2/PMD  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



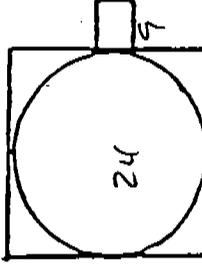
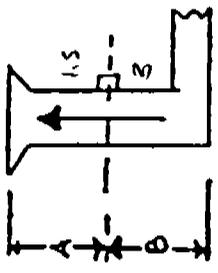
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta H_2O$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	60	.41		1.78	365.89	64	64	16	
4				25	60	.46		1.74	367.58	65	63		
5				5	60	.37		1.69	369.9	65	63		
7				7.5	63	.35		1.52	371.6	67	63		
10				10	62	.32		1.39	373.2	68	63	12	
12.5				12.5	61	.25		1.04	374.9	68	63		
15				15	61	.23		1.0	375.7	69	64		
17.5				17.5	66	.26		1.13	377.4	70	64		
26				26	64	.25		1.09	378.6	71	64	10	
22.5				22.5	64	.27		1.17	380.0	71	65		
25				25	65	.24		1.04	381.1	72	66		
27.5				27.5	64	.25		1.09	382.0	72	66		
	ZERO			30					384.182				
	SPAN			123	1.23								
AVERAGE		20.7	0.05	60	61.8		0.573	1.870	357.67	63.8			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
            $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
            $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE 4.35

267

PLANT: Coulters  
 LOCATION: PARSONS  
 COUNTY: PLUMS  
 UNIT: MILES  
 DATE: 12/8/91  
 RUN NO/METHOD: 3/PMD  
 COLD BOX NO.: 4  
 METER BOX NO.: 6  
 METER FACTOR: 0.91826  
 PITOT #/FACTOR: 1/0.8741  
 PYROMETER #: 13  
 MAGNEHELIC FACTOR: ΔPA13 0.587 ΔH 0.991 M-11



FILTER NO. H56 + I3  
 AMBIENT TEMP.: 55  
 BARMETRIC PRESS., IN. HG.: 30.9  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.5 - 240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: 0.0  
 SAMPLE BOX TEMP., (F): 0  
 STATIC PRESSURE: 0.09 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	79	0.41		1.85	384.500	61	60	45	
2				25	76	40		1.8	386.2	60	60		
3				3	76	1.87		1.76	386.2	61	60		
4				7.5	75	0.35		1.58	370.0	62	60		
5				10	76	0.32		1.45	371.8	63	60		
6				12.5	75	0.25		1.13	373.2	60	65		
7				15	77	0.23		1.04	374.5	66	60		
8				17.5	77	0.26		1.18	395.7	67	61	9	
9				20	80	0.25		1.13	377.2	67	60		
10				22.5	76	0.27		1.22	378.6	69	62		
11				25	77	0.24		1.08	397.6	70	63		
12				27.5	77	0.25		1.13	401.3	71	63		
AVERAGE				20					403.025				

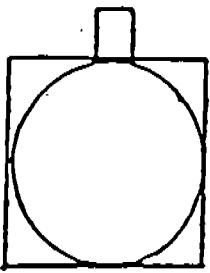
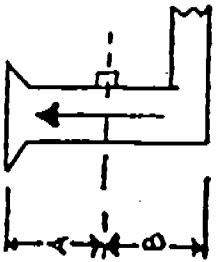
PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 1.2 BOTTOM ΔP = .12  
 ΔP = 1.1 ΔP = .12  
 AFTER: TOP ΔP = 1.3 BOTTOM ΔP = .13  
 ΔP = 1.2 ΔP = .12

SAMPLE TRIN LEAK:  
 BEFORE: 0.000 IN. HG.  
 AFTER: 0.005 IN. HG.

COMMENTS: PURGE 452

268

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Notes  
 DATE: 12/8/51  
 RUN NO./METHOD: 3/Pm10  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



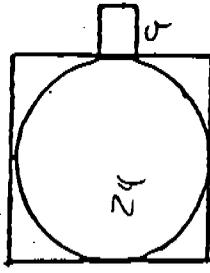
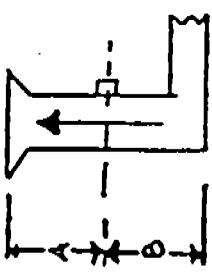
FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
		20.9	0.05	0	72	.59	.4	1.76	403.025	63	66		
				25	75	.4		1.80	404.9	64	61	12	
				5	76	.5		1.76	406.3	60	71		
				7.5	79	.5		1.58	408.3	75	52		
				10	76	.29		1.81	409.7	69	64		
				12.5	76	.21		0.95	412.3	70	65		
				15	76	.23		1.08	413.4	71	65		
				17.5	76	.25		1.13	414.7	71	65		
				20	72	.26		1.18	416.6	72	66		
				22.5	79	.25		1.13	417.7	73	67		
				25	80	.24		1.08	418.7	73	67		
				27.5	82	.22		0.99	420.3	74	68		
	ZERO SPAN			30					421.312				
				3.25									
AVERAGE		20.9	0.05	60	76.8			1.38	26.812	65.1			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_

SUCTION  
CYCLONE

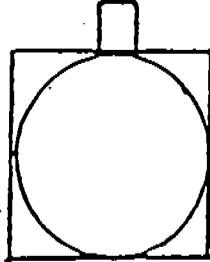
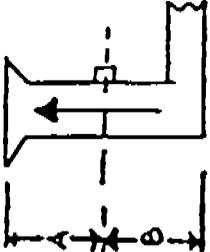
PLANT: Conestoga  
 LOCATION: Harold  
 COUNTY: Krus  
 UNIT: Surface  
 DATE: 12/8/91  
 RUN NO. METHOD: 1/P.M. (1)  
 COLD BOX NO.: 10  
 METER BOX NO.: B  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 0.571 #4  
 PYROMETER #: T3  
 MAGNETIC FACTOR: APM-3 0.9885 ΔH M-4 0.961



FILTER NO. H 7,8 + J 4  
 AMBIENT TEMP.: 58  
 BAROMETRIC PRESS., IN. HG.: 29.92  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: 0CC  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #5 .240  
 PROBE HEATER SETTING: 0CC  
 APPROX. WIND VEL., MPH: 0.00  
 SAMPLE BOX TEMP., (F): -  
 STATIC PRESSURE: 7.10 \*H2O  
 OFFSET: 7 in. PORT DIA.: 3 in. (M / Ⓟ)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.4	0.05	6	58	.4		1.82	421.586	60	60		
2				2.5	52	.4		1.82	423.9	59	58		
3				5	53	.35		1.59	425.5	60	58	10	
4				7.5	52	.35		1.59	426.9	61	58		
5				10	53	.3		1.36	428.5	62	58		
6				12.5	53	.25		1.14	430.5	63	58		
7				15	53	.25		1.14	431.9	65	59		
8				17.5	51	.25		1.14	433.2	66	60		
9				20	54	.3		1.36	434.2	61	67		
10				22.5	53	.4		1.82	436.0	68	60		
11				25	54	.25		1.14	437.2	69	62		
12				27.5	59	.25		1.14	438.9	69	62		
13				30					440.25	69	62		
14				30.5									
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP ΔP = 2.7 ΔP = 2.7 AFTER: TOP ΔP = 1.9 ΔP = 1.9  
 BOTTOM ΔP = 3.2 ΔP = 3.2 BOTTOM ΔP = 2.4 ΔP = 2.4  
 SAMPLE TRAIN LEAK: BEFORE = 0.000 CRM@ 2.7 IN. HG. AFTER = 0.000 CRM@ 2.1 IN. HG.  
 COMMENTS: PURGE 4.55



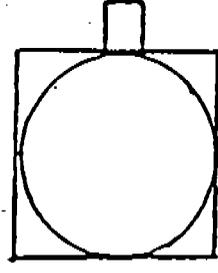
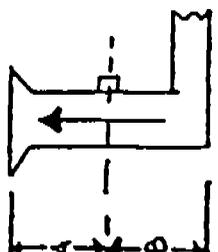
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Sutton  
 DATE: 12/6/91  
 RUN NO./METHOD: 1/Pm10  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_<sup>H2O</sup>  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	51	0.3		1.30	440.25	60	63		
2				25	52	0.35		1.57	442.5	66	63		
3				3	54	0.35		1.59	443.4	67	63		
4				75	55	0.36		1.59	445.4	64	68	11	
5				10	51	0.3		1.30	446.5	69	63		
6				12.5	54	0.27		1.23	448.5	69	63		
7				15	56	0.35		1.59	449.8	70	64		
8				17.5	51	0.3		1.30	451.5	71	65		
9				20	56	0.3		1.30	452.6	71	65		
10				22.5	55	0.4		1.82	454.3	71	66		
11				25	55	0.4		1.82	455.6	72	66		
12				27.5	55	0.4		1.82	457.1	72	66		
	ZERO SPAN			30					459.657				
AVERAGE		20.9	0.05	60	540		0.569	1.471	38.071	69.3			

PITOT LEAK CHECK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 CFM@ \_\_\_\_\_ IN. HG. \_\_\_\_\_  
 CFM@ \_\_\_\_\_ IN. HG. \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Consolidated  
 LOCATION: Haverhill  
 COUNTY: KING  
 UNIT: Substation  
 DATE: 12/18/61  
 RUN NO/METHOD: 2/PMD  
 COLD BOX NO.: 11  
 METER BOX NO.: B  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 0891/1.1  
 PYROMETER #: 111  
 MAGNEHELIC FACTOR: AP M-3 0.973 AH M-4 0.971



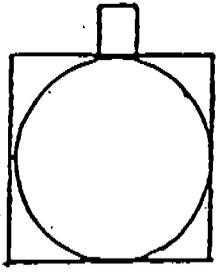
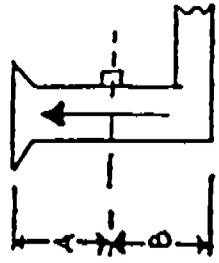
FILTER NO. H 9, 10 + IS  
 AMBIENT TEMP.: 63  
 BARMETRIC PRESS., IN. HG.: 29.92  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: 0.05  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240 #5  
 PROBE HEATER SETTING: 0.05  
 APPROX. WIND VEL., MPH: 0.24  
 SAMPLE BOX TEMP., (F): -  
 STATIC PRESSURE: -0.10 "H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> )		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		20.1	0.05	0	48	0.38	0.42	1.78	465.500	57	57		
2				2.5	49	0.42	0.4	1.91	462.1	58	57	12	
3				5	52	0.4	0.36	1.82	462.0	60	57		
4				7.5	53	0.36	0.35	1.68	461.1	61	58		
5				10	52	0.35	0.25	1.57	466.1	58	56		
6				12.5	53	0.25	0.3	1.14	468.0	59	56		
7				15	53	0.3	0.3	1.30	469.3	61	56		
8				17.5	54	0.3	0.3	1.36	470.2	62	57		
9				20	55	0.3	0.42	1.40	471.9	63	57	11	
10				22.5	55	0.42	0.3	1.19	473.7	64	58		
11				23	54	0.3	0.3	1.20	474.9	65	59		
12				27.5	53	0.3	0.3	1.70	476.0	66	59		
13	ZERO SPAN			30					478.3				
AVERAGE				17.0									

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: CRM@ \_\_\_\_\_ IN. HG. / 7  
 AFTER: CRM@ \_\_\_\_\_ IN. HG. / 2Y  
 COMMENTS: PURGE \_\_\_\_\_

213

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/9/91  
 RUN NO./METHOD: 20110 Sheet L  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

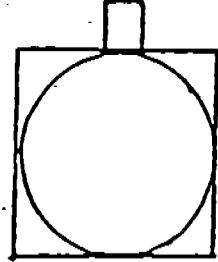
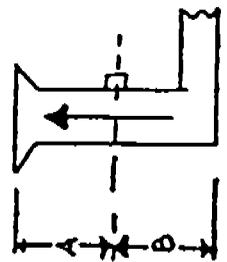
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP., @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.1	0.05	1:00	44	.35		1.59	478.33	67	60		
2				2:5	46	.35		1.57	480.0	63	60	15	
3				5	47	.4		1.82	456.8	63	60		
4				2.5	47	.4		1.82	483.0	63	60	17	
5				10	48	.35		1.59	485.2	64	60		
6				17.5	49	.25		1.14	486.6	64	60		
7				6	50	.3		1.59	488.2	65	60		
8				17.1	50	.3		1.37	489.8	65	60		
9				2.2	51	.35		1.57	491.1	66	61		
10				22.5	50	.35		1.59	492.9	66	61		
11				7.5	49	.37		1.68	494.7	67	61		
12				27.5	50	.3		1.37	496.0	67	62		
STOP				30					497.72				
AVERAGE		20.1	0.05	(20)	50.5		0.587	1.553	37.772	60.8			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: \_\_\_\_\_ IN. HG.  
 AFTER: \_\_\_\_\_ IN. HG.

COMMENTS: PURGE 4.55

PLANT: County Line  
 LOCATION: Harvard  
 COUNTY: King's  
 UNIT: Station  
 DATE: 12/8/91  
 RUN NO/METHOD: 3/P.M.10  
 COLD BOX NO.: 4  
 METER BOX NO.: B  
 METER FACTOR: 0.7486  
 PITOT #/FACTOR: 0.8M  
 PYROMETER #: 74  
 MAGNEHELIC FACTOR: ΔP M-3 0.8334H M-4 0.991



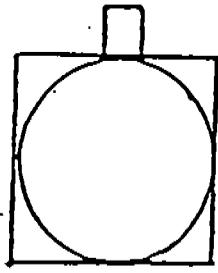
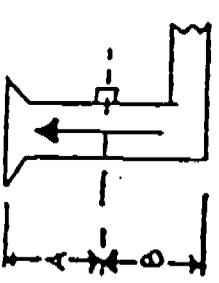
FILTER NO. H 11,12 + I 6  
 AMBIENT TEMP.: 42  
 BAROMETRIC PRESS., IN. HG.: 30.10  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #3, 240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: Cold - Windy  
 SAMPLE BOX TEMP., (F): > 0  
 STATIC PRESSURE: 0.10 °H<sub>2</sub>O  
 OFFSET: 9 In. PORT DIA.: 3 In. (M / Ⓟ)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (T <sub>m</sub> ),	OUTLET (T <sub>m</sub> )		
1		ADP 0.05		0	38	0.4	0.4	1.84	478.043	57	57		
2				25	47	0.4	0.4	1.84	450.0	56	55		
3				3	66	0.4	0.4	1.84	501.9	56	55		
4				78	67	0.4	0.4	1.84	504.0	58	51		
5				10	64	0.35	0.35	1.61	505.9	58	54		
6				125	65	0.3	0.3	1.88	507.0	59	55		
7				15	67	0.3	0.3	1.88	508.9	60	55		
8				17.5	55	0.4	0.4	1.84	510.1	62	56		
9				20	58	0.4	0.4	1.84	511.9	62	56		
10				22.5	84	0.4	0.4	1.84	513.9	63	57		
11				25	54	0.42	0.42	1.93	515.0	64	57	12	
12				27.5	54	0.4	0.4	1.84	517.0	64	58		
AVERAGE				30	1				519.085				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 CRM@ \_\_\_\_\_ IN. HG.  
 AFTER = 0.014 CRM@ 28 IN. HG.

COMMENTS: PURGE 4.59



PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Summit  
 DATE: 12/19/11  
 RUN NO/METHOD: 3/PM10  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

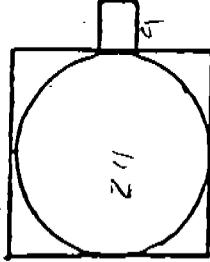
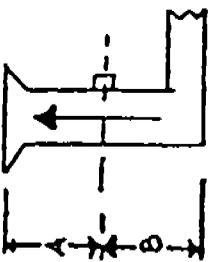
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm),	OUTLET (TM)		
		60.9	0.05	0	54	0.4		1.84	519.085	60	66		
				2.5	60	.4		1.84	521.0	60	59		
				5	63	.4		1.84	522.4	61	58	13	
				7.5	65	.35		1.61	524.4	62	58		
				10	67	.4		1.84	526.0	63	58		
				12.5	68	.25		1.15	527.6	63	59	13	
				15	66	.3		1.38	529.0	64	59		
				17.5	66	.35		1.61	530.7	65	59		
				20	65	0.35		1.61	532.2	65	59		
				22.5	65	.35		1.61	533.4	65	60		
				25	64	.37		1.60	535.2	66	60		
				27.5	64	.35		1.61	537.5	66	61		
	ZERO			30					538.601				
	SPAN			9.147									
AVERAGE					66.5			1.679	545.8				
PITOT LEAK CHECK: BEFORE: _____ IN. HG. AFTER: _____ IN. HG.													
SAMPLE TRAIN LEAK: BEFORE: _____ IN. HG. AFTER: _____ IN. HG.													
COMMENTS: PURGE 4:55													

276

LINT CLEANER  
CYCLONE

PLANT: County Line  
 LOCATION: State Road  
 COUNTY: Kings  
 UNIT: Line 1000  
 DATE: 7/9/60  
 RUN NO/METHOD: 11 PPM 10  
 COLD BOX NO.: 1  
 METER BOX NO.: B  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 47 0.9111  
 PYROMETER #: #13  
 MAGNEHELIC FACTOR: AP M-3 0.9888



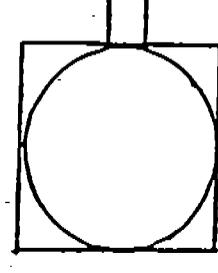
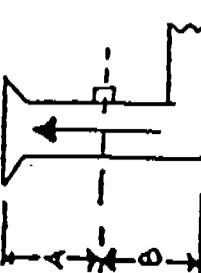
FILTER NO. H-13,14 + I 7  
 AMBIENT TEMP.: 38  
 BARAMETRIC PRESS., IN. HG.: 30.17  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: 055  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #5 240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: 1.50 in  
 SAMPLE BOX TEMP., (F): 40  
 STATIC PRESSURE: 0.11 "H<sub>2</sub>O  
 OFFSET: 5 in. PORT DIA.: 3 in. (M/S / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (T <sub>m</sub> ),	OUTLET (T <sub>m</sub> )		
1		20.61	0.05	0	50	0.37	0.4	1.74	539.200	64	54		
2				25	47	0.40		1.79	541.9	62	51		
3				5	48	0.39		1.74	543.5	53	51		
4				7.5	48	0.36		1.61	544.9	59	51		
5				10	46	0.33		1.48	547.1	55	51		
6				12.5	48	0.28		1.25	548.8	56	51		
7				15	48	0.23		1.03	550.1	67	52		
8				17.5	48	0.25		1.12	552.1	58	52		
9				20	53	0.25		1.12	553.7	59	53		
10				22.5	52	0.25		1.12	554.3	60	53		
11				25	52	0.26		1.16	555.7	60	53		
12				27.5	50	0.23		1.03	557.1	62	51		
AVERAGE				30					558.468				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 CRM@ 27 IN. HG. \_\_\_\_\_  
 CRM@ 17 IN. HG. \_\_\_\_\_  
 COMMENTS: PURGE 4.49

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Line 200000  
 DATE: 12/19/91  
 RUN NO./METHOD: 11/DM-10 SPARK  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ In. PORT DIA.: \_\_\_\_\_ In. ( M / F )



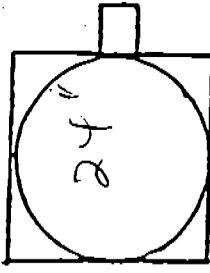
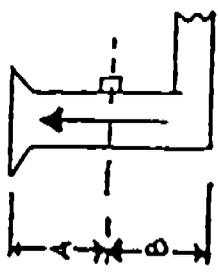
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> ),		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>m</sub> ),	OUTLET (T <sub>m</sub> )		
2		20.9	0.05	0	52	.27		1.21	558.408	56	65	9	
3				2.5	48	.3		1.34	560.1	57	48		
4				5	47	.39		1.52	561.7	55	42		
5				7.5	51	.83		1.48	563.7	61	55		
6				10	51	.81		1.38	565.6	61	56		
7				12.5	52	.27		1.28	566.9	62	55		
8				15	52	.27		1.28	568.2	62	55		
9				12.5	53	.27		1.37	569.7	63	55		
10				20	53	.31		1.38	571.1	63	56		
11				21.5	53	.33		1.48	572.4	64	56		
12				25	54	.36		1.71	574.2	64	57	12	
13				27.5	54	.37		1.75	576.0	65	57		
ZERO SPAN				20.0 (9.41)					577.2-15				
AVERAGE		20.9	0.05	6.0	50.9		0.552	1.390	379.75	56.2			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.

COMMENTS: PURGE 4.47

PLANT: Cerium Line  
 LOCATION: Harwood  
 COUNTY: Van D.  
 UNIT: 1st Clean  
 DATE: 11/21/10  
 RUN NO/METHOD: 111910  
 COLD BOX NO.: 1  
 METER BOX NO.: 13  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 34/0.874  
 PYROMETER #: 120  
 MAGNEHELIC FACTOR:  $\Delta P$  1.20  $\Delta H$  0.97



FILTER NO. H15 H16, I-8  
 AMBIENT TEMP.: 42  
 BAROMETRIC PRESS., IN. HG.: 30.28  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 0.5 F  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240  
 PROBE HEATER SETTING: 0.5 F  
 APPROX. WIND VEL., MPH: Calu  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: -0.11 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 (in) (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (TM), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET	OUTLET		
1				0.25	50	0.35		1.56	577.4	55	55	15	
2				5	52	0.37		1.65	579.1	54	54		
3				20	53	0.39		1.74	580.8	54	54	16	
4				10	54	0.36		1.6	582.6	54	54		
5				12.5	57	0.24		1.07	584.4	54	54		
6				15	58	0.25		1.12	586.0	55	55		
7				17.5	54	0.27		1.21	587.3	56	56		
8				20	60	0.28		1.25	588.9	56	56		
9				22.5	60	0.28		1.25	590.5	57	57		
10				25	60	0.28		1.25	591.9	58	58		
11				22.5	61	0.28		1.25	593.1	59	59		
12				20	61	0.26		1.16	594.2	60	60		
13									595.6				
AVERAGE													

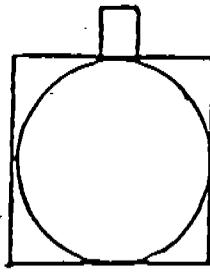
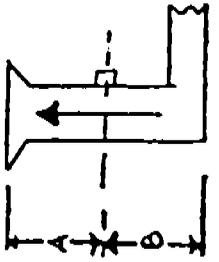
PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 0.003 IN. HG.  
 AFTER: CRM@ 0.002 IN. HG.

COMMENTS: PURGE 497

MOTES  
CYCLONE

237



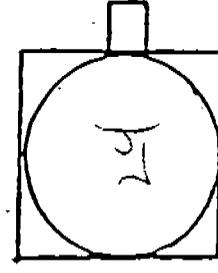
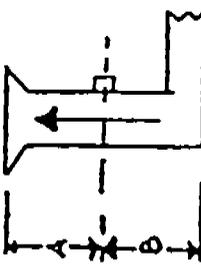
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 1/9/91  
 RUN NO./METHOD: 2. Wind speed  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		20.1	0.05	10.0	54	0.76		1.16	595.6	64	63		
2				25	70	0.76		1.16	597.0	66	62		
3				5	79	0.78		1.25	598.8	67	62		
4				25	70	0.79		1.25	600.5	68	62		
5				10	72	0.77		1.21	601.8	69	62		
6				12.5	74	0.25		1.12	603.1	70	63		
7				5	77	0.21		1.07	604.4	70	63		
8				12.5	77	0.29		1.30	605.6	71	64		
9				20	78	0.24		1.27	607.3	72	64		
10				22.5	77	0.26		1.01	609.2	72	63		
11				0.5	76	0.39		1.74	610.5	72	63		
12				22.5	73	0.39		1.74	612.4	72	63		
13	ZERO SPAN			(10.37)					613.6				
AVERAGE		20.9	0.05	20	69.5		0.578	1.353	36.202	61.9			

PITOT LEAK CHECK: BEFORE: \_\_\_\_\_ TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: \_\_\_\_\_ TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ IN. HG. AFTER: \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Coca Cola  
 LOCATION: Harvard  
 COUNTY: Knox  
 UNIT: Plant Operator  
 DATE: 12/19/91  
 RUN NO/METHOD: 35 YIELD  
 COLD BOX NO.: 4  
 METER BOX NO.: 6  
 METER FACTOR: 0.9986  
 PITOT #/FACTOR: 0.9701 #1  
 PYROMETER #: 17  
 MAGNEHELIC FACTOR:  $\Delta P$  (%)  $\Delta H$  (%)

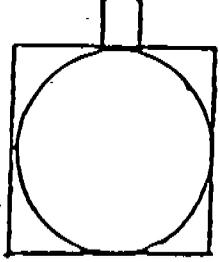
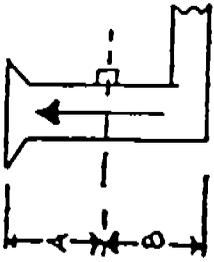


FILTER NO. H17, H18, I-9  
 AMBIENT TEMP.: 45  
 BARAMETRIC PRESS., IN. HG.: 30.25  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.210  
 PROBE HEATER SETTING: 2  
 APPROX. WIND VEL, MPH: Calen  
 SAMPLE BOX TEMP., (F): ---  
 STATIC PRESSURE: -0.11 °H2O  
 OFFSET: 9 in. PORT DIA.: 2 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm)	OUTLET (Tm)		
1		21.9	0.05	1119	51	0.31		1.39	613.75	62	62	11	
2				305	55	0.28		1.25	615.4	64	62		
3				3	48	0.32		1.43	617.0	65	61		
4				15	47	0.31		1.44	618.5	66	61		
5				10	46	0.30		1.31	620.7	67	61		
6				12.5	53	0.26		1.25	621.5	68	62		
7				15	53	0.29		1.30	623.1	70	63		
8				12.5	52	0.28		1.25	624.7	72	64		
9				0.0	50	0.29		1.30	626.0	72	64		
10				22.5	51	0.24		1.07	627.8	74	65		
11				25	54	0.18		1.56	629.3	75	66	12	
12				27.5	52	0.37		1.65	631.2	75	67		
13				2.0					632.002				
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



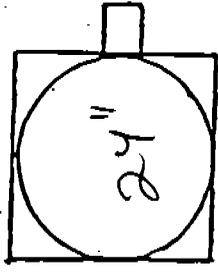
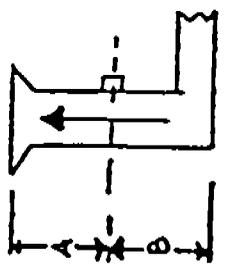
FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> )		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
				11:50	54	0.24	0.24	1.07	632.002	70	69		
				2:15	46	0.33	0.33	1.48	626.6	73	67		
				1:10	47	0.35	0.35	1.56	635.5	74	68		
				1:10	48	0.34	0.34	1.52	637.0	75	68		
				2:05	49	0.31	0.31	1.48	646.5	75	68		
				2:05	50	0.24	0.24	1.30	640.1	76	69		
				1:10	51	0.30	0.30	1.07	641.1	77	69		
				2:10	51	0.30	0.30	1.34	643.0	77	70		
				2:10	49	0.37	0.37	1.34	644.3	78	70		
				2:10	47	0.38	0.38	1.65	646.0	78	71		
				2:15	49	0.31	0.31	1.70	647.6	79	71		
				2:15	49	0.31	0.31	1.79	648.6	79	71		
				12:19					650.847				
AVERAGE					50.0			0.556	36.932	69.8			

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: CRM @ \_\_\_\_\_ IN. HG.  
 CRM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

OVERFLOW  
CYCLONE

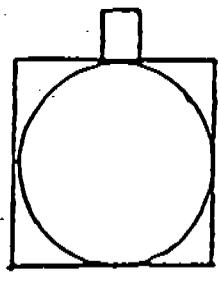
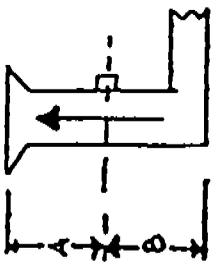
PLANT: County Line  
 LOCATION: Waverly  
 COUNTY: Klavis  
 UNIT: Ovenflow  
 DATE: 12/9/97  
 RUN NO/METHOD: 1-PM10  
 COLD BOX NO.: 13  
 METER BOX NO.: 09486  
 METER FACTOR: #4-0.874  
 PITOT #/FACTOR: 13  
 PYROMETER #: ΔPM3  
 MAGNEHELIC FACTOR: ΔHMY



FILTER NO. H19, H20, I-10  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 30.12  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: Carlin  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: ~0.09 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	2:03	82	0.23		1.81	651.03	63	63	13	
2				2:05	81	0.21		1.66	653.2	65	63		
3				5	80	0.20		1.57	655.0	66	63		
4				7:05	81	0.18		1.41	650.8	68	63		
5				10	81	0.16		1.25	656.2	69	63		
6				12:05	81	0.12		0.99	659.5	70	63		
7				15	79	0.10		0.79	661.2	71	64		
8				15:05	77	0.10		0.79	662.3	72	64		
9				20	74	0.11		0.86	669.5	73	65		
10				22:05	80	0.11		0.86	669.7	74	69		
11				25	78	0.11		0.86	662.8	73	69		
12				27:05	76	0.10		0.79	661.3	77	68		
13				30					668.10				
AVERAGE													
PITOT LEAK CHECK:													
BEFORE:						TOP ΔP =		BOTTOM ΔP =		SAMPLE TRAIN LEAK:			
AFTER:						TOP ΔP =		BOTTOM ΔP =		CRM@		IN. HG.	
						TOP ΔP =		BOTTOM ΔP =		CRM@		IN. HG.	
						TOP ΔP =		BOTTOM ΔP =		PURGE		7.86	
						TOP ΔP =		BOTTOM ΔP =		COMMENTS:			

