APPENDIX F.

AIRNOVA, INC. – EMISSION EVALUATION TEST REPORT

MAY 2007

Project No. 3033

Gas Technology Institute (GTI)
@ The Phase III Cement Lock Technology
Demonstration on Passaic River Sediments
Fabric Filter Baghouse Outlet,
Activated Carbon Bed Outlet, and Granulator Outlet
Bayonne, New Jersey

Emission Evaluation Test Report

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1.0 Introduction

AirNova, Inc. conducted an emission evaluation test program on May 16-18, 2007 at the Cement Lock Technology Demonstration Site located in Bayonne, New Jersey. Emission sampling was conducted at the Fabric Filter Baghouse Outlet (also identified as the Activated Carbon Bed Inlet) and the Activated Carbon Bed Outlet to evaluate air emissions associated with the Cement Lock process for the following emission parameters:

- Nitrogen Oxides (NO_x)*
- Carbon Monoxide (CO)*
- Volatile Organic Compounds (VOCs)*
- Total Suspended Particulate Matter (TSP)*
- Particulate Matter < 10 Microns (PM-10)*
- Sulfur Oxides (SO_x)
- Dioxins and Furans
- Toxic Metals
- Polychlorinated Biphenyls (PCBs)
- Hydrogen Chloride (HCl) and Chlorine (Cl_2)
- Polycyclic Aromatic Hydrocarbons (PAHs) or Semivolatile Organic Compounds (SVOCs)

* These emissions were determined at the Carbon Bed Outlet only.

Water vapor emission sampling was additionally performed at the granulator outlet. Two (2) samples were withdrawn from the test location collecting approximately 2-3 liters of condensate. The samples for this test location were analyzed for SVOCs, VOCs, PCBs, Dioxins, Furans, and Mercury.

Emission sampling was also conducted to determine the carbon bed capture efficiency for the above emission parameters that were conducted at both the Carbon Bed Inlet and Carbon Bed Outlet.

AirNova, Inc. was responsible for the performance of the on-site sampling and sample analysis as well as preparation of this final test report presenting the test results and discussions of all sampling and analytical methods utilized.

This report contains a description of the emission sources, the test locations, and the test methodologies that were utilized in the performance of this program. Questions or comments concerning this report may be directed to:

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2.0 Source Description

The Cement Lock Technology at the Cement Lock Demonstration Site was developed by Gas Technology Institute (GTI) and Unitel Technologies and is licensed by Endesco Clean Harbors (ECH). The technology is a thermo-chemical environmental remediation process that generates a by-product that can be incorporated into construction-grade cement. A generalized schematic of the Cement Lock process is provided in Figure 2-1 on page 5. According to GTI, feed stock for the manufacturing process can be hazardous or nonhazardous wastes such as dredged sediments, soils, sludges, municipal solid wastes, debris from Brownfields projects, chemical wastes, and incinerator ash and residues. The manufacturing process creates a calcium-alumino-silicate glass termed Ecomelt, which is expected to have characteristics suitable for incorporation into cement. The process of creating Ecomelt is claimed to destroy organic contaminants and to immobilize inorganic contaminants within the Ecomelt.

2.1 Sampling Port Locations

Emission sampling was conducted at the Activated Carbon Bed Inlet in a round, vertical section of exhaust duct which has an outer diameter (O.D.) of 42 inches and an inner diameter (I.D.) of 36 inches. Two (2) sampling ports located 2.3 duct diameters downstream and 0.8 duct diameters upstream from the nearest flow disturbances were utilized for all emissions sampling. A total of twenty-four (24) traverse points were utilized for all volumetric flow rate determinations and isokinetic sampling. The traverse points were located as follows:

Table 2-1
Cement Lock Demonstration Site
Activated Carbon Bed Inlet
Emission Evaluation Test Program
Traverse Point Locations

Traverse Point	% Stack Diameter	Location (Inches)
1	2.1	0.8
2	6.7	2.4
3	11.8	4.2
4	17.7	6.4

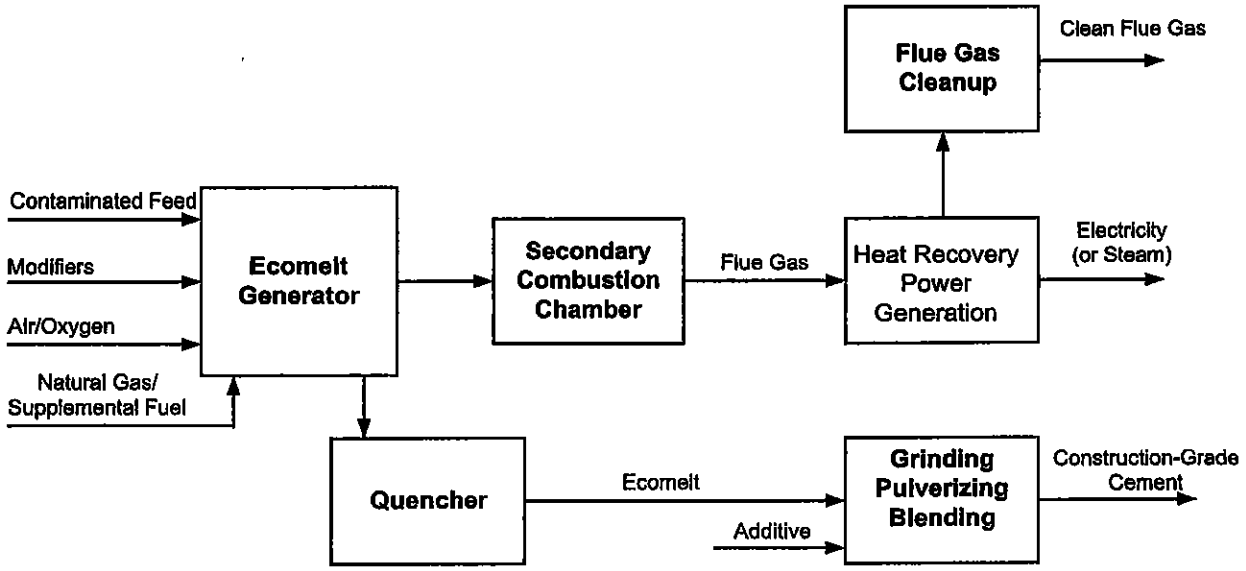
5	25.0	9.0
6	35.6	12.8
7	64.4	23.2
8	75.0	27.0
9	82.3	29.6
10	88.2	31.8
11	93.3	33.6
12	97.9	35.2

Emission sampling was also conducted at the Activated Carbon Bed Outlet in a round, vertical section of exhaust duct which is 36 inches in diameter. Two (2) sampling ports located 6.3 duct diameters downstream and 3.5 duct diameters upstream from the nearest flow disturbances were utilized for all emissions sampling. A total of sixteen (16) traverse points were utilized for all volumetric flow rate determinations and isokinetic sampling. The traverse points were located as follows:

Table 2-2
Cement Lock Demonstration Site
Granular Activated Carbon Bed Outlet
Emission Evaluation Test Program
Traverse Point Locations

Traverse Point	% Stack Diameter	Location (Inches)
1	3.2	1.2
2	10.5	3.8
3	19.4	7.0
4	32.3	11.6
5	67.7	24.4
6	80.6	29.0
7	89.5	32.2
8	96.8	34.8

Figure 2-1
Cement Lock Demonstration Site
Cement Lock Technology
Generalized Process Flow Diagram



3.0 Summary of Test Results

A complete summary of the test results conducted at the Cement Lock Demonstration Site at the Activated Carbon Bed Inlet, the Activated Carbon Bed Outlet, and the Granulator Outlet is provided in tabular format. Emission sampling was conducted on May 16-18, 2007 to evaluate air and condensate emissions associated with the Cement Lock process. The list of tables which follows indicates the order in which the summary tables have been provided.

Cement Lock Demonstration Site
Emission Evaluation Test Program
Summary of Test Results Tables

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Table 3-1
Cement Lock Demonstration Site
Carbon Bed Outlet
NO_x, CO, and VOCs
Test Results Summary

Run No.	**1**	**2**	**3**	**4**	**Average**
Date	05/16/07	05/17/07	05/17/07	05/18/07	
Time Period	1155-1600	0835-1307	1545-1915	0827-1149	
Exhaust Gas Characteristics					
Oxygen (%-dry)	4.61	5.18	5.04	6.07	5.23
Carbon Dioxide (%-dry)	9.79	9.41	9.49	8.71	9.35
Temperature (° F)	277	278	288	265	277
Moisture (%)	53.6	54.1	54.4	53.2	53.8
Velocity (fps)	35.1	34.9	36.0	34.0	35.0
Flow Rate (ACFM)	14,872	14,818	15,257	14,409	14,839
Flow Rate (DSCFM)	4,960	4,911	4,963	4,994	4,957
Carbon Monoxide*					
Concentration (ppmVd)	>41.5	5.4	10.1	2.8	>15.0
Concentration (ppmVd @ 7% O_2)	>35.4	4.8	8.9	2.6	>12.9
Emission Rate (lb/hr)	>0.89	0.12	0.22	0.06	>0.32
Volatile Organic Compounds					
Concentration (ppmVd)	20.5	7.0	17.1	4.7	12.3
Concentration (ppmVd @ 7% O_2)	17.5	6.2	15.0	4.4	10.8
Emission Rate (lb/hr)	0.25	0.09	0.21	0.06	0.15
Nitrogen Oxides (as NO_2)					
Concentration (ppmVd)	112	225	181	195	178
Concentration (ppmVd @ 7% O_2)	95.4	199	159	183	159
Emission Rate (lb/hr)	3.96	7.89	6.41	6.95	6.30

Standard Conditions: 70°F, 29.92 inches Hg

* CO emissions during Run No. 1 were spiking out of the calibration range of the analyzer which was operated in the 0-200 ppmV range. Therefore, CO emissions could not be totally quantified for this test run, and were reported as greater than the average quantified CO concentration.

Table 3-2
Cement Lock Demonstration Site
Carbon Bed Outlet
TSP and PM-10
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/16/07	05/17/07	
Test Period	1155-1600	0835-1307	
Temperature (^{0}F)	273	279	276
Moisture Content (%)	53.3	53.9	53.6
Velocity (FPS)	34.7	35.6	35.2
Flow Rate (ACFM)	14,706	15,105	14,906
Flow Rate (DSCFM)	4,934	5,023	4,979
Oxygen (% - dry)	4.61	5.18	4.90
Carbon Dioxide (% - dry)	9.79	9.41	9.60
Total Suspended Particulate Matter (TSP)			
Concentration (gr/DSCF)	0.048	0.005	0.027
Emission Rate (lb/hr)	2.03	0.21	1.12
Particulate Matter < 10 Microns (PM-10)			
Concentration (gr/DSCF)	0.14	0.042	0.091
Emission Rate (lb/hr)	5.70	1.81	3.76

Standard Conditions; 70°F, 29.92 in. Hg

Table 3-3
Cement Lock Demonstration Site
Carbon Bed Inlet
HCl and Cl_2
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/18/07	05/18/07	
Time Period	1330-1503	1540-1643	
Exhaust Gas Characteristics			
Oxygen (%-dry)	5.8	5.8	5.8
Carbon Dioxide (%-dry)	8.9	8.9	8.9
Temperature (° F)	319	319	319
Moisture (%)	48.5	51.9	50.2
Velocity (fps)	35.4	36.3	35.9
Flow Rate (ACFM)	15,005	15,393	15,199
Flow Rate (DSCFM)	5,234	5,012	5,123
Hydrogen Chloride			
Concentration (ppmV)	8.1	15.4	11.8
Emission Rate (lb/hr)	0.24	0.44	0.34

Standard Conditions: 70°F, 29.92 inches Hg

Note: Cl_2 emissions were determined to be non-detectable for both test runs. A detailed analysis of Cl_2 quantities can be found in Appendix C of this test report.

Table 3-4
Cement Lock Demonstration Site
Carbon Bed Outlet
HCl and Cl_2
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/18/07	05/18/07	
Time Period	1337-1442	1543-1646	
Exhaust Gas Characteristics			
Oxygen (%-dry)	5.8	5.8	5.8
Carbon Dioxide (%-dry)	8.8	8.9	8.9
Temperature (° F)	262	265	264
Moisture (%)	50.1	51.0	50.6
Velocity (fps)	33.7	34.1	33.9
Flow Rate (ACFM)	14,300	14,442	14,371
Flow Rate (DSCFM)	5,300	5,231	5,266
Hydrogen Chloride			
Concentration (ppmV)	5.6	8.1	6.9
Emission Rate (lb/hr)	0.17	0.24	0.21

Standard Conditions: 70°F, 29.92 inches Hg

Note: Cl_2 emissions were determined to be non-detectable for both test runs. A detailed analysis of Cl_2 quantities can be found in Appendix C of this test report.

Table 3-5
Cement Lock Demonstration Site
Carbon Bed Inlet
SO_x
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/18/07	05/18/07	
Time Period	1330-1503	1540-1643	
Exhaust Gas Characteristics			
Oxygen (%-dry)	5.9	5.8	5.9
Carbon Dioxide (%-dry)	8.7	8.9	8.8
Temperature (° F)	320	320	320
Moisture (%)	50.6	54.1	52.4
Velocity (fps)	34.7	35.0	34.9
Flow Rate (ACFM)	14,697	14,848	14,773
Flow Rate (DSCFM)	4,911	4,607	4,759
Sulfur Oxides			
Concentration (ppmV)	118	246	182
Emission Rate (lb/hr)	6.00	11.34	8.67

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-6
Cement Lock Demonstration Site
Carbon Bed Outlet
SO_x
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/18/07	05/18/07	
Time Period	1337-1442	1543-1646	
Exhaust Gas Characteristics			
Oxygen (%-dry)	5.8	5.8	5.8
Carbon Dioxide (%-dry)	8.8	8.9	8.9
Temperature (° F)	263	265	264
Moisture (%)	52.5	52.9	52.7
Velocity (fps)	34.0	33.8	33.9
Flow Rate (ACFM)	14,391	14,318	14,355
Flow Rate (DSCFM)	5,068	4,982	5,025
Sulfur Oxides			
Concentration (ppmV)	1.2	14.1	7.7
Emission Rate (lb/hr)	0.07	1.03	0.55

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-7
Cement Lock Demonstration Site
Carbon Bed Inlet
Toxic Metals
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/16/07	05/17/07	
Test Period	1155-1600	0830-1303	
Stack Gas Characteristics			
Oxygen (%-dry)	4.28	6.00	5.14
Carbon Dioxide (%-dry)	10.02	9.39	9.71
Temperature (° F)	308	312	310
Moisture (%)	53.6	52.1	52.9
Velocity (fps)	35.2	35.3	35.3
Flow Rate (ACFM)	14,949	14,955	14,952
Flow Rate (DSCFM)	4,699	4,879	4,789
Toxic Metals (Emission Rate - lb/hr)			
Arsenic	8.1e-05	2.9e-05	5.5e-05
Barium	7.7e-05	1.0e-04	8.9e-05
Cadmium	1.7e-05	2.3e-04	1.2e-04
Chromium	4.7e-05	5.2e-05	5.0e-05
Cobalt	3.5e-06	2.1e-05	1.2e-05
Copper	8.6e-05	8.4e-05	8.5e-05
Lead	3.0e-04	3.5e-04	3.3e-04
Manganese	1.8e-04	3.3e-05	1.1e-04
Nickel	2.5e-05	5.8e-05	4.2e-05
Selenium	8.2e-05	1.6e-06	4.2e-05
Silver	1.4e-05	8.8e-06	1.1e-05
Zinc	7.9e-04	1.5e-03	1.1e-03
Mercury	1.5e-03	1.4e-03	1.5e-03
Total Toxic Metals	**3.2e-03**	**3.9e-03**	**3.5e-03**

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-8
Cement Lock Demonstration Site
Carbon Bed Outlet
Toxic Metals
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/16/07	05/17/07	
Test Period	1155-1600	0835-1307	
Stack Gas Characteristics			
Oxygen (%-dry)	4.61	5.18	4.90
Carbon Dioxide (%-dry)	9.79	9.41	9.60
Temperature (° F)	277	278	278
Moisture (%)	53.6	54.1	53.9
Velocity (fps)	35.1	34.9	35.0
Flow Rate (ACFM)	14,872	14,818	14,845
Flow Rate (DSCFM)	4,960	4,911	4,936
Toxic Metals (Emission Rate - lb/hr)			
Arsenic	1.7e-05	1.9e-05	1.8e-05
Barium	1.2e-04	9.4e-05	1.1e-04
Cadmium	4.2e-05	3.4e-05	3.8e-05
Chromium	1.3e-04	7.8e-05	1.0e-04
Cobalt	9.3e-06	8.9e-06	9.1e-06
Copper	2.0e-04	2.4e-04	2.2e-04
Lead	3.0e-04	3.1e-04	3.1e-04
Manganese	1.0e-03	9.8e-04	9.9e-04
Nickel	1.0e-04	6.4e-05	8.2e-05
Selenium	1.9e-06	1.7e-06	1.8e-06
Silver	1.5e-05	2.1e-05	1.8e-05
Zinc	6.7e-04	7.6e-04	7.2e-04
Mercury	2.9e-05	3.5e-05	3.2e-05
Total Toxic Metals	**2.6e-03**	**2.6e-03**	**2.6e-03**

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-9
Cement Lock Demonstration Site
Carbon Bed Inlet
Dioxins, Furans, and PCBs
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/17/07	05/18/07	
Time Period	1545-1910	0827-1145	
Exhaust Gas Characteristics			
Oxygen (%-dry)	4.8	5.8	5.3
Carbon Dioxide (%-dry)	9.5	8.9	9.2
Temperature (° F)	325	317	321
Moisture (%)	52.3	51.0	51.7
Velocity (fps)	34.7	36.2	35.5
Flow Rate (ACFM)	14,714	15,346	15,030
Flow Rate (DSCFM)	4,701	5,104	4,903
Dioxins and Furans			
CDD Total Emission Rate (lb/hr)	3.5e-10	1.8e-10	2.7e-10
CDF Total Emission Rate (lb/hr)	1.1e-10	4.6e-11	7.8e-11
PCB Total Emission Rate (lb/hr)*	1.3e-12	2.1e-13	7.6e-13
Dioxins Total Emission Rate (lb/hr)	4.6e-10	2.3e-10	3.5e-10
Dioxins Total Emission Rate (ng TEQ/hr)	206.9	104.8	155.9
PCBs			
Total Emission Rate (lb/hr)	2.2e-06	1.2e-06	1.7e-06

ND = Not Detected

* Non-ortho and Mono-ortho substituted PCBs are considered dioxin-like compounds and were included with dioxin and furan compounds to calculate total dioxin emission rates in lb/hr and ng TEQ/hr.

Note: An individualized breakdown of the emission calculations for Dioxins, Furans, and PCBs can be found in Appendix B of this test report.

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-10
Cement Lock Demonstration Site
Carbon Bed Outlet
Dioxins, Furans, and PCBs
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/17/07	05/18/07	
Time Period	1545-1915	0827-1149	
Exhaust Gas Characteristics			
Oxygen (%-dry)	5.04	6.07	5.56
Carbon Dioxide (%-dry)	9.49	8.71	9.10
Temperature (° F)	288	265	277
Moisture (%)	54.4	53.2	53.8
Velocity (fps)	36.0	34.0	35.0
Flow Rate (ACFM)	15,257	14,409	14,833
Flow Rate (DSCFM)	4,963	4,994	4,979
Dioxins and Furans			
CDD Total Emission Rate (lb/hr)	ND	ND	ND
CDF Total Emission Rate (lb/hr)	1.1e-12	1.2e-12	1.2e-12
PCB Total Emission Rate (lb/hr)*	2.2e-12	2.1e-12	2.2e-12
Dioxins Total Emission Rate (lb/hr)	3.4e-12	3.2e-12	3.3e-12
Dioxins Total Emission Rate (ng TEQ/hr)	1.53	1.47	1.50
PCBs			
Total Emission Rate (lb/hr)	1.2e-06	1.2e-06	1.2e-06

ND = Not Detected

* Non-ortho and Mono-ortho substituted PCBs are considered dioxin-like compounds and were included with dioxin and furan compounds to calculate total dioxin emission rates in lb/hr and ng TEQ/hr.

Note: An individualized breakdown of the emission calculations for Dioxins, Furans, and PCBs can be found in Appendix B of this test report.

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-11
Cement Lock Demonstration Site
Carbon Bed Inlet
SVOCs
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/17/07	05/18/07	
Test Period	1545-1910	0827-1145	
Stack Gas Characteristics			
Oxygen (%-dry)	4.8	5.8	5.3
Carbon Dioxide (%-dry)	9.5	8.9	9.2
Temperature (° F)	328	313	321
Moisture (%)	55.1	50.7	52.9
Velocity (fps)	34.9	36.6	35.8
Flow Rate (ACFM)	14,813	15,538	15,176
Flow Rate (DSCFM)	4,435	5,227	4,831
SVOCs (Emission Rate - lb/hr)			
Acenaphthene	1.0e-06	ND	1.0e-06
Anthracene	3.8e-07	ND	3.8e-07
Benzo(a)anthracene	2.2e-06	1.2e-06	1.7e-06
Benzo(a)pyrene	7.1e-07	6.1e-07	6.6e-07
Benzo(b)fluoranthene	2.4e-06	ND	2.4e-06
Benzo(g,h,i)perylene	1.5e-06	ND	1.5e-06
Bis(2-ethylhexyl)phthalate	3.6e-05	6.9e-05	5.3e-05
Di-n-octylphthalate	2.9e-06	3.7e-06	3.3e-06
Fluoranthene	2.4e-06	8.5e-07	1.6e-06
Fluorene	1.3e-06	8.5e-07	1.1e-06
Indeno(1,2,3-c,d)pyrene	2.0e-06	ND	2.0e-06
Phenanthrene	2.1e-06	1.7e-06	1.9e-06
Total SVOCs	**5.5e-05**	**7.8e-05**	**6.6e-05**

ND = Not Detected

Table 3-12
Cement Lock Demonstration Site
Carbon Bed Outlet
SVOCs
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/17/07	05/18/07	
Test Period	1545-1915	0827-1149	
Stack Gas Characteristics			
Oxygen (%-dry)	5.04	6.07	5.56
Carbon Dioxide (%-dry)	9.49	8.71	9.10
Temperature (° F)	291	263	277
Moisture (%)	52.3	50.6	51.5
Velocity (fps)	37.3	35.5	36.4
Flow Rate (ACFM)	15,825	15,049	15,437
Flow Rate (DSCFM)	5,364	5,518	5,441
SVOCs (Emission Rate - lb/hr)			
Benzo(a)anthracene	ND	1.2e-06	1.2e-06
Benzo(a)pyrene	4.7e-07	5.4e-07	5.1e-07
Bis(2-ethylhexyl)phthalate	5.9e-05	1.9e-04	1.2e-04
Di-n-octylphthalate	2.0e-06	ND	2.0e-06
Fluoranthene	8.7e-07	9.6e-07	9.2e-07
Fluorene	1.1e-06	ND	1.1e-06
Phenanthrene	2.3e-06	1.6e-06	2.0e-06
Total SVOCs	**6.6e-05**	**1.9e-04**	**1.3e-04**

ND = Not Detected

Standard Conditions: 70°F, 29.92 inches Hg

Table 3-13
Cement Lock Demonstration Site
Granulator Outlet
Test Results Summary

Run No.	**1**	**2**	**Average**
Date	05/16/07	05/17/07	
Test Period	1153-1553	0831-1304	
Moisture Content (%)	44.2	41.9	43.1
Dioxins and Furans			
CDD Total TEF Concentration (ng/DSCM)			0.0e+00
CDF Total TEF Concentration (ng/DSCM)			0.0e+00
PCB Total TEF Concentration (ng/DSCM)*			0.0e+00
Dioxins Total TEF Concentration (ng/DSCM)			0.0e+00
PCBs			
Total Concentration (ppt)	50.34	5.03	27.69
Mercury			
Concentration (ppm)	< 2.9e-04	< 2.9e-04	< 2.9e-04
SVOCs (Concentration in ppb)			
Bis(2-ethylhexyl)phthalate	5.00	3.05	4.03
Chrysene	0.10	ND	0.10
Fluoranthene	0.19	18.50	9.35
Phenanthrene	0.11	0.25	0.18
Pyrene	0.18	ND	0.18
Total SVOCs	**5.58**	**21.80**	**13.69**
Total Hydrocarbons			
Concentration (ppmVw)	0.9	1.5	1.2
Concentration (ppmVd)	1.6	2.5	2.1

ND = Not Detected

* Non-ortho and Mono-ortho substituted PCBs are considered dioxin-like compounds and were included with dioxin and furan compounds to calculate total dioxin emission rates in lb/hr and ng TEQ/hr.

Note: An individualized breakdown of the emission calculations for Dioxins, Furans, and PCBs can be found in Appendix B of this test report.

Table 3-14
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of HCl and Cl_2
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (% wt)
1	0.24	0.17	29.2
2	0.44	0.24	45.5
		Average	**37.4**

$$\text{Capture Efficiency (\%)} = \frac{[(\text{lb/hr})\ HCl_{in} - (\text{lb/hr})\ HCl_{out}]}{(\text{lb/hr})\ HCl_{in}} \times 100\%$$

Table 3-15
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of SO_x
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (%wt)
1	6.00	0.07	98.8
2	11.34	1.03	90.9
		Average	**94.9**

$$\text{Capture Efficiency (\%)} = \frac{[(\text{lb/hr})\ SO_{xin} - (\text{lb/hr})\ SO_{xout}]}{(\text{lb/hr})\ SO_{xin}} \times 100\%$$

Table 3-16
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of Toxic Metals
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (% wt)
1	3.2e-03	2.6e-03	18.8
2	3.9e-03	2.6e-03	33.3
		Average	**26.1**

$$\text{Capture Efficiency (\%)} = \frac{[\text{(lb/hr) Toxic Metal}_{in} - \text{(lb/hr) Toxic Metal}_{out}]}{\text{(lb/hr) Toxic Metal}_{in}} \times 100\%$$

Table 3-17
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of Dioxins and Furans
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (% wt)
1	4.6e-10	3.4e-12	99.3
2	2.3e-10	3.2e-12	98.6
		Average	**99.0**

$$\text{Capture Efficiency (\%)} = \frac{[(\text{lb/hr})\ \text{Dioxin}_{in} - (\text{lb/hr})\ \text{Dioxin}_{out}\}}{(\text{lb/hr})\ \text{Dioxin}_{in}} \times 100\%$$

Table 3-18
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of PCBs
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (% wt)
1	2.2e-06	1.2e-06	45.5
2	1.2e-06	1.2e-06	< 0.1
		Average	**< 22.8**

$$\text{Capture Efficiency (\%)} = \frac{[(\text{lb/hr}) \text{ PCBs}_{in} - (\text{lb/hr}) \text{ PCBs}_{out}]}{(\text{lb/hr}) \text{ PCBs}_{in}} \times 100\%$$

Table 3-19
Cement Lock Demonstration Site
Carbon Bed Capture Efficiency of SVOCs
Test Results Summary

Run No.	Inlet (lb/hr)	Outlet (lb/hr)	DRE (% wt)
1	5.5e-05	6.6e-05	< 0.1
2	7.8e-05	1.9e-04	< 0.1
		Average	**< 0.1**

$$\text{Capture Efficiency (\%)} = \frac{[(\text{lb/hr SVOCs}_{in} - \text{lb/hr SVOCs}_{out}\}}{\text{lb/hr SVOCs}_{in}} \times 100\%$$

4.0 Test Methodologies

The emission evaluation test program was conducted in determination of the following emission parameters utilizing the specified methodologies.

Table 4-1
Cement Lock Demonstration Site
Emission Evaluation Test Program
Test Methodology Summary

Emission Parameter	No. of Test Runs	Test Location	Sampling and Analytical Methodology
Traverse Point Location	*	Inlet/Outlet	EPA Reference Method 1
Volumetric Flow Rate	*	Inlet/Outlet	EPA Reference Method 2
Oxygen, Carbon Dioxide	*	Inlet/Outlet	EPA Reference Method 3 and 3A
Moisture Content	*	Inlet/Outlet	EPA Reference Method 4
Sulfur Dioxide	2	Inlet/Outlet	EPA Reference Method 8
Total Suspended Particulate /Particulate Matter < 10 Microns	2	Outlet	EPA Reference Method 5/202
Nitrogen Oxides	4	Outlet	EPA Reference Method 7E
Carbon Monoxide	4	Outlet	EPA Reference Method 10
Volatile Organic Compounds	4	Outlet	EPA Reference Method 25A
Specific Volatile Organic Compounds	2	Inlet/Outlet	Modified EPA Reference Method 5
Dioxins and Furans	2	Inlet/Outlet	EPA Reference Method 23
Polychlorinated Biphenyls	2	Inlet/Outlet	EPA Reference Method 23
Hydrogen Chloride and Chlorine	2	Inlet/Outlet	EPA Reference Method 26A
Toxic Metals	2	Inlet/Outlet	EPA Reference Method 29

* These parameters were determined concurrently with all other emission parameters.

A description of the above referenced test methodologies is provided below.

4.1 Cyclonic Flow

The absence of cyclonic flow was demonstrated at each sampling location according to Section 11.4 of EPA Reference Method 1. An S-type pitot was connected to a manometer. The pitot tube was placed in

such a position that the openings of the pitot tube were perpendicular to the stack gas flow. An angle finder was placed on the pitot tube which was rotated until a reading of zero (0) is obtained. The 'yaw' angle was then recorded. The cyclonic flow traverse was performed at the traverse point locations specified in Tables 2-1 and 2-2.

4.2 Stack Gas Velocity and Volumetric Flow Rate Determination

The determination of stack gas velocity and volumetric flow rate was performed in accordance with EPA Reference Method 2. Velocity traverses across the stack diameter at each test location were performed using an S-type pitot tube and type-K thermocouple. The S-type pitot tube was connected to an inclined vertical manometer via leak-free connections. The type-K thermocouple was connected to a digital temperature indicator for signal output. These readings were observed and recorded at each traverse point for each test run.

A post-test leak check of the S-type pitot tube, the manometer and the interconnecting tubing was performed in accordance with the procedure described in EPA Reference Method 2, "Determination of Stack Gas Velocity and Volumetric Flow Rate (Pitot Tube)."

4.3 Moisture Content

All moisture content determinations followed EPA Reference Method 4, Section 2.2.2 as necessary. Determinations conducted by EPA Method 4 utilized large capacity impingers and collected a minimum volume of 30 DSCF.

4.4 Gaseous Emissions Sampling System

An extractive sampling system was used to continuously determine O_2, CO_2, CO, NO_x, and VOC concentrations. A representative sample of the flue gas was extracted through a heated (225°F) stainless steel probe and filter assembly, and transported via a heat-traced Teflon sample line through a heated glass fiber filter and a Teflon lined diaphragm sample pump to a condensation removal trap located in a mobile laboratory. VOC samples bypassed the condensation trap. A heated out-of-stack filter assembly was maintained at a sufficient temperature to prevent water condensation. A three-way valve was utilized

to block sample gas flow and introduce calibration gases to the measurement system at the outlet of the sampling probe during system calibrations. The condensation trap was cooled to approximately 40°F. The sample was exhausted from the trap free of moisture and particulate matter. The sample was introduced into a constant-pressure manifold constructed of stainless steel and Teflon for metered distribution to the respective analyzers.

Output signals from all instrumental analyzers were stored on strip chart recorders as well as a personal computer (PC) based data acquisition system (DAS). All reference method (RM) data was reported from the DAS. The strip chart recorders were used for a backup record. All continuous analyzers utilized for the RM testing provided a linear response to the DAS over the calibrated range. This was verified by the pre-test calibration results.

4.4.1 Oxygen and Carbon Dioxide

Oxygen and carbon dioxide concentrations of the stack gases were determined by EPA Reference Method 3A. The sampling system was as described above. Oxygen concentrations were determined using a paramagnetic oxygen analyzer. The oxygen analyzer was operated in the 0-21.99% range. Carbon dioxide concentrations were determined using a non-dispersive infared analyzer which was operated in a range of 0-12.75%. Calibration gases were 0-20% (zero gas), 45-55% and 80-100% of the calibration span, which is defined as the range from zero to the actual high span gas cylinder concentration. All calibration gases were NIST-traceable Protocol 1 grade (± 1%). A sampling system bias check was performed prior to the first test run by introducing the zero gas and the mid-level span gas at the sample probe/sample line interface. The sampling system bias check was repeated after each test run to determine the instrument zero and calibration drift. Oxygen and carbon dioxide concentrations were determined simultaneously with all sampling events.

In addition, oxygen and carbon dioxide concentrations were determined by EPA Reference Method 3. The sampling train consisted of a stainless steel probe with a glass fiber filter for particulate filtration. The sampling probe was attached to a water cooled condenser used to remove excess moisture

from the sample stream. The condenser was attached to a leak-free diaphragm pump with an in-line needle valve to adjust the sample flow rate. The sampling train was leak-checked in accordance with the procedure described in EPA Reference Method 3, presampling run. The sample stream then passed through a surge tank (eliminating the pulsation effects of the pump) and a rotameter, which measures the sampling flow rate to within ±2% of the selected flow rate for the test, into a leak-free Tedlar bag.

Determination of percent CO_2 and O_2 was performed using a Fisher Type B No. 10-605 ORSAT gas analyzer which uses the principle of gas absorption in specific absorbing solutions. All Tedlar bags utilized for this sampling underwent the leak check procedure specified in EPA Method 10.

4.4.2 Nitrogen Oxides

Nitrogen oxides concentrations were determined by EPA Reference Method 7E. The principle of this method is to continuously extract a gaseous sample of flue gas and introduce a portion of this sample into a chemiluminescent analyzer for the determination of concentration. The principle of the analyzer is based on the following reaction:

$$NO + O_3 \rightarrow NO_2 + O_2 + \text{a photon}$$

The photons emitted by the reaction are measured by a photomultiplier tube. The photomultiplier signal is proportional to the number of NO molecules; therefore, the photomultiplier signal is recorded as the concentration for NO_x. The sample flowrate is carefully controlled. NO_x is comprised of NO and NO_2. NO_2 present in the sample gas is converted into NO prior to entering the reaction chamber by a NO_2 to NO converter. The NO_2 to NO converter breaks one [1] of the two [2] nitrogen-oxygen bonds by passing the sample gas through capillary tubing into an electronically controlled, heated catalytic converter. Calibration gases were 0-20% (zero gas), 45-55% and 80-100% of the calibration span. All calibration gases were NIST traceable Protocol 1. A zero and midpoint bias calibration was performed from the sample probe both before and after each test run. Output signals were stored and processed by a PC based DAS system as well as a strip chart recorder. The analyzer was operated in the 0-437.7 ppmV range. A NO_X converter calibration was performed immediately prior to the start of sampling.

4.4.3 Carbon Monoxide

Carbon monoxide concentrations were determined by gas filter correlation spectroscopy. A representative sample of stack gas is directed to the analyzer via the sample transport system described above. The sample enters the analyzer and is passed through the sample cell. Radiation from an infrared source is chopped then passed through a gas filter which alternates between CO and N_2 due to the rotation of the filter wheel. The radiation then passes through a narrow band pass interference filter and enters a multiple optical cell where absorption by the sample gas occurs. The IR radiation then exits the sample cell and is focused on the detector. The CO gas filter acts to produce a reference beam which cannot be further attenuated by CO in the sample cell. The N_2 side of the gas filter is transparent to the IR radiation. This beam is absorbed by CO present in the sample. Absorption of the IR beam by CO in the sample causes a proportional difference in the signals from the sample and reference cell beams. This difference is converted electronically into an output signal that is linearly proportional to the concentration of CO in the sample. Before and after each sample run, the analyzer was calibrated with NIST-traceable Protocol 1 Grade (± 1%) calibration gases. Calibration gases were 0-20% (zero gas), 45-55% and 80-100% of the calibration span. The analyzer was operated in the 0-174.2 ppmV range. A zero and midpoint bias calibration was performed from the sample probe both before and after each test run. Output signals were stored and processed by a PC based DAS system as well as a strip chart recorder.

4.4.4 Volatile Organic Compounds

Volatile organic compound emissions were determined by directing a portion of the sample into a total hydrocarbon analyzer equipped with a flame ionization detector (FID). With the total hydrocarbon analyzer, sample gas is transported to the FID via a heated sample train. All hydrocarbon species present are ionized simultaneously to produce the signal output. The THC-FID was calibrated with NIST traceable Protocol 1 grade methane calibration gases. Three (3) calibration gases of 20-30%, 45-55% and 80-90% of span were utilized. A zero and midpoint bias calibration was performed for the continuous FID both before and after each test run. The THC-FID was operated in the 0-100 ppmV range.

Output signals from the THC-FID were stored and processed by a PC based DAS system and strip chart recorder.

4.5 Toxic Metals

Metals in the exhaust gases were determined isokinetically using EPA Reference Method 29 "Methodology for the Determination of Metal Emissions in Exhaust Gases from Hazardous Waste Incinerator Processes".

Metals sampling occurred during 2-hour sampling events. Triplicate test runs were performed with each collecting a minimum volume of 60 DSCF. The sampling train consisted of the following components:

- Quartz glass sample nozzle and probe
- Heated glass fiber filter
- A modified Greenburg Smith impinger containing 100 ml of a 5% HNO_3/10% H_2O_2
- A Greenburg-Smith impinger containing 100 ml 5% HNO_3/10% H_2O_2
- Modified Greenburg-Smith impinger initially empty
- Two (2) modified Greenburg-Smith impingers containing 100 ml 4% $KMnO_4$/10% H_2SO_4 solution
- An impinger containing approximately 225 g of silica gel desiccant
- Dry gas meter equipped with inlet and outlet thermocouples

The sample was extracted from the exhaust stream using a vane-type vacuum pump. Isokinetic sampling conditions were maintained through the use of a type "S" pitot tube to monitor the exhaust gas stream pressure differentials. A type "K" thermocouple was utilized to determine the exhaust gas temperature.

At the completion of sampling, the probe liner, nozzle, and front half of the filter housing were rinsed and brushed with 100 ml of a 0.1N nitric acid reagent and the washings were placed in a glass amber container retained for analysis. The filter was removed from the filter holder and placed in a petri dish and sealed. The contents of impingers 1 and 2 were measured for volume increase and placed in a second glass amber container. Impingers 1 and 2 and the back half of the filter housing were then rinsed with a total of 100 ml 0.1N nitric acid and the washings were placed in a third glass amber container. The contents of impinger 3 were measured for volume increase and placed in a fourth glass amber container

along with a total of 100 ml 0.1N nitric acid washings. Impingers 4 and 5 were measured for volume increase and placed in a fifth glass amber container along with a total of 100 ml each of the fresh permanganate and distilled water rinses of all sample exposed areas for the two (2) impingers. Impingers 4 and 5 were then rinsed with a total of 25 ml of 8N HCl which was placed in a sixth glass amber container. The silica gel was recovered from the last impinger and placed in a sealed container for weight gain determination.

Prior to analysis, the collected front and back half liquid sample volumes were reduced. The filter was acid digested in accordance with the method prior to being combined with the probe rinse for analysis. Arsenic, barium, cadmium, chromium, copper, nickel, lead, selenium, silver, and zinc were determined by graphite furnace atomic absorption spectrophotometry (GFAA). Mercury was determined by cold vapor atomic absorption spectrophotometry (CVAA). Cobalt and manganese were analyzed by inductively coupled plasma-optical emission spectroscopy (ICP).

4.6 Specific Volatile Organic Compounds

SVOCs were determined utilizing a modified EPA Reference Method 5/Solid Waste Method 0010 sampling train. The sampling train consisted of the following apparatus connected in series:

- Quartz glass probe and stainless steel nozzle
- Glass fiber filter contained within a heated filter holder
- Glass coil type condenser (water jacketed)
- Glass adsorbent trap containing 30 grams of XAD-2 adsorbent resin (water jacketed)
- A water-knockout impinger
- A modified Greenburg-Smith impinger containing 100 ml of distilled water
- A Greenburg-Smith impinger containing 100 ml of distilled water
- A modified Greenburg-Smith impinger-empty
- A modified Greenburg-Smith impinger containing 250 g of silica gel desiccant

All glassware utilized in the sampling was pre-cleaned as described in Section 3A of the "Manual of Analytical Methods for the Analysis of Pesticides in Human and Environmental Samples".

Sampling was conducted in duplicate 3-hour sampling events with each collecting a minimum sample volume of 105 DSCF. Prior to the start of sampling, a leak check was conducted at 15 in. Hg vacuum to ensure that all connections were leak free. The following information was recorded at each

traverse point:

- Stack temperature
- Dry gas meter temperature
- Stack gas pressure differential
- Differential pressure across the orifice meter

At the completion of sampling, a post run leak check was conducted followed by sample recovery. The nozzle and probe were removed from the sampling train and both ends were capped. The filter was removed from the filter holder and placed in an identified container. The adsorbent module was capped and covered with foil. The nozzle, probe, front half of the filter holder, back half of the filter holder and the condenser were brushed and rinsed with acetone three (3) times, followed by three (3) rinses with methylene chloride. Both rinses were collected and stored in an amber glass jar with a Teflon lined lid. All rinses were combined later during analysis. The volume of the first four (4) impingers was determined and each were then rinsed three (3) times with deionized water. The contents were retained for analysis along with the deionized water rinses and the front half acetone and methylene chloride rinses. The silica gel was recovered from the fifth impinger and placed in a sealed polyethylene container.

Analysis of the samples occured by Soxhlet extraction and concentration of the aqueous matrices, followed by high resolution gas chromatography/mass spectrometry [GC/MS] analysis.

4.7 Dioxins, Furans, and Polychlorinated Biphenyls

Dioxins, furans, and PCBs from each test location were determined according to the procedures detailed in EPA Reference Method 23. The sampling train consisted of the following apparatus connected in series:

- Quartz glass probe and stainless steel nozzle
- Glass fiber filter contained within a heated filter holder
- Glass coil type condenser (water jacketed)
- Glass adsorbent trap containing 30 grams of XAD-2 adsorbent resin (water jacketed)
- A water-knockout impinger
- A modified Greenburg-Smith impinger containing 100 ml of distilled water
- A Greenburg-Smith impinger containing 100 ml of distilled water
- A modified Greenburg-Smith impinger-empty
- A modified Greenburg-Smith impinger containing 250 g of silica gel desiccant

All glassware utilized in the sampling was pre-cleaned as described in Section 3A of the "Manual of Analytical Methods for the Analysis of Pesticides in Human and Environmental Samples".

Sampling was conducted in duplicate 3-hour sampling events with each event collecting a minimum sample volume of 105 DSCF. Prior to the start of sampling, a leak check was conducted at 15 in. Hg vacuum to ensure that all connections were leak free. The following information was recorded at each traverse point:

- Stack temperature
- Dry gas meter temperature
- Stack gas pressure differential
- Differential pressure across the orifice meter
- Sample box temperature
- Impinger temperature
- Condenser exit temperature

At the completion of sampling, a post run leak check was conducted followed by sample recovery. The nozzle and probe was removed from the sampling train and both ends were capped. The filter was removed from the filter holder and placed in an identified container. The adsorbent module was capped and covered with foil. The nozzle, probe, front half of the filter holder, back half of the filter holder and the condenser were brushed and rinsed with acetone three (3) times and were collected and stored in an amber glass jar with a Teflon lined lid. The glassware was then rinsed with toluene and stored in a separate amber glass jar with a Teflon lid. All rinses were combined later during analysis. The volume of impingers 1, 2, 3, and 4 was determined for moisture gain and the contents placed in an amber glass jar with a Teflon lined lid. The pH was measured of the impinger solution, and was found to be greater than 4.5. Therefore, the impinger solution was not neutralized with 0.1N NaOH. The four impingers were rinsed three (3) times each with deionized water and were collected and stored in an amber glass jar with a Teflon lined lid. The silica gel was recovered from the fifth impinger and placed in a sealed polyethylene container.

Analysis of the samples for dioxins, furans, and PCBs involved Soxhlet extraction and concentration of the aqueous matrices, followed by high resolution gas chromatography/mass spectrometry [GC/MS] analysis.

Emissions calculations for dioxins, furans, and PCBs can be found in Appendix B of this test report. A full list of each PCB compound can also be found in Appendix B directly before the dioxins, furans, and PCBs emission calculation spreadsheets.

4.8 Sulfur Oxides

The emission rate of sulfur oxides were determined according to the procedures outlined in EPA Reference Method 8. Gas samples were isokinetically extracted from the exhaust stack and passed through a stainless steel nozzle and quartz glass probe maintained at 250°F ± 25°F. This gas sample then passed through an impinger train consisting of four glass impingers immersed in an ice bath. The first, a Greenburg-Smith, contained 100 ml of 80% isopropanol. Glass wool was placed in between the first and second impingers. The second, a modified Greenburg-Smith, and the third, a Greenburg-Smith, contained 100 ml each of 3% hydrogen peroxide. A fourth impinger contained silica gel for final drying of the gas sample. The sample volume was subsequently measured by passing it through a calibrated dry gas meter. An S-type pitot tube was attached to the sample probe to monitor the stack gas velocity in order to maintain isokinetic sampling conditions. Also attached was a type K thermocouple to measure the exhaust gas temperature.

After each run, the impinger assembly of the sample train was purged for a period of fifteen (15) minutes with ambient air at the average orifice pressure during the run. Following the purge, the probe, nozzle and all connecting glassware before the first impinger was rinsed three (3) times each with isopropanol, and the washings were retained in a separate high density polyethylene container for analysis. The impinger contents were placed in tared polyethylene containers. The first impinger was washed with 80% isopropanol solution while the second and third impingers were washed with distilled water. The washes of the impingers were placed in separate polyethylene containers and were retained for analysis. The glass wool was placed in the 80% isopropanol rinse polyethylene container. The silica gel was returned to its original tared container and was reweighed to determine moisture gain.

When the samples returned to the laboratory, analysis of the impinger solutions and washes were

performed in accordance with EPA Reference Method 8, "Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources". Each sample fraction was analyzed by barium thorin titration in determination of sulfur dioxide and sulfur trioxide content. Each test run collected a minimum sample volume of 30 DSCF.

4.9 Hydrogen Chloride and Chlorine

Emissions of hydrogen chloride and chlorine were determined using an EPA Reference Method 26A sampling train. The samples were collected isokinetically. The sample train consisted of the following apparatus connected in series:

- Quartz probe and nozzle
- A desiccated, tared quartz filter within a heated borosilicate glass filter holder with a Teflon frit
- A modified Greenburg-Smith impinger containing 100 ml of 0.1 N H_2SO_4
- A Greenburg-Smith impinger containing 100 ml of 0.1 N H_2SO_4
- A Greenburg-Smith impinger containing 100 ml of 0.1 NaOH
- A modified Greenburg-Smith impinger containing 100 ml of 0.1 NaOH
- A modified Greenburg-Smith impinger containing approximately 250 g of silica gel desiccant
- Vane type pump
- Dry gas meter equipped with thermocouples

An S-type pitot tube was attached to the sample probe to monitor exhaust gas stream pressure differentials in order to maintain isokinetic sampling conditions and determine the volumetric flow rate. A type-K thermocouple was also attached to measure the exhaust gas temperature. The glass fiber filter was maintained at a temperature greater than 248°F.

Two (2) 1-hour test runs were conducted with each event collecting a minimum of 30 DSCF. Prior to the start of sampling, a leak check was conducted at 15 in. Hg vacuum to insure that all connections were leak free. The following information was recorded at each traverse point:

- Dry gas meter volume
- Stack Temperature
- Dry gas meter temperature (inlet and outlet)
- Stack gas pressure differentials
- Differential pressure across the orifice meter
- Filter temperature in heated compartment
- Gas temperature exiting the fourth impinger (silica gel desiccant)

At the completion of sampling, the sampling train was post run leak checked at the maximum

vacuum encountered during the test run and then disassembled and the sample fractions recovered. The quartz filter was removed and placed in a polyethylene container. All sample exposed areas of the front half of the sampling train (nozzle, probe and front half of the filter holder) were brushed and rinsed three (3) times with acetone and placed in a polyethylene container. The volume of impingers 1 and 2 was measured with a graduated cylinder and the contents were placed in a polyethylene container. The volume of impingers 3 and 4 was measured with a graduated cylinder and the contents were placed in a separate polyethylene container. The back half of the filter holder, impinger 1, and impinger 2 were washed with distilled/deionized water and placed in the same polyethylene container as the original contents of impingers 1 and 2. Impingers 3 and 4 were washed with distilled/deionized water and placed in the same polyethylene container as the original contents of impingers 3 and 4. The silica gel desiccant was removed from the last impinger and placed in its original tared polyethylene container. The samples were then transported to the AirNova, Inc. laboratory facility for subsequent analysis.

Analysis of the HCl samples was performed using a Bacharach TriDet HPLC equipped with a nonsuppressed conductivity detector. An Alltech Anion/R 10 um, 250 x 4.1 mx (or equivalent) column was used for separation of ionic species. A 4.0 g/l p-HBA (2.5% MeOH) buffer solution adjusted to a pH of 4.0 - 4.4 with LiOH was used as the eluent.

Prior to calibration and sample analysis, a stable baseline was established. The calibration curve was generated using four (4) concentrations of Cl plus a zero standard. The standards were prepared using IC high quality standards.

During the analysis of the HCl, the four (4) calibration standards were prepared for each contaminant in concentrations that were within the linear range of the field samples. The calibration standards, starting at the lowest first, were injected both before and after injection of the quality control check sample, reagent blanks, and field samples.

Chlorine was determined to be non-detectable after analysis of the samples.

4.10 Total Suspended Particulate/Particulate Matter < 10 Microns

Total suspended particulate matter (TSP) and particulate matter < 10 microns (PM-10) emissions were determined in accordance with NJ Air Test Method 1 and EPA Reference Method 202 respectively. Prior to sampling, the sample train was leak checked at 15 inches Hg vacuum to ensure that all sample train components were leak free. During sampling, gas samples were isokinetically extracted from the exhaust stack and passed through a glass nozzle, a glass lined probe and a quartz fiber filter, all maintained at a temperature of 225°F or less, but sufficiently high to prevent condensation on the glass fiber filter. The gas sample then passed through an impinger train consisting of four (4) glass impingers immersed in an ice bath. The arrangement of the impingers was as follows:

- 1st: Greenburg-Smith, containing 100 ml of DI water.
- 2nd: Greenburg-Smith containing 100 ml of DI water.
- 3rd: Modified Greenburg-Smith containing 100 ml of DI water
- 4th: Modified Greenburg-Smith containing approximately 350 g of silica gel for final drying of the gas sample

The sample gas volume was measured by passing it through a calibrated dry gas meter. An S-type pitot tube was attached to the sample probe to monitor the stack gas velocity in order to maintain isokinetic sampling conditions. In addition, a type K thermocouple was attached to measure the exhaust gas temperature. Following each test run, the NJATM 1 sample train was leak checked at the highest vacuum recorded during the run.

After each run, the probe, nozzle and all connecting glassware ahead of the filter were brushed and rinsed with acetone. The washings were retained in a high density polyethylene container. The quartz fiber filter was placed in it's original petri dish.

Condensible PM-10 was determined from the back half analysis of the particulate matter sampling train. No silicone grease was used in the sampling train. All sampling train glassware was cleaned prior to the test consistent with Section 3.1.3 of Method 202 (soap and tap water, water, and rinsed using tap water, water, acetone, and finally, $MeCl_2$).

The glass fiber filters were oven dried for 2 - 3 hours at the average temperature maintained

during the corresponding test run, desiccated for 2 - 3 more hours and then reanalyzed for a final weight determination. The acetone samples were evaporated at room temperature and pressure in tared Teflon baggies, desiccated for 24 hours and also reanalyzed for a final weight determination. The impinger contents were subsequently measured for volume increase and rinsed with distilled water and retained in a glass sample jar with a Teflon lid. The impingers were then rinsed three times with methylene chloride and retained in a separate glass sample jar with a Teflon lined lid. The PM-10 analysis was conducted as described in Method 202 additionally utilizing Teflon baggies for the analysis of each liquid sample fraction.

4.11 Process Operating Data

The process operating conditions were documented by the plant control room personnel. The data included information such as: production rate, fuel use and any other applicable process data.

5.0 Quality Assurance/Quality Control Procedures

All of the source sampling and analytical procedures were performed in accordance with the US EPA's 'Good Laboratory Practice' guidelines. AirNova, Inc. followed the requirements of the individual test methods to ensure the precision and accuracy of the source testing procedures. In addition, AirNova, Inc. followed the procedures provided in the 'Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Sources'. Sampling equipment that was utilized in the test program was calibrated prior to the test performance. The following procedures were utilized.

5.1 S-Type Pitot Tubes

The S-type pitot tubes were visually inspected to verify dimension requirements. Pitot tubes meeting requirements were assigned a pitot tube coefficient of 0.84. Pitot tubes which did not meet the requirements were not utilized.

5.2 Dry Gas Meters and Orifice Meters

All dry gas meters used in the field were calibrated against a transfer standard dry gas meter that is maintained in AirNova's calibration data. The transfer standard gas meter is calibrated annually and certified against an NIST traceable Bell-type Prover which operates by liquid displacement.