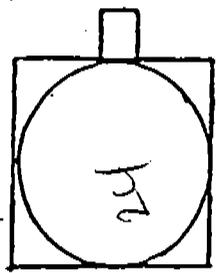
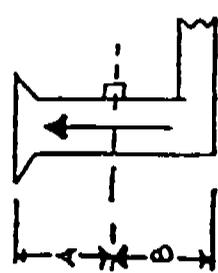
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/9/91  
 RUN NO./METHOD: 1 Pro 10 - Sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.4	0.05	2:43	76	0.14		1.10	6.68	74	69		
2				25	76	0.15		1.18	6.50	74	69		
3				5	80	0.16		1.26	6.71	75	69		
4				7.6	84	0.19		1.49	6.72	76	69		
5				10	89	0.16		1.26	6.74	76	69		
6				12.5	89	0.16		1.20	6.75	77	70		
7				15	79	0.14		1.10	6.77	77	70		
8				17.5	74	0.17		1.34	6.78	78	71		
9				20	75	0.19		1.49	6.80	79	71		
10				25	73	0.21		1.65	6.81	79	72		
11				25	75	0.20		1.57	6.87	80	72		
12				27.5	74	0.20		1.57	6.85	80	73		
13				30					6.86				
AVERAGE		20.4	0.05	60	19.2		0.185	1.274	35.359	70.5			

PITOT LEAK CHECK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 IN. HG. IN. HG.  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 IN. HG. IN. HG.  
 COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_



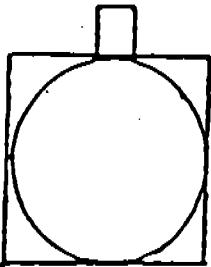
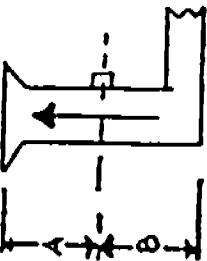
PLANT: Cowby Line  
 LOCATION: Horseshoe  
 COUNTY: Kings  
 UNIT: Overhead  
 DATE: 12/9/70  
 RUN NO./METHOD: 2.0M10  
 COLD BOX NO.: 11  
 METER BOX NO.: B  
 METER FACTOR: 0.9188  
 PITOT #/FACTOR: #9-0.604  
 PYROMETER #: 79  
 MAGNEHELIC FACTOR: ΔP M7 ΔH M19

FILTER NO. 121, H22, E11  
 AMBIENT TEMP.: 30  
 BAROMETRIC PRESS., IN. HG.: 30.09  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: Calen  
 APPROX. WIND VEL., MPH: 0  
 SAMPLE BOX TEMP., (F): 0.09 \*H2O  
 STATIC PRESSURE: 0.09 \*H2O  
 OFFSET: 0 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.8	0.02	319	75	0.2		1.65	686.903	68	68	15	
2				20	77	0.20		1.57	694.0	69	67		
3				5	77	0.18		1.41	690.8	69	67		
4				7.5	76	0.18		1.31	692.3	71	66		
5				10	76	0.19		1.19	694.0	71	66		
6				15	76	0.16		1.20	693.6	72	66		
7				12	76	0.12		0.94	697.0	73	67		
8				17.0	76	0.15		1.18	698.3	74	67		
9				20	76	0.17		1.34	694.6	74	67		
10				22.5	78	0.16		1.26	701.7	75	68		
11				25	73	0.16		1.26	702.6	75	68		
12				27.5	73	0.13		1.02	701.3	76	69		
13				30					705.338				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CFM @ \_\_\_\_\_ IN. HG.  
 AFTER: CFM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/19/91  
 RUN NO./METHOD: 2 PH10-5102  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

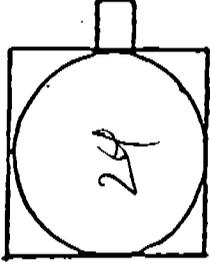
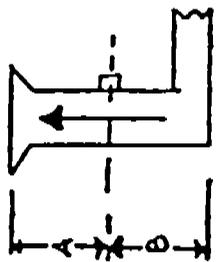
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	47.0	68	0.19		1.49	705.338	71	70		
2				25	69	0.18		1.41	707.5	73	69		
3				5	75	0.19		1.49	708.9	74	69		
4				2.5	76	0.18		1.41	710.4	74	69		
5				10	75	0.18		1.41	713.7	75	69		
6				2.2	74	0.14		1.10	713.6	75	69		
7				15	74	0.13		1.02	713.1	74	69		
8				17.5	74	0.19		1.10	716.5	74	70		
9				20	74	0.19		1.19	717.9	77	70		
10				22.5	74	0.21		1.65	720.0	77	70		
11				25	74	0.18		1.41	721.0	77	71		
12				27.2	74	0.13		1.02	721.1	77	71		
13	ZERO			30					723.75				
AVERAGE		20.9	0.05	(450)	74.5		0.197	1.325	76.812	76.1			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRMG @ \_\_\_\_\_ IN. HG.  
 AFTER: CRMG @ \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: County Line  
 LOCATION: Hanford  
 COUNTY: Kings  
 UNIT: Overflow  
 DATE: 12/9/91  
 RUN NO/METHOD: 3-PM10  
 COLD BOX NO.: 4  
 METER BOX NO.: 15  
 METER FACTOR: 0.9780  
 PITOT #/FACTOR: #4-0.8874  
 PYROMETER #: 13  
 MAGNEHELIC FACTOR: AP M3 ΔH M4

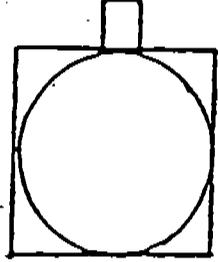
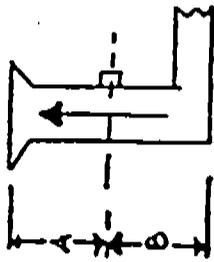


FILTER NO. H23, H24, I12  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 30.86  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.07 "H2O  
 OFFSET: 0 in. PORT DIA.: 3 in.

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts) F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm)	OUTLET (Tm)		
1		20.4	0.05	5:30	74	0.10		0.79	744.090	65	65	9	
2				3:5	73	0.15		1.18	725.9	66	64	9	
3				3	74	0.14		1.10	727.0	70	63		
4				2:5	76	0.14		1.10	728.4	71	64		
5				10	77	0.16		1.06	728.7	72	64		
6				12:5	77	0.16		1.26	731.2	73	65		
7				13	77	0.16		1.28	732.8	73	65		
8				12:3	77	0.21		1.65	734.9	74	66		
9				20	77	0.24		1.89	735.9	74	66		
10				20:5	76	0.27		2.12	738.0	74	67		
11				25	75	0.27		2.12	739.6	74	67		
12				22:5	74	0.18		1.41	742.1	74	68		
Average				20					742.933				

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_ AFTER: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: 0.003 CRM @ \_\_\_\_\_ IN. HG. AFTER: 0.003 CRM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/19/91  
 RUN NO/METHOD: 7870-95002  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

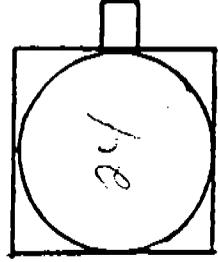
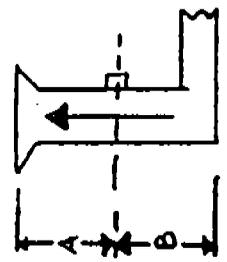


FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARMETRIC PRESS. IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL. MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ "H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm),		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET	OUTLET		
1		20.9	0.05	6.31	73	0.13		1.02	242.933	66	66		
2				25	73	0.13		1.02	242.933	67	67		
3				25	74	0.15		1.18	245.9	69	69		
4				10	75	0.16		1.41	247.5	70	64		
5				12.5	75	0.15		1.18	249.0	71	64		
6				15	74	0.12		0.94	251.0	71	64		
7				17.5	74	0.13		1.06	251.9	72	65		
8				20	74	0.17		1.34	253.2	72	65		
9				22.5	74	0.21		1.65	254.8	73	65		
10				25	74	0.24		2.04	256.5	73	66		
11				27.5	72	0.21		1.87	258.2	73	64		
12				30	72	0.23		1.81	260.1	73	64		
AVERAGE				(9.08)					245.57				
PITOT LEAK CHECK:								1.902	37.461				
BEFORE:													
AFTER:													
SAMPLE TRAIN LEAK:													
BEFORE:													
AFTER:													
COMMENTS:													

# 1 DRYING  
CYCLONE

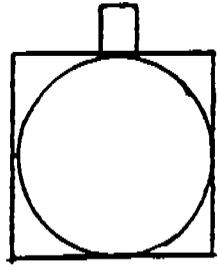
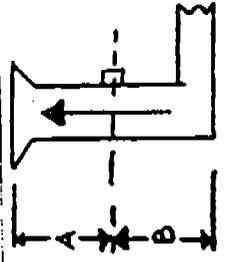
PLANT: County Road  
 LOCATION: Leatford  
 COUNTY: Kent  
 UNIT: 11/11/91  
 DATE: 1/11/91  
 RUN NO./METHOD: 1/11/16  
 COLD BOX NO.: 1  
 METER BOX NO.: B  
 METER FACTOR: 0.9986  
 PITOT #/FACTOR: 401-0.820  
 PYROMETER #: 73  
 MAGNETIC FACTOR: ΔP 0.13 ΔH 1.94



FILTER NO. H25, H26 - I (3)  
 AMBIENT TEMP.: 38  
 BAROMETRIC PRESS. IN. HG.: 29.10  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.371  
 PROBE HEATER SETTING: ON  
 APPROX. WIND VEL., MPH: calm  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: ~0.02 "H2O  
 OFFSET: 9 in. PORT DIA.: 2 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.05	7.39	92	0.10		1.92	761.902	40	40	15	
2				2.0	100	0.11		2.12	761.2	42	40		
3				5	100	0.11		2.12	761.1	42	40	14	
4				7.5	139	0.10		1.92	767.9	44	40		
5				10	140	0.09		1.72	761.5	43	40		
6				12.5	139	0.07		1.38	771.6	42	41		
7				15	148	0.07		1.32	772.0	42	41		
8				17.5	146	0.08		1.54	774.1	40	42		
9				20	137	0.09		1.72	775.8	41	43		
10				22.5	137	0.08		1.54	777.7	42	44		
11				25	134	0.08		1.54	779.4	43	45		
12				27.5	138	0.08		1.54	780.7	44	46		
AVERAGE				20					781.652				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE= 0.005 CFM@ \_\_\_\_\_ IN. HG.  
 AFTER= 0.005 CFM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

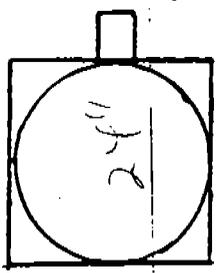
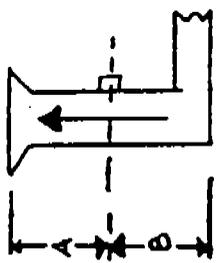


PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO./METHOD: 14410 Sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						AP	ΔAP			INLET (Tm),	OUTLET (TM)		
1		20.1	0.05	45.0	173	0.08		1.54	981.62	49	47		
2				25	178	0.10		1.92	792.9	50	46	17	
3				5	129	0.11		2.12	785.6	51	47		
4				5	126	0.11		2.12	787.3	51	47	19	
5				10	123	0.10		1.92	789.3	51	47		
6				12.5	121	0.10		1.92	791.4	52	47		
7				15	120	0.09		1.72	793.2	52	48		
8				17.5	120	0.08		1.54	794.5	53	48		
9				20	120	0.09		1.72	796.0	54	49		
10				22.5	120	0.10		1.92	797.6	54	49		
11				25	120	0.10		1.92	799.4	54	49		
12				27.5	118	0.11		2.12	801.2	54	50		
13	ZERO			30					803.503				
14	SPAN			18.52									
AVERAGE		20.1	0.05	60	126.9		0.304	1.784	40.601	47.3			

PITOT LEAK CHECK: BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE= \_\_\_\_\_ IN. HG. AFTER= \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

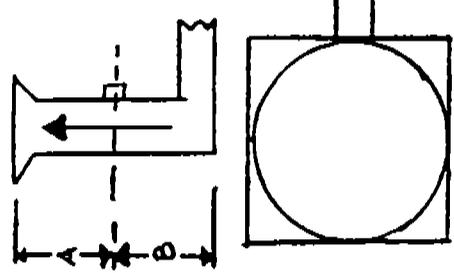


PLANT: Coastal City  
 LOCATION: 3400 S.W.  
 COUNTY: Polk  
 UNIT: 10121000  
 DATE: 11/16/96  
 RUN NO./METHOD: 1160  
 COLD BOX NO.: 11  
 METER BOX NO.: 12  
 METER FACTOR: 9.816  
 PITOT #/FACTOR: 14-0.879  
 PYBOMETER #: 13  
 MAGNEHELIC FACTOR:  $\Delta P$  14.7  $\Delta H$  14.4

FILTER NO.: 1427, 1126, F14  
 AMBIENT TEMP.: 70  
 BARAMETRIC PRESS., IN. HG.: 30.10  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: ON  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.225  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: Calm  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.02 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
		20.9	0.05	91.5	96	0.11		111.7	803.227	46	46		
				20	107	0.12		112.8	805.8	46	46	13	
				5	110	0.14		112.8	800.6	47	45		
				7.5	110	0.14		111.7	808.8	49	45		
				10	111	0.10		110.6	809.9	50	45		
				12.5	111	0.11		111.7	811.0	52	46		
				15	111	0.09		0.95	812.6	52	46		
				17.5	111	0.09		0.95	813.7	53	47		
				20	112	0.10		1.06	814.9	54	47		
				22.5	111	0.11		1.17	816.2	55	47	15	
				25	111	0.12		1.28	817.6	56	48		
				27.5	111	0.12		1.28	819.0	56	49		
				30					820.216				
AVERAGE													
PITOT LEAK CHECK:													
BEFORE: TOP ΔP= _____ BOTTOM ΔP= _____													
AFTER: TOP ΔP= _____ BOTTOM ΔP= _____													
SAMPLE TRAIN LEAK: CRMG@ _____ IN. HG. CRMG@ _____ IN. HG.													
COMMENTS: _____ PURGE _____													

PLANT: \_\_\_\_\_ FILTER NO. \_\_\_\_\_  
 LOCATION: \_\_\_\_\_ AMBIENT TEMP.: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 UNIT: \_\_\_\_\_ ASSUMED MOISTURE: \_\_\_\_\_  
 DATE: 12/10/97 HEATER BOX SETTING: \_\_\_\_\_  
 RUN NO./METHOD: 2. VVA10 - shed 2 PROBE LENGTH, FT.: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_ NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_ PROBE HEATER SETTING: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_ APPROX. WIND VEL., MPH: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_ SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_ STATIC PRESSURE: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $^{\circ}H_2O$  \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

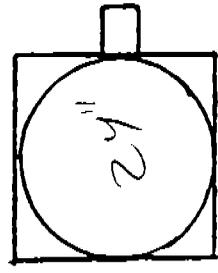
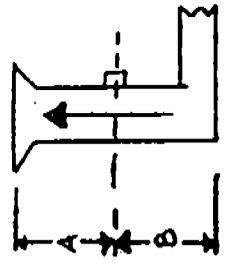


TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH)	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	10:40	115	0.06		0.18	820.2	52	52		
2				45	114	0.13		1.38	821.4	53	50	17	
3				5	115	0.14		1.49	822.1	54	50	AD	
4				7.5	115	0.15		1.58	824.9	55	50		
5				10	113	0.12		1.28	827.5	56	51		
6				12.5	113	0.12		1.28	829.1	57	51		
7				15	115	0.11		1.06	830.6	58	52		
8				17.5	117	0.11		1.17	831.9	59	52		
9				20	116	0.11		1.17	833.1	59	52		
10				22.5	117	0.12		1.28	834.7	60	54		
11				25	116	0.13		1.38	836.1	60	54		
12	ZERO SPAN			AD					837.6				
13				10:13					838.3				
AVERAGE		20.9	0.05	60	112.5		0.134	1.172	835.76	57.7			

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: IN. HG. \_\_\_\_\_ AFTER: IN. HG. \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

525

PLANT: Coumbyline  
 LOCATION: Vanessa  
 COUNTY: Yuma  
 UNIT: 1000  
 DATE: 12/10/97  
 RUN NO./METHOD: 23 PM10  
 COLD BOX NO.: 4  
 METER BOX NO.: 12  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 44.0174  
 PYROMETER #: 13  
 MAGNETIC FACTOR:  $\Delta P$  12.7  $\Delta H$  1.11

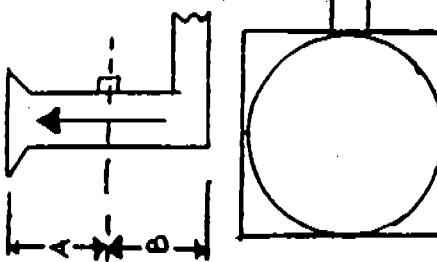


FILTER NO. H29, H30, J15  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 30.04  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.325  
 PROBE HEATER SETTING: 5  
 APPROX. WIND VEL., MPH: calm  
 SAMPLE BOX TEMP., (F): 5  
 STATIC PRESSURE: -0.02 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm), (TM)	OUTLET (TM)		
1		7.89	0.15	12:04	13	0.14	0.14	1.48	829.003	52	52	14	
2				2:27	18	0.14	0.14	1.48	841.0	54	51		
3				5	18	0.14	0.14	1.48	842.6	55	51		
4				7:5	16	0.13	0.13	1.53	844.3	56	51		
5				10	14	0.12	0.12	1.42	846.5	58	52		
6				12:17	15	0.09	0.09	1.06	849.4	59	52		
7				15	14	0.13	0.13	1.55	849.3	60	53		
8				17:5	17	0.11	0.11	1.31	850.6	61	53		
9				20	17	0.11	0.11	1.31	853.1	62	54		
10				27:2	12.1	0.17	0.17	1.42	853.7	67	55		
11				28	17.3	0.11	0.11	1.31	855.0	64	56		
12				27:5	12.2	0.10	0.10	1.30	856.6	65	57		
13				30	10				857.66				
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE = 0.007 IN. HG. AFTER = 0.003 IN. HG.  
 COMMENTS: \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO./METHOD: 2, Pyro Sketch  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

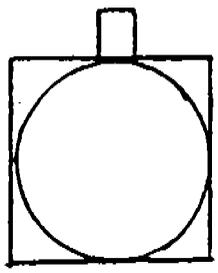
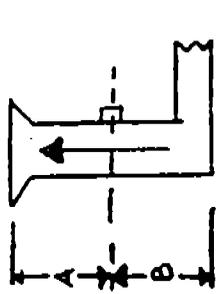


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $^{\circ}H_2O$  \_\_\_\_\_ in. (M / F)  
 PORT DIA.: \_\_\_\_\_ in.

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm), (TM)	OUTLET (TM)		
0		20.6	0.05	17:41	117	0.14		1.68	852.6	60	60	19	
1				25	126	0.12		1.42	459.7	62	58		
2				9	127	0.13		1.55	461.3	63	58		
3				25	124	0.11		1.21	463.0	64	58		
4				10	125	0.10		1.20	461.5	64	59		
5				12.1	125	0.10		1.20	465.4	65	59		
6				15	124	0.09		1.08	467.6	66	59		
7				17.5	124	0.10		1.20	469.0	67	60		
8				20	121	0.14		1.68	470.2	67	60		
9				22.5	124	0.13		1.55	471.7	67	60		
10				25	111	0.14		1.66	471.2	68	61		
11				27.5	120	0.13		1.55	474.9	68	61		
12	ZERO			17.0					470.3				
13	SPAN			17.0									
AVERAGE		20.9	0.05	60	121.1		0.345	1.429	373.06	59.2			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 AFTER: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CFM@ \_\_\_\_\_ IN. HG.  
 AFTER: CFM@ \_\_\_\_\_ IN. HG.

GIN STAND TRASH  
CYCLONE



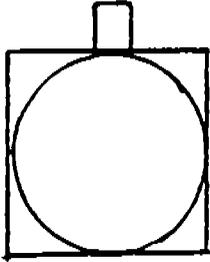
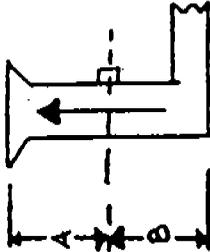
PLANT: Country Club  
 LOCATION: Hillsford  
 COUNTY: Wings  
 UNIT: 2015 2140 TRK  
 DATE: 12/10/01  
 RUN NO./METHOD: 1/240  
 COLD BOX NO.: 1  
 METER BOX NO.: 13  
 METER FACTOR: 0.9966  
 PITOT #/FACTOR: 23/0.989  
 PYROMETER #: 77  
 MAGNEHELIC FACTOR:  $\Delta P$  0.007  $\Delta H$  M

FILTER NO. H31, H32, I 16  
 AMBIENT TEMP.: 150  
 BAROMETRIC PRESS., IN. HG.: 29.97  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.262  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: Calen  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.09 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm)	OUTLET (TM)		
					110	0.30		170	476.822	55	55	12	
				15	73	0.30		170	579.1	56	54		
				5	72	0.29		165	550.1	57	54		
				7	71	0.27		152	582.5	59	54		
				10	70	0.22		123	581.0	60	54		
				12	70	0.16		0.90	585.5	61	54		
				15	70	0.14		0.79	586.4	62	55		
				17	72	0.14		0.79	588.3	64	56		
				20	72	0.15		0.85	580.0	64	56		
				23	71	0.15		0.85	580.2	66	56		
				25	71	0.14		0.79	591.2	66	57		
				27	71	0.13		0.73	592.5	67	58		
				30	70				593.2				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 0.005 IN. HG. 15  
 AFTER: CRM@ 0.005 IN. HG. 12  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

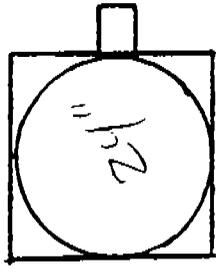
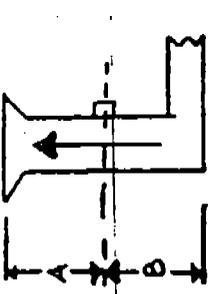


FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in. (M / F)  
 PORT DIA.: \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1				2.5	70	0.21	0.22	1.20	893.312	62	61		
				5	70	0.19	0.19	1.08	845.0	63	60		
				10	73	0.19	0.19	1.20	897.0	67	60		
				10	71	0.18	0.18	1.08	898.1	67	60		
				10	73	0.15	0.15	1.01	899.2	68	60		
				15	71	0.16	0.16	0.82	900.7	68	61		
				20	70	0.16	0.16	0.60	902.9	69	61		
				20	70	0.20	0.20	1.13	904.1	70	62		
				20	70	0.22	0.22	1.23	905.4	70	63		
				20	70	0.24	0.24	1.35	906.8	71	63		
				20	70	0.25	0.25	1.42	907.1	71	63		
				20	71	0.24	0.24	1.25	909.9	71	64		
				20	71	0.24	0.24		918.612				
AVERAGE				60	71.4		0.445	1.138	32.790	66.6			

PITOT LEAK CHECK:

BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE \_\_\_\_\_



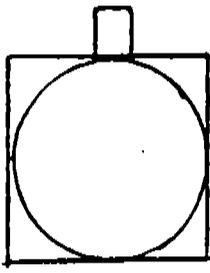
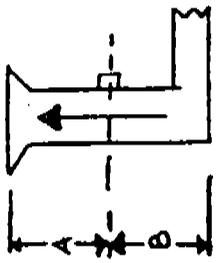
PLANT:                       
 LOCATION:                       
 COUNTY:                       
 UNIT:                       
 DATE:                       
 RUN NO./METHOD:                       
 COLD BOX NO.:                       
 METER BOX NO.:                       
 METER FACTOR:                       
 PITOT #/FACTOR:                       
 PYROMETER #:                       
 MAGNETIC FACTOR:  $\Delta P$                        $\Delta H$                      

FILTER NO. 614, 620, F17  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 29.92  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.262  
 PROBE HEATER SETTING:                       
 APPROX. WIND VEL., MPH:                       
 SAMPLE BOX TEMP., (F):                       
 STATIC PRESSURE: -0.09 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1				4:30	69	0.30		1.70	909.803	57	57	19	
2				20	69	0.28		1.80	911.9	57	56		
3				5	71	0.26		1.88	913.5	56	56		
4				70	71	0.24		1.35	915.4	60	56		
5				10	71	0.170		1.13	917.0	61	56		
6				12.5	70	0.15		0.85	918.6	62	56		
7				15	71	0.13		0.93	919.4	63	56		
8				12.5	71	0.16		0.90	920.7	64	55		
9				20	70	0.16		0.90	921.7	65	57		
10				20	71	0.15		0.85	922.8	66	58		
11				15	71	0.13		0.73	924.1	66	58		
12				22.5	71	0.14		0.80	925.7	67	59		
	ZERO			20					926.062				
	SPAN												

PITOT LEAK CHECK: BEFORE: TOP  $\Delta P$  =                      BOTTOM  $\Delta P$  =                       
 AFTER: TOP  $\Delta P$  =                      BOTTOM  $\Delta P$  =                       
 SAMPLE TRAIN LEAK: BEFORE = 0.003 CRMG @ 15 IN. HG.  
 AFTER = 0.003 CRMG @ 19 IN. HG.  
 COMMENTS: PURGE

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $^{\circ}$ H<sub>2</sub>O  
 PORT DIA.: \_\_\_\_\_ in. (M / F)

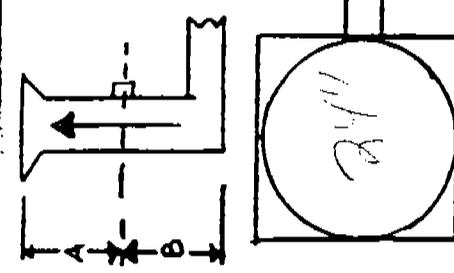
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts) F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT. <sup>3</sup>	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						AP	ΔP			INLET (Tm),	OUTLET (Tm)		
		REF	UNC	5:06	67	0.19		1.08	926.002	62	62		
				2.5	71	0.20		1.13	929.7	65	60		
				3	71	0.21		1.20	929.5	67	60		
				2.5	71	0.19		1.08	930.6	67	60		
				10	71	0.17		0.96	931.9	67	61		
				10	71	0.15		0.85	931.5	68	61		
				15	71	0.16		0.90	931.4	69	61		
				10	71	0.18		1.02	935.3	69	61		
				10	72	0.21		1.20	934.9	69	62		
				14	73	0.22		1.25	929.6	69	62		
				26	72	0.24		1.35	940.0	70	63		
				20	70	0.23		1.30	941.4	70	63		
	ZERO			30					942.588				
	SPAN			(5:26)									
AVERAGE				40	70.7		0.1937	1.098	33.725	62.0			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: County Line  
 LOCATION: WABASH  
 COUNTY: Kent  
 UNIT: Coal Stove (Leak)  
 DATE: 11/19/70  
 RUN NO./METHOD: 11110  
 COLD BOX NO.: 1  
 METER BOX NO.: B  
 METER FACTOR: 0.9480  
 PITOT #/FACTOR: 1/0.874  
 PYROMETER #: 7  
 MAGNETIC FACTOR:  $\Delta P$  M33  $\Delta H$  M1



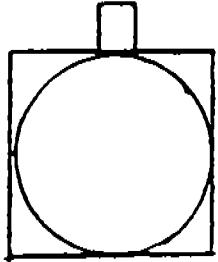
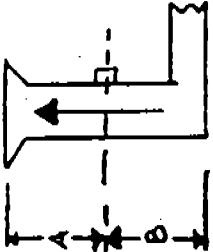
FILTER NO. 622627 IR  
 AMBIENT TEMP.: 45  
 BAROMETRIC PRESS., IN. HG.: 29.91  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.1262  
 PROBE HEATER SETTING: Calu  
 APPROX. WIND VEL., MPH: 5  
 SAMPLE BOX TEMP., (F): 5  
 STATIC PRESSURE: -0.18 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm)	OUTLET (Tm)		
1				610	67	0.20	0.28	1.70	942.713	58	58	13	
2				255	70	0.29	0.28	1.65	949.9	59	59		
3				5	70	0.28	0.28	1.60	947.2	60	57		
4				70	70	0.26	0.26	1.45	946.3	61	57		
5				10	70	0.22	0.22	1.25	949.7	62	57		
6				15	72	0.17	0.17	0.96	951.5	63	55		
7				170	72	0.16	0.16	0.90	952.6	64	57		
8				20	70	0.15	0.15	0.85	954.3	65	57		
9				200	70	0.16	0.16	0.90	955.2	66	58		
10				25	71	0.15	0.15	0.85	956.3	66	58		
11				225	69	0.13	0.13	0.73	957.6	67	59		
12				20	69	0.13	0.13	0.73	958.7	68	59		
13				20	70				959.511				
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_ AFTER: TOP ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE= 0.005 CFM@ 15 IN. HG. AFTER= 0.005 CFM@ 13 IN. HG.