Field dry gas meters and orifice meters are calibrated at two month intervals at the following orifice meter settings:

- 0.5 in. H_2O
- 1.0 in. H_2O
- 2.0 in. H_2O
- 3.0 in. H_2O
- 4.0 in. H_2O
- 5.0 in. H_2O

The initial and final volume readings and temperature readings were recorded for the dry gas meter and the secondary standard test meter at each orifice meter setting. A dry gas meter correction factor (DGMCF) was calculated for each setting and the average DGMCF was recorded.

All calibration documentation is stored in a designated filing cabinet for future reference. All repair

and maintenance documentation for each meter is stored in files that provide a history of each meter and aid in our preventative maintenance program.

AirNova, Inc. also participates in the EPA Method 5 Dry Gas Meter Audit Program.

5.3 Nozzles

Probe nozzles selected for isokinetic sampling were calibrated according to section 3.4.2 of the "Quality Assurance Handbook for Air Pollution Measurement Systems: Volume III" Upon receipt, the inner diameter of each nozzle is measured across three (3) distinct diameters with a micrometer caliper. The calibrated nozzle diameter is the average of these measurements. Each nozzle is identified uniquely and its calibrated diameter is checked prior to use.

5.4 Thermocouples

Thermocouples and thermometers utilized in the sampling program were calibrated according to section 3.4.2 of the "Quality Assurance for Air Pollution Measurement Systems: Volume III" every two months. The calibration method includes comparing each field thermometer and thermocouple at different temperatures to an ASTM certified mercury-in-glass thermometer. The temperatures must agree within the tolerances mentioned for the type of sampling equipment being calibrated. All the calibration data is stored in a designated filing cabinet for future reference.

1. Stack Gas and Filter Housing Thermocouples and Thermometers
   Three temperatures are measured and extrapolated over the range of temperatures encountered in field operations. The three temperatures used for calibration are:
   1. Ice bath
   2. Boiling point of water
   3. Boiling point of cooking oil (or equivalent in solid salt bath)

2. Impinger Thermometers and Thermocouples
   Two temperatures are required to calibrate:
   1. Ice bath
   2. Stabilized room temperature

3. Dry Gas Thermometers
   Two temperatures are required to calibrate:
   1. Stabilized hot water bath at approximately 104° - 122°F (40° - 50°C)
   2. Stabilized room temperature

5.5 Labels

All samples collected as part of the sampling program (silica gel desiccant samples) were affixed with labels which identify the following: 1) Project No., 2) Date, 3) Type of sample, 4) Run No., 5) Sample location, and 6) Sample fraction.

5.6 Chain-of-Custody Documentation

Chain-of-custody documentation for all samples was implemented at the completion of sampling and sample clean-up and was documented until the samples were received by the laboratory for analysis.

5.7 Calibration Gases

- NIST Traceable Protocol 1 grade (±1%) gas standards were utilized for calibration of the NO_x, O_2, CO_2, CO, and THC analyzers.

Appendix A

Field Data Sheets

*SHUT DOWN 12.6 MIN. RESTART @ ~~1.5~~ 1.5 HRS

AirNova, Inc.
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.223

mid Leak check - pre 0.011/8" Hg Post 0.010 15" Hg
470.810 - 470.890 470.890 - 471.016
.126

ISOKINETIC SAMPLING DATA SHEET

.08

Date 5/16/07 Project No. 3033
Location Carbon bed Inlet
Facility Lot I
Sample Type EPA 29 ~~29.12~~ 29.85
Run Number ~~[illegible]~~ 1 Operators KZ, WMD, CDS
P bar (" Hg) ~~[illegible]~~ Static Pressure (" H_2O) - 6.7
Silica Gel Number Y 3160
H_2O Pickup(ml) +1990 + 20.3 = 2010.3
Leak Check Pre-test 0.009/15 Hg Post-test 0.006/10" Hg

Probe Number 5' Type Glass
Nozzle Number Glass I.D. 0.43
Meter Box Number 4 ΔH@ 1.68 γ = 1.02
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) —
CO_2 9.6 (%) O2 ~~6.00~~ 4.28
O_2 4.15 (%)
CO — (%) CO2 ~~9.34~~ 10.02

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	
1	00	1155	428.628	.12	.82	.82	318	87	84	4.0	245	60	
2	5		431.280	.12	.82	.82	316	85	84	4.0	260	58	
3	10		433.910	.13	.89	.89	316	85	85	4.0	260	57	
4	15	1207	436.640	.24	1.64	1.64	313	90	89	6.0	259	58	
5	20	1335	440.230	.24	1.64	1.64	312	89	89	6.0	251	56	
6	25		443.948	.23	1.57	1.57	308	89	89	6.0	249	60	
7	30		447.410	.33	2.25	2.25	320	89	89	8.0	252	62	
8	35		451.600	.30	2.04	2.04	323	90	90	8.0	253	62	
9	40		455.670	.33	2.25	2.25	324	93	91	8.0	257	60	
10	45		459.930	.28	1.91	1.91	300	94	91	7.0	255	62	
11	50		463.960	.22	1.50	1.50	300	94	92	6.0	254	63	
12	55		467.460	.20	1.36	1.36	250	94	93	6.0	249	64	
	60	1415	470.810	—	—	—	—	—	—	—	—	—	
1	60	1500	471.016	.35	2.37	2.37	324	95	92	10.0	250	60	
2	65		475.425	.27	1.84	1.84	317	91	92	7.0	247	57	
3	70		479.370	.30	2.04	2.04	320	91	92	8.0	252	58	
4	75		483.999	.26	1.77	1.77	312	93	92	7.0	259	60	
5	80		487.240	.25	1.71	1.71	310	93	92	6.0	246	62	
6	85		491.000	.23	1.57	1.57	308	95	93	6.0	248	63	
7	90		494.604	.23	1.57	1.57	313	96	93	6.0	240	64	
8	95		498.300	.18	1.23	1.23	320	96	93	5.0	244	58	
9	100		501.487	.14	.96	.96	320	96	94	4.0	242	56	
10	105		504.334	.14	.96	.96	276	96	94	4.0	246	60	
11	110		507.190	.13	.89	.89	284	95	92	4.0	250	60	
12	115		509.960	.12	.82	.82	276	94	90	4.0	240	59	
	120	1600	512.586	—	—	—	—	—	—	—	—	—	
							~~300~~						
			83.752				300	92				Iso	99.736

~~83.458 - 0.350 = 83.608~~

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mid leak check Pre - 561.001 - 561.178 6" Hg 0.06
Post - 561.178 - 561.270 15" Hg 0.01

ISOKINETIC SAMPLING DATA SHEET

Date 5/17/07 Project No. 3033
Location Carbonbed Inlet
Facility GFI
Sample Type EPA 29
Run Number ~~ONE~~ TWO Operators RZ, WMD CAS
P bar (" Hg) 30.35 Static Pressure(" H_2O) -6.7
Silica Gel Number ~~90651~~ 90696
H_2O Pickup(ml) +1880 + 21.92 1901.9
Leak Check Pre-test 0.012/15" Hg Post-test 0.008/7" Hg

Probe Number 5' Type Glass
Nozzle Number 6/9x I.D. 0.43
Meter Box Number 4 ΔH@ 1.68 y = 1.02
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) ~~86~~ 72°
CO_2 — [%] O_2 ~~4.28~~ 6.00
O_2 — [%] CO_2 ~~9.42~~ 9.39
CO — [%]

	Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
B	1	00	830	520.210	.30	2.00	2.00	132	65	64	5.0	245	60
	2	5		524.080	.30	2.00	2.00	189	65	63	5.0	251	54
	3	10		527.920	.33	2.20	2.20	320	65	64	5.0	254	49
	4	15		532.100	.40	2.67	2.67	323	65	64	6.0	248	50
	5	20		536.560	.37	2.40	2.40	323	68	65	6.0	246	52
	6	25		540.875	.35	2.37	2.37	330	69	66	6.0	250	55
	7	30		545.140	.20	1.30	1.30	327	69	66	5.0	240	57
	8	35		548.400	.14	.91	.91	329	69	67	4.0	250	56
	9	40		551.100	.13	.85	.85	334	70	67	4.0	246	57
	10	45		553.670	.12	.78	.78	333	71	68	3.0	250	60
	11	50		556.130	.11	.72	.72	342	71	68	3.0	248	61
	12	55		558.550	.12	.78	.78	343	72	68	3.0	256	62
		60	930	561.001	—	—	—	—	—	—	—	—	—
A	13	60	1203	561.270	.33	2.14	2.14	300	68	68	5.0	260	60
5	14	65		565.320	.33	2.14	2.14	333	68	68	5.0	250	58
10	15	70		569.—	.29	1.88	1.88	320	69	68	5.0	250	60
15	16	75		573.230	.31	2.01	2.01	316	70	68	5.0	246	60
20	17	80		577.145	.30	1.95	1.95	322	71	69	5.0	240	59
25	18	85		581.042	.32	2.08	2.08	332	73	69	6.0	244	59
30	19	90		584.970	.19	1.23	1.23	314	74	70	4.0	250	60
35	20	95		588.264	.15	.98	.98	322	75	71	4.0	250	59
40	21	100		590.923	.12	.78	.78	322	76	71	3.0	259	61
45	22	105		593.440	.11	.72	.72	323	76	72	3.0	253	62
50	23	110		595.830	.11	.72	.72	324	77	73	3.0	254	63
55	24	115		598.240	.11	.72	.72	322	77	73	3.0	252	64
		120	1303	600.669	—	—	—	—	—	—	—	—	—

80.459 - 0.269 = 80.190

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Pre 650.564 - 650.641 / 0.009
Post 650.641 - 650.752 0.010

ISOKINETIC SAMPLING DATA SHEET

Date 5/17/07 Project No. 3033
Location Inlet
Facility Gt I
Sample Type EPA 23 Dioxin
Run Number One Operators KZ, CDS, WM
P bar (" Hg) 30.18 Static Pressure (" H_2O) -6.7
Silica Gel Number 10682
H_2O Pickup (ml) +2350 mL +30.0 = 2380.0
Leak Check Pre-test 0.01015" Post-test 0.008 0.010" Hg

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .396
Meter Box Number 4 ΔH@ 1.68 y = 1.02
Sample Box Number —
Assumed Moisture (%) 5.3%
Assumed Meter Temp. (°F) 72°
CO_2 9.54 (%)
O_2 4.75 (%)
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Coil Exit °F
D 1	00	1545	601.054	.33	1.54	1.54	329	67	66	253	8.0	60	63
2	7.5		606.700	.33	1.54	1.54	331	67	66	248	8.0	57	60
3	15		611.850	.28	1.31	1.31	332	67	67	254	8.0	53	57
4	22.5		616.650	.30	1.40	1.40	327	68	67	260	8.0	54	57
5	30		621.520	.32	1.50	1.50	316	68	67	258	8.0	56	60
6	37.5		626.590	.16	.75	.75	318	70	68	252	5.0	53	58
7	45		630.265	.17	.80	.80	320	70	68	259	5.0	54	59
8	52.5		634.072	.15	.70	.70	320	71	68	256	5.0	55	60
9	60		637.575	.14	.65	.65	324	71	69	260	5.0	58	63
10	67.5		641.002	.13	.60	.60	330	72	69	254	5.0	60	66
11	75		644.270	.12	.55	.55	339	72	70	260	5.0	61	64
12	82.5		647.430	.12	.58	.55	287	72	70	258	5.0	63	64
	90	1715	650.564	—	—	-	-	-	-	-	-	-	
B 13	90	1740	650.752	.12	.55	.55	340	71	71	260	5.0	60	63
14	97.5		653.705	.12	.55	.55	360	71	70	255	5.0	54	58
15	105		656.900	.14	.65	.65	320	70	70	260	5.0	55	59
16	112.5		660.320	.13	.60	.60	335	71	70	259	5.0	55	60
17	120		663.610	.14	.65	.65	326	71	70	256	5.0	56	61
18	127.5		667. —	.17	.79	.79	320	72	70	249	6.0	58	63
19	135		670.790	.31	1.43	1.43	316	71	69	260	8.0	59	63
20	142.5		675.690	.33	1.53	1.53	320	70	69	260	10.0	52	57
21	150		680.800	.33	1.53	1.53	318	70	69	254	10.0	53	56
22	157.5		685.990	.31	1.43	1.43	326	70	69	249	8.0	54	56
23	165		691.032	.29	1.34	1.34	326	71	69	261	8.0	52	55
24	172.5		695.880	.27	1.25	1.25	320	71	69	254	8.0	55	58
	180	1910	700.584	—									
			99.342										

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0.0028" Pre - 751.737 - 751.817
0.0010/15" Post - 751.817 - 751.850

ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location Inlet
Facility GTI
Sample Type Dioxins
Run Number TWO Operators KZ, WMD
P bar (" Hg) 30.26 Static Pressure(" H_2O) -6.7
Silica Gel Number V 3169
H_2O Pickup(ml) + 2,360 ml + 28.7 = 2388.7
Leak Check Pre-test 0.0010 15" Hg Post-test 0.0006/1" Hg

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .376
Meter Box Number 4 ΔH@ 1.68 y = 1.02
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 65° / 60
CO_2 8.85 (%)
O_2 5.75 (%)
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Coil Exit of
A 1	00	827	700.841	.24	1.09	1.09	300	55	53	8.0	251	60	60
2	7.5		705.280	.27	1.23	1.23	315	55	53	8.0	250	48	50
3	15		709.—	.25	1.14	1.14	318	55	53	8.0	257	47	50
4	22.5		714.355	.27	1.23	1.23	326	55	54	8.0	258	51	53
5	30		718.902	.29	1.32	1.32	330	56	56	9.0	257	54	54
6	37.5		723.735	.32	1.46	1.46	334	56	56	10.0	260	55	57
7	45		728.630	.29	1.32	1.32	330	57	56	9.0	249	60	62
8	52.5		733.440	.23	1.04	1.04	330	57	57	8.0	250	62	64
9	60		737.790	.18	.82	.82	324	57	56	7.0	248	62	65
10	62.5		741.785	.16	.73	.73	320	58	57	7.0	250	52	52
11	75		745.400	.12	.55	.55	306	58	57	6.0	250	54	56
12	82.5		748.590	.12	.55	.55	299	58	57	6.0	259	56	60
	90	957	751.737	—	—	—	—	—	—	—	—	—	
B 13	90	1015	751.850	.26	1.19	1.19	313	60	58	8.0	249	55	58
14	97.5		755.400	.33	1.49	1.49	313	60	59	9.0	256	54	58
15	105		760.410	.34	1.54	1.54	314	59	57	10.0	253	46	50
16	112.5		765.640	.33	1.49	1.49	320	59	58	10.0	257	43	47
17	120		770.730	.28	1.26	1.26	320	59	58	10.0	260	44	46
18	127.5		775.555	.27	1.22	1.22	312	59	59	10.0	252	46	50
19	135		780.250	.28	1.26	1.26	321	60	60	10.0	250	42	48
20	142.5		784.950	.26	1.17	1.17	320	61	60	10.0	248	44	48
21	150		789.610	.17	.76	.76	315	58	58	7.0	257	41	50
22	157.5		793.298	.18	.81	.81	318	60	59	7.0	260	42	50
23	165		797.110	.12	.54	.54	306	60	59	6.0	254	43	57
24	172.5		800.350	.12	.54	.54	310	60	60	6.0	247	44	58
	180	1145	803.464	—									
			102.510										

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Pre
Post

Pre 152.548-152.560 0.009/in
Post 152.560-152.721 0.007/in

ISOKINETIC SAMPLING DATA SHEET

Date 5/17/07 Project No. 3033
Location Inlet
Facility GTI
Sample Type EPA mm 5 SV00
Run Number One Operators
P bar (" Hg) 30.18 Static Pressure(" H_2O) -6.7
Silica Gel Number V 3161
H_2O Pickup(ml) 2510 mL + 29.2 = 2539.2
Leak Check Pre-test 0.012015" Hg Post-test 0.013012" Hg

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .400 .389 .387
Meter Box Number 6 ΔH@ 1.79 γ = 0.98
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 85°
CO_2 9.59 (%)
O_2 4.75 (%)
CO — (%)

	Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)	Coil Exit°
			1545											
B	1	00	~~1645~~	101.915	.12	.54	.54	325	6	8	4.0	250	60	56
	2	7.5		103.785	.13	.59	.59	330	6	8	6.0	258	60	58
	3	15		108.445	.12	.54	.54	330	7	1	4.0	260	53	56
	4	22.5		111.654	.14	.64	.64	331	6	8	7.0	260	57	58
	5	30		115.170	.14	.64	.64	330	7	2	7.0	261	58	60
	6	37.5		118.660	.16	.73	.73	320	7	4	8.0	254	60	62
	7	45		122.390	.30	1.40	1.40	318	7	8	10.0	256	61	62
	8	52.5		127.236	.33	1.54	1.54	309	8	3	11.0	250	61	64
	9	60		132.455	.32	1.47	1.47	312	8	6	11.0	249	53	60
	10	67.5		137.670	.30	1.40	1.40	330	9	0	10.0	256	54	61
	11	75		142.820	.26	1.19	1.19	318	9	2	10.0	250	56	60
	12	82.5		147.798	.24	1.10	1.10	347	9	5	10.0	246	59	63
		90	1715	152.548	-	-	-	-	-	-	-	-	-	
A	13	90	1740	152.721	.33	1.52	1.52	350	9	1	12.0	250	60	63
	14	97.5		157.820	.32	1.47	1.47	340	9	1	12.0	260	57	60
	15	105		162.925	.30	1.38	1.38	331	9	2	11.0	260	51	56
	16	112.5		168.105	.30	1.38	1.38	332	9	5	11.0	261	51	57
	17	120		173.080	.30	1.38	1.38	329	9	5	11.0	256	52	57
	18	127.5		178.160	.20	.92	.92	327	9	8	10.0	250	54	60
	19	135		182.459	.19	.87	.87	330	9	8	10.0	247	56	62
	20	142.5		186.612	.16	.74	.74	327	9	9	7.0	250	55	58
	21	150		190.400	.16	.74	.74	324	9	9	7.0	256	54	58
	22	157.5		194.141	.12	.55	.55	330	9	9	5.0	250	56	59
	23	165		197.500	.12	.55	.55	323	9	9	5.0	260	51	55
	24	172.5		200.720	.11	.51	.51	330	9	9	4.0	252	53	56
		190	1910	203.895	-	-	-							
				101.807										

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0.008/15" Hg Pre 257.515 - 257.600
Post 257.600 - 257.725
0.0013/15" Hg

ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location Inlet
Facility GTI
Sample Type SVOC's
Run Number two Operators K2, WMD
P bar (" Hg) 30.26 Static Pressure(" H_2O) -6.7
Silica Gel Number V 3163
H_2O Pickup(ml) + 2,300 ml +28.3 = 2328.3
Leak Check Pre-test 0.009 15" Hg Post-test 0.002 10" Hg
Avg Δ .244

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .389
Meter Box Number 6 ΔH@ 1.79 Y=0.98
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 80°
CO_2 8.85 (%)
O_2 5.75 (%)
CO — (%)

	Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Co. Ex. of
B	1	00	827	204.088	.26	1.19	1.19	311	4	6	7.0	249	49	50
	2	7.5		208.590	.33	1.50	1.50	320	4	6	8.0	258	42	49
	3	15		213.600	.33	1.50	1.50	315	5	8	8.0	260	44	50
	4	22.5		218.730	.33	1.50	1.50	318	6	4	8.0	250	44	50
	5	30		224.000	.30	1.36	1.36	299	7	0	8.0	240	45	50
	6	37.5		229.000	.27	1.23	1.23	310	7	2	7.0	258	46	51
	7	45		233.860	.30	1.36	1.36	312	7	4	8.0	260	50	53
	8	52.5		238.820	.24	1.09	1.09	320	7	9	7.0	254	54	55
	9	60		243.330	.18	.82	.82	320	7	9	6.0	255	54	56
	10	67.5		247.260	.18	.82	.82	319	7	9	6.0	260	50	51
	11	75		251.146	.12	.54	.54	316	7	9	5.0	249	51	53
	12	82.5		254.330	.13	.59	.59	321	7	9	5.0	247	54	56
A		90	957	257.515	—	—	—	—	—	—	—	—	—	
	13	90	1015	257.725	.12	.54	.54	300	8	0	5.0	254	53	53
	14	97.5		262.020	.12	.54	.54	311	8	1	5.0	242	42	50
	15	105		265.056	.18	.82	.82	311	8	1	6.0	248	42	50
	16	112.5		268.940	.18	.82	.82	318	8	1	6.0	250	41	46
	17	120		272.880	.26	1.19	1.19	320	8	2	8.0	246	42	45
	18	127.5		277.550	.30	1.37	1.37	320	8	2	8.0	250	44	46
	19	135		282.600	.32	1.46	1.46	316	8	2	8.0	254	46	49
	20	142.5		287.750	.30	1.37	1.37	313	8	2	8.0	260	40	46
	21	150		293.010	.29	1.32	1.32	311	7	8	8.0	261	42	47
	22	157.5		297.920	.26	1.19	1.19	310	8	0	8.0	258	42	47
	23	165		302.740	.30	1.37	1.37	298	8	0	8.0	253	44	47
	24	172.5		307.790	.26	1.19	1.19	298	8	2	8.0	250	46	50
		180	1145	313.000	←	—	—	—	—					
				108.702										

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* 0.004/9" Hg Pre - 818,860 - 818.9
0.010/15" Hg Post - 818990 - 819.7

ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location Inlet Carbonbed
Facility GTI
Sample Type EPA 8 Sox
Run Number One Operators KZ, WMD, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) -6.7
Silica Gel Number P0687
H_2O Pickup(ml) 860 +34.5 = 894.5
Leak Check Pre-test 0.006/15" Hg Post-test 0.006/10" Hg

Probe Number 51 Type Glass
Nozzle Number Glass I.D. .432
Meter Box Number 4 ΔH@ 1.68 y = 1.02
Sample Box Number —
Assumed Moisture(%) 5.8%
Assumed Meter Temp.(°F) 60°
CO_2 ~~8.15~~ 8.70 (%)
O_2 ~~5.75~~ 5.90 (%)
CO — (%)

	Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
A	1	00	1330	803.699	.14	.89	.89	309	59	56	5.0	249	60
	2	2.5		805.020	.12	.77	.77	318	60	57	5.0	252	52
	3	5		806.270	.13	.83	.83	321	60	58	5.0	260	52
	4	7.5		807.550	.13	.83	.83	320	60	57	5.0	258	52
	5	10		808.820	.13	.83	.83	322	60	57	5.0	256	52
	6	12.5		810.120	.18	1.15	1.15	310	60	57	6.0	258	52
	7	15		811.585	.20	1.28	1.28	326	60	57	7.0	260	53
	8	17.5		813.177	.24	1.53	1.53	320	60	57	7.0	256	53
	9	20		814.880	.30	1.92	1.92	330	60	57	9.0	251	54
	10	22.5		816.854	.33	2.11	2.11	329	60	57	9.0	248	54
*	11	25	1356	818.860	.30	1.92	1.92	330	60	57	9.0	260	55
	12	27.5	1425	819.788 / 820.680	.22	1.41	1.41	320	60	57	7.0	254	56
		30	1430 1432	822.410	—	—	—	—	—	—	—	—	—
B	13	30	1433	822.410	.26	1.66	1.66	308	61	58	9.0	248	48
	14	32.5		824.140	.33	2.11	2.11	316	61	58	9.0	250	50
	15	35		826.—	.32	2.04	2.04	330	61	58	9.0	248	50
	16	37.5		828.080	.32	2.04	2.04	324	61	58	9.0	239	53
	17	40		830.040	.36	2.30	2.30	318	61	58	10.0	240	53
	18	42.5		832.100	.28	1.79	1.79	321	61	58	9.0	246	54
	19	45		833.980	.30	1.92	1.92	315	61	58	9.0	250	54
	20	47.5		835.920	.20	1.28	1.28	318	60	57	7.0	253	55
	21	50		837.530	.16	1.02	1.02	321	60	58	6.0	256	56
	22	52.5		838.960	.14	.89	.89	326	60	58	5.0	260	53
	23	55		840.280	.12	.76	.76	317	60	57	5.0	261	50
	24	57.5		841.520	.13	.83	.83	312	60	57	5.0	255	50
		60	1503	842.830	—	—	—	—	—	—	—	—	
				39.131									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/8/07 Project No. 3033
Location Inlet Carbon bed
Facility GTI
Sample Type Epa 8 Sox
Run Number TWO Operators KZ, WMD, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) -6.7
Silica Gel Number P0679
H_2O Pickup(ml) +995 +34.3 = 1029.3
Leak Check Pre-test 0.006 Post-test 0.004/9" Hg

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .432
Meter Box Number 4 ΔH@ 1.68 y' 1.02
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 60°
CO_2 8.85 (%)
O_2 5.75 (%)
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
B 1	00	1540	843.116	.13	.83	.83	306	62	60	4.0	250	60
2	2.5		844.385	.12	.76	.76	314	61	59	4.0	257	45
3	5		845.600	.12	.76	.76	322	60	59	4.0	250	45
4	7.5		846.850	.18	1.15	1.15	320	60	58	5.0	260	46
5	10		848.330	.20	1.28	1.28	316	61	60	5.0	260	46
6	12.5		849.950	.28	1.79	1.79	320	61	60	7.0	252	47
7	15		851.730	.30	1.92	1.92	322	61	60	8.0	249	47
8	17.5		853.670	.34	2.17	2.17	323	61	60	9.0	250	48
9	20		855.740	.33	2.11	2.11	324	60	60	9.0	246	50
10	22.5		857.780	.32	2.04	2.04	330	60	59	9.0	250	54
11	25		859.760	.26	1.66	1.66	320	60	58	7.0	254	57
12	27.5		861.605	.24	1.54	1.54	316	60	58	7.0	261	58
	30	1610	863.350	—	—	—	—	—	—	—	—	—
A 13	30	1617	863.350	.26	1.66	1.66	302	60	58	7.0	245	46
14	32.5		865.155	.28	1.79	1.79	316	60	58	7.0	250	50
15	35		867.000	.33	2.17	2.11	326	60	58	9.0	252	52
16	37.5		869.055	.30	1.92	1.92	330	60	58	8.0	248	54
17	40		870.978	.22	1.41	1.41	332	59	58	7.0	250	56
18	42.5		872.680	.19	1.22	1.22	328	59	58	7.0	252	52
19	45		874.260	.20	1.28	1.28	320	59	57	7.0	256	48
20	47.5		875.840	.13	.83	.83	320	59	57	4.0	256	48
21	50		877.120	.12	.76	.76	316	59	57	4.0	251	50
22	52.5		878.360	.15	.96	.96	322	59	57	4.0	249	52
23	55		879.650	.12	.76	.76	321	59	57	4.0	248	54
24	57.5		880.890	.14	.89	.89	314	59	57	4.0	248	56
	60	1643	882.215	—	—	—						
			39.099									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location Inlet Carbonbed
Facility GTI
Sample Type EPA 26 A
Run Number One Operators KZ, LMD, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) −6.7
Silica Gel Number P3162
H_2O Pickup(ml) +860+10.2 = 870.2
Leak Check Pre-test 0.012@15"Hg Post-test 0.006 @10"

Probe Number 5' Type Glass
Nozzle Number Glass I.D. .438
Meter Box Number 6 ΔH@ 1.79 γ= 0.98
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) 75°
CO_2 8.85 (%)
O_2 5.75 (%)
CO — (%)

mid pt. Leak ✓ post=0. @ pre=0.