COMMENTS: PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/17/87  
 RUN NO./METHOD: 2111 5622  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ "H<sub>2</sub>O"  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

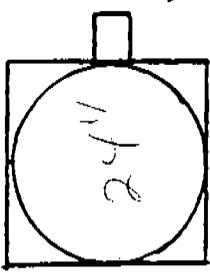
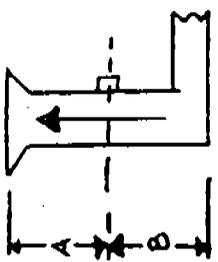
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
				69	0.17		0.96	959.511	63	62			
				70	0.19		1.05	961.11	65	60			
				71	0.19		1.05	962.9	67	60			
				71	0.17		0.96	964.2	67	60			
				70	0.17		0.96	965.1	68	61			
				70	0.15		0.85	966.5	68	61			
				70	0.16		0.90	967.6	68	61			
				71	0.18		1.01	968.8	69	61			
				71	0.21		1.18	970.4	69	62			
				70	0.23		1.30	971.7	69	63			
				70	0.24		1.33	973.0	70	63			
				69	0.24		1.33	974.5	70	63			
ZERO				3.0				975.795					
SPAN				12.1									
AVERAGE				60	70.0		0.44	33032	62.5				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

BATTERY CONDENSER  
CYCLONE



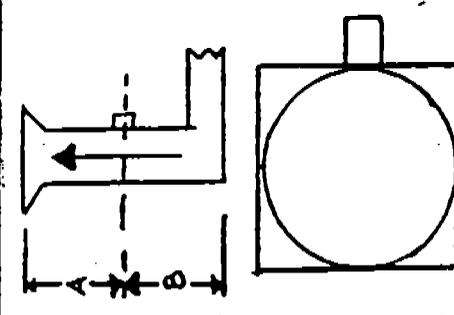
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO. 629163 1577  
 AMBIENT TEMP.: 46  
 BAROMETRIC PRESS., IN. HG.: 29.84  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 2.4  
 PROBE HEATER SETTING: 5  
 APPROX. WIND VEL., MPH: Calcu  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: -0.18 "H<sub>2</sub>O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		0.69	0.05	70	61	0.96		1.55	976.002	47	43		
2				70	62	0.46		1.70	979.7	47	43		
3				70	62	0.49		1.72	991.3	47	43		
4				70	61	0.40		1.72	962.7	47	43		
5				70	61	0.23		0.20	984.7	51	42		
6				70	61	0.24		0.20	975.6	52	49		
7				70	61	0.27		0.42	986.5	52	45		
8				70	61	0.29		0.45	978.1	53	46		
9				70	61	0.20		1.00	970.9	56	47		
10				70	61	0.22		0.47	980.0	57	47		
11				70	61	0.25		0.45	991.1	57	48		
12				70	61	0.25			992.105				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE = 0.005 CFM @ \_\_\_\_\_ IN. HG.  
 AFTER = 0.005 CFM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_ FILTER NO. \_\_\_\_\_  
 LOCATION: \_\_\_\_\_ AMBIENT TEMP.: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 UNIT: \_\_\_\_\_ ASSUMED MOISTURE: \_\_\_\_\_  
 DATE: 12/11/91 HEATER BOX SETTING: \_\_\_\_\_  
 RUN NO./METHOD: 1 PM Start 2 PROBE LENGTH, FT.: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_ NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_ PROBE HEATER SETTING: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_ APPROX. WIND VEL., MPH: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_ SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_ STATIC PRESSURE: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_ PORT DIA.: \_\_\_\_\_ in. (M / F)



TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	7.740	57	0.37		1.05	992.105	53	51		
2				2.5	60	0.34		1.15	999.0	60	51		
3				5	61	0.36		1.21	995.3	61	52		
4				2.5	61	0.38		1.29	996.5	61	52		
5				10	61	0.33		1.12	998.1	62	53		
6				12.5	60	0.28		0.95	999.5	62	54		
7				15	61	0.26		0.87	1001.5	63	55		
8				17.0	61	0.22		1.08	1002.1	63	55		
9				20	62	0.36		1.20	1003.1	64	55		
10				22.5	61	0.40		1.35	1004.7	64	56		
11				25	61	0.42		1.40	1006.2	64	56		
12				27.0	61	0.42		1.40	1007.8	64	57		
13	ZERO			30					1008.916				
AVERAGE		20.9	0.05	60	60.5		0.579	1.141	33.914	52.8			

SAMPLE TRAIN LEAK:

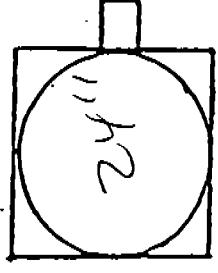
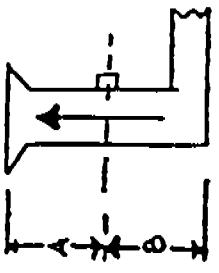
BEFORE: \_\_\_\_\_ IN. HG.  
 AFTER: \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_  
 CRM@ \_\_\_\_\_

COMMENTS: PURGE \_\_\_\_\_

PITOT LEAK CHECK:

BEFORE: TOP ΔP= \_\_\_\_\_  
 BOTTOM ΔP= \_\_\_\_\_  
 ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_  
 BOTTOM ΔP= \_\_\_\_\_  
 ΔP= \_\_\_\_\_

PLANT: County  
 LOCATION: Haverhill  
 COUNTY: VERMONT  
 UNIT: Patent Condenser  
 DATE: 12/11/91  
 RUN NO/METHOD: 2/1987  
 COLD BOX NO.: 1  
 METER BOX NO.: 13  
 METER FACTOR: 0.9466  
 PITOT #/FACTOR: 14-0.877  
 PYROMETER #: 73  
 MAGNEHELIC FACTOR: AP 0.93 AH 0.94



FILTER NO. 032/637 I-20  
 AMBIENT TEMP.: 45  
 BARAMETRIC PRESS., IN. HG.: 29.99  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.230  
 PROBE HEATER SETTING: 5  
 APPROX. WIND VEL., MPH: 0.02 m  
 SAMPLE BOX TEMP., (F): 5  
 STATIC PRESSURE: 0.18 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

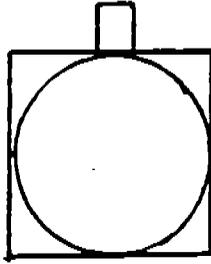
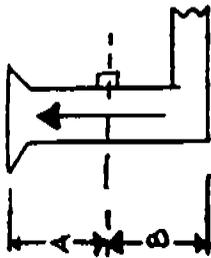
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		21.01	0.05	0.57	57	0.15	0.39	1.52	9.702	53	53	14	
2				2.5	60	0.14	0.37	1.50	12.0	54	53		
3				7.5	62	0.14	0.37	1.38	14.5	54	51		
4				10	62	0.13	0.36	1.29	15.0	56	51		
5				12	62	0.13	0.36	1.15	14.6	56	51		
6				17	62	0.12	0.35	0.82	7.6	57	51		
7				17	62	0.12	0.35	0.92	8.3	56	51		
8				17	62	0.12	0.35	0.94	20.0	56	51		
9				20	63	0.11	0.33	1.05	21.7	59	51		
10				22.5	62	0.13	0.37	1.12	21.8	61	52		
11				25	63	0.13	0.37	1.05	23.9	61	53		
12				29.2	62	0.13	0.37	0.76	25.1	62	54		
13				20	62	0.13	0.37		25.1	62	54		
AVERAGE									26.128				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: 0.005 CFM @ \_\_\_\_\_ IN. HG.  
 AFTER: 0.005 CFM @ \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/92  
 RUN NO./METHOD: 28110 51012  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

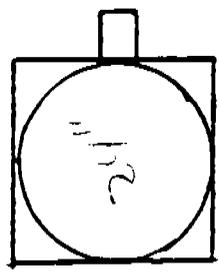
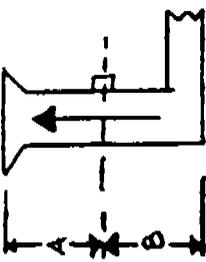


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta H$			INLET (Tm), (TM)	OUTLET (TM)		
1		20.1	0.05	9.13	58	0.32		1.08	26.128	58	58		
2				25	62	0.33		1.12	27.9	42	55		
3				5	69	0.35		1.18	29.4	63	56		
4				7.5	63	0.34		1.15	31.5	64	56		
5				10	61	0.32		1.08	32.2	64	56		
6				12.5	61	0.27		0.96	34.1	64	57		
7				15	62	0.26		0.82	34.7	65	57		
8				17.5	62	0.32		1.08	35.7	65	58		
9				20	63	0.34		1.15	37.2	66	58		
10				22.5	62	0.31		1.20	38.5	66	58		
11				25	63	0.42		1.41	39.8	66	59		
12				27.5	62	0.41		1.38	41.2	67	59		
13				30					42.702				
AVERAGE		20.1	0.06	60	61.8		0.578	1.135	33.000	67.8			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 AFTER: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Cummins Diesel  
 LOCATION: 116-557  
 COUNTY: Kings  
 UNIT: Whiteside  
 DATE: 7/11/91  
 RUN NO./METHOD: 3 VMA10  
 COLD BOX NO.: 4  
 METER BOX NO.: B  
 METER FACTOR: 0.9166  
 PITOT #/FACTOR: 381-0.874  
 PYROMETER #: 17  
 MAGNETIC FACTOR: AP 1.17 ΔH 1.14



FILTER NO. 641,643 I-21  
 AMBIENT TEMP.: 50.00  
 BAROMETRIC PRESS., IN. HG.: 30.00  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.230  
 PROBE HEATER SETTING: Calum  
 APPROX. WIND VEL., MPH: 5  
 SAMPLE BOX TEMP., (F): 5  
 STATIC PRESSURE: -0.118 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

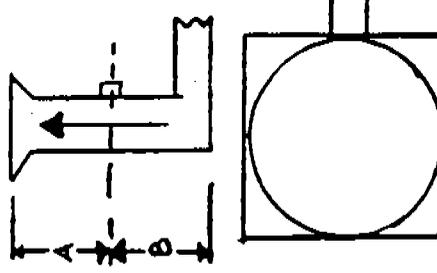
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.75	0.105	10.0	60	0.44	0.44	1.50	49.917	57	57	12	
2				2.5	60	0.43	0.43	1.43	49.2	59	55		
3				5	63	0.42	0.42	1.41	47.1	60	55		
4				7.5	66	0.41	0.41	1.38	48.0	61	55		
5				10	66	0.31	0.31	1.05	47.6	62	55		
6				12.5	69	0.26	0.26	0.82	51.0	64	57		
7				15	62	0.30	0.30	0.82	52.4	66	57		
8				17.5	67	0.31	0.31	1.00	53.4	67	58		
9				20	64	0.32	0.32	1.05	55.0	67	59		
10				22.5	65	0.30	0.30	1.08	56.0	68	60		
11				25	66	0.26	0.26	0.94	58.1	68	60		
12				27.5	66	0.26	0.26		59.2	68	61		
13				30					59.718				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE = 0.005 CRM@ 15 IN. HG.  
 AFTER = 0.005 CRM@ 12 IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/91  
 RUN NO./METHOD: 3 VMI0 S1002  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



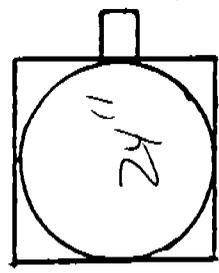
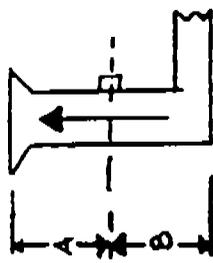
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.1	0.05	11:07	64	0.29		0.96	54.7	64	62		
2				25	64	0.32		1.08	61.6	66	61		
3				5	67	0.34		1.15	63.0	67	61		
4				35	68	0.34		1.15	64.2	68	60		
5				16	68	0.32		1.08	65.5	68	61		
6				12.5	69	0.27		0.92	66.9	69	61		
7				5	64	0.25		0.85	66.6	69	61		
8				17.5	64	0.40		1.33	69.6	69	61		
9				20	68	0.38		1.30	70.8	69	62		
10				22.5	69	0.42		1.41	72.7	70	62		
11				25	69	0.45		1.52	73.7	70	62		
12				22.5	68	0.44		1.50	73.5	70	63		
STOP	ZERO			30					76.7				
	SPAN			(11:37)									
AVERAGE		20.1	0.06	60	65.3		0.587	1.156	73.74	62.4			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE \_\_\_\_\_

#2 DRYING  
CYCLONE

PLANT: County Jail  
 LOCATION: Hanford  
 COUNTY: Kings  
 UNIT: #2 Dryline  
 DATE: 12/11/97  
 RUN NO./METHOD: 1-PM10  
 COLD BOX NO.: 1  
 METER BOX NO.: 16  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: #4-0.877  
 PYROMETER #: 13  
 MAGNETIC FACTOR:  $\Delta P$  1213  $\Delta H$  114



FILTER NO. 6521671, I72  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 30.00  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: -  
 APPROX. WIND VEL., MPH: Calm  
 SAMPLE BOX TEMP., (F): -  
 STATIC PRESSURE: -0.07 "H2O  
 OFFSET: 2 in. PORT DIA.: 3 in. (M/F)

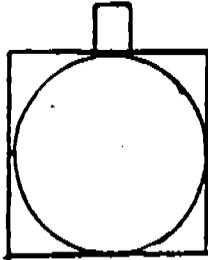
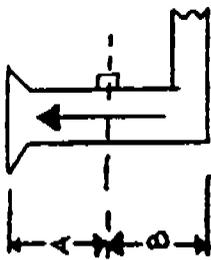
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔAP			INLET (Tm),	OUTLET (Tm)		
1		21.1	0.05	0.130	65	0.122		1.55	76.903	54	54		
2				15	66	0.20		1.4	79.1	54	54	11	
3				5	66	0.120		1.1	80.6	54	54		
4				7.5	66	0.18		1.09	81.7	54	54		
5				10	65	0.15		1.07	83.7	60	54		
6				12.5	66	0.11		0.8	84.8	61	54		
7				15	66	0.08		0.57	85.6	62	55		
8				17.5	74	0.09		0.57	86.9	63	55		
9				20	76	0.06		0.51	87.4	64	56		
10				25	75	0.08		0.57	88.7	66	58		
11				25	75	0.08		0.57	89.4	67	58		
12				27.5	75	0.07		0.50	90.3	67	58		
13				30					91.001				
ZERO													
SPAN													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE = 0.005 CRMG @ 15 IN. HG.  
 AFTER = 0.005 CRMG @ 11 IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Coventry Ltd  
 LOCATION: Hampson  
 COUNTY: Wilt  
 UNIT: #2 Gasing  
 DATE: 12/11/97  
 RUN NO./METHOD: 17410/Sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



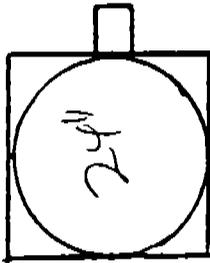
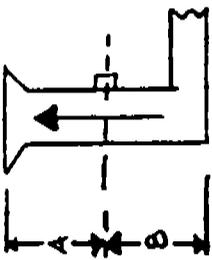
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH.: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  $^{\circ}H_2O$   
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm), (TM)	OUTLET (TM)		
1		20.9	0.02	119	0	0.09		0.67	91.004	63	62		
2				75	96	0.10		0.71	93.4	66	60		
3				75	96	0.10		0.71	94.8	67	60		
4				70	96	0.09		0.68	94.1	69	61		
5				125	96	0.08		0.57	97.0	69	61		
6				15	103	0.09		0.64	98.0	70	62		
7				170	103	0.11		0.88	98.9	70	62		
8				70	99	0.12		0.85	100.1	71	63		
9				25.5	97	0.14		1.00	100.9	71	63		
10				25	90	0.14		1.00	101.9	72	64		
11				27.5	88	0.15		1.07	103.5	72	64		
12	ZERO			30					104.730				
13	SPAN			9.99									
AVERAGE		20.9	0.05	68	81.9		0.139	0.841	27.827	61.9			

PITOT LEAK CHECK: BEFORE: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 AFTER: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: CFM@ \_\_\_\_\_ IN. HG. AFTER: CFM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

314

PLANT: Crossing Line  
 LOCATION: North Side  
 COUNTY: Kings  
 UNIT: #2 Oxy  
 DATE: 12/11/92  
 RUN NO./METHOD: 2-DMD  
 COLD BOX NO.: 1  
 METER BOX NO.: 13  
 METER FACTOR: 0.9486  
 PITOT #/FACTOR: 14-0.621  
 PYROMETER #: 17  
 MAGNETIC FACTOR: AP 57 ΔH M4



FILTER NO. 672167, 6120  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 29.98  
 ASSUMED MOISTURE: 3  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.313  
 PROBE HEATER SETTING: 5  
 APPROX. WIND VEL., MPH: Caldm  
 SAMPLE BOX TEMP., (F): 5  
 STATIC PRESSURE: -0.07 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

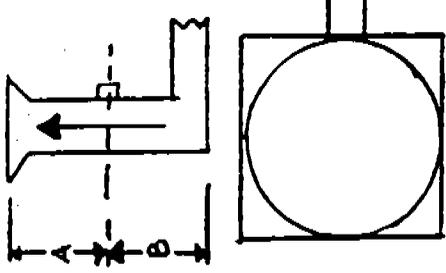
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (TM)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (TM)	OUTLET (TM)		
1		20.9	0.05	2:30	59	0.16		1.75	104.9	60	60	67	
2				2:5	98	0.16		1.75	107.5	61	59		
3				3	107	0.16		1.75	108.6	61	59		
4				7:5	112	0.15		1.63	110.2	61	59		
5				10	114	0.12		1.50	111.8	62	59		
6				12:5	115	0.16		1.10	113.6	63	59		
7				15	117	0.09		0.98	115.0	64	59		
8				17:0	119	0.08		0.88	115.9	64	59		
9				20	116	0.08		0.88	117.0	66	59		
10				22:0	113	0.08		0.88	118.3	67	59		
11				25	107	0.08		0.88	119.9	68	60		
12				27:0	109	0.08		0.88	121.0	68	60		
13				30					121.5				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/11  
 RUN NO./METHOD: 2006/10/2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

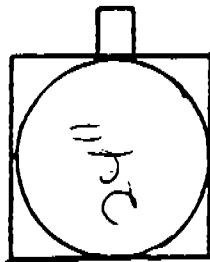
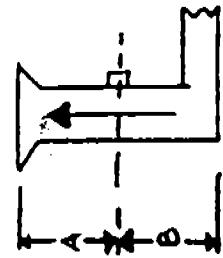


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ "H2O  
 OFFSET: \_\_\_\_\_ In. \_\_\_\_\_ In. ( M / F )  
 PORT DIA.: \_\_\_\_\_ In.

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔVAP			INLET (Tm),	OUTLET (Tm)		
1		21.5	20.5	306	95	0.07		0.77	121.505	64	64		
2				205	115	0.08		0.88	173.0	67	61		
3				5	119	0.08		0.88	124.7	67	61		
4				75	120	0.08		0.88	135.4	68	61		
5				10	121	0.09		0.88	126.8	69	62		
6				125	122	0.08		0.88	121.9	69	62		
7				15	122	0.09		0.98	129.0	70	62		
8				175	123	0.12		1.30	120.5	70	63		
9				20	124	0.14		1.22	122.7	71	63		
10				225	124	0.15		1.63	133.7	71	64		
11				26	124	0.17		1.85	135.1	71	64	19	
12				220	120	0.15		1.63	136.9	76	65		
13	ZERO			30					138.327				
14	SPAN			(3176)									
AVERAGE		20.1	20.5	160	1142			1.202	97.425	63.6			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ \_\_\_\_\_ IN. HG.  
 AFTER: CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_

PLANT: Cummins Line  
 LOCATION: Unit A-10  
 COUNTY: King  
 UNIT: #2 Drapery  
 DATE: 12/11/91  
 RUN NO./METHOD: 3 VM10  
 COLD BOX NO.: 4  
 METER BOX NO.: 10  
 METER FACTOR: 0.94480  
 PITOT #/FACTOR: #45 0.874  
 PYROMETER #: 13  
 MAGNETIC FACTOR: AP 0.874 AH 1.24

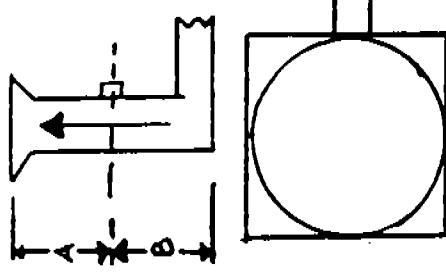


FILTER NO. 676, 684, 6126  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 29.98  
 ASSUMED MOISTURE: 3  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.313  
 PROBE HEATER SETTING: Calum  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.07 "H<sub>2</sub>O  
 OFFSET: 4 in. PORT DIA.: 3 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm)	OUTLET (TM)		
1		20.9	0.05	45	104	0.14		1.52	138.5	60	60	16	
2				25	104	0.15		1.63	141.7	60	59		
3				5	116	0.13		1.42	142.3	61	58		
4				7.5	116	0.12		1.30	143.9	62	58		
5				10	121	0.11		1.20	145.1	62	57		
6				12.5	125	0.09		0.96	146.9	64	58		
7				15	126	0.08		0.88	148.3	64	58		
8				17.5	122	0.09		0.98	149.9	66	58		
9				20	119	0.09		0.88	151.1	66	59		
10				22.5	121	0.10		1.10	152.0	67	60		
11				25	122	0.09		0.98	153.2	68	60		
12				27.5	123	0.08		0.88	154.4	68	60		
ZERO				30					155.5	62			
SPAN													
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE = 10 CRMG @ 15 IN. HG.  
 AFTER = 0.005 CRMG @ 16 IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/11  
 RUN NO./METHOD: 3 #16 sheet  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ "H2O  
 OFFSET: \_\_\_\_\_ in. \_\_\_\_\_ in. ( M / F )

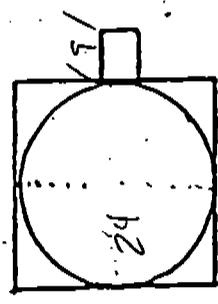
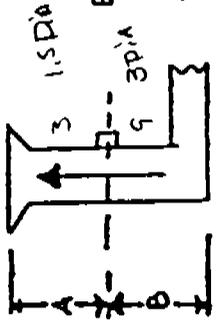
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						AP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		0.01	0.02	4:53 D	95	0.08	0.68	155.502	69	61			
2				25	117	0.09	0.98	157.1	60	61			
3				5	114	0.09	0.98	158.4	67	61			
4				72	117	0.09	0.98	159.6	68	61			
5				112	119	0.09	0.98	161.0	68	61			
6				162	122	0.08	0.88	162.5	69	62			
7				162	122	0.09	0.98	161.7	69	62			
8				172	122	0.12	1.30	164.9	70	62			
9				172	123	0.14	1.52	166.1	70	63			
10				175	123	0.15	1.63	167.8	70	63			
11				25	122	0.16	1.15	167.8	70	63			
12				227	118	0.16	1.75	171.4	70	64			
13	ZERO SPAN			30 (5:23)				172.625					
AVERAGE		0.01	0.02	60	117.6		0.327	11.86	79.08	63.9			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CFM@ \_\_\_\_\_ IN. HG.  
 AFTER: CFM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

TOTAL  
PARTICULATE

MOTES  
CYCLONE

PLANT: Chromia Line  
 LOCATION: HARBOR  
 COUNTY: King  
 UNIT: 1108  
 DATE: 12/8/91  
 RUN NO. METHOD: 115  
 COLD BOX NO.: 10  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/ FACTOR: #4 0.874  
 PYROMETER #: 73  
 MAGNETIC FACTOR: ΔP 1.00 ΔH 0.981  
 M-1 M-2



FILTER NO.: B-8  
 AMBIENT TEMP.: 46  
 BARAMETRIC PRESS., IN. HG.: 30.09  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #28 240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: None  
 SAMPLE BOX TEMP., (F): 0  
 STATIC PRESSURE: 107 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

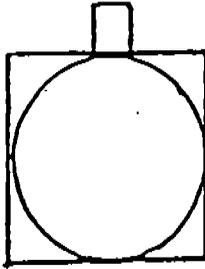
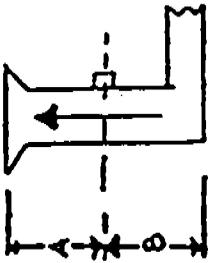
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	Y ΔP			INLET (T <sub>m</sub> ),	OUTLET (T <sub>m</sub> )		
1	0.5	20.7	0.05	9:23	52	.27	.4	4.20	354.333	54	54		
2	1.0			8:15	78	.28		1.25	300.8	54	54		
3	2.8			5	22	.32		1.42	307.2	55	54		
4	4.2			7:15	78	.29		1.29	309.0	55	54		
5	6.0			10	78	.27		1.27	310.5	56	56		
6	8.5			12:15	79	.23		1.03	312.3	57	56		
7	15.4			15	78	.22		0.98	315.1	57	57		
8	18.0			17:15	77	.23		1.03	314.4	61.58	57		
9	19.75			20	69	.30		1.33	316.2	62	61		
10	21.2			22:15	70	.36		1.6	317.2	62	61		
11	22.4			25	70	.37		1.63	319.1	62	61	2	
12	23.5			27:15	71	.36		1.60	320.7	63	62		
AVERAGE				10:30	65				322.143				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = .26 BOTTOM ΔP = .37  
 ΔP = .26 ΔP = .37  
 AFTER: TOP ΔP = .42 BOTTOM ΔP = .21  
 ΔP = .42 ΔP = .21

SAMPLE TRAIL LEAK:  
 BEFORE: CRM@ 10 IN. HG.  
 AFTER: CRM@ 15 IN. HG.

COMMENTS: PURGE 4.46

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: ADTS  
 DATE: 12/8/19  
 RUN NO./METHOD: 51-502-2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS. IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL. MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP. (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in. (M / F)  
 PORT DIA.: \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in. (M / F)

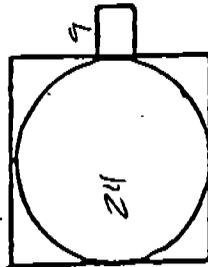
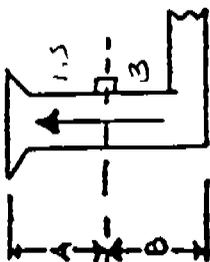
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm),		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	53	0.37	0.37	1.74	322.43	63	62	2	
2				2.5	53	0.36	0.36	1.69	323.8	64	63	1	
3				5	54	0.36	0.36	1.60	326.1	65	64		
4				7.5	53	0.34	0.34	1.51	327.3	64	64		
5				10	58	0.30	0.30	1.34	329.1	64	65		
6				12.5	61	0.22	0.22	1.03	350.9	65	64		
7				15	62	0.25	0.25	1.17	332.3	67	66		
8				17.5	64	0.27	0.27	1.26	333.5	66	64		
9				20	65	0.26	0.26	1.28	335.2	66	65		
10				22.5	81	0.23	0.23	1.07	336.4	67	66		
11				25	80	0.23	0.23	1.07	337.9	68	66		
12				27.5	87	0.22	0.22	1.03	339.4	67	66		
13				30	110				340.802				
ZERO													
SPAN													
AVERAGE		20.9	0.05	60	69.5		0.536	1.308	364.69	67.3			

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_ AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK: BEFORE: CRM @ \_\_\_\_\_ IN. HG. AFTER: CRM @ \_\_\_\_\_ IN. HG.

COMMENTS: PURGE \_\_\_\_\_ 4.46

PLANT: County Lin  
 LOCATION: HAROLD  
 COUNTY: 21-415  
 UNIT: 1006  
 DATE: 2/8/91  
 RUN NO./METHOD: 2/5  
 COLD BOX NO.: #9  
 METER BOX NO.: A  
 METER FACTOR: 0.986  
 PITOT #/FACTOR: 4/0.874  
 PYROMETER #: T3  
 MAGNETIC FACTOR:  $\Delta P$  M-1 1.00  $\Delta H$  M-2 0.981



FILTER NO. B-92  
 AMBIENT TEMP.: 53  
 BAROMETRIC PRESS. IN. HG.: 30.09  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #28 0.240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL. MPH: 0.0  
 SAMPLE BOX TEMP. (F): 0  
 STATIC PRESSURE: 1.09  $^{\circ}$ H2O  
 OFFSET: 7 in. PORT DIA.: 3 in. (O / F)

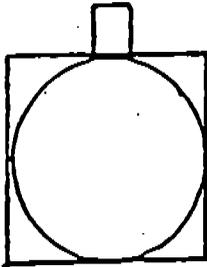
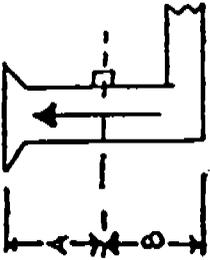
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts) F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm)	OUTLET (Tm)		
1		20.9	0.05	12.11	58	.41	.41	1.81	341.865	67	65		
2				2.5	60	.40	.40	1.76	343.5	66	65	3	
3				5	62	.39	.39	1.72	345.3	67	67		
4				7.5	60	.38	.38	1.54	346.2	68	66		
5				10	61	.32	.32	1.41	348.5	67	66		
6				12.5	60	.25	.25	1.10	350.2	66	66		
7				15	63	.23	.23	1.02	351.4	67	66		
8				17.5	61	.26	.26	1.15	352.7	67	66		
9				20	61	.25	.25	1.10	354.2	68	68		
10				22.5	63	.27	.27	1.19	355.3	68	67		
11				25	63	.23	.23	1.06	357.3	68	67		
12				27.5	60	.25	.25	1.10	358.5	69	67		
	ZERO			30					359.951				
	SPAN												
AVERAGE				12.41									

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = .18 BOTTOM  $\Delta P$  = .41  
 AFTER: TOP  $\Delta P$  = .18 BOTTOM  $\Delta P$  = .41

SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 0.007 IN. HG.  
 AFTER: CRM@ 0.019 IN. HG.

COMMENTS: PURGE 4.41

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: MOB  
 DATE: 12/8/91  
 RUN NO./METHOD: 2/M.S.  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

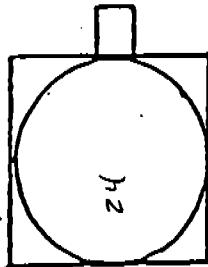
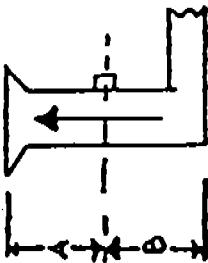


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ In. PORT DIA.: \_\_\_\_\_ In. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT. (VM) (STP)	GAS SAMPLE TEMP. & DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.4	0.05	0	60	.42		1.85	358.8	71	69	10	
2				2.5	60	.38		1.72	362.0	72	68		
3				5	60	.87		1.63	364.2	70	69		
4				7.5	63	.36		1.59	366.0	70	69		
5				10	62	.29		1.28	368.0	69	70		
6				12.5	61	.24		1.05	369.8	70	70	2	
7				15	61	.24		1.05	371.0	71	70		
8				17.5	66	.27		1.19	372.5	71	70		
9				20	64	.29		1.28	373.8	73	71		
10				22.5	64	.31		1.37	375.5	72	71		
11				25	65	.30		1.32	376.8	71	71		
12				27.5	64	.27		1.19	377.4	71	71		
	ZERO SPAN			30		1.23			380.127				
AVERAGE		20.4	0.05	60	61.8		0.553	1.353	38.762	68.2			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 AFTER: TOP  $\Delta P =$  \_\_\_\_\_ BOTTOM  $\Delta P =$  \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CFM @ \_\_\_\_\_ IN. HG.  
 AFTER: CFM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: PURGE 4.41

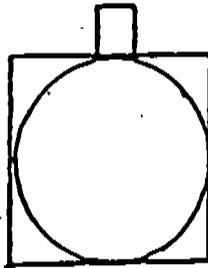
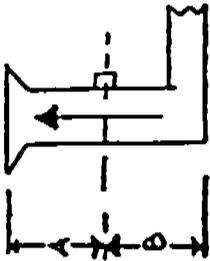
PLANT: Country Cove  
 LOCATION: Amesbury  
 COUNTY: Rockingham  
 UNIT: 11015  
 DATE: 12/8/91  
 RUN NO. METHOD: 3/5  
 COLD BOX NO.: 8  
 METER BOX NO.: A  
 METER FACTOR: 0.9886  
 PITOT # / FACTOR: 4 / 874  
 PYROMETER #: 75  
 MAGNETIC FACTOR:  $\Delta P$  1.1000  $\Delta H$  1.2  $\Delta T$  58



FILTER NO. R48  
 AMBIENT TEMP.: 55  
 BAROMETRIC PRESS. IN. HG.: 29.54  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: 0.00  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 1/8 246  
 PROBE HEATER SETTING: 0.00  
 APPROX. WIND VEL., MPH: 0.00  
 SAMPLE BOX TEMP., (F): 0.00  
 STATIC PRESSURE: 0.07 \*H2O  
 OFFSET: in. PORT DIA.: in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (TS), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ CRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔV			INLET (TM)	OUTLET (TM)		
1		20.9	0.05	2.17	79	0.37		1.74	381.200	68	68	3	
2				25	76	.4		1.78	382.7	68	69		
3				5	76	.39		1.74	384.5	69	69		
4				25	75	.35		1.56	386.8	69	69		
5				10	76	.29		1.29	388.5	69	69		
6				12.5	75	.21		0.93	389.9	69	69		
7				5	77	.23		1.03	391.2	69	69		
8				17.5	77	.25		1.12	392.5	69	69		
9				20	80	.26		1.16	394.1	70	68		
10				22.5	78	.25		1.12	395.4	71	69		
11				25	77	.24		1.07	396.8	71	70		
12				27.5	77	.22		0.98	398.2	71	70		
				30	71				400.035				
				2.47									
PITOT LEAK CHECK: BEFORE: TOP ΔP = <u>.12</u> BOTTOM ΔP = <u>.42</u> SAMPLE TRAIN LEAK: CRMO = <u>70</u> IN. HG. AFTER: TOP ΔP = <u>.12</u> BOTTOM ΔP = <u>.42</u> CRMO = <u>70</u> IN. HG.													
COMMENTS: PURGE <u>4.96</u>													

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: MOTEs  
 DATE: 12/8/91  
 RUN NO/METHOD: 3/5  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



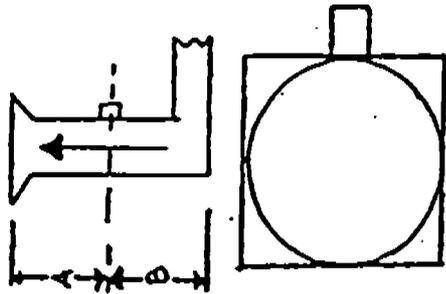
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN. <u>2:58</u>	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (TM),		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (TM),	OUTLET (TM)		
1		20.1	0.05	0	72	.25		1.12	400.035	68	68		
2				2.5	75	.27		1.20	401.6	67	63		
3				5	76	.30		1.34	402.8	74	74	3	
4				7.5	77	.32		1.43	404.6	74	73		
5				10	76	.31		1.58	406.0	72	75		
6				12.5	76	.31		1.68	408.5	73	72		
7				15	76	.28		1.25	409.6	72	73		
8				17.5	76	.27		1.20	411.2	74	72		
9				20	72	.22		.68	412.4	74	72		
10				22.5	79	.31		1.38	414.3	74	73		
11				25	80	.34		1.51	415.6	74	72		
12				27.5	82	.38		1.69	417.6	74	73		
	ZERO SPAN			30					419.182				
				32.5									
AVERAGE		20.9	0.05	180	76.8		0.559	1.308	37.982	70.6			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 CRM @ \_\_\_\_\_ IN. HG.  
 CRM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

SUCTION  
CYCLONE

PLANT: Country Club  
 LOCATION: Harford  
 COUNTY: King's  
 UNIT: Station  
 DATE: 12/8/91  
 RUN NO/METHOD: # 1/5  
 COLD BOX NO.: 1  
 METER BOX NO.: A  
 METER FACTOR: 0.9836  
 PITOT #/FACTOR: #4 0.874  
 PYROMETER #: 73  
 MAGNEHELC FACTOR: AP M-1.100 ΔHm-2.58

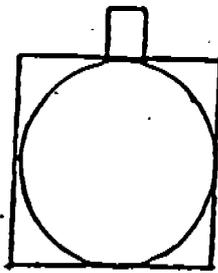
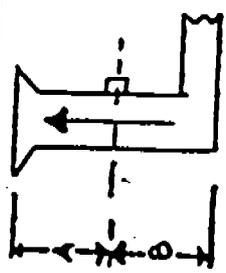


FILTER NO.: B-50  
 AMBIENT TEMP.: 58  
 BARAMETRIC PRESS., IN. HG.: 29.92  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #2 0.240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: Clear  
 SAMPLE BOX TEMP., (F): -  
 STATIC PRESSURE: -0.10 \*H2O  
 OFFSET: in. PORT DIA.: in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.4	0.05	0	58	0.3		1.38	419.845	67	69		
2				25	52	0.35		1.61	422.1	68	67		
3				5	53	0.35		1.61	423.6	68	67		
4				7.5	53	0.35		1.61	424.7	68	67		
5				10	53	0.3		1.38	426.7	68	68		
6				12.5	53	0.27		1.24	428.6	68	68		
7				15	53	0.35		1.61	430.2	68	68		
8				17.5	54	0.3		1.38	431.6	68	68		
9				20	54	0.3		1.38	433.0	69	68		
10				22.5	53	0.4		1.84	434.8	69	68		
11				25	54	0.4		1.84	436.3	70	68		
12				27.5	54	0.4		1.84	438.9	70	68		
AVERAGE				30	60				440.502		77.5		

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 2.7, BOTTOM ΔP = 3.2  
 AFTER: TOP ΔP = 2.7, BOTTOM ΔP = 3.2  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 0.007, IN. HG. 29  
 AFTER: CRM@ 0.002, IN. HG. 29  
 COMMENTS: PURGE 4.61

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Station  
 DATE: 12/8/91  
 RUN NO/METHOD: 1/MS  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ In. PORT DIA.: \_\_\_\_\_ In. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. & DRY GAS METER		PUMP VACUUM IN. HG	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		20.4	0.05	0	51	0.38	0.4	1.73	440.502	70	70		
2				2.5	57	0.42		1.91	442.9	71	70		
3				5	54	0.4		1.82	444.4	71	70		
4				7.5	55	0.36		1.64	446.7	70	70		
5				10	54	0.35		1.59	448.5	71	70		
6				12.5	51	0.25		1.14	452.2	71	70		
7				15	56	0.3		1.37	451.5	70	71		
8				17.5	54	0.3		1.37	453.1	70	71		
9				20	56	0.3		1.37	454.5	72	70		
10				22.5	55	HE		1.91	456.2	71	72		
11				25	55	6.3		1.37	457.6	72	71		
12				27.5	55	0.3		1.37	460.3	71	71		
	ZERO SPAN			30					462.157				
AVERAGE		20.4	0.05	60	57.0		0.581	1.535	442.312	68.5			

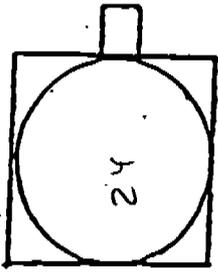
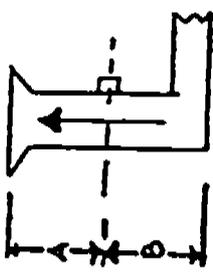
PITOT LEAK CHECK:  
 BEFORE: \_\_\_\_\_  
 AFTER: \_\_\_\_\_  
 TOP ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_  
 BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: \_\_\_\_\_  
 AFTER: \_\_\_\_\_  
 CFM @ \_\_\_\_\_  
 CFM @ \_\_\_\_\_  
 IN. HG. \_\_\_\_\_  
 IN. HG. \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_

299

PLANT: County Line  
 LOCATION: Harford  
 COUNTY: Tring  
 UNIT: Surber  
 DATE: 12/6/41  
 RUN NO/METHOD: Rm2/5  
 COLD BOX NO.: 9  
 METER BOX NO.: Δ  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 0.871  
 PYROMETER #: T3  
 MAGNETIC FACTOR: ΔP m-1 1.000 ΔH m-2 0.961

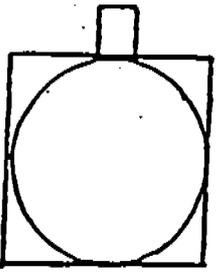
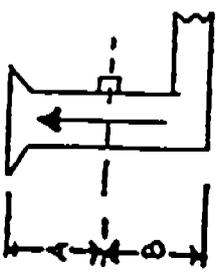


FILTER NO. B-54  
 AMBIENT TEMP.: 53  
 BAROMETRIC PRESS. IN. HG.: 29.97  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: #23 0.290  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL. MPH: 25.0  
 SAMPLE BOX TEMP. (F): -  
 STATIC PRESSURE: -0.12 \*H2O  
 OFFSET: 5 in. PORT DIA.: 3 in. (RD / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN. (6:30)	STACK TEMP. (Ts) F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm)	OUTLET (Tm)		
1		20.9	0.05	0	48	.35		1.57	465.472	67	68		
2				2.5	47	.35		1.54	467.2	66	68		
3				5	52	.4		1.82	468.9	67	68		
4				7.5	53	.4		1.82	470.7	67	67		
5				10	52	.35		1.64	472.3	66	66		
6				12.5	53	.25		1.14	474.5	66	66		
7				15	53	.25		1.61	475.9	65	66		
8				17.5	54	.3		1.38	477.0	66	65		
9				20	55	.35		1.61	478.7	66	65		
10				22.5	55	.35		1.61	480.9	66	65		
11				25	54	.37		1.70	482.3	66	65		
12				27.5	53	.3		1.38	484.0	66	65		
AVERAGE				30					485.780		67		
PITOT LEAK CHECK:													
BEFORE: TOP ΔP = 2.5 BOTTOM ΔP = 3.1													
AFTER: TOP ΔP = 2.5 ΔP = 3.1													
BEFORE: TOP ΔP = 1.7 BOTTOM ΔP = 3.0													
AFTER: TOP ΔP = 1.9 ΔP = 3.0													
SAMPLE TRAIN LEAK: BEFORE = 0.009 IN. HG. AFTER = 6.002 IN. HG.													
COMMENTS: PURGE													

330

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/8/94  
 RUN NO/METHOD: 2-Unit sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

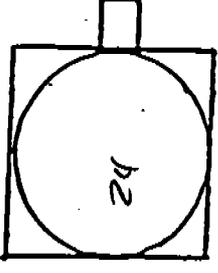
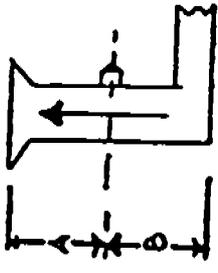


FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	1720	44	0.40		1.42	485.780	67	66		
2				25	44	0.40		1.91	487.5	67	66		
3				8	47	0.4		1.82	484.6	68	66		
4				20.5	47	0.4		1.82	490.4	68	66		
5				10	48	0.39		1.61	473.3	69	67		
6				25	49	0.3		1.38	474.6	68	67		
7				15	50	0.3		1.38	476.9	68	66		
8				17.5	50	0.4		1.82	478	68	67		
9				20	51	0.4		1.82	499.7	68	67		
10				22.5	60	0.4		1.82	501.6	68	67		
11				25	47	0.42		1.94	503.6	68	67		
12				27.5	60	0.4		1.82	505.3	68	67		
13				40					507.325				
AVERAGE		20.9	0.05		50.5				4185.3	66.7			

PITOT LEAK CHECK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 CRK@ \_\_\_\_\_ CRK@ \_\_\_\_\_  
 IN. HG. \_\_\_\_\_ IN. HG. \_\_\_\_\_  
 COMMENTS: PURGE 4.61

PLANT: Coum Line  
 LOCATION: Hoped  
 COUNTY: Kings  
 UNIT: Satin  
 DATE: 12/6/91  
 RUN NO/METHOD: 3/5  
 COLD BOX NO.: 8  
 METER BOX NO.: A  
 METER FACTOR: 9.856  
 PITOT #/FACTOR: 0/814  
 PYROMETER #: VS  
 MAGNETIC FACTOR: ΔPM-1 1000 ΔHM2 581

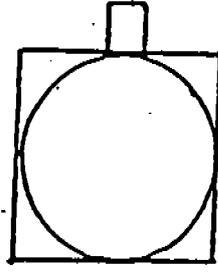
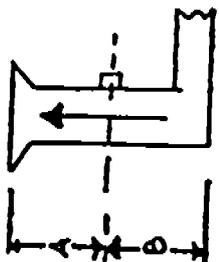


FILTER NO.: B-55  
 AMBIENT TEMP.: 72  
 BAROMETRIC PRESS., IN. HG.: 30.10  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: 2000 + Windy  
 SAMPLE BOX TEMP., (F): 18 Blue 175 so 160 170 180 190  
 STATIC PRESSURE: 210 "H2O  
 OFFSET: 7 in. PORT DIA.: 3 in. (M / Ⓟ)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	0	38	0.4	0.4	1.86	507.5	65	63		
2				2.5	47	0.4	0.4	1.86	509.2	64	64		
3				5	66	0.4	0.4	1.86	511.4	64	64		
4				7.5	67	0.35	0.35	1.63	513.9	64	64		
5				10	64	0.4	0.4	1.86	515.8	64	64		
6				12.5	65	0.25	0.25	1.17	516.8	64	64		
7				15	67	0.3	0.3	1.37	518.21	64	64		
8				17.5	56	0.35	0.35	1.63	519.6	64	64		
9				20	58	0.35	0.35	1.63	521.4	63	63		
10				22.5	53	0.35	0.35	1.63	523.0	65	64		
11				25	53	0.37	0.37	1.72	523.2	69	65		
12				27.5	54	0.35	0.35	1.63	526.9	66	64		
AVERAGE				30					528.982				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 25 BOTTOM ΔP = 32  
 AFTER: TOP ΔP = 23 BOTTOM ΔP = 32  
 SAMPLE TRAIN LEAK:  
 BEFORE: 0.003 CRM @ 10 IN. HG.  
 AFTER: 0.009 CRM @ 14 IN. HG.  
 COMMENTS: PURGE 4.66

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Subaru  
 DATE: 12/8/91  
 RUN NO/METHOD: 3/5  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

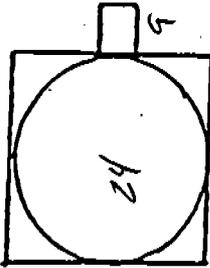
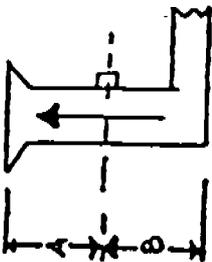


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PREASURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_  
 PORT DIA.: \_\_\_\_\_  
 IN. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> )		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		20.9	0.05	0	54	0.3		1.72	526.152	66	65		
2				25	60	0.2		0.93	530.0	66	65		
3				5	63	0.25		1.16	531.1	66	65		
4				7.5	65	0.3		1.14	532.9	66	65	2	
5				10	67	0.3		1.14	534.4	66	65		
6				12.5	68	0.3		1.14	536.2	66	65		
7				15	69	0.3		1.14	537.6	66	65	1	
8				17.5	69	0.35		1.63	537.9	67	65		
9				20	65	0.37		1.72	540.8	67	66		
10				22.5	65	0.4		1.86	542.0	67	66		
11				25	64	0.4		1.86	541.0	66	66		
21	ZERO			27.5	64	0.4		1.86	546.7	66	67		
	SPAN			30					547.552	67	66		
AVERAGE		20.9	0.05	9.47	60.7			1.584	40.377		64.9		
PITOT LEAK CHECK:													
BEFORE: TOP $\Delta P$ _____ BOTTOM $\Delta P$ _____													
AFTER: TOP $\Delta P$ _____ BOTTOM $\Delta P$ _____													
SAMPLE TRAIN LEAK: _____ IN. HG. _____ IN. HG.													
COMMENTS: _____ PURGE _____													

LINT CLEANER  
CYCLONE

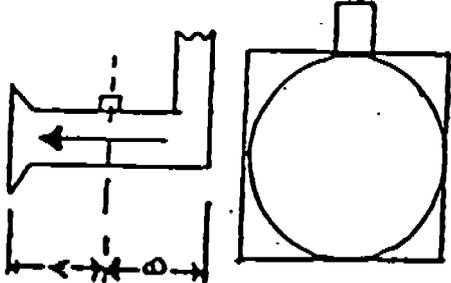
PLANT: Country Club  
 LOCATION: HANDS  
 COUNTY: King S  
 UNIT: West House  
 DATE: 12/9/91  
 RUN NO/METHOD: 1/5  
 COLD BOX NO.: 16  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 24 0.874  
 PYROMETER #: 13  
 MAGNETIC FACTOR: APM-1 1000 ΔH #2 581



FILTER NO. B-57  
 AMBIENT TEMP.: 38  
 BAROMETRIC PRESS., IN. HG.: 30.17  
 ASSUMED MOISTURE: 0.05  
 HEATER BOX SETTING: OFF  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.75 - 2410  
 PROBE HEATER SETTING: OFF  
 APPROX. WIND VEL., MPH: 0.11  
 SAMPLE BOX TEMP., (F): 0.11  
 STATIC PRESSURE: 0 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (10/18)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT. 3	GAS SAMPLE TEMP. @ DRY GAS METER (TM), °F		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET	OUTLET		
1		20.4	0.05	0	50	0.27		1.22	548.300	58	58		
2				2.5	47	0.3		1.34	550.6	56	57		
3				5	48	0.34		1.54	552.0	56	56		
4				7.5	48	0.33		1.49	553.3	56	56		
5				10	46	0.31		1.40	555.4	56	56		
6				12.5	48	0.27		1.22	557.2	56	66		
7				15	48	0.27		1.22	558.4	57	56		
8				17.5	48	0.29		1.31	559.8	58	57		
9				20	53	0.31		1.40	561.7	59	57		
10				22.5	52	0.33		1.47	562.8	58	59		
11				25	52	0.36		1.63	564.4	60	58		
12				27.5	50	0.37		1.68	566.1	60	58		
AVERAGE				30	55				567.932	60	58		
PITOT LEAK CHECK: BEFORE: TOP ΔP = <u>3.6</u> BOTTOM ΔP = <u>2.0</u> AFTER: TOP ΔP = <u>3.6</u> BOTTOM ΔP = <u>2.0</u> SAMPLE TRAIN LEAK: BEFORE = <u>0.005</u> CRM @ <u>1/5</u> IN. HG. AFTER = <u>0.005</u> CRM @ <u>5</u> IN. HG.													
COMMENTS:												PURGE <u>4.53</u>	

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: Line Clearance  
 DATE: 12/8/91  
 RUN NO/METHOD: 115  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

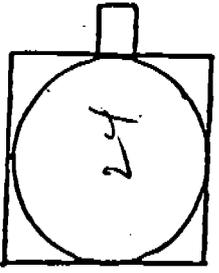
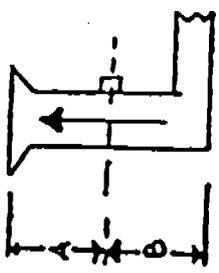


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta H_2O$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm), (IM)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET	OUTLET		
1		20.9	0.05	9:12	52	0.35		1.59	567.932	50	50	2	
2				0	48	0.37		1.68	569.7	60	55		
3				3	47	0.39		1.77	572.0	53	46		
4				7.5	51	0.36		1.63	573.5	62	61		
5				10	51	0.33		1.49	575.2	62	61		
6				12.5	52	0.29		1.09	576.7	62	61		
7				15	52	0.25		1.13	577.9	62	61		
8				17.5	53	0.27		1.22	579.4	63	61		
9				20	53	0.28		1.27	580.8	63	61		
10				22.5	53	0.28		1.27	582.5	63	62		
11				25	54	0.28		1.27	584.8	64	62		
12				27.5	54	0.28		1.18	586.3	64	62		
AVG				30	54	0.28			586.702				
AVERAGE		20.9	0.05	(8:43)	50.4			1.397	586.702	58.9			

PITOT LEAK CHECK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ AFTER: \_\_\_\_\_  
 IN. HG. \_\_\_\_\_ IN. HG. \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_

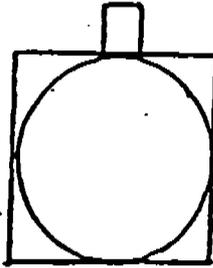
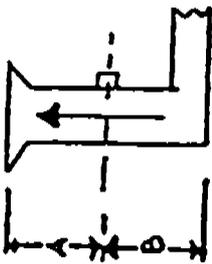
PLANT: County Line  
 LOCATION: Hess Creek  
 COUNTY: King  
 UNIT: Unit Cleaner  
 DATE: 12/9/91  
 RUN NO/METHOD: 1/5  
 COLD BOX NO.: 6  
 METER BOX NO.: A  
 METER FACTOR: 0.9850  
 PITOT #/FACTOR: 17/0.874  
 PYROMETER #: 17  
 MAGNETIC FACTOR: ΔP 1/4 ΔH MZ



FILTER NO. B-58  
 AMBIENT TEMP.: 42  
 BAROMETRIC PRESS., IN. HG.: 30.28  
 ASSUMED MOISTURE: 0  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240  
 PROBE HEATER SETTING: -  
 APPROX. WIND VEL., MPH: ... Calor  
 SAMPLE BOX TEMP., (F): ...  
 STATIC PRESSURE: 0.11 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ ORY GAS METER		PUMP VACUUM IN. HG	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.4	0.05	9:20	50	0.26	1.18	587.845	63	63			
2				2:5	52	0.26	1.18	589.3	63	63			
3				5	53	0.28	1.27	590.6	63	63			
4				7:5	56	0.28	1.27	592.7	64	63			
5				10	59	0.27	1.22	593.9	64	63			
6				12:5	57	0.25	1.13	573.2	65	63			
7				15	58	0.29	1.09	596.6	65	64			
8				1:5	58	0.29	1.21	598.0	66	64			
9				20	60	0.34	1.54	599.7	66	65			
10				22:0	60	0.36	1.03	601.1	67	65			
11				25	60	0.34	1.77	602.9	68	66	2		
12				28:0	61	0.34	1.17	604.5	68	66			
Average				30				604.502	68	66			
PITOT LEAK CHECK:													
BEFORE: TOP ΔP = <u>3.7</u> BOTTOM ΔP = <u>3.3</u> SAMPLE TRAIN LEAK: CRM@ <u>15</u> IN. HG.													
AFTER: TOP ΔP = <u>3.4</u> BOTTOM ΔP = <u>3.3</u> CRM@ <u>17</u> IN. HG.													
COMMENTS: <u>PURGE 4/53</u>													

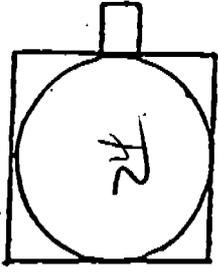
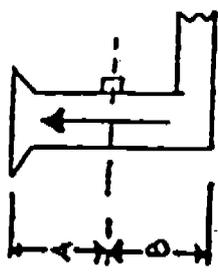
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/9/91  
 RUN NO./METHOD: 2/5-5  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH/FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_  
 PORT DIA.: \_\_\_\_\_  
 H<sub>2</sub>O \_\_\_\_\_  
 ( M / F ) \_\_\_\_\_

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY HEAD IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> ), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET	OUTLET		
1		20.9	0.05	10/70	54	0.31	0.31	1.40	606.502	70	68		
2				2.5	70	0.28	0.28	1.27	603.0	70	69		
3				5	69	0.32	0.32	1.45	609.7	71	70		
4				20	70	0.31	0.31	1.45	611.5	71	70		
5				10	72	0.30	0.30	1.36	612.8	71	70		
6				120	74	0.28	0.28	1.27	614.9	71	70		
7				15	77	0.29	0.29	1.21	615.9	71	70		
8				125	77	0.28	0.28	1.27	614.5	72	70		
9				20	78	0.29	0.29	1.31	619.1	72	70		
10				22.5	77	0.24	0.24	1.09	620.6	72	72		
11				15	76	0.26	0.26	1.59	622.0	73	71		
12				220	73	0.37	0.37	1.68	623.8	73	71		
13				30					625.538				
AVERAGE		20.9	0.05	60	69.5			1.365	37.693	72.6			
PITOT LEAK CHECK:													
BEFORE: TOP ΔP = _____ BOTTOM ΔP = _____													
AFTER: TOP ΔP = _____ BOTTOM ΔP = _____													
SAMPLE TRAIN LEAK: CRM@ _____ IN. HG. CRM@ _____ IN. HG.													
COMMENTS: _____ PURGE _____													

PLANT: Cummins  
 LOCATION: HUMPHREY  
 COUNTY: KINGS  
 UNIT: Unit 3  
 DATE: 12/1/77  
 RUN NO/METHOD: 315  
 COLD BOX NO.: 8  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 44-0.874  
 PYROMETER #: 73  
 MAGNEHELIC FACTOR: ΔP M1 ΔH M2



FILTER NO. B-59  
 AMBIENT TEMP.: HS  
 BAROMETRIC PRESS., IN. HG.: 30.25  
 ASSUMED MOISTURE: 3  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.240  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.11 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

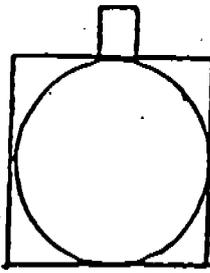
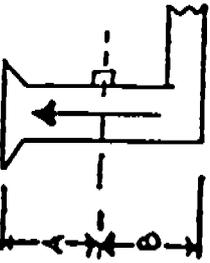
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.51005	11.19	0	51	0.24	0.24	1.09	625.687	70	71	2	
2			7.5	7.5	55	0.33	0.33	1.47	627.0	71	71		
3			7.0	7.0	48	0.35	0.35	1.59	628.4	71	71		
4			7.0	7.0	47	0.34	0.34	1.54	630.1	71	71		
5			12.5	12.5	48	0.31	0.31	1.40	631.8	71	71		
6			15	15	53	0.29	0.29	1.31	633.5	72	71		
7			17.0	17.0	52	0.24	0.24	1.04	635.0	72	71		
8			3.0	3.0	52	0.30	0.30	1.36	636.4	73	72		
9			22.5	22.5	50	0.30	0.30	1.33	638.0	72	72		
10			2.5	2.5	51	0.37	0.37	1.68	639.6	74	72		
11			27.5	27.5	57	0.38	0.38	1.72	641.6	74	73		
12			30	30	52	0.34	0.34	1.77	643.5	73	73		
AVERAGE									645.018				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 4.0 BOTTOM ΔP = 2.6  
 AFTER: TOP ΔP = 4.1 BOTTOM ΔP = 2.6  
 SAMPLE TRAIN LEAK:  
 BEFORE: CRM@ 0.003 IN. HG.  
 AFTER: CRM@ 0.00 IN. HG.