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	1330	313.607	0.26	1.93	1.93	307	6	0	6.5	256	47
2	2.5	|	315.665	0.33	2.45	2.45	311	6	0	8.0	260	45
3	5	|	317.900	0.33	2.45	2.45	314	6	1	8.0	262	45
4	7.5	|	319.905	0.34	2.52	2.52	315	6	2	9.0	257	45
5	10	|	322.155	0.31	2.30	2.30	320	6	4	8.5	260	47
6	12.5	|	324.315	0.29	2.15	2.15	321	6	4	8.0	265	47
7	15	|	326.415	0.30	2.22	2.22	321	6	5	8.0	271	49
8	17.5	|	328.535	0.26	1.93	1.93	323	6	6	7.5	268	49
9	20	|	330.515	0.21	1.56	1.56	322	6	8	5.0	269	50
10	22.5	|	332.280	0.18	1.33	1.33	325	6	9	5.0	265	50
11	25	|	333.970	0.15	1.11	1.11	326	7	0	4.0	260	48
12	27.5	|	335.400	0.12	0.89	0.89	327	7	1	4.0	260	47
1429	30	[redacted]	336.888	—	—	—	—	—	—	—	—	—
13	30	1433	336.888	0.15	1.11	1.11	305	6	6	4.5	243	48
14	32.5	|	338.355	0.14	1.03	1.03	309	6	7	4.0	248	46
15	35	|	339.775	0.13	0.96	0.96	312	6	8	4.0	242	46
16	37.5	|	341.055	0.13	0.96	0.96	313	6	9	4.0	250	44
17	40	|	342.440	0.12	0.89	0.89	317	7	0	4.0	242	45
18	42.5	|	343.770	0.17	1.26	1.26	320	7	0	5.0	248	47
19	45	|	345.390	0.23	1.70	1.70	319	7	1	6.5	255	48
20	47.5	|	347.280	0.30	2.22	2.22	320	7	2	8.0	260	48
21	50	|	349.275	0.33	2.45	2.45	321	7	3	8.0	258	49
22	52.5	|	351.485	0.29	2.15	2.15	324	7	5	8.0	248	46
23	55	|	353.575	0.25	1.85	1.85	328	7	6	7.5	251	47
24	57.5	|	355.610	0.19	1.41	1.41	331	7	7	6.0	259	48
	60	1503	357.363	—	—	—	—	—	—	—	—	—
			43.756									

3

56 of 26 part

A

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location GTI Inlet
Facility GTI
Sample Type EPA 26-A
Run Number #20 Operators KZ, WMD, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) −6.7
Silica Gel Number 10653
H_2O Pickup(ml) +995 + 11.3 = 1006.3
Leak Check Pre-test 0.015@15"Hg Post-test 0.007@8"Hg

Probe Number 5' Type GLASS
Nozzle Number GLASS I.D. .438
Meter Box Number 6 ΔH@ 1.79Y=0.98
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 75
CO_2 8.85 (%)
O_2 5.75 (%)
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
A 1	00	1540	357.825	0.12	0.89	0.89	301	70		3.0	249	49
2	2.5		359.165	0.13	0.96	0.96	314	70		3.0	244	42
3	5		360.540	0.16	1.18	1.18	317	70		4.0	250	42
4	7.5		362.075	0.18	1.33	1.33	323	71		4.0	252	42
5	10		363.790	0.25	1.85	1.85	320	71		5.5	255	43
6	12.5		365.760	0.28	2.08	2.08	322	72		6.0	258	44
7	15		367.560	0.33	2.45	2.45	325	73		7.5	260	44
8	17.5		369.445	0.29	2.15	2.15	323	74		6.5	254	45
9	20		371.810	0.27	2.00	2.00	320	75		6.0	249	47
10	22.5		373.820	0.30	2.22	2.22	320	76		7.0	248	49
11	25		375.950	0.25	1.85	1.85	318	78		6.0	247	51
12	27.5		378.015	0.24	1.78	1.78	316	78		6.0	246	52
—	30	1610	379.815	—	—	—	—	—	—	—	—	—
13	30	1613	379.815	0.15	1.11	1.11	315	79		4.0	239	48
14	32.5		381.420	0.18	1.33	1.33	313	80		5.0	241	49
B 15	35		383.300	0.20	1.48	1.48	312	80		5.5	345	49
16	37.5		384.925	0.25	1.85	1.85	316	80		6.0	348	50
17	40		386.855	0.27	2.00	2.00	319	81		6.0	350	51
18	42.5		388.850	0.31	2.30	2.30	320	82		7.0	351	52
19	45		391.025	0.35	2.55	2.55	322	82		6.0	355	46
20	47.5		393.265	0.22	1.63	1.63	323	83		5.5	356	45
21	50		395.020	0.26	1.98	1.98	324	84		6.0	354	46
22	52.5		396.985	0.27	2.00	2.00	322	85		6.0	354	47
23	55		399.000	0.24	1.78	1.78	325	85		6.0	352	47
24	57.5		400.915	0.22	1.63	1.63	328	86		5.5	351	
—	60	1643	402.771	—	—	—	—	—	—	—		
			44.946									

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ISOKINETIC SAMPLING DATA SHEET

K Factor = 7.103
ΔP AVE = .23

Date 5/16/07 Project No. 3033
Location Outlet
Facility GTI
Sample Type ~~[illegible]~~ PM-202
Run Number ONE Operators CS, KZ, WMD
P bar (" Hg) 29.70 Static Pressure(" H_2O) +.26
Silica Gel Number V3176
H_2O Pickup(ml) + 1950 ML + 36.7 = 1986.7
Leak Check Pre-test 0.010 @ 15" Hg Post-test 0.004 @ 7" Hg

Probe Number AN-5 Type Glass
Nozzle Number Glass .425 I.D. 0.425
Meter Box Number 5 ΔH@ 1.69 y = 1.00
Sample Box Number —
Assumed Moisture(%) 53
Assumed Meter Temp.(°F) 88
CO_2 ~~9.6~~ 9.6 (%)
O_2 ~~6.8~~ 4.15 (%)
CO — (%)

O ~ 4.61
CO ~ 9.79

MID point LK CHK post
post = .010 @ 10" Hg Pre
Pre = .014 @ 13" Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)	
1	00	1155	33.844	.24	1.7	1.7	269	83	83	6	228	~~223~~ 60	
2	7.5	-	39.51	.23	1.6	1.6	267	83	82	6	246	61	STOP 1206
3	15	1206	42.060/44.66	.21	1.5	1.5	269	86	86	6	260	60	RESTR 1325
4	22.5	[illegible]	49.83	.21	1.5	1.5	271	87	85	6	255	62	
5	30		55.08	.24	1.7	1.7	272	87	85	7	257	63	
6	37.5		60.48	.26	1.8	1.8	276	87	86	7	260	63	
7	45		66.28	.22	1.6	1.6	268	88	87	7	261	63	
8	52.5		71.68	.17	1.2	1.2	261	88	87	6	256	65	
	60	1415	76.363	—	—	—	—	—	-	—	—	-	Change Port
9	60	1500	76.743	.20	1.4	1.4	263	87	86	6	253	61	LEAK CHK
10	67.5		81.93	.18	1.2	1.2	267	87	86	5	255	62	
11	75		86.55	.20	1.4	1.4	271	88	86	6	257	62	
12	82.5		91.67	.20	1.4	1.4	275	88	86	6	254	63	
13	90		96.77	.24	1.7	1.7	282	90	87	7	256	64	
14	97.5		102.29	.27	1.9	1.9	286	90	88	7	257	65	
15	105		108.06	.25	1.7	1.7	285	89	88	7	257	65	
16	112.5		113.72	.25	1.7	1.7	281	88	88	7	255	65	
	120	1600	119.369	—	-	-	—	-	—	-	-	-	
			~~85.525~~										

85.525 = 0.380 = 85.145

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ISOKINETIC SAMPLING DATA SHEET

Date 5/17/07 Project No. 3033
Location outlet
Facility GTI
Sample Type EPA 29 PM-202
Run Number ~~one~~ two Operators KZ, CDS, WMD
P bar (" Hg) 30.05 Static Pressure(" H_2O) + 0.26
Silica Gel Number P0681
H_2O Pickup(ml) +2005 + 35.0 = 2040.0
Leak Check Pre-test 0.016 @ 15" Hg Post-test 0.011 @ 9" Hg

Probe Number AN-5 Type Glass
Nozzle Number Glass .425 I.D. 0.425
Meter Box Number 5 ΔH@ 1.69 y=1.00
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 70
CO_2 ~~6.6~~ 9.6 [%]
O_2 ~~6.8~~ 4.15 [%]
CO [%]
O2 5.18
CO2 9.41

MID leak chk
Post 0.10 @ 10" Hg
Pre 0.17 @ 14" Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	
1	00	0835	121.051	.25	1.7	1.7	274	66	65	4	240	59	
2	7.5		126.13	.15	1.0	1.0	278	68	65	4	248	51	
3	15		129.98	.25	1.7	1.7	279	68	68	4	242	52	
4	22.5		135.12	.24	1.6	1.6	279	72	69	5	247	54	
5	30		140.42	.26	1.7	1.7	280	73	71	5	249	56	
6	37.5		145.76	.28	1.9	1.9	280	71	72	5	247	58	
7	45		151.25	.26	1.7	1.7	275	70	71	6	245	60	
8	52.5		156.71	.18	1.2	1.2	265	69	69	5	253	57	
	60	0935	161.265/161.634	—	—	—	—	—	—	—	—	—	Change Port
9	60	1207	161.634	.16	1.1	1.1	265	69	68	4	252	63	leak check
10	67.5		166.04	.21	1.4	1.4	274	70	69	5	256	59	
11	75		170.95	.23	1.5	1.5	277	71	69	5	254	61	
12	82.5		176.01	.23	1.5	1.5	280	73	70	5	255	62	
13	90		180.97	.26	1.7	1.7	283	74	72	6	252	63	
14	97.5		186.56	.28	1.9	1.9	289	74	71	6	260	63	
15	105		192.16	.28	1.9	1.9	291	74	72	7	257	64	
16	112.5		198.78	.26	1.7	1.7	292	73	72	7	257	62	
	120	1307	203.323	—	—	—	—	—	—	—	—	—	

82.272 - 0.369 = 81.903

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MID POINT POST = .016 @ 15"
LEAK CHECK PRE = .015 @ 14"

ISOKINETIC SAMPLING DATA SHEET

K Factor = 7.536
ΔP AVE = 1.733

Date 5/16/07 Project No. 3033
Location Outlet
Facility GT1
Sample Type EPA 29
Run Number ONE Operators CDS, KZ, KMD
P bar (" Hg) 29.95 Static Pressure(" H_2O) + .26
Silica Gel Number V3174
H_2O Pickup(ml) + 1941 ml + 29.0 = 1970.0
Leak Check Pre-test 0.016 @ 15" Hg Post-test 0.010 @ 10" Hg

Probe Number AN-5 Type Glass
Nozzle Number .425 I.D. 0.425
Meter Box Number 7 ΔH@ 1.78 y = 0.99
Sample Box Number —
Assumed Moisture(%) 53
Assumed Meter Temp.(°F) 94
CO_2 9.6 (%)
O_2 4.15 (%)
CO — (%)

O_2 4.61 CO > 41.5
CO_2 9.59 THC 9.5
NO_x 111.8

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	1155	910.144	0.21	1.58	1.58	272	91	88	4.1	247	67
2	7.5	- 1206	915.256	0.24	1.81	1.81	276	91	88	4.9	243	61
3	15	- 1325	920.733	0.20	1.51	1.51	268	94	89	4.1	245	66
4	22.5		925.778	0.21	1.58	1.58	271	95	90	4.3	242	63
5	30		930.881	0.22	1.66	1.66	275	96	91	4.8	244	65
6	37.5		936.123	0.25	1.88	1.88	279	97	91	5.2	255	66
7	45		941.797	0.25	1.88	1.88	278	97	90	5.2	246	62
8	52.5		947.241	0.23	1.73	1.73	276	97	90	5.1	248	60
	60	1415	952.594	—	—	—	—	—	—	—	—	—
9	60	1500	952.955	0.21	1.53	1.53	275	93	91	4.3	246	68
10	67.5		957.994	0.22	1.61	1.61	276	94	90	4.6	254	63
11	75		963.198	0.20	1.46	1.46	277	95	91	4.4	258	61
12	82.5		968.209	0.20	1.46	1.46	279	95	92	4.4	258	60
13	90		973.146	0.26	1.90	1.90	284	97	93	5.3	258	61
14	97.5		978.806	0.28	2.05	2.05	286	99	94	5.9	261	63
15	105		984.684	0.24	1.75	1.75	280	99	93	5.1	261	64
16	112.5		990.168	0.22	1.61	1.61	273	98	90	4.9	248	66
	120	1600	995.418	—	—	—	—	—	—	—	—	—

85.074 .2295 276 95.5 85.6
85.274 - 0.361 = 84.913

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O2 5.18 CO 5.4
CO2 9.41 THC 3.2
NOx 225.2

ISOKINETIC SAMPLING DATA SHEET

Date 5/17/07 Project No. 3033
Location Outlet
Facility GPU
Sample Type EPA 29
Run Number TWO Operators CDS, KZ, WMD
P bar (" Hg) 30.05 Static Pressure(" H_2O) + 0.26
Silica Gel Number V3181
H_2O Pickup(ml) +1930 + 21.7 = 1951.7
Leak Check Pre-test 0.014 @ 15" Hg Post-test 0.005 @ 8" Hg

Probe Number AN-5 Type Glass
Nozzle Number .425 I.D. 0.425
Meter Box Number 7 ΔH@ 1.78 Y=0.99
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) 74
CO_2 9.6 (%)
O_2 4.15 (%)
CO — (%)

MID leak chk
Post 0.010 @ 10" Hg
Pre 0.012 @ 13" Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	0835	995.696	0.20	1.38	1.38	267	69	66	4.5	260	66
2	7.5		000.346	0.20	1.38	1.38	269	71	68	4.5	261	53
3	15		004.953	0.21	1.45	1.45	272	74	73	4.7	254	53
4	22.5		009.681	0.21	1.45	1.45	276	77	74	4.7	259	55
5	30		014.398	0.23	1.59	1.59	281	77	74	5.1	247	60
6	37.5		019.063	0.23	1.59	1.59	283	75	65	5.1	245	66
7	45		024.289	0.26	1.80	1.80	283	72	65	5.8	249	63
8	52.5		029.574	0.26	1.80	1.80	251	73	65	5.9	250	66
	60	0935	034.844/035.089	—	—	—	—	—	—	—	—	—
9	60	1207	035.089	0.22	1.52	1.52	275	71	70	5.1	253	68
10	67.5		040.001	0.23	1.59	1.59	280	73	71	5.2	249	63
11	75		044.931	0.22	1.52	1.52	281	75	72	5.1	250	60
12	82.5		049.817	0.21	1.45	1.45	283	76	72	5.0	252	66
13	90		054.601	0.27	1.86	1.86	285	78	73	5.9	250	61
14	97.5		060.003	0.26	1.80	1.80	289	79	73	5.8	253	63
15	105		065.309	0.23	1.59	1.59	286	80	71	5.4	242	67
16	112.5		070.341	0.18	1.24	1.24	287	78	70	4.9	249	65
	120	1307	074.784	—	—	—	—	—	—	—	—	—

79.088 - 0.245 = 78.843

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MID POINT POST= @6" Hg
PRE= @15" Hg

O_2 - 5.04 CO - 10.1
CO_2 - 9.49 NO_x - 181.1
CH_4 - 7.8

ISOKINETIC SAMPLING DATA SHEET

Date 05/17/07 Project No. 3033
Location Outlet
Facility GTI
Sample Type ~~PAH~~ ~~SVOC~~ DIOXINS
Run Number ONE Operators CS KZ WD JJ C-J
P bar (" Hg) 30.10 Static Pressure(" H_2O) +0.26
Silica Gel Number P0675
H_2O Pickup(ml) +2605 + 45.5 = 2650.3
Leak Check Pre-test 0.011 @15" Hg Post-test 0.005 @ 8" Hg

Probe Number AN-5 Type Glass
Nozzle Number GLASS I.D. 0.392
Meter Box Number 7 ΔH@ 1.78 Y=0.99
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) 78
CO_2 9.6 (%)
O_2 4.15 (%)
CO — (%)

Leak chk - mid
Post 0.004 @ 10" Hg
Pre - 0.005 @ 15" Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Coil Condenser Exit
1	00	1545	074.969	0.24	1.20	1.20	282	67	83	5.1	245	68	68
2	11.5		081.632	0.23	1.16	1.16	284	73	84	5.0	249	53	54
3	23		088.121	0.22	1.11	1.11	289	75	78	4.9	252	59	59
4	34.5		094.589	0.21	1.06	1.06	290	78	77	4.9	248	54	56
5	46		100.915	0.26	1.31	1.31	285	74	62	5.3	250	55	58
6	57.5		107.814	0.28	1.39	1.39	288	73	60	5.4	253	60	63
7	69		114.944	0.26	1.31	1.31	288	71	58	5.3	249	59	60
8	80.5		121.851	0.20	0.99	0.99	256	70	59	4.9	245	65	67
	92	1717	127.886	—	—	—	—	—	—	—	—	—	
9	92	1743	128.111	0.18	0.88	0.88	290	70	60	4.9	250	66	67
10	103.5		133.764	0.26	1.28	1.28	299	71	58	5.3	244	58	59
11	115		140.556	0.25	1.23	1.23	302	72	58	5.2	247	65	66
12	126.5		147.385	0.26	1.28	1.28	306	68	55	5.3	252	63	64
13	138		154.101	0.25	1.23	1.23	307	70	55	5.3	245	60	62
14	149.5		160.834	0.28	1.37	1.37	302	68	56	5.5	246	64	65
15	161		167.834	0.21	1.03	1.03	288	66	55	5.0	246	66	68
16	172.5		173.944	0.20	0.98	0.98	257	65	55	4.9	251	67	68
	184	1915	179.879	—	—	—	—	—	—	—	—	—	

104.685

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~~Mid pt LKV post~~
MID pt LKV POST 0.001@7"Hg
PRE 0.005@15"H

ISOKINETIC SAMPLING DATA SHEET

Date 05/18/07 Project No. 3033
Location Outlet
Facility GT1
Sample Type ~~PAH SVOC~~ DIOXINS
Run Number TWO Operators CS KZ WD JJ C-J
P bar (" Hg) 30.26 Static Pressure(" H_2O) + 0.26
Silica Gel Number V3164
H_2O Pickup(ml) +2370 + 29.0 = 2399
Leak Check Pre-test 0.0.0@15"Hg Post-test 0.003@10"Hg

Probe Number AN-5 Type Glass
Nozzle Number GLASS I.D. 0.392
Meter Box Number 7 ΔH@ 1.78 y=0.99
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 55
CO_2 9.6 (%)
O_2 4.15 (%)
CO — (%)

O_2 – 6.07 CO – 2.8
CO_2 – 8.71 NO_x – 195.1
CH_4 – 2.2

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Coil Cond. Ser Exi
1	00	0827	180.127	.23	1.10	1.10	263	52	50	3.0	260	40	42
2	11.5		186.215	.24	1.15	1.15	265	53	51	3.0	270	39	42
3	23		192.350	.24	1.115	1.15	267	54	52	3.0	275	42	46
4	34.5		198.525	.22	1.05	1.05	266	55	50	4.0	270	47	50
5	46		204.555	.20	0.96	0.96	265	55	50	4.0	260	49	51
6	57.5		210.370	.22	1.05	1.05	262	55	50	5.0	263	47	51
7	69		216.380	.18	0.86	0.86	253	55	51	5.0	263	51	54
8	80.5		221.935	.18	0.86	0.86	250	56	51	5.0	264	60	63
	92	9:58	227.446	—	—	—	—	—	—	—	—	—	
9	92	10:17	227.692	.23	1.10	1.10	268	55	51	5.0	263	53	58
10	103.5		233.550	.23	1.10	1.10	271	56	50	6.0	267	48	51
11	115		239.685	.25	1.20	1.20	271	56	50	7.0	268	50	53
12	126.5		246.100	.22	1.05	1.05	269	55	50	7.0	264	5[illegible]	[illegible]
13	138		252.195	.25	1.20	1.20	268	55	50	8.0	266	5[illegible]	[illegible]
14	149.5		258.500	.23	1.10	1.10	266	55	50	8.0	263	55	57
15	161		264.805	.20	0.96	0.96	264	55	51	8.0	266	51	54
16	172.5		270.730	.20	0.96	0.96	264	55	51	8.0	262	55	58
	184	11:49	276.535	—	—	—	—	—	—	—	—	—	
			96.162										

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O_2 – 5.04
CO_2 – 9.49
CO – 10.1
NO_x – 181.1
CH_4 – 7.8
K = 4.40

ISOKINETIC SAMPLING DATA SHEET

Date 05/17/07 Project No. 3033
Location Outlet
Facility GTI
Sample Type ~~DIOXINS~~ PAH - SVOC
Run Number ONE Operators CS KZ WD JJ CJ
P bar (" Hg) 30.10 Static Pressure(" H_2O) ~~+~~0.26
Silica Gel Number V3168
H_2O Pickup(ml) +2510 + 43.02 2553.0
Leak Check Pre-test 0.016 @15"Hg Post-test 0.018 @10"Hg

Probe Number AN-5 Type Glass
Nozzle Number GLASS I.D. 0.383
Meter Box Number 5 ΔH@ 1.69 y=1.00
Sample Box Number —
Assumed Moisture(%) 53%
Assumed Meter Temp.(°F) 73
CO_2 9.6 [%]
O_2 4.15 [%]
CO — [%]

MID leak chk
Post - 0.019 @ 10" Hg
Pre - 0.017 @ 15" Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft^3	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	COIL CONDE EXIT (°F)
1	00	1545	210.396	0.25	1.10	1.10	279	62	61	5.0	252	55	59
2	11.5		217.025	0.20	0.88	0.88	281	68	63	5.0	256	48	55
3	23		223.08	0.23	1.01	1.01	283	68	63	7	252	54	56
4	34.5		229.43	0.24	1.05	1.05	286	68	67	7	256	57	57
5	46		235.93	0.28	1.23	1.23	287	65	66	7	253	60	59
6	57.5		243.22	0.29	1.28	1.28	289	65	65	8	246	61	60
7	69		250.23	0.28	1.23	1.23	289	63	64	8	252	63	64
8	80.5		257.45	0.28	1.23	1.23	287	62	62	8	255	61	60
	92		264.365	—	—	—	—	—	—	—	—	—	
9	92	1743	264.718	.23	~~0.98~~ ~~1.04~~	~~0.98~~ ~~@1.04~~	284	62	60	7	260	60	62
10	103.5		271.17	.25	1.10	1.10	296	62	61	8	250	59	61
11	115		276.91	.24	1.05	1.05	298	62	62	8	251	60	62
12	126.5		284.47	.28	1.23	1.23	304	59	60	8	253	58	59
13	138		291.63	.25	1.10 ~~25~~	1.10	302	59	58	8	252	62	59
14	149.5		298.06	.26	1.11	1.11	299	60	60	8	256	64	60
15	161		304.765	.26	1.11	1.11	284	60	60	8	256	64	62
16	172.5		311.305	.28	1.23	1.23	272	58	58	8	254	61	62
	184	1915	318.187	—	—	—	—	—	—	—	—	—	

107.438

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O_2 – 6.07 CO – 2.8
CO_2 – 8.71 NO_x – 195.1
CH_4 – 2.2

ISOKINETIC SAMPLING DATA SHEET

Date 05/18/07 Project No. 3033
Location Outlet
Facility GTI
Sample Type PAH – SVOC
Run Number TWO Operators CJ, KZ, WMD
P bar (" Hg) 30.36 Static Pressure(" H_2O) + 0.26
Silica Gel Number V3164
H_2O Pickup(ml) +2270 + 29.8 = 2299.8
Leak Check Pre-test 0.016 @ 5"Hg Post-test 0.006 @ 8"Hg

Probe Number AN-5 Type Glass
Nozzle Number GLASS I.D. 0.383
Meter Box Number 5 ΔH@ 1.69 Y = 1.00
Sample Box Number —
Assumed Moisture(%) 5.3
Assumed Meter Temp.(°F) 73
CO_2 9.6 [%] mid pt. leak ✓
O_2 4.15 [%] post = 0.005 @ 8"Hg
CO — [%] pre = 0.010 @ 5"Hg

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)	Cond. Exit (°F)
1	00	0837	318.838	0.20	0.85	0.85	245	50	49	5.0	239	37	38
2	11.5	|	324.632	0.27	1.13	1.13	258	50	49	5.5	251	36	37
3	23	|	331.056	0.30	1.26	1.26	266	52	50	6.7	247	39	38
4	34.5	|	337.911	0.28	1.17	1.17	265	52	51	6.1	238	44	41
5	46	|	344.600	0.23	0.96	0.96	266	53	51	6.0	245	45	44
6	57.5	|	351.057	0.25	1.05	1.05	268	52	51	6.0	237	46	47
7	69	|	357.430	0.24	1.01	1.01	267	53	51	7.7	242	50	48
8	80.5	|	363.829	0.25	1.05	1.05	267	53	51	6.1	240	57	54
—	92	0958	370.148	—	—	—	—	—	—	—	—	—	—
9	92	1017	370.547	0.19	0.80	0.80	247	53	51	5.0	245	53	52
10	103.5	|	376.199	0.24	1.01	1.01	262	53	52	6.0	246	47	48
11	115	|	382.530	0.26	1.09	1.09	265	53	52	6.2	242	50	49
12	126.5	|	389.009	0.25	1.05	1.05	266	52	51	6.2	235	49	50
13	138	|	395.432	0.27	1.13	1.13	266	52	51	6.7	237	54	52
14	149.5	|	402.023	0.23	0.96	0.96	267	52	51	6.0	238	58	55
15	161	|	408.238	0.23	0.96	0.96	268	53	51	6.0	245	51	53
16	172.5	|	414.350	0.21	0.88	0.88	268	54	51	5.9	250	56	52
—	184	1149	420.367	—	—	—	—	—	—	—	—	—	—
			101.18										

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location OUTLET
Facility GT1
Sample Type EPA 8
Run Number ONE Operators KA, BG, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) +0.26
Silice Gel Number V3132
H_2O Pickup(ml) +910 + 39.8 = 949.8
Leak Check Pre-test 0.009@15"Hg Post-test 0.003@15"Hg