COMMENTS: \_\_\_\_\_

PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/9/91  
 RUN NO/METHOD: 3/5-5102  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHEJC FACTOR:  $\Delta P$  \_\_\_\_\_

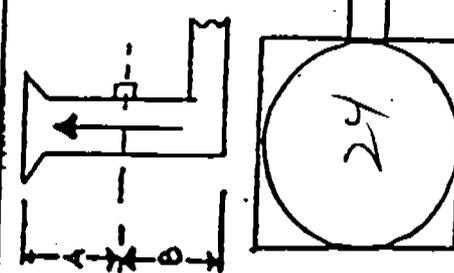


FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (TM), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	YΔP			INLET	OUTLET		
1		20.9	0.05	11:40	54	0.43		1.95	645.018	76	75		
2				29	46	0.43		1.95	646.8	75	75		
3				5	46	0.41		1.80	648.7	75	76		
4				2.5	47	0.37		1.68	650.2	78	76		
5				10	48	0.34		1.54	652.5	78	76		
6				20	49	0.28		1.27	654.2	78	76		
7				15	50	0.28		1.27	655.8	78	76		
8				12.5	51	0.30		1.36	657.5	79	77		
9				20	51	0.30		1.36	659.0	79	77		
10				22.5	49	0.28		1.27	660.7	79	78		
11				25	47	0.29		1.31	662.2	79	78		
12				27.5	49	0.26		1.18	663.9	80	78		
13				30					665.502				
AVERAGE		20.4	0.05	60	50.0			1.474	39.85	74.6			
PITOT LEAK CHECK:													
BEFORE: TOP ΔP = _____ BOTTOM ΔP = _____													
AFTER: TOP ΔP = _____ BOTTOM ΔP = _____													
SAMPLE TRAIN LEAK: CRM@ _____ IN. HG.													
CRM@ _____ IN. HG.													
COMMENTS: _____													
PURGE _____													

OVERFLOW  
CYCLONE

PLANT: Country Club  
 LOCATION: Hawthorne  
 COUNTY: Kings  
 UNIT: OKT Flow  
 DATE: 12/9/91  
 RUN NO/METHOD: 1/5  
 COLD BOX NO.: 10  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: #4-0.874  
 PYROMETER #: F3  
 MAGNETIC FACTOR:  $\Delta P$  1.91  $\Delta H$  1.42



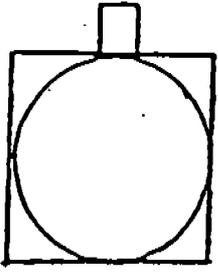
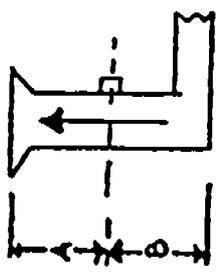
FILTER NO. B-60  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 29.12  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: Calum  
 APPROX. WIND VEL., MPH: Calum  
 SAMPLE BOX TEMP., (F): Calum  
 STATIC PRESSURE: -0.09 "H<sub>2</sub>O  
 OFFSET: 0 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> ), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET	OUTLET		
1		20.1	0.15	2:05	82	0.19		1.10	665.701	70	72		
2				2.5	81	0.15		1.18	667.1	71	72		
3				2.5	80	0.16		1.26	668.6	72	72		
4				10	79	0.19		1.49	670.1	72	72		
5				10	81	0.16		1.26	671.2	73	72		
6				15	81	0.16		1.26	673.3	73	72		
7				15	79	0.19		1.10	674.9	74	73		
8				20	77	0.17		1.34	676.4	74	73		
9				20	78	0.19		1.49	678.1	75	74		
10				24.5	80	0.21		1.65	679.6	76	74		
11				45	78	0.20		1.57	681.4	76	75		
12				30	76	0.20		1.57	683.5	77	75		
AVERAGE									685.130				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 4.2 BOTTOM ΔP = 4.4  
 AFTER: TOP ΔP = 4.6 BOTTOM ΔP = 4.4  
 SAMPLE TRAIN LEAK: CRM@ 5 IN. HG. CRM@ 5 IN. HG.

COMMENTS: PURGE 9.86

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/19/98  
 RUN NO. METHOD: 115-5Koe72  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

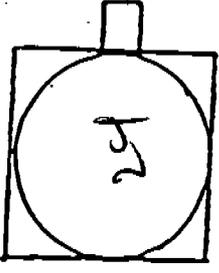
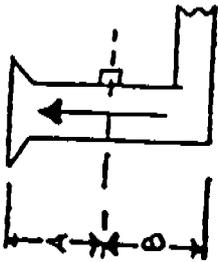


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ) F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (T <sub>m</sub> )		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		21.1	0.05	2.73	76	0.21		1.65	685.130	72	72		
2				2.5	78	0.20		1.57	681.16	79	73		
3				5	80	0.18		1.47	688.8	79	78		
4				7.5	82	0.18		1.41	690.5	79	78		
5				10	85	0.19		1.49	691.9	79	78		
6				12.5	83	0.16		1.26	683.2	79	78		
7				15	74	0.12		0.99	696.1	79	79		
8				12.5	78	0.15		1.18	696.8	80	79		
9				20	75	0.17		1.34	693.3	80	79		
10				22.5	73	0.16		1.26	696.8	80	79		
11				25	73	0.16		1.26	701.4	81	79		
12				22.5	74	0.13		1.02	703.0	81	79		
AVERAGE				30					704.554				
PITOT LEAK CHECK:		200	0.05	60	78.8			1.336	38.853	76			

PITOT LEAK CHECK: BEFORE: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: \_\_\_\_\_ IN. HG. AFTER: \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_  
 PURGE \_\_\_\_\_

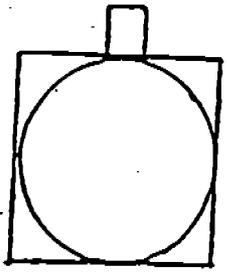
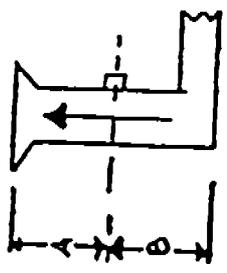
PLANT: Country Sine  
 LOCATION: Houston  
 COUNTY: Clay  
 UNIT: Overhead  
 DATE: 12/19/91  
 RUN NO./METHOD: 265  
 COLD BOX NO.: 265  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: #1-0.874  
 PYROMETER #: 13  
 MAGNEHELIC FACTOR: AP M1  $\Delta H$  1472



FILTER NO. 8-61  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 30.09  
 ASSUMED MOISTURE: 3  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: 5  
 APPROX. WIND VEL., MPH: Calcs  
 SAMPLE BOX TEMP., (F): 50  
 STATIC PRESSURE: -0.09 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. & DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm), (F)	OUTLET (Tm), (F)		
1		20.6	0.05	3.44	0	0.19	1.47	77	204.928	77	77		
2				2.5	77	0.18	1.47	77	206.5	77	77		
3				2.5	77	0.19	1.49	77	208.1	77	77		
4				10	76	0.18	1.47	77	210.0	77	77		
5				2.5	76	0.14	1.47	77	211.6	77	76		
6				15	76	0.13	1.10	77	213.7	77	76		
7				15	76	0.14	1.02	77	214.8	77	76		
8				20	76	0.14	1.10	77	216.2	77	76		
9				20	76	0.19	1.10	77	212.0	77	76		
10				2.5	76	0.18	1.65	77	219.3	77	76		
11				2.5	73	0.18	1.91	77	221.0	77	76		
12				2.5	73	0.13	1.02	77	222.7	77	76		
AVERAGE				AD					224.302		76		
PITOT LEAK CHECK:													
BEFORE: TOP $\Delta P$ = <u>3.2</u> BOTTOM $\Delta P$ = <u>1.9</u> SAMPLE TRAIN LEAK: CRM@ <u>15</u> IN. HG.													
AFTER: TOP $\Delta P$ = <u>5.2</u> BOTTOM $\Delta P$ = <u>1.85</u> CRM@ <u>70</u> IN. HG.													
COMMENTS: _____ PURGE _____													

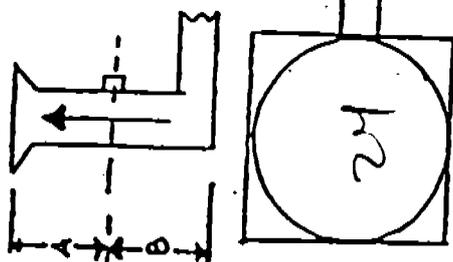
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/9/87  
 RUN NO./METHOD: 2/5-Stack 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (T <sub>s</sub> ), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (T <sub>in</sub> ),	OUTLET (T <sub>m</sub> )		
1		20.9	0.05	4:26	68	0.10		0.79	724.30	77	77		
2				2:5	69	0.15		1.18	725.18	77	76		
3				5	75	0.14		1.10	726.9	76	76		
4				2:2	76	0.14		1.10	728.3	77	76		
5				1:0	75	0.14		1.26	729.7	77	76		
6				6:5	75	0.16		1.26	731.2	77	76		
7				5	74	0.16		1.26	732.9	77	76		
8				5:20	74	0.21		1.65	734.9	77	76		
9				7:2	74	0.24		1.69	736.2	78	76		
10				7:25	74	0.27		2.12	739.0	78	76		
11				25	74	0.27		2.12	740.1	78	76		
12				2:25	74	0.27		1.73	741.1	78	76		
CRAB				2:30		0.22			744.00				
AVERAGE		20.9	0.05	60	74.6			1.37	741.34				
PTOT LEAK CHECK:													
BEFORE: TOP ΔP = _____ BOTTOM ΔP = _____													
AFTER: TOP ΔP = _____ BOTTOM ΔP = _____													
SAMPLE TRAIN LEAK: _____ IN. HG. _____ IN. HG.													
COMMENTS: _____ PURGE _____													

PLANT: County Line  
 LOCATION: Hammond  
 COUNTY: Greene  
 UNIT: Overhead  
 DATE: 12/9/97  
 RUN NO/METHOD: 3/5  
 COLD BOX NO.: 8  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: #9-0.1874  
 PYROMETER #: 73  
 MAGNETIC FACTOR: AP M1 ΔHMZ



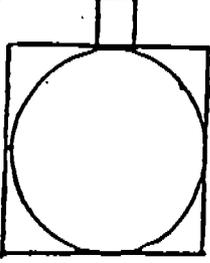
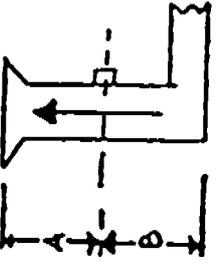
FILTER NO. B-62  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 30.08  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: 0.0 \*H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY - HEAD IN. H2O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT. 3	GAS SAMPLE TEMP. @ DRY GAS METER (TM), (F)		PUMP VACUUM IN. HG	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET	OUTLET		
1		20.9	0.05	5:10	74	0.13		1.02	749.334	74	74	2	
2				2:5	73	0.13		1.02	745.7	74	74		
3				5	74	0.15		1.18	741.0	73	73		
4				2:5	76	0.18		1.41	748.6	74	73		
5				10	77	0.15		1.18	750.3	74	73		
6				12:5	77	0.13		0.94	751.7	74	73		
7				15	77	0.13		1.02	753.1	75	73		
8				17:5	77	0.17		1.24	754.5	75	73		
9				20	77	0.21		1.65	756.1	75	73		
10				22:5	78	0.26		2.04	758.0	75	74		
11				25	78	0.34		1.89	759.9	76	74		
12				27:5	76	0.23		1.81	762.1	76	74		
170	ZERO								763.48				
170	SPAN												
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 2.05 BOTTOM ΔP = 1.75  
 AFTER: TOP ΔP = 3.05 BOTTOM ΔP = 1.75

SAMPLE TRAIN LEAK:  
 BEFORE: 0.10 CFM @ 15 IN. HG.  
 AFTER: 0.10 CFM @ 5 IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 09/19/90  
 RUN NO./METHOD: 315-91002  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



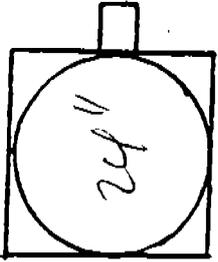
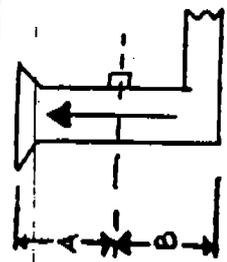
FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ \*H2O  
 OFFSET: \_\_\_\_\_ In. PORT DIA.: \_\_\_\_\_ In. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	63	73	0.19		1.49	763.248	75	74		
2				23	73	0.20		1.57	765.5	74	74		
3				3	73	0.23		1.81	767.1	74	74		
4				75	74	0.22		1.73	768.9	74	73		
5				70	75	0.21		1.65	770.8	74	73		
6				75	74	0.16		1.41	772.8	74	73		
7				75	74	0.16		1.20	774.0	74	73		
8				75	74	0.15		1.18	775.5	74	73		
9				20	74	0.16		1.26	777.1	74	73		
10				23	74	0.15		1.18	778.7	74	73		
11				23	74	0.16		1.26	780.2	74	73		
12				70	72	0.13		1.02	781.8	73	73		
AVERAGE		20.9	0.05	70	74.8				783.245				
PITOT LEAK CHECK:		BEFORE:		TOP $\Delta P =$ _____		BOTTOM $\Delta P =$ _____		BEFORE = _____		SAMPLE TRAIN LEAK:		IN. HG. _____	
		AFTER:		TOP $\Delta P =$ _____		BOTTOM $\Delta P =$ _____		AFTER = _____		CFM @ _____		IN. HG. _____	
COMMENTS: _____													PURGE _____

387

# 1 DRYING  
CYCLONE

PLANT: Cocaine by Line  
 LOCATION: Hanford  
 COUNTY: Kings  
 UNIT: #1 Drying  
 DATE: 12/10/97  
 RUN NO./METHOD: 1/2  
 COLD BOX NO.: 10  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: #4-0.874  
 PYROMETER #: 73  
 MAGNETIC FACTOR: AP 171  $\Delta H_{2O}$  7



FILTER NO. B-63  
 AMBIENT TEMP.: 38  
 BAREMETRIC PRESS., IN. HG.: 30.10  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.321  
 PROBE HEATER SETTING: Calum  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.02 "H<sub>2</sub>O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.05	2134	92	0.08	0.10	1.52	787.04	45	45	1	
2				25	80	0.10	0.11	1.90	188.6	45	45	2	
3				5	137	0.11	0.11	2.10	790.4	46	45		
4				25	139	0.11	0.10	2.10	792.4	46	45		
5				10	140	0.10	0.10	1.90	793.8	46	45		
6				13.5	139	0.10	0.10	1.90	796.0	48	46		
7				15	138	0.09	0.08	1.70	797.9	48	47		
8				12.5	136	0.08	0.08	1.52	794.7	49	47		
9				20	137	0.09	0.10	1.70	800.8	50	48		
10				22.5	138	0.10	0.10	1.90	802.1	51	49		
11				25	138	0.10	0.10	1.90	804.7	52	50		
12				22.5	137	0.11	0.11	2.10	806.3	52	50		
AVERAGE				170					807.246				

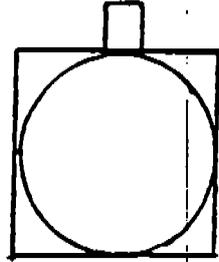
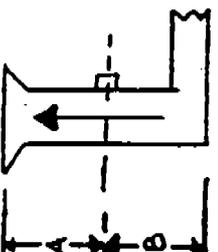
PITOT LEAK CHECK: BEFORE: TOP ΔP = 4.18 BOTTOM ΔP = 3.8  
 AFTER: TOP ΔP = 4.8 BOTTOM ΔP = 3.8

SAMPLE TRAIN LEAK: BEFORE = 0.003 CFM @ 15 IN. HG.  
 AFTER = 0.005 CFM @ 5 IN. HG.

COMMENTS: PURGE 101

24

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO./METHOD: 178 sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

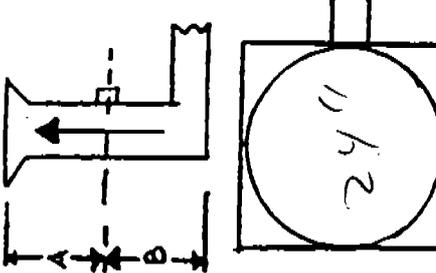


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	8:21.0	132	0.11		2.10	807.746	54	52		
2				25	138	0.12		2.30	809.8	54	53		
3				5	129	0.12		2.30	812.1	54	53		
4				25	126	0.11		2.10	813.6	55	53		
5				10	123	0.10		1.90	815.6	55	53		
6				125	121	0.11		2.10	817.2	55	54		
7				15	120	0.09		1.70	819.7	55	54		
8				125	126	0.09		1.70	821.2	56	54		
9				20	120	0.10		1.90	822.6	56	54		
10				22.5	120	0.11		2.10	824.5	56	54		
11				25	120	0.12		2.30	826.4	56	55		
12				22.5	118	0.12		2.30	828.5	57	55		
ZERO				30					830.362				
SPAN				(8:52)									
AVERAGE		20.9	0.05	(20)	126.8		0.320	1.960	73.321	57.0			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE CRM@ \_\_\_\_\_ IN. HG.  
 AFTER CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

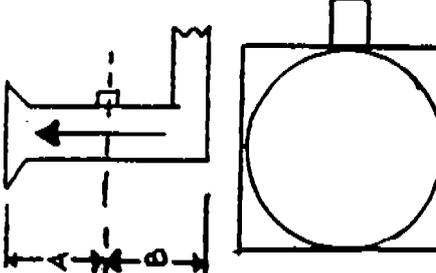
PLANT: Cummins Gen  
 LOCATION: 1144 Ford  
 COUNTY: Rocky Mt  
 UNIT: 411 Drilling  
 DATE: 12/10/97  
 RUN NO./METHOD: 2/5  
 COLD BOX NO.: 9  
 METER BOX NO.: A  
 METER FACTOR: 0.9456  
 PITOT #/FACTOR: 1.1/-0.874  
 PYROMETER #: 73  
 MAGNEHELIC FACTOR: AP 141  $\Delta H$  142



PLANT: B-61  
 FILTER NO.: 40  
 AMBIENT TEMP.: 30.10  
 BARAMETRIC PRESS., IN. HG.: 5  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.325 #35  
 PROBE HEATER SETTING: CALLA  
 APPROX. WIND VEL., MPH: ---  
 SAMPLE BOX TEMP., (F): ---  
 STATIC PRESSURE: -002 H2O  
 OFFSET: 9 in. PORT DIA.: 2 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	9:51	98	0.06		0.64	831.973	54	54		
2				25	108	0.13		1.38	833.5	55	54		
3				5	110	0.14		1.49	835.2	55	55		
4				7.5	110	0.13		1.38	836.6	55	55	2	
5				10	111	0.12		1.28	839.7	55	55		
6				12.5	111	0.12		1.28	839.4	56	55		
7				15	111	0.10		1.06	840.9	56	55		
8				17.5	111	0.11		1.17	842.2	56	55		
9				20	112	0.11		1.17	843.6	56	55		
10				22.5	111	0.12		1.28	845.0	57	56		
11				25	111	0.12		1.28	846.7	58	56		
12				27.5	111	0.13		1.38	848.1	58	56		
13				30	111				849.729				
AVERAGE													
PITOT LEAK CHECK:													
BEFORE:						TOP $\Delta P =$ <u>2.9</u>	BOTTOM $\Delta P =$ <u>1.6</u>	SAMPLE TRAIN LEAK:					
AFTER:						$\Delta P =$ <u>2.9</u>	$\Delta P =$ <u>1.6</u>	CRM@ <u>15</u>	IN. HG. <u>---</u>	CRM@ <u>5</u>	IN. HG. <u>---</u>		
COMMENTS: _____													

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO./METHOD: 2/5 steel 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.  $\Delta P$  \_\_\_\_\_ in.  $\Delta H$  \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\sqrt{\Delta P}$			INLET	OUTLET		
1		26.9	0.05	10/40	115	0.14		1.79	849.129	59	58		
2				25	119	0.14		1.44	851.2	59	58		
3				1	115	0.14		1.99	852.7	59	58		
4				20	115	0.13		1.38	854.6	59	58		
5				10	113	0.12		1.28	857.4	59	58		
6				12.5	113	0.09		0.95	858.8	60	59		
7				15	115	0.13		1.38	860.3	60	59		
8				12.5	117	0.11		1.12	861.7	60	59		
9				20	118	0.11		1.17	863.1	60	59		
10				20	112	0.12		1.18	864.7	61	60		
11				25	117	0.11		1.17	866.1	61	60		
12				27.5	116	0.10		1.06	867.5	62	60		
13	ZERO SPAN			20					868.046				
AVERAGE		26.8	0.05	6	112.5		0.942	1.254	37.143	57.7			

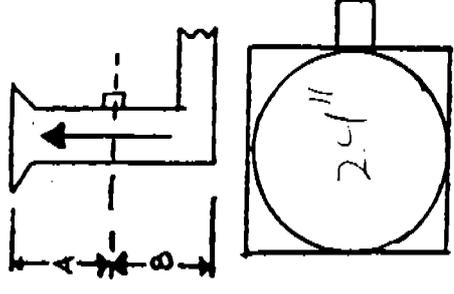
PITOT LEAK CHECK: BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_

SAMPLE TRAIN LEAK: BEFORE: CRM@ \_\_\_\_\_ IN. HG. AFTER: CRM@ \_\_\_\_\_ IN. HG.

COMMENTS: PURGE \_\_\_\_\_

32

PLANT: Spently Corp  
 LOCATION: Harford  
 COUNTY: MD  
 UNIT: #1 Bounding  
 DATE: 12/10/91  
 RUN NO/METHOD: 315  
 COLD BOX NO.: 8  
 METER BOX NO.: H  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: #4-0.874  
 PYROMETER #: 73  
 MAGNEHELIC FACTOR: AP 711 ΔH 112

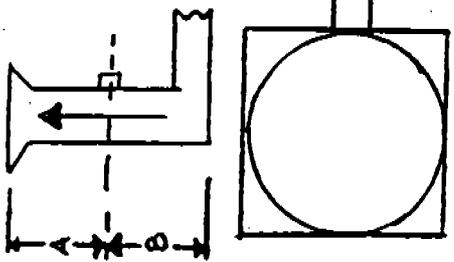


FILTER NO.: B-65  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 30.04  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: —  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.325  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: Calcu  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.02 \*H2O  
 OFFSET: 9 in.  
 PORT DIA.: 3 in. (M) / (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.05	1209	113	0.14		1.68	869.303	60	61	2	
2				205	118	0.12		1.42	871.1	60	60		
3				5	118	0.13		1.55	872.6	60	60		
4				202	116	0.11		1.31	874.2	60	60		
5				10	119	0.10		1.20	876.3	60	60		
6				125	115	0.10		1.20	877.7	61	60		
7				15	119	0.09		1.08	879.3	61	60		
8				125	120	0.10		1.20	880.3	62	60		
9				20	122	0.14		1.68	881.7	62	61		
10				225	124	0.13		1.55	883.7	63	61		
11				15	123	0.14		1.68	885.1	63	62		
12				225	122	0.13		1.55	887.0	64	62		
13				30					888.603				
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP ΔP = 3.6 ΔP = 3.6 BOTTOM ΔP = 2.45 ΔP = 2.45  
 AFTER: TOP ΔP = — ΔP = — BOTTOM ΔP = — ΔP = —  
 SAMPLE TRAIN LEAK: BEFORE = 0.007 CFM @ 15 IN. HG. AFTER = 0.005 CFM @ 5 IN. HG.  
 COMMENTS: PURGE —

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO./METHOD: 3/5 - Sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



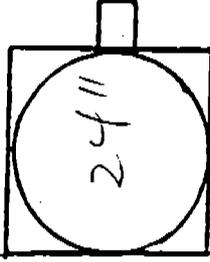
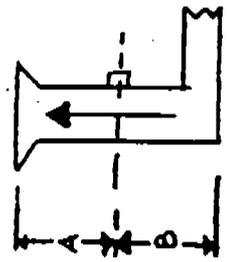
FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ in. <sup>H2O</sup>  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.0	12.4	117	0.12		1.42	88.6	65	64		
2				2.5	126	0.13		1.55	87.0	66	64		
3				5	127	0.12		1.42	89.8	66	64		
4				25	126	0.10		1.20	89.5	66	65		
5				10	125	0.10		1.20	89.5	66	65		
6				15	125	0.09		1.08	89.5	66	65		
7				12.5	124	0.10		1.20	89.7	67	65		
8				20	124	0.13		1.55	90.9	67	66		
9				22.5	124	0.11		1.31	90.5	67	66		
10				25	121	0.10		1.20	90.0	68	66		
11				27.5	120	0.09		1.08	90.5	68	67		
12				30					90.7	68	67		
ZERO SPAN				(1.11)									
AVERAGE		20.9	0.0	60	121.2		0.336	1.355	89.8	65.5			

PITOT LEAK CHECK: BEFORE: TOP  $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE = \_\_\_\_\_ IN. HG. AFTER = \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

GIN STAND TRASH  
CYCLONE

PLANT: Country Club  
 LOCATION: Hawthorne  
 COUNTY: KINGS  
 UNIT: Gen Stand Trash  
 DATE: 12/10/91  
 RUN NO./METHOD: 175  
 COLD BOX NO.: 170  
 METER BOX NO.: A  
 METER FACTOR: 0.9656  
 PITOT #/FACTOR: #4 0.874  
 PYROMETER #: T3  
 MAGNETIC FACTOR: AP 101  $\Delta H$  112



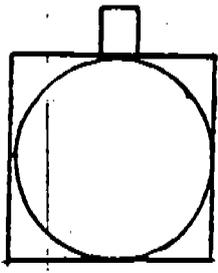
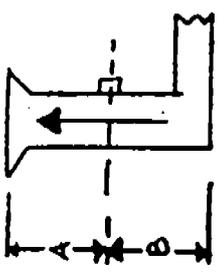
FILTER NO. B-66  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 29.89  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.262  
 PROBE HEATER SETTING: —  
 APPROX. WIND VEL., MPH: Calm  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: 50.09 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (TM)		
1		20.11	0.05	8:33	76	0.12		1.20	919.083	64	65		
2				2:5	73	0.14		1.08	915.8	64	64		
3				5	73	0.21		1.20	912.2	64	64		
4				7:5	71	0.19		1.08	919.0	64	64		
5				10	78	0.18		1.01	920.0	64	64		
6				12:5	78	0.15		0.85	921.9	65	64		
7				15	70	0.16		0.90	922.5	65	64		
8				17:5	72	0.20		1.13	924.5	65	64		
9				20	72	0.22		1.23	925.2	65	64		
10				22:5	71	0.24		1.35	926.7	66	65		
11				25	71	0.25		1.42	928.2	66	65		
12				27:5	71	0.24		1.35	930.0	67	65		
				30					931.460				
AVERAGE													

PITOT LEAK CHECK: BEFORE: TOP  $\Delta P$  = 1.8 BOTTOM  $\Delta P$  = 2.9  
 AFTER: TOP  $\Delta P$  = 1.6 BOTTOM  $\Delta P$  = 2.9  
 SAMPLE TRAIN LEAK: BEFORE = 0.010 CRM@ IN. HG. AFTER = 0.008 CRM@ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

28

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO/METHOD: 115-5300-2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



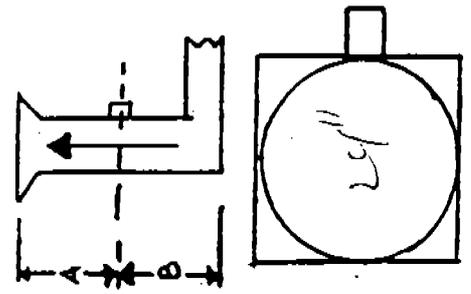
FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.

H<sub>2</sub>O \_\_\_\_\_ in.  
 PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY HEAD IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.1	0.05	3:10	70	0.30		1.70	931.460	68	66		
2				2:15	71	0.28		1.60	932.2	68	67		
3				5	75	0.26		1.48	935.5	69	67		
4				2:1	73	0.24		1.35	936.9	69	67		
5				1:0	71	0.20		1.13	938.4	69	67		
6				6:25	72	0.15		0.85	940.0	69	67		
7				1:5	72	0.13		0.73	941.2	69	68		
8				1:20	71	0.16		0.90	942.5	69	68		
9				7:0	70	0.16		0.90	943.7	69	68		
10				7:25	70	0.15		0.85	945.0	70	68		
11				7:5	70	0.13		0.73	946.3	70	68		
12				7:5	71	0.14		0.80	947.7	70	69		
	ZERO SPAN			(4:40)					948.804				
AVERAGE		20.1	0.05	68	71.5		0.141	1.118	947.81	66.5			

PITOT LEAK CHECK: BEFORE: TOP ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_ ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: BEFORE: CRM@ \_\_\_\_\_ IN. HG. AFTER: CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: County Line  
 LOCATION: Hickory  
 COUNTY: Kent  
 UNIT: Coal Stand (Fossil)  
 DATE: 12/10/97  
 RUN NO./METHOD: 2/5  
 COLD BOX NO.: 9  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 14/0.879  
 PYROMETER #: 13  
 MAGNETIC FACTOR: AP 1.2 ΔH 1.2

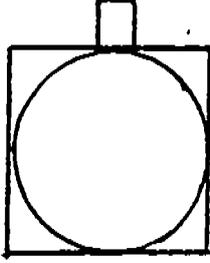
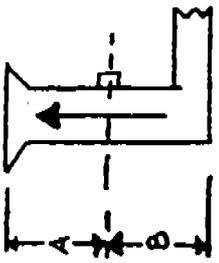


FILTER NO.: B-69  
 AMBIENT TEMP.: 50  
 BARMETRIC PRESS., IN. HG.: 29.92  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.462  
 PROBE HEATER SETTING: CALLN  
 APPROX. WIND VEL., MPH: CALLN  
 SAMPLE BOX TEMP., (F): CALLN  
 STATIC PRESSURE: -0.00 "H<sub>2</sub>O  
 OFFSET: 9 in. 7 in. (M) (F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						AP	ΔP			INLET (T <sub>m</sub> )	OUTLET (T <sub>m</sub> )		
1		15.91	0.05	4:30.0	69	0.19	0.20	1.08	949.048	65	66		
2				3.5	69	0.20	0.21	1.13	950.6	65	66		
3				5	71	0.21	0.21	1.20	951.9	65	66		
4				2.5	71	0.19	0.19	1.08	953.8	65	66		
5				10	71	0.17	0.17	0.96	955.3	65	65		
6				12.5	70	0.15	0.15	0.85	957.0	65	65		
7				15	71	0.16	0.16	0.90	957.8	65	65		
8				12.5	71	0.18	0.18	1.02	959.5	66	65		
9				20	70	0.21	0.21	1.20	960.0	66	65		
10				22.5	71	0.22	0.22	1.25	961.9	67	66		
11				25	71	0.24	0.24	1.35	963.5	67	66		
12				22.5	71	0.23	0.23	1.30	966.1	68	66		
13				30					966.905				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 3.8 BOTTOM ΔP = 1.7  
 ΔP = 3.8 ΔP = 1.7  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE = 0.003 CFM @ \_\_\_\_\_ IN. HG.  
 AFTER = 0.003 CFM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_ FILTER NO.: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_ AMBIENT TEMP.: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 UNIT: \_\_\_\_\_ ASSUMED MOISTURE: \_\_\_\_\_  
 DATE: 12/10/91 HEATER BOX SETTING: \_\_\_\_\_  
 RUN NO. METHOD: 215 sheet 2 PROBE LENGTH, FT.: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_ NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_ PROBE HEATER SETTING: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_ APPROX. WIND VEL., MPH: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_ SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_ STATIC PRESSURE: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

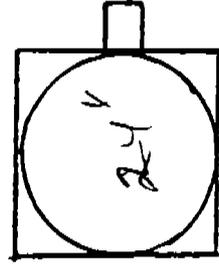
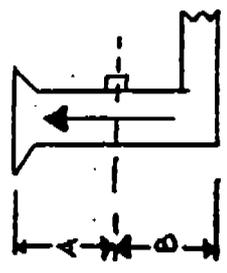


TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta VAP$			INLET (Tm),	OUTLET (TM)		
1		20.9	2.05	3:06	67	0.30		1.70	966.905	68	67		
2				25	71	0.29		1.65	968.2	68	67		
3				5	71	0.28		1.60	971.0	69	67		
4				2:05	71	0.26		1.48	972.3	69	67		
5				10	71	0.22		1.25	974.0	69	68		
6				12:5	71	0.17		0.96	976.0	69	68		
7				15	71	0.16		0.90	977.2	69	68		
8				17:1	71	0.15		0.85	978.4	69	68		
9				20	72	0.16		0.90	979.8	69	68		
10				22:5	73	0.16		0.90	981.2	70	68		
11				25	72	0.15		0.85	982.6	70	68		
12				27	70	0.13		0.73	983.2	70	6.8		
13	ZERO SPAN			30 (5:36)					985.000				
AVERAGE		20.105		60	70.7			1.129	95.952	67.0			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 CRM @ \_\_\_\_\_ IN. HG.  
 CRM @ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

552

PLANT: Courtesy Land  
 LOCATION: Flint St  
 COUNTY: King  
 UNIT: City Street (Trash)  
 DATE: 12/16/97  
 RUN NO./METHOD: 375  
 COLD BOX NO.: 8  
 METER BOX NO.: H  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 17/0.824  
 PYROMETER #: 17  
 MAGNEHELIC FACTOR: AP 0.91 ΔH 1.92



FILTER NO.: B-68  
 AMBIENT TEMP.: 45  
 BARAMETRIC PRESS., IN. HG.: 29.97  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.1262  
 PROBE HEATER SETTING: Calm  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: 0.09 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

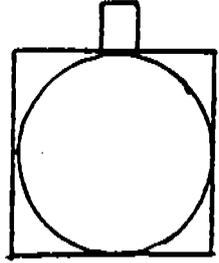
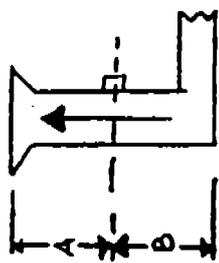
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔVAP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.05	6:20	67	0.17		0.96	985.142	66	66		
2				2:5	67	0.19		1.05	986.65	66	66		
3				5	70	0.19		1.05	987.16	66	66		
4				7:5	50	0.17		0.96	989.74	66	66		
5				10	70	0.17		0.96	990.7	66	66		
6				12:5	72	0.15		0.85	992.3	66	65		
7				15	72	0.16		0.90	993.7	66	65		
8				17:5	70	0.18		1.01	995.0	66	65		
9				20	70	0.21		1.18	996.3	66	65		
10				22:5	70	0.23		1.30	997.6	67	66		
11				25	71	0.24		1.33	999.2	67	66		
12				27:5	69	0.24		1.33	1000.7	67	66		
0.28	ZERO			30					1002.418				
	SPAN												
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 2.4 BOTTOM ΔP = 2.6  
 ΔP = 2.4 ΔP = 2.4  
 AFTER: TOP ΔP = \_\_\_\_\_ BOTTOM ΔP = \_\_\_\_\_  
 ΔP = \_\_\_\_\_ ΔP = \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE = 0.005 IN. HG.  
 AFTER = 0.005 IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/10/91  
 RUN NO/METHOD: 275-51012  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. <sup>"H2O</sup>

PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	6:57	69	0.30	0.30	1.70	1002.48	68	67	2	
2				10	70	0.30	0.30	1.70	1009.2	68	67		
3				5	71	0.29	0.29	1.60	1006.5	69	69		
4				20	71	0.26	0.26	1.48	1008.3	69	68		
5				10	70	0.22	0.22	1.25	1009.4	69	68		
6				2.5	70	0.18	0.18	1.01	1011.2	69	67		
7				15	70	0.15	0.15	0.85	1012.6	69	67		
8				120	71	0.15	0.15	0.85	1013.9	69	68		
9				20	71	0.15	0.15	0.85	1015.3	69	68		
10				22.5	70	0.14	0.14	0.78	1016.5	70	68		
11				25	70	0.14	0.14	0.78	1017.7	69	68		
12				27.5	69	0.11	0.11	0.62	1018.9	70	69		
13	ZERO SPAN			20					1020.12				
AVERAGE		20.9	0.05	60	70.0		0.428	1.098	3498.5	67			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_

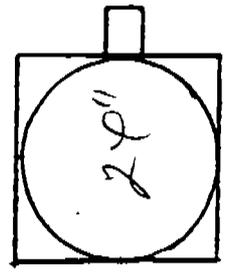
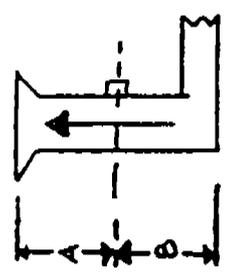
SAMPLE TRAIN LEAK:  
 BEFORE: CFM @ \_\_\_\_\_ IN. HG.  
 AFTER: CFM @ \_\_\_\_\_ IN. HG.

COMMENTS: PURGE \_\_\_\_\_

BATTERY CONDENSER  
CYCLONE

362

PLANT: County Gap  
 LOCATION: Hanford  
 COUNTY: Kings  
 UNIT: Battery Condenser  
 DATE: 12/11/91  
 RUN NO./METHOD: 115  
 COLD BOX NO.: 10  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 74-0.874  
 PYROMETER #: 73  
 MAGNETIC FACTOR: AP 7.71 ΔH 192



FILTER NO. B-69  
 AMBIENT TEMP.: 40  
 BAROMETRIC PRESS., IN. HG.: 29.97  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.230 #22  
 PROBE HEATER SETTING: Calu  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: 418 °H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M) (F)

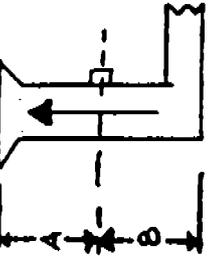
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.05	6:51	58	0.31	0.34	1.05	20.503	44	44	1	
2				3:5	56	0.34	0.36	1.15	21.8	44	44		
3				7:5	62	0.36	0.38	1.21	23.7	45	45		
4				10	61	0.33	0.35	1.29	24.8	46	46		
5				12:5	61	0.28	0.30	1.12	26.2	47	47		
6				15	61	0.24	0.26	0.95	27.8	50	49		
7				17:5	61	0.32	0.34	0.87	29.5	51	49		
8				20	61	0.36	0.38	1.08	30.3	52	50		
9				22:5	61	0.40	0.42	1.20	31.9	53	51		
10				25	61	0.42	0.44	1.35	33.0	54	52		
11				27:5	61	0.42	0.44	1.40	34.5	54	53		
12	ZERO SPAN			30	61	0.42	0.44	1.40	36.0	54	53		
AVERAGE									37.610				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 4.35 BOTTOM ΔP = 1.4  
 AFTER: TOP ΔP = 4.35 BOTTOM ΔP = 1.4

SAMPLE TRAIN LEAK:  
 BEFORE: 0.005 IN. HG. CRM@  
 AFTER: 0.012 IN. HG. CRM@

COMMENTS: PURGE

363



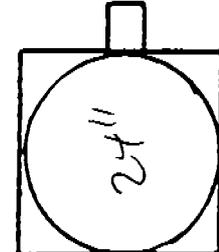
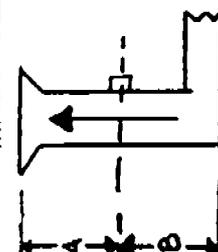
PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/91  
 RUN NO./METHOD: 15 Skat 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ "H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm)	OUTLET (Tm)		
1		20.9	0.05	7:34	68	0.45		1.52	32.6	56	54		
2				2.5	60	0.49		1.50	39.4	56	55		
3				3	61	0.41		1.38	41.0	57	56		
4				2.5	61	0.38		1.29	42.5	58	56		
5				1.0	61	0.34		1.15	44.1	58	57		
6				12.5	60	0.26		0.87	45.6	59	57		
7				1.5	61	0.27		0.92	47.4	59	57		
8				12.5	61	0.29		0.98	48.1	60	57		
9				3.0	62	0.3		1.05	49.4	59	58		
10				22.5	61	0.33		1.12	50.8	60	58		
11				2.5	61	0.31		1.05	52.4	60	58		
12				22.5	61	0.23		0.98	53.5	60	59		
ZERO				3.0					54.9				
SPAN				(8:04)									
AVERAGE		20.9	0.05	60	50.6		0.582	1.153	34.008		53.1		

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: CFM@ \_\_\_\_\_ IN. HG.  
 AFTER: CFM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Courtesy Line  
 LOCATION: Hanford  
 COUNTY:  Kings  
 UNIT:  Pathway Converter  
 DATE:  12/11/91  
 RUN NO/METHOD:  2/5  
 COLD BOX NO.:  9  
 METER BOX NO.:  7  
 METER FACTOR:  0.9856  
 PITOT #/ FACTOR:  14-0.874  
 PYROMETER #:  13  
 MAGNEHELIC FACTOR:  ΔP 121 ΔH M2

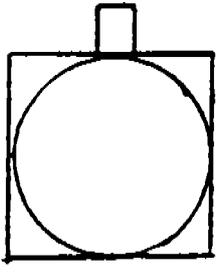
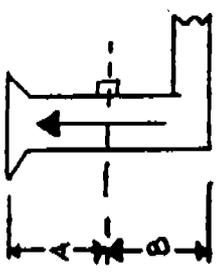


FILTER NO. B-70  
 AMBIENT TEMP.:  45  
 BAROMETRIC PRESS., IN. HG.:  29.97  
 ASSUMED MOISTURE:  5  
 HEATER BOX SETTING:  -  
 PROBE LENGTH, FT.:  5  
 NOZZLE DIAMETER, IN.:  0.230  
 PROBE HEATER SETTING:  -  
 APPROX. WIND VEL., MPH:  calm  
 SAMPLE BOX TEMP., (F):  -  
 STATIC PRESSURE:  -0.14 "H2O  
 OFFSET:  9 in. PORT DIA.:  3 in. (M/F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts) F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.9	0.105	8:39	57	0.32		1.08	55.625	59	59		
2				2:7	60	0.33		1.12	57.14	59	59		
3				5	62	0.35		1.18	59.6	59	59		
4				7:5	62	0.34		1.15	60.12	59	59		
5				10	62	0.32		1.08	61.17	59	59		
6				12:5	63	0.27		0.92	62.17	59	59		
7				15	62	0.24		0.82	64.1	59	59		
8				17:5	62	0.32		1.08	65.4	60	59		
9				20	63	0.34		1.15	67.3	60	59		
10				22:5	62	0.39		1.30	68.3	60	59		
11				25	63	0.42		1.41	69.5	61	60		
12				27:5	63	0.41		1.38	71.1	61	60		
13				30					72.25				
ZERO SPAN													
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP =  2.9 BOTTOM ΔP =  1.9  
 AFTER: TOP ΔP =  2.9 BOTTOM ΔP =  1.9  
 SAMPLE TRAIN LEAK:  
 BEFORE =  0.005 CFM @  15 IN. HG.  
 AFTER =  0.005 CFM @  5 IN. HG.  
 COMMENTS:  PURGE

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/91  
 RUN NO./METHOD: 215 Start  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/ FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. ( M / F )

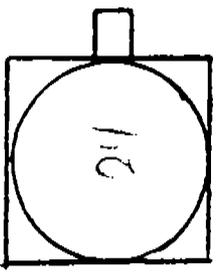
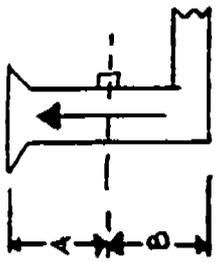
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.055	9:13.12	58	0.44	0.529	1.50	72.825	62	60		
2				35	62	0.43		1.48	74.6	62	61		
3				3	63	0.42		1.41	76.2	63	61		
4				10	63	0.41		1.38	78.4	63	61		
5				10	62	0.31		1.03	79.6	63	62		
6				10.5	61	0.26		0.82	81.0	63	62		
7				15	62	0.26		0.82	81.3	63	62		
8				17.5	62	0.30		1.00	83.4	63	62		
9				20	63	0.31		1.05	84.7	64	62		
10				20	62	0.32		1.08	86.2	64	63		
11				15	63	0.30		1.00	87.6	64	63		
12				22.5	62	0.28		0.94	84.1	63	63		
13	ZERO SPAN			30 (9:17)					90.311				
AVERAGE		20.9	0.05	60	61.8		0.529	1.132	34.686	61.0			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_

SAMPLE TRAIN LEAK:  
 BEFORE: CRMG \_\_\_\_\_ IN. HG.  
 AFTER: CRMG \_\_\_\_\_ IN. HG.

COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  11  $\Delta H$  1.2



FILTER NO. 10-71  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS. IN. HG.: 30.00  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: -0.18 "H<sub>2</sub>O  
 OFFSET: 9 in. PORT DIA.: \_\_\_\_\_ in. (M / F)

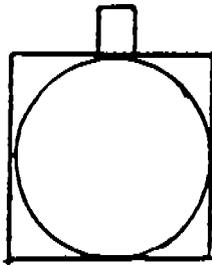
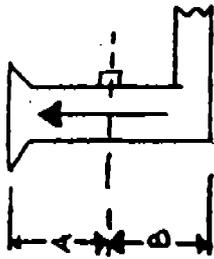
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
				10:13	60	0.29	ΔP	0.98	93.408	63	64		
					60	0.32		1.08	94.9	64	64		
					64	0.34		1.15	96.7	64	64		
					66	0.37		1.15	97.6	64	64		
				10	66	0.32		1.08	94.1	64	62		
				12	66	0.27		0.92	100.6	64	63		
				15	59	0.25		0.85	102.0	65	64		
				17	62	0.40		1.33	103.2	65	64		
				20	62	0.38		1.30	105.2	65	64		
				23	64	0.42		1.41	106.9	65	64		
				25	65	0.45		1.52	108.6	66	64		
				28	66	0.49		1.50	116.9	66	65		
				20					116.301				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 4.1 BOTTOM ΔP = 2.0  
 AFTER: TOP ΔP = 4.1 BOTTOM ΔP = 2.0

SAMPLE TRAIN LEAK:  
 BEFORE = 2.005 CFM @ 15 IN. HG.  
 AFTER = 2.005 CFM @ 5 IN. HG.

COMMENTS: \_\_\_\_\_  
 PURGE: \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 RUN NO./METHOD: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



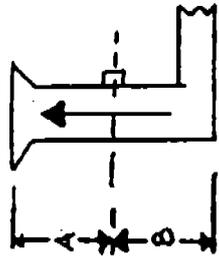
FILTER NO. \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ °H<sub>2</sub>O  
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF. ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1				11:03	69	0.45		1.52	111.301	66	67		
2				20	66	0.43		1.52	113.13	67	66		
3				20	67	0.47		1.53	115.11	67	66		
4				20	68	0.38		1.28	116.25	67	66		
5				19	68	0.33		1.12	117.9	67	66		
6				17:05	68	0.26		0.87	119.4	67	66		
7				15	68	0.27		0.92	121.1	67	66		
8				17:0	66	0.29		0.98	122.4	67	66		
9				20	68	0.31		1.03	123.5	67	66		
10				22:0	68	0.33		1.12	125.3	67	66		
11				25	68	0.33		1.12	126.4	68	67		
12				27:0	67	0.32		1.08	127.9	68	67		
13				29					129.302				
AVERAGE				(11:33)	65.3			1.185	35.894	65.4			

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: CFM@ \_\_\_\_\_ IN. HG.  
 CFM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

#2 DRYING  
CYCLONE

PLANT: County of York  
 LOCATION: Frankford  
 COUNTY: Kings  
 UNIT: #2 Sealing  
 DATE: 12/11/97  
 RUN NO./METHOD: 1/5  
 COLD BOX NO.: 110  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/FACTOR: 116-0.671  
 PYROMETER #: FA  
 MAGNETIC FACTOR: AP 1.01 ΔH 1.12



FILTER NO. 13-72  
 AMBIENT TEMP.: 50  
 BAROMETRIC PRESS., IN. HG.: 30.00  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.281  
 PROBE HEATER SETTING: COAL  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: -0.07 "H<sub>2</sub>O  
 OFFSET: 9 in. PORT DIA.: 2 in. (M / F)

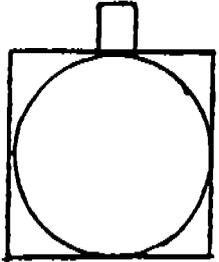
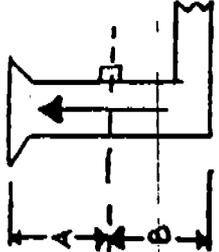
TRAVERSE POINT NUMBER	DISTANCE INCHES	O <sub>2</sub> (%)	CO <sub>2</sub> (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H <sub>2</sub> O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H <sub>2</sub> O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (TM)		
1		20.4	0.05	12.43	67	0.09	0.10	0.64	130.002	63	64	4	
2				2.5	66	0.10	0.10	0.71	131.5	63	63		
3				5	66	0.10	0.10	0.71	132.7	62	63		
4				7.5	66	0.10	0.10	0.71	133.6	62	63		
5				10	65	0.09	0.09	0.64	134.9	63	63		
6				12.5	66	0.08	0.08	0.57	136.2	63	63		
7				15	68	0.09	0.09	0.64	137.0	63	63		
8				17.5	74	0.11	0.11	0.78	138.0	64	63		
9				20	76	0.12	0.12	0.85	139.2	64	64		
10				22.5	75	0.14	0.14	1.00	140.5	65	64		
11				25	75	0.14	0.14	1.00	142.0	66	65		
12				27.5	75	0.15	0.15	1.07	143.2	66	65		
AVERAGE				30					144.505				

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 2.9 BOTTOM ΔP = 1.35  
 ΔP = 2.9 ΔP = 1.35  
 AFTER: TOP ΔP = — BOTTOM ΔP = —  
 ΔP = — ΔP = —

SAMPLE TRAIN LEAK:  
 BEFORE = 0.008 CFM @ 5 IN. HG.  
 AFTER = 0.056 CFM @ 5 IN. HG.

COMMENTS: — PURGE —

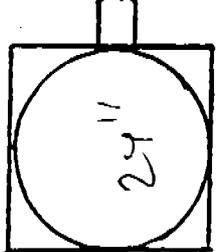
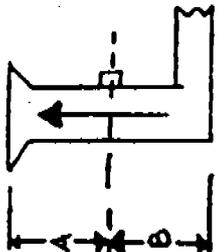
PLANT: \_\_\_\_\_ FILTER NO.: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_ AMBIENT TEMP.: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 UNIT: \_\_\_\_\_ ASSUMED MOISTURE: \_\_\_\_\_  
 DATE: 12/11/91 HEATER BOX SETTING: \_\_\_\_\_  
 RUN NO./METHOD: 15-Sheet-2 PROBE LENGTH, FT.: \_\_\_\_\_  
 COLD BOX NO.: \_\_\_\_\_ NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_ PROBE HEATER SETTING: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_ APPROX. WIND VEL., MPH: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_ SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_ STATIC PRESSURE: "H2O \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_ OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)



TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT. 3	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (Tm)		
1		20.8	0.05	11.9	0	72	0.16	1.12	194.503	68	66	5	
2				2.5	93	93	0.16	1.12	146.2	68	66		
3				5	96	96	0.16	1.12	149.9	68	67		
4				2.0	94	94	0.15	1.07	149.2	68	67		
5				1.0	96	96	0.12	0.85	150.2	68	67		
6				12.5	98	98	0.10	0.71	152.0	69	68		
7				15	103	103	0.09	0.64	153.2	69	68		
8				17.5	103	103	0.08	0.59	154.0	69	68		
9				20	99	99	0.08	0.57	155.3	69	68		
10				25	97	97	0.08	0.57	156.0	69	68		
11				25	90	90	0.08	0.57	157.2	70	68		
12				27.5	88	88	0.08	0.57	158.2	70	68		
STOP	ZERO SPAN			30					159.303				
AVERAGE		20.9	0.05	11.9	91.9	91.9		0.783	221.301	65.9			

PITOT LEAK CHECK: BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Country Club  
 LOCATION: Hampden  
 COUNTY: Kings  
 UNIT: #2 Building  
 DATE: 12/11/91  
 RUN NO./METHOD: 2/5  
 COLD BOX NO.: 9  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT #/ FACTOR: 115-0.874  
 PYROMETER #: 73  
 MAGNETIC FACTOR:  $\Delta P$  101  $\Delta H$  M2

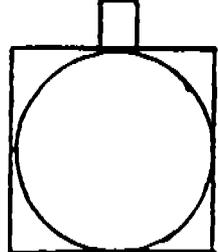
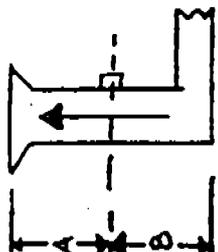


FILTER NO.: B-73  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 29.98  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.313  
 PROBE HEATER SETTING: Calms  
 APPROX. WIND VEL., MPH: -  
 SAMPLE BOX TEMP., (F): -  
 STATIC PRESSURE: -0.07 "H2O  
 OFFSET: 9 in. 7 in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF. ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER (Tm), (F)		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET	OUTLET		
1			0.05	2:30	89	0.07		0.77	159.440	67	68	4	
2				2.5	98	0.08		0.88	161.0	67	68		
3				5	107	0.08		0.88	163.0	67	68		
4				7.5	117	0.08		0.88	163.4	67	67		
5				10	114	0.09		0.88	164.5	67	67	5	
6				12.5	115	0.08		0.88	166.4	67	67		
7				15	117	0.09		0.88	165.0	67	67		
8				17.5	119	0.12		1.30	168.5	67	67	6	
9				20	116	0.14		1.52	171.0	68	67	8	
10				22.5	113	0.15		1.63	171.9	68	67	9	
11				25	107	0.17		1.85	174.0	68	67		
12				27.5	109	0.15		1.63	175.5	68	68		
13	ZERO SPAN			30					177.08				

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = 2.6 BOTTOM  $\Delta P$  = 2.2  
 AFTER: TOP  $\Delta P$  = 2.6 BOTTOM  $\Delta P$  = 2.2  
 SAMPLE TRAIN LEAK:  
 BEFORE = 0.005 CFM @ 15 IN. HG.  
 AFTER = 0.005 CFM @ 9 IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/11/91  
 RUN NO./METHOD: 2/5 - sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNETIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_

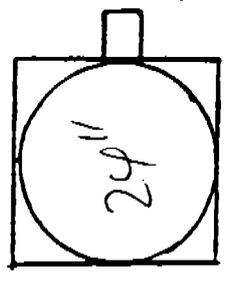
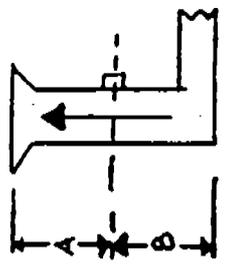


FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BAROMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_ in.  $H_2O$   
 OFFSET: \_\_\_\_\_ in. PORT DIA.: \_\_\_\_\_ in. (M / F)

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER ( $\Delta H$ ) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GASMETER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						$\Delta P$	$\Delta P$			INLET (Tm),	OUTLET (Tm)		
1		20.9	0.05	3:00	95	0.14		1.52	177.108	69	68		
2				25	115	0.15		1.63	178.9	69	68		
3				5	119	0.13		1.42	180.0	69	68		
4				7.5	120	0.12		1.30	182.2	70	68		
5				10	121	0.11		1.20	184.0	70	68		
6				12.0	122	0.09		0.98	185.9	70	69		
7				14.0	122	0.08		0.88	186.4	70	69		
8				17.5	123	0.09		0.98	186.2	70	69		
9				20.0	124	0.09		0.98	189.7	70	69		
10				22.5	124	0.10		1.10	191.1	71	69		
11				25.0	124	0.09		0.98	192.13	71	69		
12				27.5	120	0.08		0.88	193.7	71	69		
ZERO SPAN				30					195.107				
AVERAGE		20.9	0.05	60	114.2		0.324	1.168	35.667	68.3			

PITOT LEAK CHECK:  
 BEFORE: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 AFTER: TOP  $\Delta P$  = \_\_\_\_\_ BOTTOM  $\Delta P$  = \_\_\_\_\_  
 SAMPLE TRAIN LEAK:  
 BEFORE: \_\_\_\_\_ IN. HG.  
 AFTER: \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

PLANT: Cumby Mine  
 LOCATION: Henry  
 COUNTY: 51163  
 UNIT: #2  
 DATE: 12/11/97  
 RUN NO./METHOD: 275  
 COLD BOX NO.: A  
 METER BOX NO.: A  
 METER FACTOR: 0.9856  
 PITOT # FACTOR: #1 - 0.874  
 PYROMETER #: 73  
 MAGNETIC FACTOR: AP 1911  $\Delta H$  742



FILTER NO.: B-25  
 AMBIENT TEMP.: 50  
 BARAMETRIC PRESS., IN. HG.: 29.98  
 ASSUMED MOISTURE: 5  
 HEATER BOX SETTING: 5  
 PROBE LENGTH, FT.: 5  
 NOZZLE DIAMETER, IN.: 0.313  
 PROBE HEATER SETTING: Calm  
 APPROX. WIND VEL., MPH: —  
 SAMPLE BOX TEMP., (F): —  
 STATIC PRESSURE: 0.07 "H2O  
 OFFSET: 9 in. PORT DIA.: 3 in. (M/F)

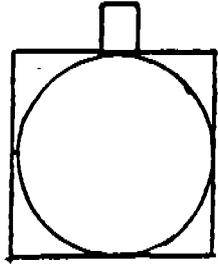
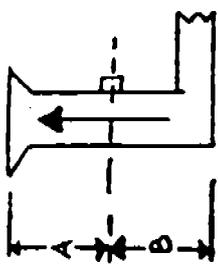
TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	ΔP			INLET (Tm),	OUTLET (Tm)		
1		21.5	0.05	4/16 D	92	0.08		0.88	195.304	68	68	5	
2				8.5	104	0.09		0.98	198	68	68		
3				5	111	0.09		0.98	198	67	68		
4				7.5	118	0.09		0.98	199.5	67	68		
5				10	121	0.09		0.98	200.7	67	67		
6				12.0	125	0.09		0.88	202.4	67	67		
7				15	126	0.09		0.88	203.8	67	67		
8				17.0	122	0.12		1.20	204.9	67	67	6.7	
9				20	119	0.14		1.52	205.0	67	67	6.7	
10				22.0	121	0.15		1.63	208.12	68	67	8	
11				25	122	0.16		1.75	209.2	68	67	8	
12				22.5	123	0.16		1.75	211.5	68	67		
13	ZERO SPAN			20					213.467				
AVERAGE													

PITOT LEAK CHECK:  
 BEFORE: TOP ΔP = 39 BOTTOM ΔP = 2.7  
 AFTER: TOP ΔP = 39 BOTTOM ΔP = 2.7

SAMPLE TRAIN LEAK:  
 BEFORE: CFM @ 15 IN. HG.  
 AFTER: CFM @ 8 IN. HG.