Probe Number 5' Type GLASS
Nozzle Number GLASS I.D. .422
Meter Box Number 7 ΔH@ 1.78 Y = 0.99
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) 55°F
CO_2 9.6 (%) O_2 — 5.8
O_2 4.15 (%) CO_2 - 8.8
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	1337	276.832	0.21	1.35	1.35	265	55	53	4.0	232	43
2	4		279.185	0.23	1.48	1.48	266	55	53	4.0	256	46
3	8		281.600	0.23	1.48	1.48	264	55	53	4.0	258	47
4	12		284.095	0.20	1.29	1.29	265	55	53	4.0	256	49
5	16		286.520	0.24	1.54	1.54	263	55	53	4.0	263	51
6	20		289.055	.24	1.54	1.54	261	55	52	4.0	264	49
7	24		291.540	.20	1.29	1.29	256	57	54	4.0	264	54
8	28		294.015	.22	1.41	1.41	261	57	54	4.0	266	56
	32		296.423	—	—	—	—	—	—	—	—	—
1	32		296.423	.18	1.16	1.16	264	57	54	4.0	261	62
2	36		298.710	.20	1.29	1.29	266	57	54	4.0	261	60
3	40		301.100	.25	1.61	1.61	264	57	54	4.0	263	58
4	44		303.485	.21	1.35	1.35	260	60	56	4.5	254	55
5	48		306.110	.22	1.41	1.41	262	60	57	4.5	255	58
6	52		308.600	.23	1.48	1.48	266	61	57	4.5	254	59
7	56		311.205	.23	1.48	1.48	264	61	58	4.5	256	61
8	60		313.720	.24	1.54	1.54	266	61	58	5.0	261	64
	64	1442	316.220									
			39.388									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location OUTLET
Facility GTI
Sample Type EPA 8
Run Number TWO Operators KA, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) +0.26
Silica Gel Number P0678
H_2O Pickup(ml) 935 + 35.9 = 970.9
Leak Check Pre-test 0.005@15"Hg Post-test 0.001@7"Hg

Probe Number 5' Type GLASS
Nozzle Number GLASS I.D. .422
Meter Box Number 7 ΔH@ 1.78 Y=0.99
Sample Box Number —
Assumed Moisture(%) 5.3%
Assumed Meter Temp.(°F) 55
CO_2 9.6 (%)
O_2 4.15 (%)
CO — (%)

O_2 - 5.8
CO_2 - 8.9

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	1643	316.466	.23	1.48	1.48	270	61	57	4.0	247	53
2	4		318.875	.23	1.48	1.48	270	61	57	4.0	253	52
3	8		321.370	.20	1.29	1.29	266	63	58	4.0	255	54
4	12		323.755	.21	1.35	1.35	267	63	58	5.0	257	54
5	16		326.240	.25	1.61	1.61	264	64	59	5.0	261	55
6	20		328.875	.24	1.54	1.54	261	65	60	5.0	248	55
7	24		331.465	.20	1.29	1.29	265	65	60	5.0	253	58
8	28		333.925	.18	1.16	1.16	263	65	61	5.0	256	60
	32		336.480	—	—	—	—	—	—	—	—	—
1	32		336.480	.18	1.16	1.16	266	66	59	5.0	261	64
2	36		338.975	.22	1.41	1.41	264	68	58	5.0	263	62
3	40		341.285	.24	1.54	1.54	266	68	61	5.0	258	55
4	44		343.900	.21	1.35	1.35	266	68	61	5.0	258	53
5	48		346.380	.20	1.29	1.29	268	68	61	5.0	256	54
6	52		348.850	.24	1.54	1.54	268	68	61	5.0	255	57
7	56		351.455	.24	1.54	1.54	263	68	61	5.0	251	58
8	60		353.065	.21	1.35	1.35	260	68	61	5.0	250	60
	64	1646	356.536									
			40.070									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location OUTLET
Facility GTI
Sample Type EPA 26A
Run Number ONE Operators KA, BG, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) +0.26
Silica Gel Number P0684
H_2O Pickup(ml) +910+15.3 = 925.3
Leak Check Pre-test 0.012@15"Hg Post-test 0.004@7"Hg

Probe Number 5' Type GLASS
Nozzle Number GLASS I.D. .427
Meter Box Number 5 ΔH@ 1.69 Y=1.00
Sample Box Number —
Assumed Moisture(%) 53
Assumed Meter Temp.(°F) 73
CO_2 9.6 (%) O_2 — 5.8
O_2 4.15 (%)
CO — (%) CO_2 — 8.8

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	1337	420.679	0.18	1.17	1.17	249	52	52	2.7	243	48
2	4		423.205	0.21	1.36	1.36	255	52	52	3.0	247	48
3	8		425.770	0.23	1.49	1.49	260	53	52	3.0	247	49
4	12		428.400	0.22	1.43	1.43	263	53	52	3.0	252	50
5	16		430.965	0.20	1.30	1.30	262	54	52	3.0	245	51
6	20		433.490	0.25	1.62	1.62	263	53	52	3.5	244	50
7	24		436.215	.24	1.56	1.56	264	54	53	4.0	260	54
8	28		438.900	.24	1.56	1.56	266	54	53	4.0	261	58
	32		441.563	—	—	—	—	—	—	—	—	—
1	32		441.563	.24	1.36	1.36	265	55	53	4.0	263	60
2	36		444.090	.24	1.56	1.56	264	55	54	4.0	264	60
3	40		446.920	.22	1.43	1.43	262	56	54	4.0	259	61
4	44		449.565	.22	1.43	1.43	264	56	54	4.0	261	56
5	48		452.145	.25	1.62	1.62	266	56	55	4.0	264	55
6	52		454.900	.21	1.36	1.36	263	59	56	4.0	263	57
7	56		457.445	.21	1.36	1.36	264	59	56	4.0	266	61
8	60		459.900	.20	1.30	1.30	263	59	56	4.0	264	62
	64	1442	462.315									
			41.636									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/18/07 Project No. 3033
Location Outlet
Facility GTI
Sample Type EPA 26A
Run Number TWO Operators KA, CDS
P bar (" Hg) 30.26 Static Pressure(" H_2O) +0.26
Silica Gel Number V3156
H_2O Pickup(ml) +935 + 12.0 = 947.0
Leak Check Pre-test 0.005@15"Hg Post-test 0.002@7"Hg

Probe Number 5' Type GLASS
Nozzle Number GLASS I.D. .427
Meter Box Number 7 ΔH@ 1.69 Y=1.02
Sample Box Number —
Assumed Moisture(%) 5.3
Assumed Meter Temp.(°F) 73
CO_2 9.6 (%) O_2 - 8.8
O_2 4.15 (%) CO_2 - 8.9
CO — (%)

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. Hg)	Sample Box Temp (°F)	Impinger Temp (°F)
1	00	15:43	462.578	.18	1.17	1.17	258	58	57	3.0	244	52
2	4		464.830	.21	1.36	1.36	266	58	57	3.0	247	51
3	8		467.350	.23	1.49	1.49	268	59	58	3.0	249	50
4	12		469.905	.24	1.56	1.56	266	60	57	3.0	253	53
5	16		472.650	.22	1.43	1.43	266	61	57	4.0	252	54
6	20		475.280	.25	1.62	1.62	268	61	58	4.0	254	58
7	24		478.000	.23	1.49	1.49	264	62	59	4.0	257	60
8	28		480.565	.24	1.56	1.56	263	62	59	4.0	257	62
	32		483.200	—	—	—	—	—	—	—	—	—
1	32		483.200	.20	1.30	1.30	262	62	60	4.0	257	49
2	36		485.710	.24	1.56	1.56	266	64	61	5.0	261	52
3	40		488.500	.23	1.49	1.49	264	65	61	5.0	258	55
4	44		491.165	.23	1.49	1.49	268	67	62	5.0	255	55
5	48		493.835	.20	1.30	1.30	265	67	62	5.0	253	60
6	52		496.345	.24	1.56	1.56	265	67	62	5.0	253	62
7	56		499.040	.22	1.43	1.43	267	67	62	5.0	251	58
8	60		501.625	.21	1.36	1.36	264	67	62	5.0	254	55
	64	16:46	504.177									
			41.599									

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ISOKINETIC SAMPLING DATA SHEET

Date 5/16/07 Project No. 3033
Location granulator outlet
Facility GTI
Sample Type EPA 4E - METALS
Run Number ~~[illegible]~~ ON Operators KZ, CDS, WMD JJ
P bar (" Hg) 29.70 Static Pressure (" H_2O) 0.0
Silica Gel Number V3167
H_2O Pickup(ml) +1680 +39.1 = 1719.1
Leak Check Pre-test <0.002 cfm @ 15" Hg Post-test 0.001 @ 6" Hg

Probe Number — Type —
Nozzle Number — I.D. —
Meter Box Number B ΔH@ 1.90 Y=1.02
Sample Box Number —
Assumed Moisture(%) —
Assumed Meter Temp.(°F) —
CO_2 — [%]
O_2 — [%]
CO — [%]

Traverse Point Number	Sample Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temp. Inlet (°F)	Meter Temp. Outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
	00	11:53	686.157	—	3.0	3.0		88		5.5	—	68
30	~~40~~	12:07 stopped for LUNCH		—	3.0	3.0		92		5.5	—	62
60	~~80~~		734.220		3.0	3.0		96		5.5	—	60
90	~~80~~	1523	763.335	00 —	3.0	3.0		92		5.5	—	58
120	~~40~~	1553	791.003	30 —				92			—	
	~~50~~			—				—			—	
	60		104.846	—					92.0		—	
	70			—							—	
	80			—							—	
	90			—							—	
	100			—							—	
	110			—							—	
	120			—	—	—	—	—	—	—	—	—

* ESTART 333
STOP 60 min
STOPPED FEEDING 443
ESTART 1453

ISOKINETIC SAMPLING DATA SHEET

Project No. 3033
Date 05/17/07
Facility GTI
Location GRANULATOR OUTLET
Sample Type EPA 4 (7L)
Run Number ~~THREE~~ TWO-METALS Operator(s) WMD, JJ
Barometric Pressure 30.05 Static Pressure 0.0
Silica Gel Number(s) P0683
H_2O Pickup(ml) + 1725 mL + 45.1 = 1770.1
Leak Check Pre-test 0.004 @ 15" Hg Post-test < 0.002 cfm @ 10" Hg

Probe Number — Type S/S
Nozzle Number — I.D. —
Meter Box Number "B" ΔH@ 1.90 Y = 1.02
Pitot Number — C_p —
Sample Box Number —
Assumed Moisture (%) —
Assumed Meter Temperature (°F) —
CO_2 — (%)
O_2 — (%)
CO — (%)

Traverse Point Number	Sampling Time (min.)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in H_2O)	Orifice Pressure (in H_2O) desired	Orifice Pressure (in H_2O) actual	Stack Temp (°F)	Meter Temperature inlet (°F)	Meter Temperature outlet (°F)	Pump Vacuum (in H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
	00	0831	792.453		3.0	3.0		7	0	5.0		68
	30		819.030		3.0	3.0		7	2	5.0		60
	60		847.280		3.0	3.0		7	4	5.0		62
Start 12:03	00 ~~90~~	0938 STOP ~~67 min~~	"		3.0	3.0		8	2	6.5		63
	30		877.350		3.0	3.0		8	7	7.0		61
	60		906.462									
End 1:04	~~30~~											
			114.004					77.0				

ISOKINETIC SAMPLING DATA SHEET

Project No. 3033
Date 5-17-07
Facility GTI
Location Granular
Sample Type EPA 4 During Run 1 Diox/PAH
Run Number —
Operator(s) JJ, WD
Barometric Pressure 30.18
Static Pressure 0.0
Silica Gel Number(s) V3175
H_2O Pickup(ml) +2450 mL +51.4 = 2501.4
Leak Check Pre-test <0.002cf @ 15" Hg Post-test <0.002cf @ 10" Hg

Probe Number —
Type S/S
Nozzle Number —
I.D. —
Meter Box Number "B"
ΔH@ 1.90
Pitot Number —
C_p —
Sample Box Number —
Assumed Moisture (%) —
Assumed Meter Temperature (°F) —
CO_2 — (%)
O_2 — (%)
CO — (%)

Traverse Point Number	Sampling Time (min)	Start Clock Time	Gas Meter Reading ft³	Velocity Head (in. H_2O)	Orifice Pressure (in. H_2O) desired	Orifice Pressure (in. H_2O) actual	Stack Temp (°F)	Meter Temperature inlet (°F)	Meter Temperature outlet (°F)	Pump Vacuum (in. H_g)	Sample Box Temp (°F)	Impinger Temp (°F)
	00	3:45	906.717		3.0	3.0		6	4	7.0		64
	30		936.153		3.0	3.0		6	7	7.5		62
	60 74		971.703		3.0	3.0		6	7	8.0		60
	120		012.445		3.0	3.0		6	6	8.0		63
	END	6:41	054.366									
								66.0				
			147.649									

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Method 2 Gas Velocity and Volume Data Sheet

Cal Noz ~~[illegible]~~ .49 acutrl .43

Av Δp .214 r.45

Plant GTI

Date 5/16/07

Run No. One – INLET

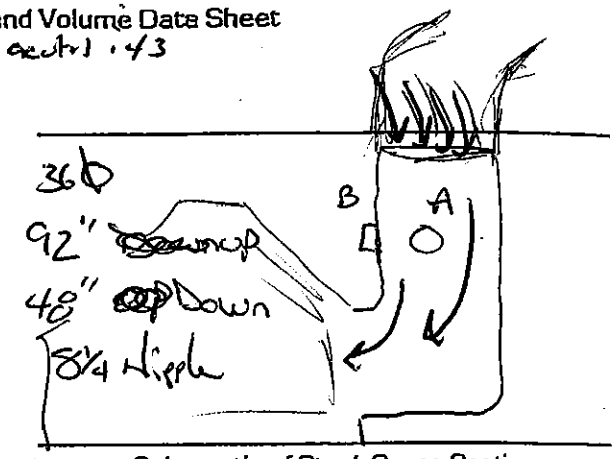
Stack Diameter (in.) 36" + 8¼ Nip

Barometric Pressure ("Hg) 29.70

Static Pressure in Stack (Ps) ("Hg) -6.7

Operators KZ, CDS, WMD

Cp 0.84



Schematic of Stack Cross Section

FIELD DATA

Traverse Point Number	Position (inches) +8½ Nip	Velocity Head (Δ Ps) ("H_2O)	Stack Temp. (°F)	Cyclonic Flow Determination Angle ( ) which yields a null Δ P	Sq. rt. of Δ P
B 1	0.8	.12	318		
2	2.4	.13	324		
3	4.2	.12	326		
4	6.4	.14	329		
5	9.0	.14	330		
6	12.8	.16	330		
7	23.2	.33	309		
8	27.0	.33	301		
9	29.6	.31	296		
10	31.8	.32	240		
A 11	33.6	.25	180		
12	35.2	.24	120		
1		.14	320		
2		.13	320		
3		.14	318		
4		.14	317		
5		.15	318		
6		.16	319		
7		.32	309		
8		.35	295		
9		.35	291		
10		.30	278		
11		.24	250		
12		.26	199		

rev: 10/95

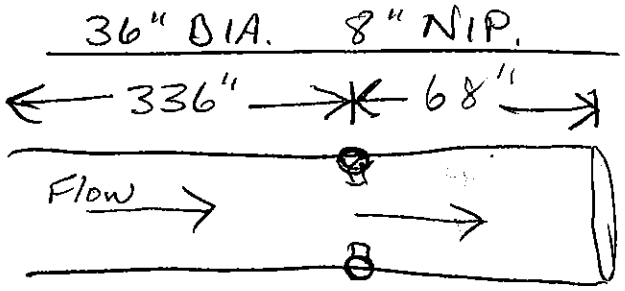
Average Angle ( ):

.425
~~.430~~
.435

AirNova, Inc.

Method 2 Gas Velocity and Volume Data Sheet

Plant GTI
Date 05/16/07
Run No. ONE – OUTLET
Stack Diameter (in.) 36"
Barometric Pressure (°Hg) 29.70
Static Pressure in Stack (Ps) (°Hg) + 0.26
Operators CS KZ WD JT
Cp 0.84



Schematic of Stack Cross Section

	FIELD DATA					
	Traverse Point Number	Position (inches)	Velocity Head (Δ Ps) (°H_2O)	Stack Temp. (°F)	Cyclonic Flow Determination: Angle ( ) which yields a null Δ P	Sq. rt. of Δ P
A	1		0.25	248		
	2		0.25	250		
	3		0.25	252		
	4		0.25	254		
	5		0.26	256		
	6		0.22	255		
	7		0.21	251		
	8		0.20	250		
B	9		0.23	250		
	10		0.23	251		
	11		0.24	253		
	12		0.21	254		
	13		0.22	253		
	14		0.22	252		
	15		0.21	252		
	16		0.19	250		

Average Angle ( ):

rev. 10/95

das1

GTI
Location G2
DAS Data
Run No. 1 PM/Metals

05/16/07	13:25:56	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.8	ppm	R	NOx	148.9	ppm	R
05/16/07	13:25:57	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	148.9	ppm	R
05/16/07	13:26:07	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	158.7	ppm	R
05/16/07	13:26:17	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	161.1	ppm	R
05/16/07	13:26:27	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	170.9	ppm	R
05/16/07	13:26:37	O2	5.13	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	188.0	ppm	R
05/16/07	13:26:47	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	188.0	ppm	R
05/16/07	13:26:57	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	170.9	ppm	R
05/16/07	13:27:07	O2	5.25	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	170.9	ppm	R
05/16/07	13:27:17	O2	5.25	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	161.1	ppm	R
05/16/07	13:27:27	O2	5.25	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	173.3	ppm	R
05/16/07	13:27:37	O2	5.25	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	170.9	ppm	R
05/16/07	13:27:47	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	180.7	ppm	R
05/16/07	13:27:57	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	185.6	ppm	R
05/16/07	13:28:07	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	180.7	ppm	R
05/16/07	13:28:17	O2	5.25	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	170.9	ppm	R
05/16/07	13:28:27	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	168.5	ppm	R
05/16/07	13:28:37	O2	4.88	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	156.3	ppm	R
05/16/07	13:28:47	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	168.5	ppm	R
05/16/07	13:28:57	O2	5.13	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	40.0	ppm	R	NOx	168.5	ppm	R
05/16/07	13:29:07	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	18.2	ppm	R	NOx	168.5	ppm	R
05/16/07	13:29:17	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	10.0	ppm	R	NOx	161.1	ppm	R
05/16/07	13:29:27	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	7.5	ppm	R	NOx	163.6	ppm	R
05/16/07	13:29:37	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	7.5	ppm	R	NOx	158.7	ppm	R
05/16/07	13:29:47	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.0	ppm	R	NOx	156.3	ppm	R
05/16/07	13:29:57	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	161.1	ppm	R
05/16/07	13:30:07	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	158.7	ppm	R
05/16/07	13:30:17	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	153.8	ppm	R
05/16/07	13:30:27	O2	5.00	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	9.9	ppm	R	NOx	151.4	ppm	R
05/16/07	13:30:37	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	151.4	ppm	R
05/16/07	13:30:47	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	153.8	ppm	R
05/16/07	13:30:57	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	26.0	ppm	R	NOx	144.0	ppm	R
05/16/07	13:31:07	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	7.8	ppm	R	NOx	141.6	ppm	R
05/16/07	13:31:17	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	134.3	ppm	R
05/16/07	13:31:27	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	136.7	ppm	R
05/16/07	13:31:37	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	26.4	ppm	R	NOx	141.6	ppm	R

05/16/07	13:31:47	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	11.8	ppm	R	NOx	144.0	ppm	R
05/16/07	13:31:57	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	5.9	ppm	R	NOx	141.6	ppm	R
05/16/07	13:32:07	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	141.6	ppm	R
05/16/07	13:32:17	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	134.3	ppm	R
05/16/07	13:32:27	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.3	ppm	R	NOx	134.3	ppm	R
05/16/07	13:32:37	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.4	ppm	R	NOx	139.2	ppm	R
05/16/07	13:32:47	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	141.6	ppm	R
05/16/07	13:32:57	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	141.6	ppm	R
05/16/07	13:33:07	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	8.4	ppm	R	NOx	146.5	ppm	R
05/16/07	13:33:17	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	29.1	ppm	R	NOx	141.6	ppm	R
05/16/07	13:33:27	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	33.8	ppm	R	NOx	127.0	ppm	R
05/16/07	13:33:37	O2	5.00	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	32.9	ppm	R	NOx	127.0	ppm	R
05/16/07	13:33:47	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	26.3	ppm	R	NOx	127.0	ppm	R
05/16/07	13:33:57	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	17.1	ppm	R	NOx	131.8	ppm	R
05/16/07	13:34:07	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	13.9	ppm	R	NOx	131.8	ppm	R
05/16/07	13:34:17	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	7.6	ppm	R	NOx	127.0	ppm	R
05/16/07	13:34:27	O2	4.76	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	12.6	ppm	R	NOx	124.5	ppm	R
05/16/07	13:34:37	O2	4.76	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	31.5	ppm	R	NOx	124.5	ppm	R
05/16/07	13:34:47	O2	4.52	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	35.3	ppm	R	NOx	122.1	ppm	R
05/16/07	13:34:57	O2	4.52	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	37.0	ppm	R	NOx	124.5	ppm	R
05/16/07	13:35:07	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	31.1	ppm	R	NOx	124.5	ppm	R
05/16/07	13:35:17	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	21.9	ppm	R	NOx	119.6	ppm	R
05/16/07	13:35:27	O2	4.64	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	31.2	ppm	R	NOx	134.3	ppm	R
05/16/07	13:35:37	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	29.7	ppm	R	NOx	122.1	ppm	R
05/16/07	13:35:47	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	30.2	ppm	R	NOx	146.5	ppm	R
05/16/07	13:35:57	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	29.6	ppm	R	NOx	136.7	ppm	R
05/16/07	13:36:07	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	20.9	ppm	R	NOx	124.5	ppm	R
05/16/07	13:36:17	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	19.4	ppm	R	NOx	124.5	ppm	R
05/16/07	13:36:27	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	17.0	ppm	R	NOx	127.0	ppm	R
05/16/07	13:36:37	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	13.3	ppm	R	NOx	131.8	ppm	R
05/16/07	13:36:47	O2	4.76	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	12.6	ppm	R	NOx	136.7	ppm	R
05/16/07	13:36:57	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	10.5	ppm	R	NOx	136.7	ppm	R
05/16/07	13:37:07	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	8.2	ppm	R	NOx	136.7	ppm	R
05/16/07	13:37:17	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	20.7	ppm	R	NOx	124.5	ppm	R
05/16/07	13:37:27	O2	5.25	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	14.9	ppm	R	NOx	119.6	ppm	R
05/16/07	13:37:37	O2	5.00	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	21.4	ppm	R	NOx	124.5	ppm	R
05/16/07	13:37:47	O2	4.76	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	26.0	ppm	R	NOx	124.5	ppm	R
05/16/07	13:37:57	O2	4.64	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	24.0	ppm	R	NOx	131.8	ppm	R
05/16/07	13:38:07	O2	4.64	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	23.7	ppm	R	NOx	122.1	ppm	R
05/16/07	13:38:17	O2	4.52	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	21.9	ppm	R	NOx	127.0	ppm	R

05/16/07	13:38:27	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	23.9	ppm	R	NOx	131.8	ppm	R
05/16/07	13:38:37	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	23.3	ppm	R	NOx	134.3	ppm	R
05/16/07	13:38:47	O2	4.88	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	20.3	ppm	R	NOx	127.0	ppm	R
05/16/07	13:38:57	O2	4.88	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	20.4	ppm	R	NOx	127.0	ppm	R
05/16/07	13:39:07	O2	4.88	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	34.9	ppm	R	NOx	122.1	ppm	R
05/16/07	13:39:17	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	33.7	ppm	R	NOx	127.0	ppm	R
05/16/07	13:39:27	O2	4.76	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	32.1	ppm	R	NOx	124.5	ppm	R
05/16/07	13:39:37	O2	4.76	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	28.6	ppm	R	NOx	124.5	ppm	R
05/16/07	13:39:47	O2	4.76	%	R	CO2	10.55	%	R	CO	34.2	ppm	R	THC	27.2	ppm	R	NOx	109.9	ppm	R
05/16/07	13:39:57	O2	4.52	%	R	CO2	10.99	%	R	CO	200.2	ppm	R	THC	25.9	ppm	R	NOx	92.8	ppm	R
05/16/07	13:40:07	O2	4.15	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	44.2	ppm	R	NOx	87.9	ppm	R
05/16/07	13:40:17	O2	3.66	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	59.8	ppm	R	NOx	87.9	ppm	R
05/16/07	13:40:27	O2	3.42	%	R	CO2	10.55	%	R	CO	200.2	ppm	R	THC	67.6	ppm	R	NOx	95.2	ppm	R
05/16/07	13:40:37	O2	3.42	%	R	CO2	10.25	%	R	CO	200.2	ppm	R	THC	68.8	ppm	R	NOx	97.7	ppm	R
05/16/07	13:40:47	O2	3.66	%	R	CO2	10.11	%	R	CO	200.2	ppm	R	THC	77.8	ppm	R	NOx	105.0	ppm	R
05/16/07	13:40:57	O2	4.03	%	R	CO2	9.81	%	R	CO	200.2	ppm	R	THC	94.0	ppm	R	NOx	102.5	ppm	R
05/16/07	13:41:07	O2	4.27	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	92.1	ppm	R	NOx	102.5	ppm	R
05/16/07	13:41:17	O2	4.27	%	R	CO2	10.11	%	R	CO	188.5	ppm	R	THC	90.8	ppm	R	NOx	97.7	ppm	R
05/16/07	13:41:27	O2	4.27	%	R	CO2	10.18	%	R	CO	103.5	ppm	R	THC	93.1	ppm	R	NOx	112.3	ppm	R
05/16/07	13:41:37	O2	4.15	%	R	CO2	10.11	%	R	CO	61.5	ppm	R	THC	87.7	ppm	R	NOx	109.9	ppm	R
05/16/07	13:41:47	O2	4.15	%	R	CO2	10.03	%	R	CO	39.1	ppm	R	THC	79.8	ppm	R	NOx	97.7	ppm	R
05/16/07	13:41:57	O2	4.15	%	R	CO2	9.74	%	R	CO	23.4	ppm	R	THC	73.5	ppm	R	NOx	97.7	ppm	R
05/16/07	13:42:07	O2	4.52	%	R	CO2	9.96	%	R	CO	13.7	ppm	R	THC	68.1	ppm	R	NOx	92.8	ppm	R
05/16/07	13:42:17	O2	4.64	%	R	CO2	10.25	%	R	CO	8.8	ppm	R	THC	62.8	ppm	R	NOx	92.8	ppm	R
05/16/07	13:42:27	O2	4.27	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	60.1	ppm	R	NOx	95.2	ppm	R
05/16/07	13:42:37	O2	4.15	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	58.0	ppm	R	NOx	95.2	ppm	R
05/16/07	13:42:47	O2	3.91	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	55.9	ppm	R	NOx	97.7	ppm	R
05/16/07	13:42:57	O2	3.91	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	52.5	ppm	R	NOx	100.1	ppm	R
05/16/07	13:43:07	O2	4.03	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	51.1	ppm	R	NOx	100.1	ppm	R
05/16/07	13:43:17	O2	4.03	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	48.8	ppm	R	NOx	95.2	ppm	R
05/16/07	13:43:27	O2	3.91	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	48.2	ppm	R	NOx	97.7	ppm	R
05/16/07	13:43:37	O2	3.91	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	45.4	ppm	R	NOx	90.3	ppm	R
05/16/07	13:43:47	O2	3.91	%	R	CO2	10.55	%	R	CO	5.9	ppm	R	THC	48.0	ppm	R	NOx	105.0	ppm	R
05/16/07	13:43:57	O2	3.91	%	R	CO2	10.69	%	R	CO	5.9	ppm	R	THC	45.2	ppm	R	NOx	90.3	ppm	R
05/16/07	13:44:07	O2	3.78	%	R	CO2	10.77	%	R	CO	5.9	ppm	R	THC	42.0	ppm	R	NOx	95.2	ppm	R
05/16/07	13:44:17	O2	3.78	%	R	CO2	10.91	%	R	CO	6.8	ppm	R	THC	40.8	ppm	R	NOx	97.7	ppm	R
05/16/07	13:44:27	O2	3.66	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	39.3	ppm	R	NOx	102.5	ppm	R
05/16/07	13:44:37	O2	3.54	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	37.1	ppm	R	NOx	90.3	ppm	R
05/16/07	13:44:47	O2	3.54	%	R	CO2	10.91	%	R	CO	7.8	ppm	R	THC	35.3	ppm	R	NOx	87.9	ppm	R
05/16/07	13:44:57	O2	3.54	%	R	CO2	10.91	%	R	CO	7.8	ppm	R	THC	34.0	ppm	R	NOx	87.9	ppm	R