COMMENTS: \_\_\_\_\_  
 PURGE: \_\_\_\_\_

PLANT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 UNIT: \_\_\_\_\_  
 DATE: 12/1/97  
 RUN NO./METHOD: 3/5- sheet 2  
 COLD BOX NO.: \_\_\_\_\_  
 METER BOX NO.: \_\_\_\_\_  
 METER FACTOR: \_\_\_\_\_  
 PITOT #/FACTOR: \_\_\_\_\_  
 PYROMETER #: \_\_\_\_\_  
 MAGNEHELIC FACTOR:  $\Delta P$  \_\_\_\_\_  $\Delta H$  \_\_\_\_\_



FILTER NO.: \_\_\_\_\_  
 AMBIENT TEMP.: \_\_\_\_\_  
 BARAMETRIC PRESS., IN. HG.: \_\_\_\_\_  
 ASSUMED MOISTURE: \_\_\_\_\_  
 HEATER BOX SETTING: \_\_\_\_\_  
 PROBE LENGTH, FT.: \_\_\_\_\_  
 NOZZLE DIAMETER, IN.: \_\_\_\_\_  
 PROBE HEATER SETTING: \_\_\_\_\_  
 APPROX. WIND VEL., MPH: \_\_\_\_\_  
 SAMPLE BOX TEMP., (F): \_\_\_\_\_  
 STATIC PRESSURE: \_\_\_\_\_  
 OFFSET: \_\_\_\_\_ in.      "H2O  
 PORT DIA.: \_\_\_\_\_ in.      ( M / F )

TRAVERSE POINT NUMBER	DISTANCE INCHES	O2 (%)	CO2 (%)	SAMPLE TIME MIN.	STACK TEMP. (Ts), F	VELOCITY IN. H2O		PRESSURE DIFF ORIFICE METER (ΔH) IN. H2O	DRY GAS SAMPLE VOLUME (VM), FT.	GAS SAMPLE TEMP. @ DRY GAS METER		PUMP VACUUM IN. HG.	TEMP. LAST IMPINGER (F)
						ΔP	√ΔP			INLET (Tm),	OUTLET (TM)		
1		20.91	0.05	4530	95	0.13		1.42	213.407	68	67	7	
2				25	117	0.13		1.42	213.12	69	67		
3				7.5	118	0.14		1.52	216.19	69	68		
4				10	117	0.13		1.42	218.5	69	68		
5				12.5	114	0.14		1.52	220.2	69	68		
6				15	122	0.11		1.20	222.0	69	68		
7				17.5	122	0.08		0.88	224.0	69	68		
8				20	125	0.09		0.98	225.4	69	68		
9				22.5	127	0.09		0.98	226.3	69	68		
10				25	122	0.10		1.10	227.7	69	68		
11				27.5	118	0.10		1.10	229.4	69	68		
12				30		0.110		1.10	230.8	70	68		
515	ZERO SPAN			(512)					232.103				
AVERAGE		20.91	0.05	120	117.6	0.1	0.882	1.219	36.799	67.5			

PITOT LEAK CHECK: BEFORE: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 AFTER: TOP ΔP= \_\_\_\_\_ BOTTOM ΔP= \_\_\_\_\_  
 SAMPLE TRAIN LEAK: CRM@ \_\_\_\_\_ IN. HG.  
 CRM@ \_\_\_\_\_ IN. HG.  
 COMMENTS: \_\_\_\_\_ PURGE \_\_\_\_\_

**VIII. QUALITY ASSURANCE**

376

**DRY GAS METER CALIBRATION**

Date: 11/27/91

Unit: A

Ambient Conditions

Temp: 68 F/C

Baro: 30.25 in.Hg

ORIFICE MANOMETER SETTING D,H	GAS VOL WET TEST METER V,w	GAS VOL DRY GAS METER Vb,	wet test tw	Temperature				Y	DH@Y
				Dry IN	Dry Out	Ave f	Time e		
				TD, IN	Tdo,	Td,	min		
0.5	5	275.946	75	72	71	70.25	12.43	0.9749	1.7480
		270.869	75	70	68				
1.0	5	281.356	75	75	73	72.75	9.08	0.9886	1.8567
		276.332	75	72	71				
1.5	5	298.579	75	75	74	74.00	7.43	0.9981	1.8605
		293.597	75	74	73				
2.0	5	304.061	75	77	77	76.25	6.75	0.9806	2.0388
		298.975	75	76	75				
								0.986	1.876

Calibration by: K.R.K

**Meter Factor: 0.9856**

Reviewed by: \_\_\_\_\_

**Delta H: 1.8760**

Equations:

$$Y = (Vw * Pb) * (Td + 460) / (Vdt - Vdb) + (DelH / 13.6) * (((Wt + wt) / 2) + 460)$$

$$Del H = (0.0317 * Del) * (((((WT + Wt) / 2) + 460) * e) / Vw)^2 / ((Pb * (Td + 460))$$

**DRY GAS METER CALIBRATION**

Date: 11/27/91

Unit: B

Ambient Conditions

Temp: 68 F/C

Baro: 30.01 in.Hg

ORIFICE MANOMETER SETTING D,H	GASVOL WET TEST METER V,w	GASVOL DRY GAS METER Vb,	wet test tw	Temperature				Y	DH@Y
				Dry IN	Dry Out	Ave f	Time e min		
				TD, IN	Tdo,	Td,			
0.5	5	295.202	75	75	68	68.75	13.14	0.9640	1.9746
		290.082	75	67	65				
1.0	5	300.691	75	79	71	72.75	9.49	0.9466	2.0444
		295.444	75	74	67				
1.5	5	306.318	75	82	73	76.25	8.1	0.9432	2.2195
		301.024	75	78	72				
2.0	5	312.077	75	84	75	78.25	6.59	0.9404	1.9515
		306.754	75	80	74				
								0.949	2.0475

Calibration by: K.R.K

**Meter Factor: 0.9486**

Reviewed by: \_\_\_\_\_

**Delta H: 2.0475**

Equations:

$$Y = (Vw * Pb) * (Td + 460) / (Vdt - Vdb) + (DelH / 13.6) * (((Wt + wt) / 2) + 460)$$

$$Del H = (0.0317 * Del) * (((((WT + Wt) / 2) + 460) * e) / Vw)^2 / ((Pb * (Td + 460))$$

**PITOT TUBE CALIBRATION**

*Ambient Conditions*

DATE: 2/15/91  
 UNIT NUMBER: 3-5'

TEMPERATURE 68 F  
 RH: \_\_\_\_\_ %  
 BAROMETER: 30.04 in. hg.

Run #	Velocity fpm	ΔP (std) in. H2O	ΔP (s) in. H2O		Cp(s)   Dev		Cp(s)   Dev	
			A	B	A	A	B	B
1	3958	0.98	1.34	1.35	0.847	0.001	0.843	0.001
2		0.98	1.34	1.35	0.847	0.001	0.843	0.001
3		0.97	1.34	1.35	0.842	0.003	0.839	0.003
Avg		0.98	1.34	1.35	~0.845	0.002*	~0.842	0.002*

AVERAGE: (Cp(s)A+Cp(s)B)/2 0.844  
 | ~Cp(s)A-~Cp(s)B | = 0.003\*

1	4412	1.22	1.52	1.49	0.887	0.000	0.887	0.000
2		1.21	1.51	1.49	0.886	0.000	0.886	0.000
3		1.21	1.51	1.49	0.886	0.000	0.886	0.000
Avg		1.21	1.51	1.49	~0.886	0.000*	~0.886	0.000*

AVERAGE: ( Cp(s)A+Cp(s)B)/2 0.886  
 | ~Cp(s)A-~Cp(s)B | = 0.000\*

1	4613	1.33	1.68	1.68	0.881	0.001	0.881	0.001
2		1.32	1.67	1.68	0.880	0.001	0.880	0.001
3		1.33	1.67	1.68	0.883	0.002	0.883	0.002
Avg		1.33	1.67	1.68	~0.882	0.001*	~0.882	0.001*

AVERAGE: (Cp(s)A+Cp(s)B)/2 0.882  
 |~Cp(s)A-~Cp(s)B | = 0.000\*

**PITOT CALIBRATION VALUE:** 0.874

~ Denotes average value

\* Denotes values which must be ≤ to 0.01 for calibration to be valid.

Calibrated by: SALLY

Reviewed by: \_\_\_\_\_

### THERMO COUPLE CALIBRATION

Date: 7/23/91

Unit: T-3

Point	* Standard Temperature		Pyrometer Temperature		Error % ** $(T_{std}-T_{pyr})/T_{std}$
	$T_{std}$ deg. F		$T_{pyr}$ deg. F		
1 Ambient	68.9		72.6		0.70%
2 Ice	32.0		33.2		0.24%
3 Boil	212.0		212.4		0.06%
4 Oil					0.00%

Std. Corr. Factor 0.970

Calibration by: SW

\* Standard ID: ASTM #86429 -5+300C

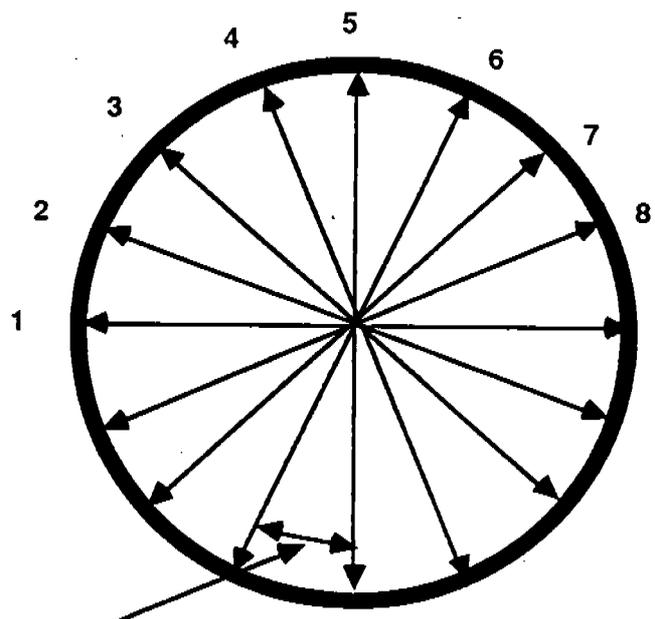
Reviewed by: RTR

\* \* in deg. K

# Nozzle Calibration

Nozzle I.D. : 22

Date : 6/20/91



Points	
1 -	<u>.227</u>
2 -	<u>.230</u>
3 -	<u>.232</u>
4 -	<u>.233</u>
5 -	<u>.229</u>
6 -	<u>.230</u>
7 -	<u>.231</u>
8 -	<u>.232</u>

Average Nozzle Diameter = .230

Analyst : sally

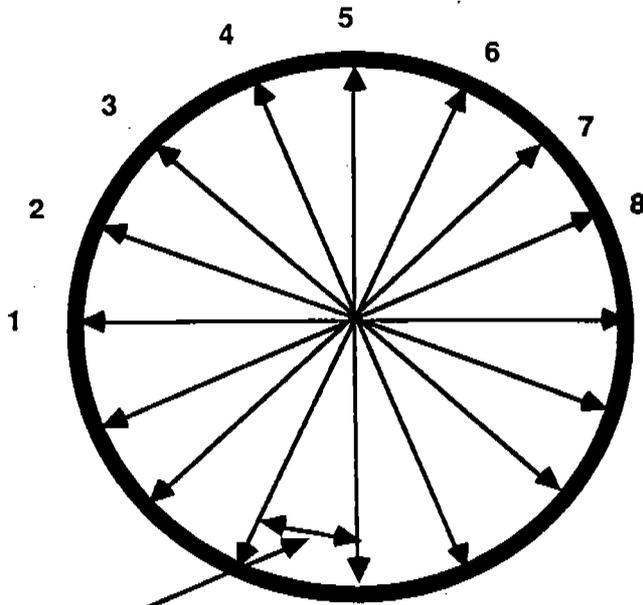
Reviewed :

BTC Environmental, Inc. - 1989

# Nozzle Calibration

Nozzle I.D. : 23

Date : 6/20/91



## Points

1 -	<u>.264</u>
2 -	<u>.260</u>
3 -	<u>.264</u>
4 -	<u>.261</u>
5 -	<u>.259</u>
6 -	<u>.263</u>
7 -	<u>.264</u>
8 -	<u>.265</u>

22.5 degrees

Average Nozzle Diameter = .262

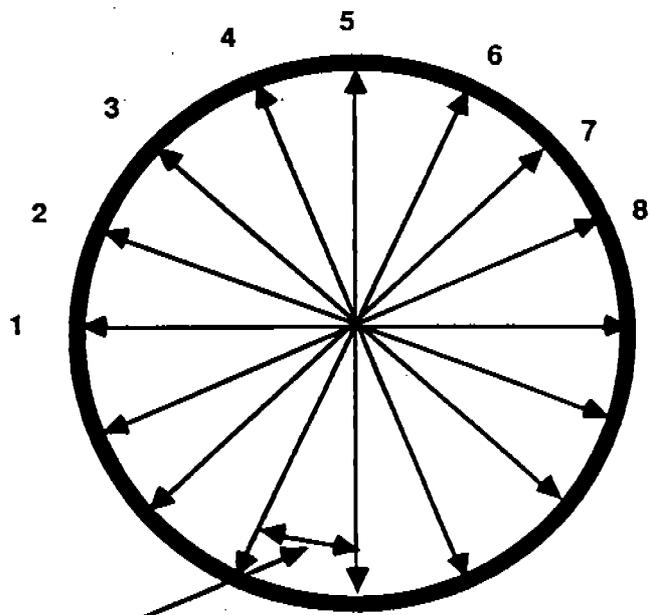
Analyst : sally

Reviewed :

# Nozzle Calibration

Nozzle I.D. : 24

Date : 6/19/91



22.5 degrees

## Points

1 -	<u>.237</u>
2 -	<u>.237</u>
3 -	<u>.240</u>
4 -	<u>.240</u>
5 -	<u>.243</u>
6 -	<u>.240</u>
7 -	<u>.241</u>
8 -	<u>.240</u>

Average Nozzle Diameter = .240

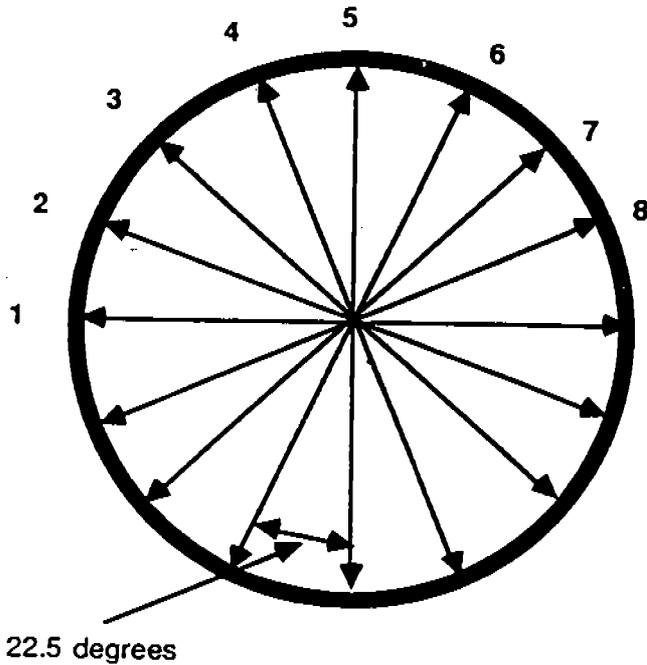
Analyst : sally

Reviewed :

# Nozzle Calibration

Nozzle I.D. : 28

Date : 6/19/91



## Points

1 - .282

2 - .277

3 - .284

4 - .285

5 - .280

6 - .280

7 - .277

8 - .280

Average Nozzle Diameter = .281

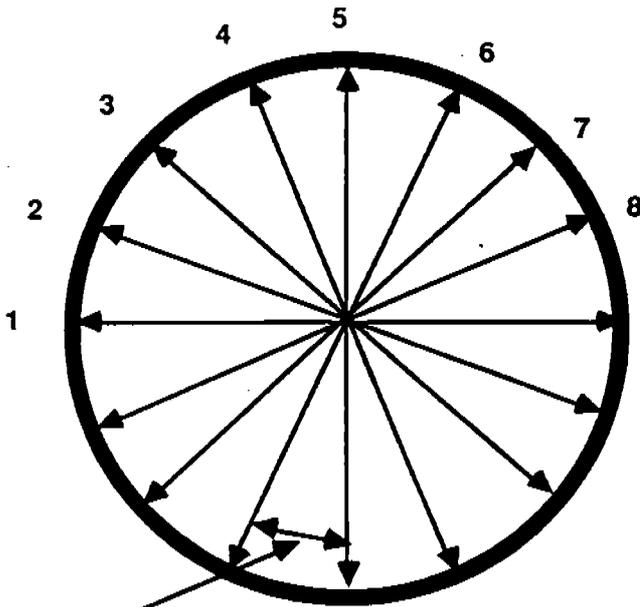
Analyst : sally

Reviewed :

# Nozzle Calibration

Nozzle I.D. : 35

Date : 6/19/91



## Points

- |     |             |
|-----|-------------|
| 1 - | <u>.329</u> |
| 2 - | <u>.326</u> |
| 3 - | <u>.327</u> |
| 4 - | <u>.325</u> |
| 5 - | <u>.319</u> |
| 6 - | <u>.327</u> |
| 7 - | <u>.321</u> |
| 8 - | <u>.322</u> |

22.5 degrees

Average Nozzle Diameter = .325

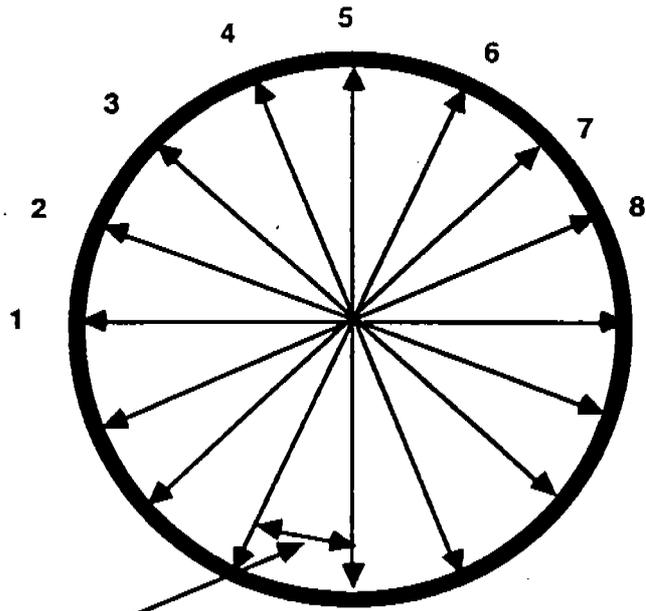
Analyst : sally

Reviewed :

# Nozzle Calibration

Nozzle I.D. : 36

Date : 6/19/91



22.5 degrees

## Points

1 -	<u>.316</u>
2 -	<u>.313</u>
3 -	<u>.311</u>
4 -	<u>.314</u>
5 -	<u>.315</u>
6 -	<u>.313</u>
7 -	<u>.311</u>
8 -	<u>.312</u>

Average Nozzle Diameter = .313

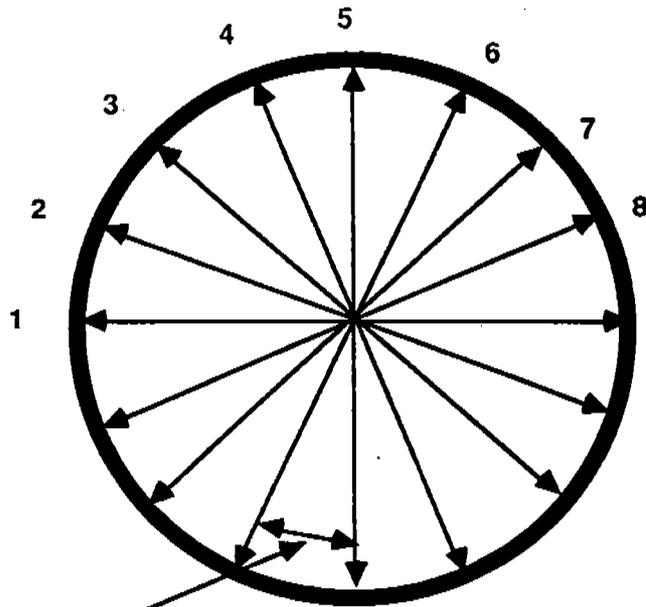
Analyst : sally

Reviewed :

# Nozzle Calibration

Nozzle I.D. : 37

Date : 6/20/91



Points

1 -	<u>.369</u>
2 -	<u>.370</u>
3 -	<u>.372</u>
4 -	<u>.370</u>
5 -	<u>.370</u>
6 -	<u>.374</u>
7 -	<u>.374</u>
8 -	<u>.374</u>

22.5 degrees

Average Nozzle Diameter = .371

Analyst : sally

Reviewed :

**MAGNEHELIC CALIBRATION**

DATE: 2/8/91  
 GAGE ID # M-1  
 RANGE 0-5" in. H2O

SCHEDULED CALIBRATION:  
 SEMI ANNUAL   
 BI-MONTHLY   
 OTHER

REFERENCE ID # 0-10" DWYER MANO

**LEAK CHECK:**

System:	† Set @ 10 in. H2O	vacuum 10 in. P F	pressure 10 in. P F
Point:	†† Set @ 90 % FS in. H2O	vacuum in. P F	pressure in. P F

Point	Incline Delta P Pinc	Magnehelic Delta P Pmag	% Deviation (Pinc-Pmag)/Pinc x 100
1	4.95	4.95	0.000%
	4.95	4.95	0.000%
	4.95	4.95	0.000%
average	4.95	4.95	** 0.000%
2	4.00	4.00	0.000%
	4.00	4.00	0.000%
	4.00	4.00	0.000%
average	4.00	4.00	** 0.000%
3	3.10	3.10	0.000%
	3.10	3.10	0.000%
	3.10	3.10	0.000%
average	3.10	3.10	** 0.000%
4	2.00	2.00	0.000%
	2.00	2.00	0.000%
	2.00	2.00	0.000%
average	2.00	2.00	** 0.000%
5	1.20	1.20	0.000%
	1.20	1.20	0.000%
	1.20	1.20	0.000%
average	1.20	1.20	** 0.000%

**STANDARD CORRECTION FACTOR**

AVERAGE DEVIATION  
 STANDARD DEVIATION  
 95% CONFIDENCE INTERVAL  
 PRECISION( within +/- 3%)

1.000
0.000
0.000
0.000
-1.000

† If pressure or vacuum decreases by more than 1 in. in 5 minutes then remove from service.  
 †† If pressure or vacuum decreases by more than 5% in 5 minutes then remove from service.  
 \*\* These values must be within +/- 5% before the magnehelic can be put into operation.

Calibration by: B0 BO TECH

Reviewed by: \_\_\_\_\_

### MAGNEHELIC CALIBRATION

DATE: 2/7/91  
 GAGE ID # M-2  
 RANGE 0-2 in. H2O

SCHEDULED CALIBRATION:  
 SEMI ANNUAL   
 BI-MONTHLY   
 OTHER

REFERENCE ID # 0-10 DWYER MANO

**LEAK CHECK:**

System:	† Set @ 10 in. H2O	vacuum 10 in. P F	pressure 10 in. P F
Point:	†† Set @ 90 % FS in. H2O	vacuum in. P F	pressure in. P F

Point	Incline Delta P Pinc	Magnehelic Delta P Pmag	% Deviation (Pinc-Pmag)/Pinc x 100
1	1.91	1.90	0.524%
	1.91	1.90	0.524%
	1.91	1.90	0.524%
average	1.91	1.90	** 0.524%
2	1.71	1.75	2.339%
	1.71	1.74	1.754%
	1.71	1.74	1.754%
average	1.71	1.74	** 1.949%
3	1.33	1.37	3.008%
	1.33	1.37	3.008%
	1.33	1.37	3.008%
average	1.33	1.37	** 3.008%
4	1.21	1.24	2.479%
	1.21	1.24	2.479%
	1.21	1.24	2.479%
average	1.21	1.24	** 2.479%
5	0.70	0.72	2.857%
	0.70	0.72	2.857%
	0.70	0.72	2.857%
average	0.70	0.72	** 2.857%

**STANDARD CORRECTION FACTOR**  
 AVERAGE DEVIATION  
 STANDARD DEVIATION  
 95% CONFIDENCE INTERVAL  
 PRECISION( within +/- 3%)

<b>0.981</b>
0.022
0.009
0.023
-0.96

† If pressure or vacuum decreases by more than 1 in. in 5 minutes then remove from service.  
 †† If pressure or vacuum decreases by more than 5% in 5 minutes then remove from service.  
 \*\* These values must be within +/- 5% before the magnehelic can be put into operation.

Calibration by: RTR

Reviewed by: \_\_\_\_\_

### MAGNEHELIC CALIBRATION

DATE: 2/8/91  
 GAGE ID # M-3  
 RANGE 0-5 in. H2O

SCHEDULED CALIBRATION:  
 SEMI-ANNUAL   
 BI-MONTHLY   
 OTHER

REFERENCE ID # 0-10 DWYER MANO

**LEAK CHECK:**

System:	† Set @ 10 in. H2O	vacuum 10 in. P F	pressure 10 in. P F
Point:	†† Set @ 90 % FS in. H2O	vacuum in. P F	pressure in. P F

Point	Incline Delta P Pinc	Magnehelic Delta P Pmag	% Deviation (Pinc-Pmag)/Pinc x 100
1	4.80	5.05	5.208%
	4.80	5.05	5.208%
	4.80	5.05	5.208%
average	4.80	5.05	** 5.208%
2	3.90	3.90	0.000%
	3.90	3.90	0.000%
	3.90	3.90	0.000%
average	3.90	3.90	** 0.000%
3	3.00	3.00	0.000%
	3.00	3.00	0.000%
	3.00	3.00	0.000%
average	3.00	3.00	** 0.000%
4	2.00	2.05	2.500%
	2.00	2.05	2.500%
	2.00	2.05	2.500%
average	2.00	2.05	** 2.500%
5	1.05	1.06	0.952%
	1.05	1.06	0.952%
	1.05	1.06	0.952%
average	1.05	1.06	** 0.952%

**STANDARD CORRECTION FACTOR**  
 AVERAGE DEVIATION  
 STANDARD DEVIATION  
 95% CONFIDENCE INTERVAL  
 PRECISION( within +/- 3%)

0.983
0.017
0.020
0.049
-0.97

† If pressure or vacuum decreases by more than 1 in. in 5 minutes then remove from service.  
 †† If pressure or vacuum decreases by more than 5% in 5 minutes then remove from service.  
 \*\* These values must be within +/- 5% before the magnehelic can be put into operation.

Calibration by: RTR

Reviewed by: \_\_\_\_\_

### MAGNEHELIC CALIBRATION

DATE: 2/8/91  
 GAGE ID # M-4  
 RANGE 0-2" in. H2O

SCHEDULED CALIBRATION:  
 SEMI ANNUAL   
 BI-MONTHLY   
 OTHER

REFERENCE ID # 0-10" DWYER MANO

**LEAK CHECK:**

System:	† Set @ 10 in. H2O	vacuum 10 in. P F	pressure 10 in. P F
Point:	†† Set @ 90 % FS in. H2O	vacuum in. P F	pressure in. P F

Point	Incline Delta P <i>Pinc</i>	Magnehelic Delta P <i>Pmag</i>	% Deviation $(Pinc - Pmag) / Pinc \times 100$
1	1.950	1.95	0.000%
	1.950	1.95	0.000%
	1.950	1.95	0.000%
average	1.95	1.95	** 0.000%
2	1.750	1.75	0.000%
	1.750	1.75	0.000%
	1.750	1.75	0.000%
average	1.75	1.75	** 0.000%
3	1.250	1.26	0.800%
	1.250	1.26	0.800%
	1.250	1.26	0.800%
average	1.25	1.26	** 0.800%
4	0.980	1.00	2.041%
	0.980	1.00	2.041%
	0.980	1.00	2.041%
average	0.98	1.00	** 2.041%
5	0.570	0.58	1.754%
	0.570	0.58	1.754%
	0.570	0.58	1.754%
average	0.57	0.58	** 1.754%

**STANDARD CORRECTION FACTOR**  
 AVERAGE DEVIATION  
 STANDARD DEVIATION  
 95% CONFIDENCE INTERVAL  
 PRECISION( within +/- 3%)

0.991
0.009
0.009
0.021
-0.98

† If pressure or vacuum decreases by more than 1 in. in 5 minutes then remove from service.  
 †† If pressure or vacuum decreases by more than 5% in 5 minutes then remove from service.  
 \*\* These values must be within +/- 5% before the magnehelic can be put into operation.