05/16/07	13:45:07	O2	3.54	%	R	CO2	10.91	%	R	CO	7.8	ppm	R	THC	31.8	ppm	R	NOx	87.9	ppm	R
05/16/07	13:45:17	O2	3.42	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	30.8	ppm	R	NOx	90.3	ppm	R
05/16/07	13:45:27	O2	3.42	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	32.0	ppm	R	NOx	87.9	ppm	R
05/16/07	13:45:37	O2	3.54	%	R	CO2	10.84	%	R	CO	6.8	ppm	R	THC	32.1	ppm	R	NOx	105.0	ppm	R
05/16/07	13:45:47	O2	3.54	%	R	CO2	10.91	%	R	CO	6.8	ppm	R	THC	29.8	ppm	R	NOx	100.1	ppm	R
05/16/07	13:45:57	O2	3.54	%	R	CO2	10.91	%	R	CO	6.8	ppm	R	THC	28.6	ppm	R	NOx	100.1	ppm	R
05/16/07	13:46:07	O2	3.54	%	R	CO2	10.91	%	R	CO	7.8	ppm	R	THC	28.9	ppm	R	NOx	127.0	ppm	R
05/16/07	13:46:17	O2	3.54	%	R	CO2	11.06	%	R	CO	14.7	ppm	R	THC	36.6	ppm	R	NOx	85.5	ppm	R
05/16/07	13:46:27	O2	3.54	%	R	CO2	10.91	%	R	CO	42.0	ppm	R	THC	54.4	ppm	R	NOx	85.5	ppm	R
05/16/07	13:46:37	O2	3.42	%	R	CO2	10.55	%	R	CO	73.2	ppm	R	THC	43.6	ppm	R	NOx	100.1	ppm	R
05/16/07	13:46:47	O2	3.66	%	R	CO2	10.69	%	R	CO	80.1	ppm	R	THC	36.3	ppm	R	NOx	100.1	ppm	R
05/16/07	13:46:57	O2	3.91	%	R	CO2	10.91	%	R	CO	70.3	ppm	R	THC	32.1	ppm	R	NOx	87.9	ppm	R
05/16/07	13:47:07	O2	3.91	%	R	CO2	10.84	%	R	CO	65.4	ppm	R	THC	29.4	ppm	R	NOx	87.9	ppm	R
05/16/07	13:47:17	O2	3.66	%	R	CO2	10.99	%	R	CO	75.2	ppm	R	THC	25.5	ppm	R	NOx	85.5	ppm	R
05/16/07	13:47:27	O2	3.42	%	R	CO2	10.99	%	R	CO	103.5	ppm	R	THC	31.5	ppm	R	NOx	85.5	ppm	R
05/16/07	13:47:37	O2	3.42	%	R	CO2	11.06	%	R	CO	144.5	ppm	R	THC	40.1	ppm	R	NOx	87.9	ppm	R
05/16/07	13:47:47	O2	3.42	%	R	CO2	11.13	%	R	CO	166.0	ppm	R	THC	38.6	ppm	R	NOx	80.6	ppm	R
05/16/07	13:47:57	O2	3.30	%	R	CO2	11.13	%	R	CO	152.3	ppm	R	THC	41.0	ppm	R	NOx	75.7	ppm	R
05/16/07	13:48:07	O2	3.30	%	R	CO2	11.35	%	R	CO	125.0	ppm	R	THC	39.0	ppm	R	NOx	78.1	ppm	R
05/16/07	13:48:17	O2	3.42	%	R	CO2	11.28	%	R	CO	115.2	ppm	R	THC	38.3	ppm	R	NOx	78.1	ppm	R
05/16/07	13:48:27	O2	3.42	%	R	CO2	11.35	%	R	CO	156.3	ppm	R	THC	35.6	ppm	R	NOx	90.3	ppm	R
05/16/07	13:48:37	O2	3.42	%	R	CO2	11.43	%	R	CO	200.2	ppm	R	THC	32.0	ppm	R	NOx	75.7	ppm	R
05/16/07	13:48:47	O2	3.42	%	R	CO2	11.43	%	R	CO	200.2	ppm	R	THC	29.9	ppm	R	NOx	78.1	ppm	R
05/16/07	13:48:57	O2	3.30	%	R	CO2	11.35	%	R	CO	195.3	ppm	R	THC	29.5	ppm	R	NOx	83.0	ppm	R
05/16/07	13:49:07	O2	3.30	%	R	CO2	11.06	%	R	CO	142.6	ppm	R	THC	26.1	ppm	R	NOx	83.0	ppm	R
05/16/07	13:49:17	O2	3.42	%	R	CO2	10.84	%	R	CO	89.8	ppm	R	THC	26.1	ppm	R	NOx	83.0	ppm	R
05/16/07	13:49:27	O2	3.54	%	R	CO2	10.55	%	R	CO	52.7	ppm	R	THC	31.3	ppm	R	NOx	92.8	ppm	R
05/16/07	13:49:37	O2	3.78	%	R	CO2	10.47	%	R	CO	31.3	ppm	R	THC	29.8	ppm	R	NOx	95.2	ppm	R
05/16/07	13:49:47	O2	4.03	%	R	CO2	10.47	%	R	CO	18.6	ppm	R	THC	29.1	ppm	R	NOx	100.1	ppm	R
05/16/07	13:49:57	O2	4.03	%	R	CO2	10.55	%	R	CO	12.7	ppm	R	THC	27.9	ppm	R	NOx	122.1	ppm	R
05/16/07	13:50:07	O2	4.15	%	R	CO2	10.55	%	R	CO	9.8	ppm	R	THC	27.3	ppm	R	NOx	217.3	ppm	R
05/16/07	13:50:17	O2	4.03	%	R	CO2	10.69	%	R	CO	7.8	ppm	R	THC	25.9	ppm	R	NOx	124.5	ppm	R
05/16/07	13:50:27	O2	4.03	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	25.2	ppm	R	NOx	112.3	ppm	R
05/16/07	13:50:37	O2	3.91	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	24.4	ppm	R	NOx	87.9	ppm	R
05/16/07	13:50:47	O2	3.91	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	22.8	ppm	R	NOx	102.5	ppm	R
05/16/07	13:50:57	O2	3.91	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	22.4	ppm	R	NOx	97.7	ppm	R
05/16/07	13:51:07	O2	3.78	%	R	CO2	10.91	%	R	CO	7.8	ppm	R	THC	25.6	ppm	R	NOx	92.8	ppm	R
05/16/07	13:51:17	O2	3.78	%	R	CO2	10.84	%	R	CO	8.8	ppm	R	THC	26.6	ppm	R	NOx	102.5	ppm	R
05/16/07	13:51:27	O2	3.66	%	R	CO2	10.11	%	R	CO	10.7	ppm	R	THC	25.7	ppm	R	NOx	102.5	ppm	R
05/16/07	13:51:37	O2	3.78	%	R	CO2	10.11	%	R	CO	15.6	ppm	R	THC	24.7	ppm	R	NOx	156.3	ppm	R

05/16/07	13:51:47	O2	4.52	%	R	CO2	10.91	%	R	CO	34.2	ppm	R	THC	25.3	ppm	R	NOx	105.0	ppm	R
05/16/07	13:51:57	O2	4.52	%	R	CO2	11.21	%	R	CO	159.2	ppm	R	THC	33.1	ppm	R	NOx	87.9	ppm	R
05/16/07	13:52:07	O2	3.78	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	69.1	ppm	R	NOx	90.3	ppm	R
05/16/07	13:52:17	O2	3.54	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	89.9	ppm	R	NOx	78.1	ppm	R
05/16/07	13:52:27	O2	3.42	%	R	CO2	10.91	%	R	CO	201.2	ppm	R	THC	88.0	ppm	R	NOx	127.0	ppm	R
05/16/07	13:52:37	O2	3.54	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	96.1	ppm	R	NOx	90.3	ppm	R
05/16/07	13:52:47	O2	3.54	%	R	CO2	10.77	%	R	CO	152.3	ppm	R	THC	94.2	ppm	R	NOx	92.8	ppm	R
05/16/07	13:52:57	O2	3.78	%	R	CO2	10.77	%	R	CO	84.0	ppm	R	THC	100.0	ppm	R	NOx	83.0	ppm	R
05/16/07	13:53:07	O2	3.91	%	R	CO2	10.77	%	R	CO	45.9	ppm	R	THC	100.0	ppm	R	NOx	92.8	ppm	R
05/16/07	13:53:17	O2	3.91	%	R	CO2	10.77	%	R	CO	27.3	ppm	R	THC	93.3	ppm	R	NOx	92.8	ppm	R
05/16/07	13:53:27	O2	4.03	%	R	CO2	10.62	%	R	CO	16.6	ppm	R	THC	95.2	ppm	R	NOx	80.6	ppm	R
05/16/07	13:53:37	O2	3.91	%	R	CO2	10.69	%	R	CO	11.7	ppm	R	THC	86.9	ppm	R	NOx	85.5	ppm	R
05/16/07	13:53:47	O2	3.91	%	R	CO2	10.62	%	R	CO	10.7	ppm	R	THC	100.0	ppm	R	NOx	83.0	ppm	R
05/16/07	13:53:57	O2	3.91	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	100.0	ppm	R	NOx	87.9	ppm	R
05/16/07	13:54:07	O2	3.91	%	R	CO2	10.62	%	R	CO	8.8	ppm	R	THC	100.0	ppm	R	NOx	85.5	ppm	R
05/16/07	13:54:17	O2	3.91	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	100.0	ppm	R	NOx	85.5	ppm	R
05/16/07	13:54:27	O2	4.03	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	98.4	ppm	R	NOx	85.5	ppm	R
05/16/07	13:54:37	O2	4.03	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	92.7	ppm	R	NOx	73.2	ppm	R
05/16/07	13:54:47	O2	3.91	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	81.5	ppm	R	NOx	78.1	ppm	R
05/16/07	13:54:57	O2	4.03	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	71.7	ppm	R	NOx	80.6	ppm	R
05/16/07	13:55:07	O2	4.03	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	77.9	ppm	R	NOx	85.5	ppm	R
05/16/07	13:55:17	O2	4.15	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	10.7	ppm	R	NOx	87.9	ppm	R
05/16/07	13:55:27	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	19.1	ppm	R	NOx	87.9	ppm	R
05/16/07	13:55:37	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	11.4	ppm	R	NOx	90.3	ppm	R
05/16/07	13:55:47	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	10.9	ppm	R	NOx	83.0	ppm	R
05/16/07	13:55:57	O2	4.15	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	11.0	ppm	R	NOx	90.3	ppm	R
05/16/07	13:56:07	O2	4.27	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	11.5	ppm	R	NOx	90.3	ppm	R
05/16/07	13:56:17	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	10.9	ppm	R	NOx	90.3	ppm	R
05/16/07	13:56:27	O2	4.27	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	10.9	ppm	R	NOx	92.8	ppm	R
05/16/07	13:56:37	O2	4.15	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	8.3	ppm	R	NOx	90.3	ppm	R
05/16/07	13:56:47	O2	4.15	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	8.4	ppm	R	NOx	85.5	ppm	R
05/16/07	13:56:57	O2	4.64	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	10.1	ppm	R	NOx	92.8	ppm	R
05/16/07	13:57:07	O2	4.88	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	9.0	ppm	R	NOx	90.3	ppm	R
05/16/07	13:57:17	O2	4.27	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	9.6	ppm	R	NOx	95.2	ppm	R
05/16/07	13:57:27	O2	3.91	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	9.9	ppm	R	NOx	90.3	ppm	R
05/16/07	13:57:37	O2	3.78	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	9.1	ppm	R	NOx	92.8	ppm	R
05/16/07	13:57:47	O2	3.91	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	90.3	ppm	R
05/16/07	13:57:57	O2	4.03	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	90.3	ppm	R
05/16/07	13:58:07	O2	3.91	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	9.2	ppm	R	NOx	90.3	ppm	R
05/16/07	13:58:17	O2	3.91	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	9.4	ppm	R	NOx	102.5	ppm	R

05/16/07	13:58:27	O2	3.91	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	8.4	ppm	R	NOx	92.8	ppm	R
05/16/07	13:58:37	O2	4.03	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	9.2	ppm	R	NOx	90.3	ppm	R
05/16/07	13:58:47	O2	3.91	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	7.9	ppm	R	NOx	85.5	ppm	R
05/16/07	13:58:57	O2	3.91	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	8.3	ppm	R	NOx	85.5	ppm	R
05/16/07	13:59:07	O2	3.78	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	9.3	ppm	R	NOx	90.3	ppm	R
05/16/07	13:59:17	O2	3.54	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	9.1	ppm	R	NOx	92.8	ppm	R
05/16/07	13:59:27	O2	3.66	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	8.6	ppm	R	NOx	90.3	ppm	R
05/16/07	13:59:37	O2	3.78	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	8.8	ppm	R	NOx	90.3	ppm	R
05/16/07	13:59:47	O2	3.66	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	10.3	ppm	R	NOx	85.5	ppm	R
05/16/07	13:59:57	O2	3.78	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	10.0	ppm	R	NOx	90.3	ppm	R
05/16/07	14:00:07	O2	3.66	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	9.2	ppm	R	NOx	95.2	ppm	R
05/16/07	14:00:17	O2	3.54	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	8.2	ppm	R	NOx	97.7	ppm	R
05/16/07	14:00:27	O2	3.66	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	9.7	ppm	R	NOx	85.5	ppm	R
05/16/07	14:00:37	O2	3.66	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	8.7	ppm	R	NOx	85.5	ppm	R
05/16/07	14:00:47	O2	3.54	%	R	CO2	10.69	%	R	CO	7.8	ppm	R	THC	8.8	ppm	R	NOx	87.9	ppm	R
05/16/07	14:00:57	O2	3.42	%	R	CO2	10.62	%	R	CO	7.8	ppm	R	THC	7.8	ppm	R	NOx	85.5	ppm	R
05/16/07	14:01:07	O2	3.42	%	R	CO2	10.62	%	R	CO	7.8	ppm	R	THC	7.4	ppm	R	NOx	87.9	ppm	R
05/16/07	14:01:17	O2	3.54	%	R	CO2	10.55	%	R	CO	7.8	ppm	R	THC	7.4	ppm	R	NOx	92.8	ppm	R
05/16/07	14:01:27	O2	3.54	%	R	CO2	10.55	%	R	CO	7.8	ppm	R	THC	8.7	ppm	R	NOx	95.2	ppm	R
05/16/07	14:01:37	O2	3.54	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	8.1	ppm	R	NOx	90.3	ppm	R
05/16/07	14:01:47	O2	3.66	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	8.7	ppm	R	NOx	105.0	ppm	R
05/16/07	14:01:57	O2	3.42	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	7.6	ppm	R	NOx	90.3	ppm	R
05/16/07	14:02:07	O2	3.91	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	6.2	ppm	R	NOx	87.9	ppm	R
05/16/07	14:02:17	O2	4.39	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	5.2	ppm	R	NOx	87.9	ppm	R
05/16/07	14:02:27	O2	4.03	%	R	CO2	10.47	%	R	CO	12.7	ppm	R	THC	4.9	ppm	R	NOx	87.9	ppm	R
05/16/07	14:02:37	O2	3.66	%	R	CO2	10.47	%	R	CO	17.6	ppm	R	THC	4.2	ppm	R	NOx	83.0	ppm	R
05/16/07	14:02:47	O2	3.66	%	R	CO2	10.40	%	R	CO	18.6	ppm	R	THC	4.0	ppm	R	NOx	85.5	ppm	R
05/16/07	14:02:57	O2	3.54	%	R	CO2	10.40	%	R	CO	15.6	ppm	R	THC	4.3	ppm	R	NOx	95.2	ppm	R
05/16/07	14:03:07	O2	3.66	%	R	CO2	10.33	%	R	CO	12.7	ppm	R	THC	3.6	ppm	R	NOx	92.8	ppm	R
05/16/07	14:03:17	O2	3.66	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	4.7	ppm	R	NOx	95.2	ppm	R
05/16/07	14:03:27	O2	3.66	%	R	CO2	10.33	%	R	CO	8.8	ppm	R	THC	5.5	ppm	R	NOx	97.7	ppm	R
05/16/07	14:03:37	O2	3.78	%	R	CO2	10.25	%	R	CO	7.8	ppm	R	THC	12.1	ppm	R	NOx	102.5	ppm	R
05/16/07	14:03:47	O2	3.66	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	16.1	ppm	R	NOx	107.4	ppm	R
05/16/07	14:03:57	O2	3.66	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	17.2	ppm	R	NOx	102.5	ppm	R
05/16/07	14:04:07	O2	3.54	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	17.7	ppm	R	NOx	107.4	ppm	R
05/16/07	14:04:17	O2	3.54	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	16.9	ppm	R	NOx	109.9	ppm	R
05/16/07	14:04:27	O2	3.66	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	15.9	ppm	R	NOx	112.3	ppm	R
05/16/07	14:04:37	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	13.9	ppm	R	NOx	97.7	ppm	R
05/16/07	14:04:47	O2	3.78	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	12.8	ppm	R	NOx	105.0	ppm	R
05/16/07	14:04:57	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	9.9	ppm	R	NOx	112.3	ppm	R

05/16/07	14:05:07	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	10.2	ppm	R	NOx	105.0	ppm	R
05/16/07	14:05:17	O2	3.78	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	8.2	ppm	R	NOx	117.2	ppm	R
05/16/07	14:05:27	O2	3.78	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	8.1	ppm	R	NOx	119.6	ppm	R
05/16/07	14:05:37	O2	3.78	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:05:47	O2	3.78	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	7.3	ppm	R	NOx	100.1	ppm	R
05/16/07	14:05:57	O2	3.91	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	5.7	ppm	R	NOx	107.4	ppm	R
05/16/07	14:06:07	O2	3.91	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	134.3	ppm	R
05/16/07	14:06:17	O2	3.91	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	117.2	ppm	R
05/16/07	14:06:27	O2	3.91	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	117.2	ppm	R
05/16/07	14:06:37	O2	3.91	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	119.6	ppm	R
05/16/07	14:06:47	O2	4.03	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	136.7	ppm	R
05/16/07	14:06:57	O2	4.15	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	119.6	ppm	R
05/16/07	14:07:07	O2	4.15	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	124.5	ppm	R
05/16/07	14:07:17	O2	4.15	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	122.1	ppm	R
05/16/07	14:07:27	O2	4.15	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	107.4	ppm	R
05/16/07	14:07:37	O2	4.15	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	136.7	ppm	R
05/16/07	14:07:47	O2	4.15	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	112.3	ppm	R
05/16/07	14:07:57	O2	4.15	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	131.8	ppm	R
05/16/07	14:08:07	O2	4.15	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	146.5	ppm	R
05/16/07	14:08:17	O2	4.15	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	114.8	ppm	R
05/16/07	14:08:27	O2	4.15	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	122.1	ppm	R
05/16/07	14:08:37	O2	4.15	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	148.9	ppm	R
05/16/07	14:08:47	O2	4.15	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	166.0	ppm	R
05/16/07	14:08:57	O2	4.27	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	139.2	ppm	R
05/16/07	14:09:07	O2	4.27	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	129.4	ppm	R
05/16/07	14:09:17	O2	4.27	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	136.7	ppm	R
05/16/07	14:09:27	O2	4.39	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	185.6	ppm	R
05/16/07	14:09:37	O2	4.27	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	119.6	ppm	R
05/16/07	14:09:47	O2	4.15	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	119.6	ppm	R
05/16/07	14:09:57	O2	4.15	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	129.4	ppm	R
05/16/07	14:10:07	O2	4.15	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	117.2	ppm	R
05/16/07	14:10:17	O2	4.15	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	119.6	ppm	R
05/16/07	14:10:27	O2	4.15	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	117.2	ppm	R
05/16/07	14:10:37	O2	4.15	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	119.6	ppm	R
05/16/07	14:10:47	O2	4.15	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	122.1	ppm	R
05/16/07	14:10:57	O2	4.15	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	117.2	ppm	R
05/16/07	14:11:07	O2	4.15	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	117.2	ppm	R
05/16/07	14:11:17	O2	3.91	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	117.2	ppm	R
05/16/07	14:11:27	O2	4.03	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:11:37	O2	4.03	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R

05/16/07	14:11:47	O2	4.15	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:11:57	O2	4.27	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	112.3	ppm	R
05/16/07	14:12:07	O2	4.27	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:12:17	O2	4.27	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	14:12:27	O2	4.27	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:12:37	O2	4.27	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	14:12:47	O2	4.15	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	14:12:57	O2	4.27	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/16/07	14:13:07	O2	4.88	%	R	CO2	8.50	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/16/07	14:13:17	O2	5.86	%	R	CO2	8.50	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	87.9	ppm	R
05/16/07	14:13:27	O2	6.35	%	R	CO2	8.64	%	R	CO	8.8	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	14:13:37	O2	6.47	%	R	CO2	8.72	%	R	CO	20.5	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	14:13:47	O2	6.35	%	R	CO2	8.72	%	R	CO	31.3	ppm	R	THC	0.2	ppm	R	NOx	87.9	ppm	R
05/16/07	14:13:57	O2	6.35	%	R	CO2	8.64	%	R	CO	33.2	ppm	R	THC	1.7	ppm	R	NOx	105.0	ppm	R
05/16/07	14:14:07	O2	6.35	%	R	CO2	8.72	%	R	CO	27.3	ppm	R	THC	1.2	ppm	R	NOx	90.3	ppm	R
05/16/07	14:14:17	O2	6.23	%	R	CO2	8.72	%	R	CO	19.5	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	14:14:27	O2	6.23	%	R	CO2	8.64	%	R	CO	13.7	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	14:14:37	O2	6.35	%	R	CO2	8.64	%	R	CO	10.7	ppm	R	THC	0.5	ppm	R	NOx	90.3	ppm	R
05/16/07	14:14:47	O2	6.35	%	R	CO2	8.72	%	R	CO	8.8	ppm	R	THC	0.4	ppm	R	NOx	92.8	ppm	R
05/16/07	14:14:57	O2	6.23	%	R	CO2	8.79	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	90.3	ppm	R
05/16/07	14:15:07	O2	6.35	%	R	CO2	8.72	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	90.3	ppm	R
05/16/07	14:15:17	O2	6.47	%	R	CO2	8.72	%	R	CO	6.8	ppm	R	THC	0.7	ppm	R	NOx	105.0	ppm	R
05/16/07	14:15:27	O2	6.47	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	119.6	ppm	R
05/16/07	14:15:37	O2	6.59	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/16/07	14:15:47	O2	5.62	%	R	CO2	10.62	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:15:57	O2	4.52	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	14:16:07	O2	4.15	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/16/07	14:16:17	O2	4.39	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/16/07	14:16:27	O2	4.76	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	146.5	ppm	R
05/16/07	14:16:37	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.6	ppm	R	NOx	173.3	ppm	R
05/16/07	14:16:47	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	136.7	ppm	R
05/16/07	14:16:57	O2	5.62	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/16/07	14:17:07	O2	5.49	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/16/07	14:17:17	O2	5.62	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.4	ppm	R	NOx	122.1	ppm	R
05/16/07	14:17:27	O2	5.37	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.5	ppm	R	NOx	124.5	ppm	R
05/16/07	14:17:37	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.1	ppm	R	NOx	131.8	ppm	R
05/16/07	14:17:47	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	144.0	ppm	R
05/16/07	14:17:57	O2	5.49	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	2.4	ppm	R	NOx	124.5	ppm	R
05/16/07	14:18:07	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.7	ppm	R	NOx	131.8	ppm	R
05/16/07	14:18:17	O2	5.74	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.2	ppm	R	NOx	124.5	ppm	R