Calibration by: RTR

Reviewed by: \_\_\_\_\_

301

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5  
 CLIENT: County Line Co. / Eckley LAB NO GIVEN: 912518  
 PROJECT NAME: ~~A-1~~ Cyclones Testing PROJECT NO: 291-204  
 SITE: Hanford  
 SAMPLER: CD DATE SAMPLED: 12/8/91

NO.	RUN 1 <u>Motes Cyclone</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
1	PROBE (Front Half)	1	225	X			
2	IMPINGERS # 1+2+3	1	500	X			
3	FILTER B-8	1	N/A		X		

NO.	RUN 2 <u>Motes Cyclone</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
4	PROBE (Front Half)	1	175	X			
5	IMPINGERS # 1+2+3	1	525	X			
6	FILTER B-92	1	N/A		X		

NO.	RUN 3 <u>Motes Cyclone</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
7	PROBE (Front Half)	1	200	X			
8	IMPINGERS # 1+2+3	1	510	X			
9	FILTER B-48	1	N/A	X	X		
10	OI - Blank		X*				

Comments: Use 100ml for OI/Blank

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
 \*\*\*\*\*

METHOD: PM-10  
 CLIENT: County Line Gin/Eckley  
 PROJECT NAME: Cyclones Testing  
 SITE: Hanford  
 SAMPLER: CD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/8/91

NO.	RUN 1 <u>Motes</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
11	FILTER (slotted) +10	1	# H-1	N/A	X		
12	FILTER (slotted) +10	1	# H-2	N/A	X		
13	FILTER (solid) -10	1	# I-1	N/A	X		
14	IMPACTOR (front half) +10	1	275	X			
15	PROBE+IMPINGERS(back half) -10	1	525	X			

NO.	RUN 2 <u>Motes</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
16	FILTER (slotted) +10	1	# H-3	N/A	X		
17	FILTER (slotted) +10	1	# H-4	N/A	Y		
18	FILTER (solid) -10	1	# I-2	N/A	X		
19	IMPACTOR (front half) +10	1	275	Y			
20	PROBE+IMPINGERS(back half) -10	1	525	X			

NO.	RUN 3 <u>Motes</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
21	FILTER (slotted) +10	1	# H-5	N/A	Y		
22	FILTER (slotted) +10	1	# H-6	N/A	Y		
23	FILTER (solid) -10	1	# I-3	N/A	X		
24	IMPACTOR (front half) +10	1	275	Y			
25	PROBE+IMPINGERS(back half) -10	1	525	Y			

Comments: \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5  
 CLIENT: County Line / Eckley  
 PROJECT NAME: Suction Cyclone  
 SITE: Hanford  
 SAMPLER: CD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/8/91

NO.	RUN 1 <u>Suction</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
26	PROBE (Front Half)	1	200	X			
27	IMPINGERS # 1+2+3	1	500	X			
28	FILTER B-50	1	N/A		X		

NO.	RUN 2 <u>Suction</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
29	PROBE (Front Half)	1	260	X			
30	IMPINGERS # 1+2+3	1	520	X			
31	FILTER B-54	1	N/A	X			

NO.	RUN 3 <u>Suction</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
32	PROBE (Front Half)	1	200	X			
33	IMPINGERS # 1+2+3	1	475	X			
34	FILTER B-55	1	N/A		X		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 394

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
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METHOD: PM10  
 CLIENT: County Line/Eckley  
 PROJECT NAME: Suction aydro  
 SITE: Hanford  
 SAMPLER: CD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/8/91

NO.	RUN 1 <u>Suction</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
35	FILTER (slotted) +10	1	# H-7	N/A	X		
36	FILTER (slotted) +10	1	# H-8	N/A	X		
37	FILTER (solid) -10	1	# I-4	N/A	X		
38	IMPACTOR (front half) +10	1	250	X			
39	PROBE+IMPINGERS(back half) -10	1	510	X			

NO.	RUN 2 <u>Suction</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
40	FILTER (slotted) +10	1	# H-9	N/A	X		
41	FILTER (slotted) +10	1	# H-10	N/A	X		
42	FILTER (solid) -10	1	# I-5	N/A	X		
43	IMPACTOR (front half) +10	1	275	X			
44	PROBE+IMPINGERS(back half) -10	1	500	X			

NO.	RUN 3 <u>Suction</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
45	FILTER (slotted) +10	1	# H-11	N/A	X		
46	FILTER (slotted) +10	1	# H-12	N/A	X		
47	FILTER (solid) -10	1	# I-6	N/A	X		
48	IMPACTOR (front half) +10	1	275	X			
49	PROBE+IMPINGERS(back half) -10	1	490	X			

Comments: \_\_\_\_\_

395

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5  
 CLIENT: County Line Eckley  
 PROJECT NAME: Lint Chamber  
 SITE: HAND  
 SAMPLER: TD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/9/91

NO.	RUN 1 <u>Lint Chamber</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
50	PROBE (Front Half)	1	175	X			
51	IMPINGERS # 1+2+3	1	450	X			
52	FILTER <u>B-57</u>	1	N/A		X		

NO.	RUN 2 <u>Lint Chamber</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
53	PROBE (Front Half)	1	225	X			
54	IMPINGERS # 1+2+3	1	350	X			
55	FILTER <u>B-58</u>	1	N/A		X		

NO.	RUN 3 <u>Lint Chamber</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
56	PROBE (Front Half)	1	200	X			
57	IMPINGERS # 1+2+3	1	400	X			
58	FILTER <u>B-59</u>		N/A		X		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
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 396

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
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METHOD: Pm-10

CLIENT: County Line / Eckley

LAB NO GIVEN: 912518

PROJECT NAME: Lint Cleaning

PROJECT NO: 291-204

SITE: HANFORD

SAMPLER: TP

DATE SAMPLED: 12/9/94

NO.	RUN 1 <u>Lint cleaning</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
59	FILTER (slotted) +10	1	# H-13	N/A	X		
60	FILTER (slotted) +10	1	# H-14	N/A	X		
61	FILTER (solid) -10	1	# I-7	N/A	X		
62	IMPACTOR (front half) +10		150	X			
63	PROBE+IMPINGERS (back half) -10	1	450	X			

NO.	RUN 2 <u>Lint cleaning</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
64	FILTER (slotted) +10	1	# H-15	N/A	X		
65	FILTER (slotted) +10	1	# H-16	N/A	X		
66	FILTER (solid) -10	1	# I-8	N/A	X		
67	IMPACTOR (front half) +10		100	X			
68	PROBE+IMPINGERS (back half) -10	1	350	X			

NO.	RUN 3 <u>Lint cleaning</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
69	FILTER (slotted) +10	1	# H-17	N/A	X		
70	FILTER (slotted) +10	1	# H-18	N/A	X		
71	FILTER (solid) -10	1	# I-9	N/A	X		
72	IMPACTOR (front half) +10		75 <sup>M</sup>	X			
73	PROBE+IMPINGERS (back half) -10	1	400	X			

Comments: \_\_\_\_\_

397

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5  
 CLIENT: County Line / Eckley  
 PROJECT NAME: Over Flow Ceydnp  
 SITE: Hanford  
 SAMPLER: CD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/8/91

NO.	RUN 1 <u>Over Flow</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
74	PROBE (Front Half)	1	230	X			
75	IMPINGERS # 1+2+3	1	310	X			
76	FILTER B-60	1	N/A		X		

NO.	RUN 2 <u>Over Flow</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
77	PROBE (Front Half)	1	150	X			
78	IMPINGERS # 1+2+3	1	310	X			
79	FILTER B-61	1	N/A		X		

NO.	RUN 3 <u>Over Flow</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
80	PROBE (Front Half)	1	120	X			
81	IMPINGERS # 1+2+3	1	470	X			
82	FILTER B-62	1	N/A		X		

Comments: \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
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METHOD: PM10  
 CLIENT: County Line/Eckley  
 PROJECT NAME: Over Flow Cyclone  
 SITE: Honford  
 SAMPLER: CD

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/9/91

NO.	RUN 1 <u>Overflow</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
83	FILTER (slotted) +10	1	# H19	N/A	Y		
84	FILTER (slotted) +10	1	# H20	N/A	Y		
85	FILTER (solid) -10	1	# I10	N/A	Y		
86	IMPACTOR (front half) +10	1	115	X			
87	PROBE+IMPINGERS(back half) -10	1	320	X			

NO.	RUN 2 <u>Overflow</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
88	FILTER (slotted) +10	1	# H21	N/A	Y		
89	FILTER (slotted) +10	1	# H22	N/A	Y		
90	FILTER (solid) -10	1	# I11	N/A	Y		
91	IMPACTOR (front half) +10	1	90	Y			
92	PROBE+IMPINGERS(back half) -10	1	380	Y			

NO.	RUN 3 <u>Overflow</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
93	FILTER (slotted) +10	1	# H23	N/A	Y		
94	FILTER (slotted) +10	1	# H24	N/A	Y		
95	FILTER (solid) -10	1	# I12	N/A	Y		
96	IMPACTOR (front half) +10	1	185	Y			
97	PROBE+IMPINGERS(back half) -10	1	510	Y			

Comments: \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5

CLIENT: County Line/Echler

LAB NO GIVEN: 912518

PROJECT NAME: #1 Drying Cyclone

PROJECT NO: 291-204

SITE: Hanford

SAMPLER: TP

DATE SAMPLED: 12/10/91

NO.	RUN 1 <u>#1 Drying</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
98	PROBE (Front Half)	1	240	X			
99	IMPINGERS # 1+2+3	1	420	X			
102	FILTER B-63	1	N/A		X		

NO.	RUN 2 <u>#1 Drying</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
101	PROBE (Front Half)	1	250	X			
102	IMPINGERS # 1+2+3	1	500	X			
103	FILTER B-64	1	N/A		X		

NO.	RUN 3 <u>#1 Drying</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
104	PROBE (Front Half)	1	290	X			
105	IMPINGERS # 1+2+3	1	475	X			
106	FILTER B-65	1	N/A		X		

Comments: \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
\*\*\*\*\*

METHOD: PM10

912518

CLIENT: Countyline Eckley

LAB NO GIVEN: \_\_\_\_\_

PROJECT NAME: #1 Drying Cyclone

PROJECT NO: 291-204

SITE: Harford

SAMPLER: GP

DATE SAMPLED: \_\_\_\_\_

NO.	RUN 1 <u>#1 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
107	FILTER (slotted) +10	1	# H25	N/A	X		
108	FILTER (slotted) +10	1	# H26	N/A	X		
109	FILTER (solid) -10	1	# I13	N/A	X		
110	IMPACTOR (front half) +10	1	270	X			
111	PROBE+IMPINGERS(back half) -10	1	540	X			

NO.	RUN 2 <u>#1 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
112	FILTER (slotted) +10	1	# H27	N/A	X		
113	FILTER (slotted) +10	1	# H28	N/A	X		
114	FILTER (solid) -10	1	# I-14	N/A	X		
115	IMPACTOR (front half) +10	1	275	X			
116	PROBE+IMPINGERS(back half) -10	1	500	X			

NO.	RUN 3 <u>#1 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
117	FILTER (slotted) +10	1	# H29	N/A	X		
118	FILTER (slotted) +10	1	# H30	N/A	X		
119	FILTER (solid) -10	1	# I16	N/A	X		
120	IMPACTOR (front half) +10	1	215	X			
121	PROBE+IMPINGERS(back half) -10	1	515	X			

Comments: \_\_\_\_\_

408

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PARTICULATE ANALYSIS  
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METHOD: 5  
 CLIENT: County Line / Eckley  
 PROJECT NAME: Grin Stand Trash  
 SITE: Hanford  
 SAMPLER: TIP

LAB NO GIVEN: 81251-8  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/10/91

NO.	RUN 1 <u>Grin Stand Trash</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
122	PROBE (Front Half)	1	250	X			
123	IMPINGERS # 1+2+3	1	475	X			
124	FILTER B-66	1	N/A		X		

NO.	RUN 2 <u>Grin Stand Trash</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
125	PROBE (Front Half)	1	210	X			
126	IMPINGERS # 1+2+3	1	375	X			
127	FILTER B-67	1	N/A		X		

NO.	RUN 3 <u>Grin Stand Trash</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
128	PROBE (Front Half)	1	165	X			
129	IMPINGERS # 1+2+3	1	420	X			
130	FILTER B-68	1	N/A		X		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
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PM10 PART. ANALYSIS  
 \*\*\*\*\*

METHOD: PM10

CLIENT: County Line/Eckley

LAB NO GIVEN: 912518

PROJECT NAME: Gin Stand Trash

PROJECT NO: 291-204

SITE: Hanford

SAMPLER: TP

DATE SAMPLED: 12/10/91

NO.	RUN 1 <u>Gin Stand Trash</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
131	FILTER (slotted) +10	1	# H31	N/A	Y		
132	FILTER (slotted) +10	1	# H32	N/A	Y		
133	FILTER (solid) -10	1	# I16	N/A	X		
134	IMPACTOR (front half) +10	1	260	Y			
135	PROBE+IMPINGERS (back half) -10	1	475	Y			

NO.	RUN 2 <u>Gin Stand Trash</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
136	FILTER (slotted) +10	1	# G14	N/A	Y		
137	FILTER (slotted) +10	1	# G20	N/A	X		
138	FILTER (solid) -10	1	# I17	N/A	Y		
139	IMPACTOR (front half) +10	1	240	Y			
140	PROBE+IMPINGERS (back half) -10	1	475	Y			

NO.	RUN 3 <u>Gin Stand Trash</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
141	FILTER (slotted) +10	1	# G22	N/A	X		
142	FILTER (slotted) +10	1	# G27	N/A	X		
143	FILTER (solid) -10	1	# I18	N/A	X		
144	IMPACTOR (front half) +10	1	250	Y			
145	PROBE+IMPINGERS (back half) -10	1	500	Y			

Comments: \_\_\_\_\_

403

SOURCE TESTING SAMPLE INFORMATION SHEET  
 \*\*\*\*\*

PARTICULATE ANALYSIS  
 \*\*\*\*\*

METHOD: 5  
 CLIENT: County Line / Eddy  
 PROJECT NAME: Battery Condenser  
 SITE: Hanford  
 SAMPLER: TVA

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/11/91

NO.	RUN 1: <u>Battery</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
146	PROBE (Front Half)	1	145	X			
147	IMPINGERS # 1+2+3	1	400	X			
148	FILTER B-69	1	N/A		X		
1							

NO.	RUN 2: <u>Battery</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
144	PROBE (Front Half)	1	175	X			
150	IMPINGERS # 1+2+3	1	450	X			
151	FILTER B-76	1	N/A		X		

NO.	RUN 3: <u>Battery</u>	# of cont	TOT VOL	TOT WGHT	GROSS WGHT		
152	PROBE (Front Half)	1	170	X			
153	IMPINGERS # 1+2+3	1	450	X			
154	FILTER B-71	1	N/A		X		

Comments: \_\_\_\_\_

SOURCE TESTING SAMPLE INFORMATION SHEET  
 \*\*\*\*\*

PM10 PART. ANALYSIS  
 \*\*\*\*\*

METHOD: PM10  
 CLIENT: County Line / Eckley  
 PROJECT NAME: Battery Condenser  
 SITE: Hanford  
 SAMPLER: T.P.

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/11/91

NO.	RUN 1 <u>Battery</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
155	FILTER (slotted) +10	1	# 628	N/A	X		
156	FILTER (slotted) +10	1	# 630	N/A	X		
157	FILTER (solid) -10	1	# I19	N/A	X		
158	IMPACTOR (front half) +10	1	145	Y			
159	PROBE+IMPINGERS (back half) -10	1	525	X			

NO.	RUN 2 <u>Battery</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
160	FILTER (slotted) +10	1	# 632	N/A	X		
161	FILTER (slotted) +10	1	# 633	N/A	X		
162	FILTER (solid) -10	1	# I20	N/A	X		
163	IMPACTOR (front half) +10	1	175	Y			
164	PROBE+IMPINGERS (back half) -10	1	500	X			

NO.	RUN 3 <u>Battery</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
165	FILTER (slotted) +10	1	# 641	N/A	X		
166	FILTER (slotted) +10	1	# 643	N/A	X		
167	FILTER (solid) -10	1	# I21	N/A	X		
168	IMPACTOR (front half) +10	1	185	Y			
169	PROBE+IMPINGERS (back half) -10	1	500	Y			

Comments: \_\_\_\_\_  
 \_\_\_\_\_ 405 \_\_\_\_\_



SOURCE TESTING SAMPLE INFORMATION SHEET  
 \*\*\*\*\*

PM10 PART. ANALYSIS  
 \*\*\*\*\*

METHOD: PM10  
 CLIENT: County Line / Eckley  
 PROJECT NAME: #2 Drying Cyclone  
 SITE: Hanford  
 SAMPLER: TP

LAB NO GIVEN: 912518  
 PROJECT NO: 291-204  
 DATE SAMPLED: 12/11/91

NO.	RUN 1 <u>#2 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
179	FILTER (slotted) +10	1	# 652	N/A	X		
180	FILTER (slotted) +10	1	# 671	N/A	X		
181	FILTER (solid) -10	1	# F-22	N/A	X		
182	IMPACTOR (front half) +10	1	200	X			
183	PROBE+IMPINGERS(back half) -10	1	480	X			

NO.	RUN 2 <u>#2 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
184	FILTER (slotted) +10	1	# 672	N/A	X		
185	FILTER (slotted) +10	1	# 673	N/A	X		
186	FILTER (solid) -10	1	# G-120	N/A	X		
187	IMPACTOR (front half) +10	1	240	X			
188	PROBE+IMPINGERS(back half) -10	1	500	X			

NO.	RUN 3 <u>#2 Drying</u>	# of cont	TOT VOL or FIL #	TOT RES	GROSS WT		
189	FILTER (slotted) +10	1	# B-76	N/A	X		
190	FILTER (slotted) +10	1	# G-84	N/A	X		
191	FILTER (solid) -10	1	# G-126	N/A	X		
192	IMPACTOR (front half) +10	1	250	X			
193	PROBE+IMPINGERS(back half) -10	1	500	X			

Comments: \_\_\_\_\_

407



CHAIN OF CUSTODY RECORD

012518

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS		ANALYSIS	REMARKS	CHECK IF RUSH
		NO.	OF			
291-204	Donby Cone / Eckley				Notes Cyclone	
SAMPLERS (Signature) <i>[Signature]</i>						
NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	
11	12/30				PM10	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
Relinquished by: (Signature) <i>[Signature]</i> Date/Time 12/31/10						
Received by: (Signature) <i>[Signature]</i> Date/Time 1/12/11 8:00						
Relinquished by: (Signature) <i>[Signature]</i> Date/Time 12/31/10						
Received by: (Signature) <i>[Signature]</i> Date/Time 1/12/11 8:00						
Relinquished by: (Signature) <i>[Signature]</i> Date/Time						
Received for Laboratory by: (Signature) <i>[Signature]</i> Date/Time						
NAME ADDRESS PHONE NO.						





1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: \_\_\_\_\_ 0153

Address: \_\_\_\_\_

CHAIN OF CUSTODY RECORD

Phone #: ( ) \_\_\_\_\_ Contact: \_\_\_\_\_

NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH	
	12/8				35	1	Total Residual Hydrocarbons	Suction System		
					36	1			X	
					37	1			X	
					38	1			X	
					39	1			X	
					40	1			X	
112					41	1			X	
					42	1			X	
					43	1			X	
					44	1			X	
					45	1			X	
					46	1	X			
					47	1	X			
					48	1	X			
					49	1	X			

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 12/12 5:15	Received by: (Signature) <i>[Signature]</i>	Date/Time 12/13/91 8:00
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
NAME ADDRESS		PHONE NO.	

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1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: \_\_\_\_\_  
Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

PROJ. NO.	PROJECT NAME	NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
291-204	County Line / Eckley	50	12/9				50		X		
		51					51		X		
		52					52		X		
		53					53		X		
		54					54		X		
		55					55		X		
		56					56		X		
		57					57		X		
		58					58		X		

*Handwritten:* ANALYSIS: Total Metals, Cross Section

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>Tom Butler</i>	Date/Time 12/13/91	Received by: (Signature) <i>Kenaditmore</i>	Date/Time 8:00
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
NAME		ADDRESS	
PHONE NO.			

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412



1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company:

Address:

CHAIN OF CUSTODY RECORD

Contact:

Phone #:

PROJ. NO. 291-204

PROJECT NAME County Line Schley

SAMPLERS: (Signatures)

NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
59	12/19	11:00 AM			59		X X X		
60					60		X X X		
61					61		X X X		
62					62		X X X		
63					63		X X X		
64					64		X X X		
65					65		X X X		
66					66		X X X		
67					67		X X X		
68					68		X X X		
69					69		X X X		
70					70		X X X		
71					71		X X X		
72					72		X X X		
73					73		X X X		

4/3

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Received by: (Signature) 	Date/Time 12/13/91	Received by: (Signature) 12/13/91 8:10	Date/Time
Received for Laboratory by: (Signature) Y. N. Dittmore	Date/Time	NAME	ADDRESS
PHONE NO.			

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1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: \_\_\_\_\_

Address: \_\_\_\_\_

01068

CHAIN OF CUSTODY RECORD

Contact: \_\_\_\_\_

Phone #: ( \_\_\_\_\_ ) \_\_\_\_\_

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
291-204	County Line / Eckelley	1	X	Overflow Cup loose	
		1	X		
		1	X		
		1	X		
		1	X		
		1	X		
		1	X		
		1	X		
		1	X		

Total for Billing  
13 550  
Gross

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>Don Peter</i>	Date/Time 12/12 5:15 PM	Received by: (Signature) <i>Y. McDiarmid</i>	Date/Time 12/13/91 8:00
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
NAME		ADDRESS	
PHONE NO.			

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414

**BTC** ENVIRONMENTAL INCORPORATED

1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
0125

**CHAIN OF CUSTODY RECORD**

Phone #: ( ) \_\_\_\_\_ Contact: \_\_\_\_\_

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH	DATE/TIME		DATE/TIME	
						DATE	TIME	DATE/TIME	DATE/TIME
241-201	Cowby Line / Feb 04								
SAMPLERS: (Signature) <i>T. J. [Signature]</i>									
7 / 02 05									
NO.	DATE	TIME	COM	GRAB	SAMPLE I.D.				
	12/9				83	X			
					84	X			
					85	X			
					86	X			
					87	X			
					88	X			
					89	X			
					90	X			
					91	X			
					92	X			
					93	X			
					94	X			
					95	X			
					96	X			
					97	X			

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 12/13/97	Received by: (Signature) <i>[Signature]</i>	Date/Time 12/13/97	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time 12/12 5:15 PM	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date/Time 12/13/97	NAME <i>[Name]</i>	ADDRESS	PHONE NO.	

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415





ENVIRONMENTAL INCORPORATED

1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: \_\_\_\_\_  
Address: \_\_\_\_\_

01510

CHAIN OF CUSTODY RECORD

Phone #: \_\_\_\_\_ Contact: \_\_\_\_\_

NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	REMARKS	CHECK IF RUSH
Total Testing 8/15/91								
Cross (X)								
	12/10				107	1	#1 Drying Cyclone	
					108	1		
					109	1		
					110	1		
					111	1		
					112	1		
					113	1		
					114	1		
					115	1		
					116	1		
					117	1		
					118	1		
					119	1		
					120	1		
					121	1		

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

12/13/91

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 12/12 5:15 PM	Received by: (Signature) <i>[Signature]</i>	Date/Time 12/13/91 8:00
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
NAME ADDRESS		PHONE NO.	

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417





1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: DLA 1102  
Address: 01-61

**CHAIN OF CUSTODY RECORD**

Phone #: ( ) - ( ) - ( ) Contact: \_\_\_\_\_

PROJ. NO.	PROJECT NAME	NO.	DATE	TIME	Q	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
291-204	County Line/Echides		11/10				131	1	Gravel	6 in Stand Trash/Leachate	
							132				
							133				
							134				
							135		X		
							136		X		
							137		X		
							138		X		
							139		X		
							140		X		
							141		X		
							142		X		
							143		X		
							144		X		
							145		X		

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Received by: (Signature) <i>[Signature]</i>	Date/Time 12/13/91	Received by: (Signature) 12/13/91	Date/Time 8:20
Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 12/12 5:58p	Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 8:20
NAME <i>[Name]</i>		ADDRESS	
PHONE NO.		PHONE NO.	

WHITE COPY \_\_\_\_\_ CANARY COPY \_\_\_\_\_ PINK COPY \_\_\_\_\_



1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

BILL TO Company: 111-1521  
Address: 01151

CHAIN OF CUSTODY RECORD

Phone #: ( ) \_\_\_\_\_ Contact: \_\_\_\_\_

NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
291-201	12/11				146	1	Total Res/Chlor Gases (X)	Battery Condenser Cyclone	
					147	1			
					148	1			
					149	1			
					150	1			
					151	1			
					152	1			
					153	1			
					154	1			

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Received by: (Signature) [Signature] Date/Time 12/13/91 8:00  
 Received for Laboratory by: (Signature) [Signature] Date/Time 12/12/91  
 Relinquished by: (Signature) [Signature] Date/Time \_\_\_\_\_  
 Relinquished for Laboratory by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

NAME \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE NO. \_\_\_\_\_

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420



1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

**CHAIN OF CUSTODY RECORD**

**BILL TO Company:** WVLS

**Address:** \_\_\_\_\_

**Contact:** \_\_\_\_\_

**Phone #:** ( ) \_\_\_\_\_

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH	SAMPLERS: (Signature)											
						NO.	DATE	TIME									
NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.												
291-201	Cocounty Cive/Eckley	1	Total Pesticides Cross Check	Battery Condenser Capture		155	12/11										
		1				156											
		1				157											
		1				158											
		1				159											
		1				160											
		1				161											
		1				162											
		1				163											
		1				164											
		1				165											
		1				166											
		1				167											
		1				168											
		1				169											

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>Tom Carter</i>	Date/Time 12/13/91	Received by: (Signature) <i>Tom Carter</i>	Date/Time 12/13/91
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time
NAME <i>Tom Carter</i>		ADDRESS	
PHONE NO.		PHONE NO.	

WHITE COPY \_\_\_\_\_ CANARY COPY \_\_\_\_\_ PINK COPY \_\_\_\_\_

421.



1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

**CHAIN OF CUSTODY RECORD**

**BILL TO** Company: Winn-Dixie  
Address: 10151

Phone #: ( ) Contact:

PROJ. NO.	PROJECT NAME	NO.	DATE	TIME	COM	GRAB	SAMPLE I.D.	NO. OF CONTAINERS	REMARKS	CHECK IF RUSH
291-204	County line / Eckley		12/11				# 170	1	#2 Boylory Cyclone	
							171	1		
							172	1		
							173	1		
							174	1		
							775	1		
							776	1		
							177	1		
							178	1		

ANALYSIS  
 Gross 550  
 Net 100  
 Total 650

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature) <i>Tom Baker</i>	Date/Time 12/12 5:16 PM	Received by: (Signature) <i>Anna Dittme</i>	Date/Time 12/13/91 8:00
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
NAME		NAME	
ADDRESS		ADDRESS	
PHONE NO.		PHONE NO.	

WHITE COPY \_\_\_\_\_ CANARY COPY \_\_\_\_\_ PINK COPY \_\_\_\_\_

**BTC**

**ENVIRONMENTAL  
INCORPORATED**

1536 Eastman Avenue  
Ventura, CA 93003  
(805) 644-1095

**BILL TO**

BY:

Address:

11111 1531 0108

**CHAIN OF CUSTODY RECORD**

Phone #:

Contact:

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)			NO. OF CONTAINERS	ANALYSIS	REMARKS	CHECK IF RUSH
		NO.	DATE	TIME				
NO.	DATE	TIME	COMP	GRAB	SAMPLE I.D.			
	291-204	12/11			# 179	X		
	County Line/Eckley				180	X		
					181	X		
					182	X		
					183	X		
					184	X		
					185	X		
					186	X		
					187	X		
					188	X		
					189	X		
					190	X		
					191	X		
					192	X		
					193	X		

ANALYSIS  
PMP 17501 17502 17503 17504 17505 17506 17507 17508 17509 17510 17511 17512 17513 17514 17515 17516 17517 17518 17519 17520 17521 17522 17523 17524 17525 17526 17527 17528 17529 17530 17531 17532 17533 17534 17535 17536 17537 17538 17539 17540 17541 17542 17543 17544 17545 17546 17547 17548 17549 17550 17551 17552 17553 17554 17555 17556 17557 17558 17559 17560 17561 17562 17563 17564 17565 17566 17567 17568 17569 17570 17571 17572 17573 17574 17575 17576 17577 17578 17579 17580 17581 17582 17583 17584 17585 17586 17587 17588 17589 17590 17591 17592 17593 17594 17595 17596 17597 17598 17599 17600

#2 Drying Cyclone

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

12-13-91

Received by: (Signature) *[Signature]* Date/Time 12/12/91 5:15 PM  
 Received for Laboratory by: (Signature) *[Signature]* Date/Time 8:00  
 Relinquished by: (Signature) *[Signature]* Date/Time  
 Relinquished by: (Signature) *[Signature]* Date/Time

NAME \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

27