05/16/07	14:18:27	O2	5.74	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	3.6	ppm	R	NOx	134.3	ppm	R
05/16/07	14:18:37	O2	5.49	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.9	ppm	R	NOx	129.4	ppm	R
05/16/07	14:18:47	O2	5.49	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.3	ppm	R	NOx	127.0	ppm	R
05/16/07	14:18:57	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	136.7	ppm	R
05/16/07	14:19:07	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.9	ppm	R	NOx	131.8	ppm	R
05/16/07	14:19:17	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.7	ppm	R	NOx	136.7	ppm	R
05/16/07	14:19:27	O2	5.37	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	0.4	ppm	R	NOx	119.6	ppm	R
05/16/07	14:19:37	O2	5.37	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/16/07	14:19:47	O2	5.25	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:19:57	O2	5.00	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	109.9	ppm	R
05/16/07	14:20:07	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	112.3	ppm	R
05/16/07	14:20:17	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:20:27	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:20:37	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:20:47	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	107.4	ppm	R
05/16/07	14:20:57	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	-0.0	ppm	R	NOx	105.0	ppm	R
05/16/07	14:21:07	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/16/07	14:21:17	O2	4.88	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/16/07	14:21:27	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:21:37	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	109.9	ppm	R
05/16/07	14:21:47	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	109.9	ppm	R
05/16/07	14:21:57	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/16/07	14:22:07	O2	4.76	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/16/07	14:22:17	O2	4.64	%	R	CO2	10.69	%	R	CO	64.5	ppm	R	THC	0.7	ppm	R	NOx	95.2	ppm	R
05/16/07	14:22:27	O2	4.27	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	85.5	ppm	R
05/16/07	14:22:37	O2	3.91	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/16/07	14:22:47	O2	3.54	%	R	CO2	10.69	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	85.5	ppm	R
05/16/07	14:22:57	O2	3.30	%	R	CO2	10.77	%	R	CO	200.2	ppm	R	THC	0.2	ppm	R	NOx	73.2	ppm	R
05/16/07	14:23:07	O2	3.42	%	R	CO2	10.18	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:23:17	O2	3.66	%	R	CO2	9.96	%	R	CO	200.2	ppm	R	THC	0.9	ppm	R	NOx	68.4	ppm	R
05/16/07	14:23:27	O2	4.27	%	R	CO2	10.33	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	78.1	ppm	R
05/16/07	14:23:37	O2	3.91	%	R	CO2	10.18	%	R	CO	200.2	ppm	R	THC	-0.0	ppm	R	NOx	87.9	ppm	R
05/16/07	14:23:47	O2	3.66	%	R	CO2	10.18	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	90.3	ppm	R
05/16/07	14:23:57	O2	3.78	%	R	CO2	10.40	%	R	CO	200.2	ppm	R	THC	0.9	ppm	R	NOx	85.5	ppm	R
05/16/07	14:24:07	O2	3.78	%	R	CO2	10.62	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	83.0	ppm	R
05/16/07	14:24:17	O2	3.78	%	R	CO2	10.69	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	78.1	ppm	R
05/16/07	14:24:27	O2	3.54	%	R	CO2	10.55	%	R	CO	200.2	ppm	R	THC	0.2	ppm	R	NOx	75.7	ppm	R
05/16/07	14:24:37	O2	3.54	%	R	CO2	9.52	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:24:47	O2	3.91	%	R	CO2	9.01	%	R	CO	132.8	ppm	R	THC	0.0	ppm	R	NOx	70.8	ppm	R
05/16/07	14:24:57	O2	5.25	%	R	CO2	10.03	%	R	CO	129.9	ppm	R	THC	0.0	ppm	R	NOx	65.9	ppm	R

05/16/07	14:25:07	O2	5.37	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:25:17	O2	4.15	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:25:27	O2	3.42	%	R	CO2	10.77	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	63.5	ppm	R
05/16/07	14:25:37	O2	3.42	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	0.4	ppm	R	NOx	68.4	ppm	R
05/16/07	14:25:47	O2	3.42	%	R	CO2	10.99	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	80.6	ppm	R
05/16/07	14:25:57	O2	3.42	%	R	CO2	10.99	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	68.4	ppm	R
05/16/07	14:26:07	O2	3.30	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	73.2	ppm	R
05/16/07	14:26:17	O2	3.30	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	1.0	ppm	R	NOx	83.0	ppm	R
05/16/07	14:26:27	O2	3.17	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:26:37	O2	3.30	%	R	CO2	11.13	%	R	CO	146.5	ppm	R	THC	0.2	ppm	R	NOx	65.9	ppm	R
05/16/07	14:26:47	O2	3.17	%	R	CO2	11.13	%	R	CO	122.1	ppm	R	THC	0.0	ppm	R	NOx	70.8	ppm	R
05/16/07	14:26:57	O2	3.17	%	R	CO2	11.06	%	R	CO	169.9	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:27:07	O2	3.17	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	0.2	ppm	R	NOx	70.8	ppm	R
05/16/07	14:27:17	O2	3.17	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:27:27	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	68.4	ppm	R
05/16/07	14:27:37	O2	3.05	%	R	CO2	11.35	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	58.6	ppm	R
05/16/07	14:27:47	O2	3.05	%	R	CO2	11.28	%	R	CO	200.2	ppm	R	THC	0.9	ppm	R	NOx	61.0	ppm	R
05/16/07	14:27:57	O2	2.93	%	R	CO2	11.35	%	R	CO	200.2	ppm	R	THC	-0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:28:07	O2	2.93	%	R	CO2	11.35	%	R	CO	200.2	ppm	R	THC	0.2	ppm	R	NOx	58.6	ppm	R
05/16/07	14:28:17	O2	3.05	%	R	CO2	11.28	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:28:27	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	61.0	ppm	R
05/16/07	14:28:37	O2	3.05	%	R	CO2	11.28	%	R	CO	200.2	ppm	R	THC	1.8	ppm	R	NOx	65.9	ppm	R
05/16/07	14:28:47	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.9	ppm	R	NOx	68.4	ppm	R
05/16/07	14:28:57	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	73.2	ppm	R
05/16/07	14:29:07	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	65.9	ppm	R
05/16/07	14:29:17	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.7	ppm	R	NOx	68.4	ppm	R
05/16/07	14:29:27	O2	2.93	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	0.8	ppm	R	NOx	63.5	ppm	R
05/16/07	14:29:37	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.2	ppm	R	NOx	61.0	ppm	R
05/16/07	14:29:47	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	63.5	ppm	R
05/16/07	14:29:57	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.4	ppm	R	NOx	63.5	ppm	R
05/16/07	14:30:07	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	65.9	ppm	R
05/16/07	14:30:17	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	65.9	ppm	R
05/16/07	14:30:27	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	68.4	ppm	R
05/16/07	14:30:37	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.8	ppm	R	NOx	61.0	ppm	R
05/16/07	14:30:47	O2	3.05	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	0.4	ppm	R	NOx	61.0	ppm	R
05/16/07	14:30:57	O2	3.17	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	0.7	ppm	R	NOx	68.4	ppm	R
05/16/07	14:31:07	O2	3.05	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	75.7	ppm	R
05/16/07	14:31:17	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	2.1	ppm	R	NOx	63.5	ppm	R
05/16/07	14:31:27	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.8	ppm	R	NOx	65.9	ppm	R
05/16/07	14:31:37	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.8	ppm	R	NOx	68.4	ppm	R

05/16/07	14:31:47	O2	2.93	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	0.2	ppm	R	NOx	63.5	ppm	R
05/16/07	14:31:57	O2	2.93	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	65.9	ppm	R
05/16/07	14:32:07	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	2.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:32:17	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	65.9	ppm	R
05/16/07	14:32:27	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	0.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:32:37	O2	3.05	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:32:47	O2	2.93	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:32:57	O2	2.93	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.2	ppm	R	NOx	63.5	ppm	R
05/16/07	14:33:07	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.2	ppm	R	NOx	63.5	ppm	R
05/16/07	14:33:17	O2	2.93	%	R	CO2	10.99	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:33:27	O2	3.05	%	R	CO2	10.84	%	R	CO	200.2	ppm	R	THC	1.8	ppm	R	NOx	73.2	ppm	R
05/16/07	14:33:37	O2	3.30	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	0.6	ppm	R	NOx	73.2	ppm	R
05/16/07	14:33:47	O2	3.30	%	R	CO2	10.91	%	R	CO	200.2	ppm	R	THC	0.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:33:57	O2	3.30	%	R	CO2	11.06	%	R	CO	200.2	ppm	R	THC	0.8	ppm	R	NOx	70.8	ppm	R
05/16/07	14:34:07	O2	3.42	%	R	CO2	10.99	%	R	CO	150.4	ppm	R	THC	1.7	ppm	R	NOx	68.4	ppm	R
05/16/07	14:34:17	O2	3.42	%	R	CO2	11.06	%	R	CO	135.7	ppm	R	THC	1.7	ppm	R	NOx	65.9	ppm	R
05/16/07	14:34:27	O2	3.30	%	R	CO2	11.13	%	R	CO	123.1	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:34:37	O2	3.42	%	R	CO2	11.13	%	R	CO	130.9	ppm	R	THC	0.2	ppm	R	NOx	58.6	ppm	R
05/16/07	14:34:47	O2	3.30	%	R	CO2	11.21	%	R	CO	159.2	ppm	R	THC	-0.2	ppm	R	NOx	63.5	ppm	R
05/16/07	14:34:57	O2	3.17	%	R	CO2	11.21	%	R	CO	181.6	ppm	R	THC	0.7	ppm	R	NOx	65.9	ppm	R
05/16/07	14:35:07	O2	3.17	%	R	CO2	11.28	%	R	CO	190.4	ppm	R	THC	0.0	ppm	R	NOx	70.8	ppm	R
05/16/07	14:35:17	O2	3.05	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	0.1	ppm	R	NOx	68.4	ppm	R
05/16/07	14:35:27	O2	3.17	%	R	CO2	11.13	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	63.5	ppm	R
05/16/07	14:35:37	O2	3.17	%	R	CO2	11.21	%	R	CO	200.2	ppm	R	THC	1.4	ppm	R	NOx	70.8	ppm	R
05/16/07	14:35:47	O2	3.17	%	R	CO2	11.21	%	R	CO	181.6	ppm	R	THC	1.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:35:57	O2	3.17	%	R	CO2	11.21	%	R	CO	147.5	ppm	R	THC	0.1	ppm	R	NOx	63.5	ppm	R
05/16/07	14:36:07	O2	3.17	%	R	CO2	11.21	%	R	CO	118.2	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:36:17	O2	3.17	%	R	CO2	11.21	%	R	CO	93.8	ppm	R	THC	1.6	ppm	R	NOx	68.4	ppm	R
05/16/07	14:36:27	O2	3.17	%	R	CO2	11.06	%	R	CO	71.3	ppm	R	THC	0.4	ppm	R	NOx	63.5	ppm	R
05/16/07	14:36:37	O2	3.17	%	R	CO2	11.06	%	R	CO	51.8	ppm	R	THC	1.6	ppm	R	NOx	68.4	ppm	R
05/16/07	14:36:47	O2	3.30	%	R	CO2	10.99	%	R	CO	36.1	ppm	R	THC	1.1	ppm	R	NOx	65.9	ppm	R
05/16/07	14:36:57	O2	3.42	%	R	CO2	10.91	%	R	CO	25.4	ppm	R	THC	0.8	ppm	R	NOx	65.9	ppm	R
05/16/07	14:37:07	O2	3.42	%	R	CO2	10.84	%	R	CO	17.6	ppm	R	THC	0.0	ppm	R	NOx	68.4	ppm	R
05/16/07	14:37:17	O2	3.54	%	R	CO2	10.91	%	R	CO	15.6	ppm	R	THC	0.0	ppm	R	NOx	63.5	ppm	R
05/16/07	14:37:27	O2	3.42	%	R	CO2	10.91	%	R	CO	23.4	ppm	R	THC	0.2	ppm	R	NOx	63.5	ppm	R
05/16/07	14:37:37	O2	3.30	%	R	CO2	10.84	%	R	CO	36.1	ppm	R	THC	1.0	ppm	R	NOx	65.9	ppm	R
05/16/07	14:37:47	O2	3.30	%	R	CO2	10.69	%	R	CO	42.0	ppm	R	THC	1.2	ppm	R	NOx	68.4	ppm	R
05/16/07	14:37:57	O2	3.42	%	R	CO2	10.62	%	R	CO	36.1	ppm	R	THC	1.3	ppm	R	NOx	70.8	ppm	R
05/16/07	14:38:07	O2	3.42	%	R	CO2	10.62	%	R	CO	27.3	ppm	R	THC	1.3	ppm	R	NOx	63.5	ppm	R
05/16/07	14:38:17	O2	3.42	%	R	CO2	10.55	%	R	CO	19.5	ppm	R	THC	0.1	ppm	R	NOx	65.9	ppm	R

05/16/07	14:38:27	O2	3.54	%	R	CO2	10.47	%	R	CO	14.7	ppm	R	THC	0.7	ppm	R	NOx	68.4	ppm	R
05/16/07	14:38:37	O2	3.54	%	R	CO2	10.47	%	R	CO	11.7	ppm	R	THC	0.5	ppm	R	NOx	75.7	ppm	R
05/16/07	14:38:47	O2	3.66	%	R	CO2	10.55	%	R	CO	10.7	ppm	R	THC	1.6	ppm	R	NOx	73.2	ppm	R
05/16/07	14:38:57	O2	3.54	%	R	CO2	10.47	%	R	CO	9.8	ppm	R	THC	0.9	ppm	R	NOx	73.2	ppm	R
05/16/07	14:39:07	O2	3.54	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	0.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:39:17	O2	3.54	%	R	CO2	10.25	%	R	CO	9.8	ppm	R	THC	0.1	ppm	R	NOx	65.9	ppm	R
05/16/07	14:39:27	O2	3.54	%	R	CO2	10.25	%	R	CO	8.8	ppm	R	THC	1.5	ppm	R	NOx	70.8	ppm	R
05/16/07	14:39:37	O2	3.66	%	R	CO2	10.33	%	R	CO	8.8	ppm	R	THC	1.0	ppm	R	NOx	70.8	ppm	R
05/16/07	14:39:47	O2	3.66	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	83.0	ppm	R
05/16/07	14:39:57	O2	3.66	%	R	CO2	10.25	%	R	CO	7.8	ppm	R	THC	0.1	ppm	R	NOx	70.8	ppm	R
05/16/07	14:40:07	O2	3.78	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	1.8	ppm	R	NOx	80.6	ppm	R
05/16/07	14:40:17	O2	3.66	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.4	ppm	R	NOx	73.2	ppm	R
05/16/07	14:40:27	O2	3.66	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	78.1	ppm	R
05/16/07	14:40:37	O2	3.66	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	1.0	ppm	R	NOx	80.6	ppm	R
05/16/07	14:40:47	O2	3.66	%	R	CO2	10.25	%	R	CO	7.8	ppm	R	THC	0.6	ppm	R	NOx	75.7	ppm	R
05/16/07	14:40:57	O2	3.66	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	78.1	ppm	R
05/16/07	14:41:07	O2	3.78	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	0.0	ppm	R	NOx	90.3	ppm	R
05/16/07	14:41:17	O2	3.78	%	R	CO2	10.11	%	R	CO	8.8	ppm	R	THC	1.2	ppm	R	NOx	90.3	ppm	R
05/16/07	14:41:27	O2	3.78	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	80.6	ppm	R
05/16/07	14:41:37	O2	3.78	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	87.9	ppm	R
05/16/07	14:41:47	O2	3.78	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	83.0	ppm	R
05/16/07	14:41:57	O2	3.66	%	R	CO2	10.03	%	R	CO	7.8	ppm	R	THC	0.1	ppm	R	NOx	85.5	ppm	R
05/16/07	14:42:07	O2	3.66	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	0.6	ppm	R	NOx	78.1	ppm	R
05/16/07	14:42:17	O2	3.66	%	R	CO2	10.03	%	R	CO	7.8	ppm	R	THC	1.4	ppm	R	NOx	78.1	ppm	R
05/16/07	14:42:27	O2	3.66	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	1.5	ppm	R	NOx	85.5	ppm	R
05/16/07	14:42:37	O2	3.66	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	1.3	ppm	R	NOx	85.5	ppm	R
05/16/07	14:42:47	O2	3.54	%	R	CO2	10.11	%	R	CO	8.8	ppm	R	THC	1.5	ppm	R	NOx	83.0	ppm	R
05/16/07	14:42:57	O2	3.54	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	1.5	ppm	R	NOx	85.5	ppm	R
05/16/07	14:43:07	O2	3.66	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	0.9	ppm	R	NOx	83.0	ppm	R
05/16/07	14:43:17	O2	3.66	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	1.4	ppm	R	NOx	90.3	ppm	R
05/16/07	14:43:27	O2	3.66	%	R	CO2	9.89	%	R	CO	7.8	ppm	R	THC	1.6	ppm	R	NOx	90.3	ppm	R
05/16/07	14:43:37	O2	3.78	%	R	CO2	9.89	%	R	CO	7.8	ppm	R	THC	1.6	ppm	R	NOx	95.2	ppm	R
05/16/07	14:43:47	O2	3.78	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	102.5	ppm	R
05/16/07	14:43:57	O2	3.78	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	100.1	ppm	R
05/16/07	14:44:07	O2	3.78	%	R	CO2	10.03	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	87.9	ppm	R
05/16/07	14:44:17	O2	3.66	%	R	CO2	9.89	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	90.3	ppm	R
05/16/07	14:44:27	O2	3.66	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	1.4	ppm	R	NOx	92.8	ppm	R
05/16/07	14:44:37	O2	3.66	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	1.5	ppm	R	NOx	87.9	ppm	R
05/16/07	14:44:47	O2	3.66	%	R	CO2	9.89	%	R	CO	7.8	ppm	R	THC	0.8	ppm	R	NOx	112.3	ppm	R
05/16/07	14:44:57	O2	3.78	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	1.6	ppm	R	NOx	95.2	ppm	R

05/16/07	14:45:07	O2	3.78	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	95.2	ppm	R
05/16/07	14:45:17	O2	3.78	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	95.2	ppm	R
05/16/07	14:45:27	O2	3.66	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	0.7	ppm	R	NOx	100.1	ppm	R
05/16/07	14:45:37	O2	3.78	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	95.2	ppm	R
05/16/07	14:45:47	O2	3.91	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	1.3	ppm	R	NOx	97.7	ppm	R
05/16/07	14:45:57	O2	3.91	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	0.9	ppm	R	NOx	100.1	ppm	R
05/16/07	14:46:07	O2	4.03	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	1.5	ppm	R	NOx	105.0	ppm	R
05/16/07	14:46:17	O2	4.03	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	109.9	ppm	R
05/16/07	14:46:27	O2	4.03	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	112.3	ppm	R
05/16/07	14:46:37	O2	4.03	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	109.9	ppm	R
05/16/07	14:46:47	O2	3.91	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.6	ppm	R	NOx	105.0	ppm	R
05/16/07	14:46:57	O2	3.91	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	105.0	ppm	R
05/16/07	14:47:07	O2	4.03	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/16/07	14:47:17	O2	4.03	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:47:27	O2	4.03	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	109.9	ppm	R
05/16/07	14:47:37	O2	4.03	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.8	ppm	R	NOx	107.4	ppm	R
05/16/07	14:47:47	O2	3.91	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	1.5	ppm	R	NOx	112.3	ppm	R
05/16/07	14:47:57	O2	4.03	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.2	ppm	R	NOx	114.8	ppm	R
05/16/07	14:48:07	O2	4.15	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:48:17	O2	4.15	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	127.0	ppm	R
05/16/07	14:48:27	O2	4.27	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	122.1	ppm	R
05/16/07	14:48:37	O2	4.39	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	129.4	ppm	R
05/16/07	14:48:47	O2	4.39	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	141.6	ppm	R
05/16/07	14:48:57	O2	4.39	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.5	ppm	R	NOx	131.8	ppm	R
05/16/07	14:49:07	O2	4.15	%	R	CO2	10.03	%	R	CO	18.6	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	14:49:17	O2	4.03	%	R	CO2	10.25	%	R	CO	155.3	ppm	R	THC	0.3	ppm	R	NOx	105.0	ppm	R
05/16/07	14:49:27	O2	3.66	%	R	CO2	10.33	%	R	CO	200.2	ppm	R	THC	0.5	ppm	R	NOx	90.3	ppm	R
05/16/07	14:49:37	O2	3.54	%	R	CO2	10.18	%	R	CO	200.2	ppm	R	THC	1.6	ppm	R	NOx	90.3	ppm	R
05/16/07	14:49:47	O2	3.30	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	14:49:57	O2	3.17	%	R	CO2	9.74	%	R	CO	200.2	ppm	R	THC	1.5	ppm	R	NOx	97.7	ppm	R
05/16/07	14:50:07	O2	3.30	%	R	CO2	9.59	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	109.9	ppm	R
05/16/07	14:50:17	O2	3.42	%	R	CO2	9.74	%	R	CO	200.2	ppm	R	THC	0.1	ppm	R	NOx	102.5	ppm	R
05/16/07	14:50:27	O2	3.54	%	R	CO2	9.89	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/16/07	14:50:37	O2	3.66	%	R	CO2	9.96	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/16/07	14:50:47	O2	3.42	%	R	CO2	9.81	%	R	CO	200.2	ppm	R	THC	0.3	ppm	R	NOx	117.2	ppm	R
05/16/07	14:50:57	O2	3.54	%	R	CO2	9.52	%	R	CO	200.2	ppm	R	THC	1.4	ppm	R	NOx	127.0	ppm	R
05/16/07	14:51:07	O2	3.54	%	R	CO2	9.37	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	127.0	ppm	R
05/16/07	14:51:17	O2	3.91	%	R	CO2	9.37	%	R	CO	120.1	ppm	R	THC	1.4	ppm	R	NOx	122.1	ppm	R
05/16/07	14:51:27	O2	4.03	%	R	CO2	9.52	%	R	CO	67.4	ppm	R	THC	1.3	ppm	R	NOx	131.8	ppm	R
05/16/07	14:51:37	O2	4.03	%	R	CO2	9.96	%	R	CO	75.2	ppm	R	THC	1.2	ppm	R	NOx	119.6	ppm	R

05/16/07	14:51:47	O2	3.91	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	0.9	ppm	R	NOx	102.5	ppm	R
05/16/07	14:51:57	O2	3.78	%	R	CO2	10.11	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	95.2	ppm	R
05/16/07	14:52:07	O2	3.54	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	1.4	ppm	R	NOx	95.2	ppm	R
05/16/07	14:52:17	O2	3.30	%	R	CO2	9.81	%	R	CO	200.2	ppm	R	THC	1.1	ppm	R	NOx	105.0	ppm	R
05/16/07	14:52:27	O2	3.30	%	R	CO2	9.59	%	R	CO	200.2	ppm	R	THC	-0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:52:37	O2	3.42	%	R	CO2	9.37	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:52:47	O2	3.78	%	R	CO2	9.45	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/16/07	14:52:57	O2	3.91	%	R	CO2	9.67	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/16/07	14:53:07	O2	4.03	%	R	CO2	9.89	%	R	CO	200.2	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	14:53:17	O2	3.91	%	R	CO2	9.89	%	R	CO	156.3	ppm	R	THC	1.4	ppm	R	NOx	114.8	ppm	R
05/16/07	14:53:27	O2	3.66	%	R	CO2	9.59	%	R	CO	110.4	ppm	R	THC	1.6	ppm	R	NOx	131.8	ppm	R
05/16/07	14:53:37	O2	3.78	%	R	CO2	9.45	%	R	CO	77.2	ppm	R	THC	1.4	ppm	R	NOx	129.4	ppm	R
05/16/07	14:53:47	O2	4.03	%	R	CO2	9.45	%	R	CO	47.9	ppm	R	THC	1.5	ppm	R	NOx	129.4	ppm	R
05/16/07	14:53:58	O2	4.15	%	R	CO2	9.59	%	R	CO	29.3	ppm	R	THC	1.6	ppm	R	NOx	131.8	ppm	R
05/16/07	14:54:07	O2	4.27	%	R	CO2	9.81	%	R	CO	28.3	ppm	R	THC	0.4	ppm	R	NOx	112.3	ppm	R
05/16/07	14:54:17	O2	4.15	%	R	CO2	10.03	%	R	CO	126.0	ppm	R	THC	0.5	ppm	R	NOx	105.0	ppm	R
05/16/07	14:54:27	O2	3.91	%	R	CO2	10.11	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	107.4	ppm	R
05/16/07	14:54:37	O2	3.66	%	R	CO2	10.18	%	R	CO	200.2	ppm	R	THC	1.5	ppm	R	NOx	102.5	ppm	R
05/16/07	14:54:47	O2	3.42	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	1.3	ppm	R	NOx	109.9	ppm	R
05/16/07	14:54:57	O2	3.30	%	R	CO2	9.74	%	R	CO	200.2	ppm	R	THC	1.0	ppm	R	NOx	124.5	ppm	R
05/16/07	14:55:07	O2	3.30	%	R	CO2	9.45	%	R	CO	200.2	ppm	R	THC	-0.0	ppm	R	NOx	122.1	ppm	R
05/16/07	14:55:17	O2	3.66	%	R	CO2	9.52	%	R	CO	200.2	ppm	R	THC	0.3	ppm	R	NOx	122.1	ppm	R
05/16/07	14:55:27	O2	3.91	%	R	CO2	9.67	%	R	CO	151.4	ppm	R	THC	0.3	ppm	R	NOx	117.2	ppm	R
05/16/07	14:55:37	O2	3.91	%	R	CO2	9.81	%	R	CO	82.0	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/16/07	14:55:47	O2	3.91	%	R	CO2	9.67	%	R	CO	44.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/16/07	14:55:57	O2	3.66	%	R	CO2	9.52	%	R	CO	27.3	ppm	R	THC	0.6	ppm	R	NOx	134.3	ppm	R
05/16/07	14:56:07	O2	3.78	%	R	CO2	9.37	%	R	CO	16.6	ppm	R	THC	0.9	ppm	R	NOx	136.7	ppm	R
05/16/07	14:56:17	O2	3.91	%	R	CO2	9.45	%	R	CO	11.7	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/16/07	14:56:27	O2	4.03	%	R	CO2	9.45	%	R	CO	8.8	ppm	R	THC	0.1	ppm	R	NOx	127.0	ppm	R
05/16/07	14:56:37	O2	4.03	%	R	CO2	9.67	%	R	CO	7.8	ppm	R	THC	1.2	ppm	R	NOx	122.1	ppm	R
05/16/07	14:56:47	O2	4.15	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	1.3	ppm	R	NOx	117.2	ppm	R
05/16/07	14:56:57	O2	3.91	%	R	CO2	10.18	%	R	CO	11.7	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/16/07	14:57:07	O2	3.66	%	R	CO2	10.11	%	R	CO	32.2	ppm	R	THC	1.6	ppm	R	NOx	109.9	ppm	R
05/16/07	14:57:17	O2	3.42	%	R	CO2	10.03	%	R	CO	54.7	ppm	R	THC	0.1	ppm	R	NOx	114.8	ppm	R
05/16/07	14:57:27	O2	3.30	%	R	CO2	9.59	%	R	CO	59.6	ppm	R	THC	0.3	ppm	R	NOx	127.0	ppm	R
05/16/07	14:57:37	O2	3.54	%	R	CO2	9.37	%	R	CO	45.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/16/07	14:57:47	O2	3.91	%	R	CO2	9.30	%	R	CO	30.3	ppm	R	THC	1.4	ppm	R	NOx	134.3	ppm	R
05/16/07	14:57:57	O2	4.27	%	R	CO2	9.45	%	R	CO	18.6	ppm	R	THC	1.6	ppm	R	NOx	131.8	ppm	R
05/16/07	14:58:07	O2	4.27	%	R	CO2	9.67	%	R	CO	12.7	ppm	R	THC	0.7	ppm	R	NOx	131.8	ppm	R
05/16/07	14:58:17	O2	4.27	%	R	CO2	9.59	%	R	CO	9.8	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R

05/16/07	14:58:27	O2	4.15	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	139.2	ppm	R
05/16/07	14:58:37	O2	4.15	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	146.5	ppm	R
05/16/07	14:58:47	O2	4.27	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	144.0	ppm	R
05/16/07	14:58:57	O2	4.39	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	141.6	ppm	R
05/16/07	14:59:07	O2	4.39	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	141.6	ppm	R
05/16/07	14:59:17	O2	4.27	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	127.0	ppm	R
05/16/07	14:59:27	O2	4.03	%	R	CO2	10.03	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:59:37	O2	3.78	%	R	CO2	9.96	%	R	CO	8.8	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/16/07	14:59:47	O2	3.66	%	R	CO2	9.81	%	R	CO	9.8	ppm	R	THC	0.4	ppm	R	NOx	127.0	ppm	R
05/16/07	14:59:57	O2	3.66	%	R	CO2	9.52	%	R	CO	8.8	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/16/07	15:00:07	O2	3.78	%	R	CO2	9.23	%	R	CO	7.8	ppm	R	THC	0.2	ppm	R	NOx	141.6	ppm	R
05/16/07	15:00:17	O2	4.15	%	R	CO2	9.30	%	R	CO	6.8	ppm	R	THC	1.9	ppm	R	NOx	151.4	ppm	R
05/16/07	15:00:27	O2	4.39	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	136.7	ppm	R
05/16/07	15:00:37	O2	4.39	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	144.0	ppm	R
05/16/07	15:00:47	O2	4.39	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	151.4	ppm	R
05/16/07	15:00:57	O2	4.39	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	153.8	ppm	R
05/16/07	15:01:07	O2	4.39	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	156.3	ppm	R
05/16/07	15:01:17	O2	4.52	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	161.1	ppm	R
05/16/07	15:01:27	O2	4.64	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	151.4	ppm	R
05/16/07	15:01:37	O2	4.64	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	141.6	ppm	R
05/16/07	15:01:47	O2	4.39	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	139.2	ppm	R
05/16/07	15:01:57	O2	4.27	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	127.0	ppm	R
05/16/07	15:02:07	O2	4.03	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	1.9	ppm	R	NOx	131.8	ppm	R
05/16/07	15:02:17	O2	3.91	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.8	ppm	R	NOx	139.2	ppm	R
05/16/07	15:02:27	O2	3.78	%	R	CO2	9.16	%	R	CO	6.8	ppm	R	THC	1.8	ppm	R	NOx	136.7	ppm	R
05/16/07	15:02:37	O2	4.03	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	1.0	ppm	R	NOx	146.5	ppm	R
05/16/07	15:02:47	O2	4.76	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	161.1	ppm	R
05/16/07	15:02:57	O2	5.00	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	151.4	ppm	R
05/16/07	15:03:07	O2	4.76	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	153.8	ppm	R
05/16/07	15:03:17	O2	4.64	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	158.7	ppm	R
05/16/07	15:03:27	O2	4.64	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	163.6	ppm	R
05/16/07	15:03:37	O2	4.76	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	166.0	ppm	R
05/16/07	15:03:47	O2	4.76	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	168.5	ppm	R
05/16/07	15:03:57	O2	4.88	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	158.7	ppm	R
05/16/07	15:04:07	O2	4.76	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	151.4	ppm	R
05/16/07	15:04:17	O2	4.76	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	168.5	ppm	R
05/16/07	15:04:27	O2	4.64	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	1.0	ppm	R	NOx	146.5	ppm	R
05/16/07	15:04:37	O2	4.64	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.0	ppm	R	NOx	146.5	ppm	R
05/16/07	15:04:47	O2	4.52	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	161.1	ppm	R
05/16/07	15:04:57	O2	4.39	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	173.3	ppm	R

05/16/07	15:05:07	O2	4.52	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	170.9	ppm	R
05/16/07	15:05:17	O2	4.76	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	168.5	ppm	R
05/16/07	15:05:27	O2	5.00	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	180.7	ppm	R
05/16/07	15:05:37	O2	5.00	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	183.1	ppm	R
05/16/07	15:05:47	O2	5.00	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	185.6	ppm	R
05/16/07	15:05:57	O2	5.13	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	200.2	ppm	R
05/16/07	15:06:07	O2	5.13	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	202.6	ppm	R
05/16/07	15:06:17	O2	5.13	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	207.5	ppm	R
05/16/07	15:06:27	O2	5.25	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	195.3	ppm	R
05/16/07	15:06:37	O2	5.13	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	180.7	ppm	R
05/16/07	15:06:47	O2	5.13	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	175.8	ppm	R
05/16/07	15:06:57	O2	5.13	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	190.4	ppm	R
05/16/07	15:07:07	O2	5.00	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	192.9	ppm	R
05/16/07	15:07:17	O2	5.00	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	188.0	ppm	R
05/16/07	15:07:27	O2	4.88	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	192.9	ppm	R
05/16/07	15:07:37	O2	5.00	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	207.5	ppm	R
05/16/07	15:07:47	O2	5.13	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	205.1	ppm	R
05/16/07	15:07:57	O2	5.25	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	205.1	ppm	R
05/16/07	15:08:07	O2	5.49	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	214.8	ppm	R
05/16/07	15:08:17	O2	5.49	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	222.2	ppm	R
05/16/07	15:08:27	O2	5.49	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	246.6	ppm	R
05/16/07	15:08:37	O2	5.49	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	241.7	ppm	R
05/16/07	15:08:47	O2	5.49	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	227.1	ppm	R
05/16/07	15:08:57	O2	5.49	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	231.9	ppm	R
05/16/07	15:09:07	O2	5.62	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.0	ppm	R	NOx	224.6	ppm	R
05/16/07	15:09:17	O2	5.49	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	239.3	ppm	R
05/16/07	15:09:27	O2	5.49	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	212.4	ppm	R
05/16/07	15:09:37	O2	5.49	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	217.3	ppm	R
05/16/07	15:09:47	O2	5.37	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	239.3	ppm	R
05/16/07	15:09:57	O2	5.37	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	231.9	ppm	R
05/16/07	15:10:07	O2	5.37	%	R	CO2	8.50	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	234.4	ppm	R
05/16/07	15:10:17	O2	5.49	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	231.9	ppm	R
05/16/07	15:10:27	O2	5.62	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	229.5	ppm	R
05/16/07	15:10:37	O2	5.62	%	R	CO2	8.50	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	224.6	ppm	R
05/16/07	15:10:47	O2	5.62	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	244.1	ppm	R
05/16/07	15:10:57	O2	5.74	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	234.4	ppm	R
05/16/07	15:11:07	O2	5.62	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	236.8	ppm	R
05/16/07	15:11:17	O2	5.62	%	R	CO2	8.57	%	R	CO	8.8	ppm	R	THC	1.5	ppm	R	NOx	234.4	ppm	R
05/16/07	15:11:27	O2	5.74	%	R	CO2	8.64	%	R	CO	8.8	ppm	R	THC	1.0	ppm	R	NOx	268.6	ppm	R
05/16/07	15:27:07	O2	4.15	%	R	CO2	10.55	%	C	CO	3.9	ppm	C	THC	4.4	ppm	C	NOx	127.0	ppm	C

05/16/07	15:27:17	O2	4.39	%	R	CO2	10.47	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	141.6	ppm	R
05/16/07	15:27:27	O2	4.52	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	124.5	ppm	R
05/16/07	15:27:37	O2	4.52	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	119.6	ppm	R
05/16/07	15:27:47	O2	4.64	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	5.7	ppm	R	NOx	119.6	ppm	R
05/16/07	15:27:57	O2	4.64	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	127.0	ppm	R
05/16/07	15:28:07	O2	4.76	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	6.8	ppm	R	NOx	131.8	ppm	R
05/16/07	15:28:17	O2	4.76	%	R	CO2	10.25	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/16/07	15:28:27	O2	4.88	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	6.0	ppm	R	NOx	129.4	ppm	R
05/16/07	15:28:37	O2	4.64	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	124.5	ppm	R
05/16/07	15:28:47	O2	4.88	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	124.5	ppm	R
05/16/07	15:28:57	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	124.5	ppm	R
05/16/07	15:29:07	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	5.5	ppm	R	NOx	122.1	ppm	R
05/16/07	15:29:17	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	6.5	ppm	R	NOx	122.1	ppm	R
05/16/07	15:29:27	O2	4.88	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	5.3	ppm	R	NOx	122.1	ppm	R
05/16/07	15:29:37	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	122.1	ppm	R
05/16/07	15:29:47	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	124.5	ppm	R
05/16/07	15:29:57	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	122.1	ppm	R
05/16/07	15:30:07	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	122.1	ppm	R
05/16/07	15:30:17	O2	4.76	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	124.5	ppm	R
05/16/07	15:30:27	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	129.4	ppm	R
05/16/07	15:30:37	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	129.4	ppm	R
05/16/07	15:30:47	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	131.8	ppm	R
05/16/07	15:30:57	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	134.3	ppm	R
05/16/07	15:31:07	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	139.2	ppm	R
05/16/07	15:31:17	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	131.8	ppm	R
05/16/07	15:31:27	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	129.4	ppm	R
05/16/07	15:31:37	O2	5.13	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	1.7	ppm	R	NOx	127.0	ppm	R
05/16/07	15:31:47	O2	5.13	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/16/07	15:31:57	O2	5.25	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/16/07	15:32:07	O2	5.13	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	117.2	ppm	R
05/16/07	15:32:17	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	114.8	ppm	R
05/16/07	15:32:27	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	117.2	ppm	R
05/16/07	15:32:37	O2	5.00	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	114.8	ppm	R
05/16/07	15:32:47	O2	4.88	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/16/07	15:32:57	O2	4.76	%	R	CO2	10.62	%	R	CO	12.7	ppm	R	THC	1.8	ppm	R	NOx	107.4	ppm	R
05/16/07	15:33:07	O2	4.52	%	R	CO2	9.96	%	R	CO	131.8	ppm	R	THC	6.0	ppm	R	NOx	85.5	ppm	R
05/16/07	15:33:17	O2	4.39	%	R	CO2	9.74	%	R	CO	200.2	ppm	R	THC	-1.5	ppm	R	NOx	56.2	ppm	R
05/16/07	15:33:27	O2	4.52	%	R	CO2	10.47	%	R	CO	200.2	ppm	R	THC	5.5	ppm	R	NOx	75.7	ppm	R
05/16/07	15:33:37	O2	5.00	%	R	CO2	10.55	%	R	CO	200.2	ppm	R	THC	4.0	ppm	R	NOx	83.0	ppm	R
05/16/07	15:33:47	O2	5.00	%	R	CO2	10.25	%	R	CO	200.2	ppm	R	THC	0.5	ppm	R	NOx	85.5	ppm	R

05/16/07	15:33:57	O2	4.27	%	R	CO2	10.03	%	R	CO	200.2	ppm	R	THC	4.4	ppm	R	NOx	83.0	ppm	R
05/16/07	15:34:07	O2	4.03	%	R	CO2	9.96	%	R	CO	200.2	ppm	R	THC	6.2	ppm	R	NOx	92.8	ppm	R
05/16/07	15:34:17	O2	3.91	%	R	CO2	10.33	%	R	CO	200.2	ppm	R	THC	4.3	ppm	R	NOx	92.8	ppm	R
05/16/07	15:34:27	O2	4.03	%	R	CO2	10.47	%	R	CO	200.2	ppm	R	THC	0.4	ppm	R	NOx	85.5	ppm	R
05/16/07	15:34:37	O2	4.15	%	R	CO2	10.47	%	R	CO	200.2	ppm	R	THC	3.1	ppm	R	NOx	90.3	ppm	R
05/16/07	15:34:47	O2	4.03	%	R	CO2	10.40	%	R	CO	102.5	ppm	R	THC	6.0	ppm	R	NOx	92.8	ppm	R
05/16/07	15:34:57	O2	4.03	%	R	CO2	10.40	%	R	CO	51.8	ppm	R	THC	6.5	ppm	R	NOx	95.2	ppm	R
05/16/07	15:35:07	O2	3.91	%	R	CO2	10.25	%	R	CO	28.3	ppm	R	THC	1.9	ppm	R	NOx	87.9	ppm	R
05/16/07	15:35:17	O2	3.91	%	R	CO2	10.11	%	R	CO	16.6	ppm	R	THC	7.1	ppm	R	NOx	92.8	ppm	R
05/16/07	15:35:27	O2	4.03	%	R	CO2	10.25	%	R	CO	11.7	ppm	R	THC	7.1	ppm	R	NOx	87.9	ppm	R
05/16/07	15:35:37	O2	4.03	%	R	CO2	10.33	%	R	CO	8.8	ppm	R	THC	3.3	ppm	R	NOx	90.3	ppm	R
05/16/07	15:35:47	O2	4.03	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	0.5	ppm	R	NOx	87.9	ppm	R
05/16/07	15:35:57	O2	4.03	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	87.9	ppm	R
05/16/07	15:36:07	O2	4.15	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	7.1	ppm	R	NOx	90.3	ppm	R
05/16/07	15:36:17	O2	4.03	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	87.9	ppm	R
05/16/07	15:36:27	O2	4.03	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	85.5	ppm	R
05/16/07	15:36:37	O2	3.91	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	4.1	ppm	R	NOx	83.0	ppm	R
05/16/07	15:36:47	O2	3.91	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	6.5	ppm	R	NOx	80.6	ppm	R
05/16/07	15:36:57	O2	3.91	%	R	CO2	10.77	%	R	CO	6.8	ppm	R	THC	6.3	ppm	R	NOx	83.0	ppm	R
05/16/07	15:37:07	O2	3.78	%	R	CO2	10.84	%	R	CO	7.8	ppm	R	THC	6.5	ppm	R	NOx	83.0	ppm	R
05/16/07	15:37:17	O2	3.78	%	R	CO2	10.77	%	R	CO	7.8	ppm	R	THC	4.5	ppm	R	NOx	85.5	ppm	R
05/16/07	15:37:27	O2	3.66	%	R	CO2	10.62	%	R	CO	7.8	ppm	R	THC	0.1	ppm	R	NOx	83.0	ppm	R
05/16/07	15:37:37	O2	3.54	%	R	CO2	10.84	%	R	CO	9.8	ppm	R	THC	0.1	ppm	R	NOx	80.6	ppm	R
05/16/07	15:37:47	O2	3.54	%	R	CO2	10.91	%	R	CO	18.6	ppm	R	THC	0.0	ppm	R	NOx	78.1	ppm	R
05/16/07	15:37:57	O2	3.54	%	R	CO2	10.84	%	R	CO	27.3	ppm	R	THC	5.6	ppm	R	NOx	80.6	ppm	R
05/16/07	15:38:07	O2	3.54	%	R	CO2	10.84	%	R	CO	28.3	ppm	R	THC	0.1	ppm	R	NOx	83.0	ppm	R
05/16/07	15:38:17	O2	3.42	%	R	CO2	10.69	%	R	CO	22.5	ppm	R	THC	6.0	ppm	R	NOx	90.3	ppm	R
05/16/07	15:38:27	O2	3.54	%	R	CO2	10.69	%	R	CO	15.6	ppm	R	THC	5.7	ppm	R	NOx	90.3	ppm	R
05/16/07	15:38:37	O2	3.54	%	R	CO2	10.62	%	R	CO	11.7	ppm	R	THC	6.8	ppm	R	NOx	92.8	ppm	R
05/16/07	15:38:47	O2	3.66	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	5.8	ppm	R	NOx	85.5	ppm	R
05/16/07	15:38:57	O2	3.66	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	5.6	ppm	R	NOx	85.5	ppm	R
05/16/07	15:39:07	O2	3.66	%	R	CO2	10.77	%	R	CO	7.8	ppm	R	THC	3.2	ppm	R	NOx	83.0	ppm	R
05/16/07	15:39:17	O2	3.66	%	R	CO2	10.69	%	R	CO	7.8	ppm	R	THC	1.0	ppm	R	NOx	83.0	ppm	R
05/16/07	15:39:27	O2	3.66	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	-0.0	ppm	R	NOx	83.0	ppm	R
05/16/07	15:39:37	O2	3.66	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	0.5	ppm	R	NOx	80.6	ppm	R
05/16/07	15:39:47	O2	3.66	%	R	CO2	10.69	%	R	CO	6.8	ppm	R	THC	1.6	ppm	R	NOx	80.6	ppm	R
05/16/07	15:39:57	O2	3.78	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	1.5	ppm	R	NOx	83.0	ppm	R
05/16/07	15:40:07	O2	3.66	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	6.8	ppm	R	NOx	85.5	ppm	R
05/16/07	15:40:17	O2	3.66	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	5.0	ppm	R	NOx	83.0	ppm	R
05/16/07	15:40:27	O2	3.66	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	87.9	ppm	R

05/16/07	15:40:37	O2	3.66	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	90.3	ppm	R
05/16/07	15:40:47	O2	3.66	%	R	CO2	10.47	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	87.9	ppm	R
05/16/07	15:40:57	O2	3.78	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	92.8	ppm	R
05/16/07	15:41:07	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	6.7	ppm	R	NOx	95.2	ppm	R
05/16/07	15:41:17	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	4.9	ppm	R	NOx	92.8	ppm	R
05/16/07	15:41:27	O2	3.78	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	90.3	ppm	R
05/16/07	15:41:37	O2	3.78	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	85.5	ppm	R
05/16/07	15:41:47	O2	3.91	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	85.5	ppm	R
05/16/07	15:41:57	O2	3.91	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	5.3	ppm	R	NOx	87.9	ppm	R
05/16/07	15:42:07	O2	3.91	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	6.2	ppm	R	NOx	90.3	ppm	R
05/16/07	15:42:17	O2	3.78	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/16/07	15:42:27	O2	3.78	%	R	CO2	10.33	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	87.9	ppm	R
05/16/07	15:42:37	O2	3.78	%	R	CO2	10.40	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	87.9	ppm	R
05/16/07	15:42:47	O2	4.03	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	3.4	ppm	R	NOx	87.9	ppm	R
05/16/07	15:42:57	O2	3.91	%	R	CO2	10.62	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	87.9	ppm	R
05/16/07	15:43:07	O2	3.91	%	R	CO2	10.55	%	R	CO	6.8	ppm	R	THC	6.5	ppm	R	NOx	92.8	ppm	R
05/16/07	15:43:17	O2	3.91	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	1.9	ppm	R	NOx	75.7	ppm	R
05/16/07	15:43:27	O2	3.78	%	R	CO2	5.35	%	R	CO	5.9	ppm	R	THC	5.0	ppm	R	NOx	46.4	ppm	R
05/16/07	15:43:37	O2	3.91	%	R	CO2	4.83	%	R	CO	4.9	ppm	R	THC	9.6	ppm	R	NOx	46.4	ppm	R
05/16/07	15:43:47	O2	5.74	%	R	CO2	4.91	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	46.4	ppm	R
05/16/07	15:43:57	O2	9.40	%	R	CO2	4.61	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	39.1	ppm	R
05/16/07	15:44:07	O2	11.47	%	R	CO2	4.54	%	R	CO	2.9	ppm	R	THC	9.9	ppm	R	NOx	39.1	ppm	R
05/16/07	15:44:17	O2	12.33	%	R	CO2	4.69	%	R	CO	2.9	ppm	R	THC	8.9	ppm	R	NOx	41.5	ppm	R
05/16/07	15:44:27	O2	12.82	%	R	CO2	4.76	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	39.1	ppm	R
05/16/07	15:44:37	O2	13.18	%	R	CO2	4.83	%	R	CO	2.9	ppm	R	THC	7.4	ppm	R	NOx	39.1	ppm	R
05/16/07	15:44:47	O2	13.31	%	R	CO2	4.91	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	44.0	ppm	R
05/16/07	15:44:57	O2	13.31	%	R	CO2	4.83	%	R	CO	2.9	ppm	R	THC	2.4	ppm	R	NOx	36.6	ppm	R
05/16/07	15:45:07	O2	13.31	%	R	CO2	4.54	%	R	CO	2.9	ppm	R	THC	6.9	ppm	R	NOx	39.1	ppm	R
05/16/07	15:45:17	O2	13.18	%	R	CO2	4.61	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	41.5	ppm	R
05/16/07	15:45:27	O2	13.43	%	R	CO2	5.05	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	41.5	ppm	R
05/16/07	15:45:37	O2	13.55	%	R	CO2	5.05	%	R	CO	2.9	ppm	R	THC	6.6	ppm	R	NOx	46.4	ppm	R
05/16/07	15:45:47	O2	13.18	%	R	CO2	4.76	%	R	CO	2.9	ppm	R	THC	9.5	ppm	R	NOx	46.4	ppm	R
05/16/07	15:45:57	O2	13.18	%	R	CO2	4.83	%	R	CO	2.9	ppm	R	THC	8.5	ppm	R	NOx	46.4	ppm	R
05/16/07	15:46:07	O2	13.31	%	R	CO2	4.83	%	R	CO	2.0	ppm	R	THC	4.1	ppm	R	NOx	46.4	ppm	R
05/16/07	15:46:17	O2	13.31	%	R	CO2	4.83	%	R	CO	2.9	ppm	R	THC	7.1	ppm	R	NOx	48.8	ppm	R
05/16/07	15:46:27	O2	13.31	%	R	CO2	4.47	%	R	CO	2.9	ppm	R	THC	9.3	ppm	R	NOx	44.0	ppm	R
05/16/07	15:46:37	O2	13.18	%	R	CO2	4.39	%	R	CO	2.0	ppm	R	THC	7.2	ppm	R	NOx	44.0	ppm	R
05/16/07	15:46:47	O2	13.55	%	R	CO2	4.54	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	44.0	ppm	R
05/16/07	15:46:57	O2	13.79	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	3.1	ppm	R	NOx	44.0	ppm	R
05/16/07	15:47:07	O2	13.79	%	R	CO2	4.39	%	R	CO	2.0	ppm	R	THC	5.1	ppm	R	NOx	44.0	ppm	R

05/16/07	15:47:17	O2	13.79	%	R	CO2	4.25	%	R	CO	2.0	ppm	R	THC	8.1	ppm	R	NOx	46.4	ppm	R
05/16/07	15:47:27	O2	13.79	%	R	CO2	4.39	%	R	CO	2.0	ppm	R	THC	7.7	ppm	R	NOx	46.4	ppm	R
05/16/07	15:47:37	O2	13.92	%	R	CO2	4.76	%	R	CO	2.0	ppm	R	THC	3.4	ppm	R	NOx	51.3	ppm	R
05/16/07	15:47:47	O2	13.79	%	R	CO2	5.20	%	R	CO	2.0	ppm	R	THC	2.6	ppm	R	NOx	53.7	ppm	R
05/16/07	15:47:57	O2	13.31	%	R	CO2	4.69	%	R	CO	2.9	ppm	R	THC	6.6	ppm	R	NOx	53.7	ppm	R
05/16/07	15:48:07	O2	12.82	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	5.1	ppm	R	NOx	51.3	ppm	R
05/16/07	15:48:17	O2	13.18	%	R	CO2	4.39	%	R	CO	2.0	ppm	R	THC	3.6	ppm	R	NOx	53.7	ppm	R
05/16/07	15:48:27	O2	13.79	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	6.5	ppm	R	NOx	56.2	ppm	R
05/16/07	15:48:37	O2	13.79	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	2.5	ppm	R	NOx	53.7	ppm	R
05/16/07	15:48:47	O2	13.79	%	R	CO2	4.25	%	R	CO	2.0	ppm	R	THC	8.8	ppm	R	NOx	56.2	ppm	R
05/16/07	15:48:57	O2	13.92	%	R	CO2	4.54	%	R	CO	2.0	ppm	R	THC	8.9	ppm	R	NOx	58.6	ppm	R
05/16/07	15:49:07	O2	13.92	%	R	CO2	4.39	%	R	CO	2.0	ppm	R	THC	2.1	ppm	R	NOx	56.2	ppm	R
05/16/07	15:49:17	O2	13.43	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	6.6	ppm	R	NOx	53.7	ppm	R
05/16/07	15:49:27	O2	13.55	%	R	CO2	4.47	%	R	CO	2.0	ppm	R	THC	7.7	ppm	R	NOx	58.6	ppm	R
05/16/07	15:49:37	O2	13.67	%	R	CO2	4.54	%	R	CO	2.0	ppm	R	THC	2.5	ppm	R	NOx	56.2	ppm	R
05/16/07	15:49:47	O2	13.55	%	R	CO2	4.17	%	R	CO	2.0	ppm	R	THC	4.2	ppm	R	NOx	56.2	ppm	R
05/16/07	15:49:57	O2	13.67	%	R	CO2	4.32	%	R	CO	2.0	ppm	R	THC	4.3	ppm	R	NOx	53.7	ppm	R
05/16/07	15:50:07	O2	14.04	%	R	CO2	4.76	%	R	CO	2.0	ppm	R	THC	10.1	ppm	R	NOx	65.9	ppm	R
05/16/07	15:50:17	O2	13.79	%	R	CO2	9.16	%	R	CO	2.0	ppm	R	THC	3.1	ppm	R	NOx	119.6	ppm	R
05/16/07	15:50:27	O2	11.35	%	R	CO2	9.30	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	127.0	ppm	R
05/16/07	15:50:37	O2	6.10	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	6.0	ppm	R	NOx	131.8	ppm	R
05/16/07	15:50:47	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	6.2	ppm	R	NOx	136.7	ppm	R
05/16/07	15:50:57	O2	4.88	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	7.5	ppm	R	NOx	151.4	ppm	R
05/16/07	15:51:07	O2	4.88	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	8.3	ppm	R	NOx	141.6	ppm	R
05/16/07	15:51:17	O2	4.88	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	7.3	ppm	R	NOx	139.2	ppm	R
05/16/07	15:51:27	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.9	ppm	R	NOx	134.3	ppm	R
05/16/07	15:51:37	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	134.3	ppm	R
05/16/07	15:51:47	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	9.6	ppm	R	NOx	136.7	ppm	R
05/16/07	15:51:57	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.6	ppm	R	NOx	139.2	ppm	R
05/16/07	15:52:07	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	5.4	ppm	R	NOx	144.0	ppm	R
05/16/07	15:52:17	O2	4.76	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	144.0	ppm	R
05/16/07	15:52:27	O2	4.64	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	148.9	ppm	R
05/16/07	15:52:37	O2	4.64	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	148.9	ppm	R
05/16/07	15:52:47	O2	4.76	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	6.8	ppm	R	NOx	153.8	ppm	R
05/16/07	15:52:57	O2	5.00	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	166.0	ppm	R
05/16/07	15:53:07	O2	5.13	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	6.2	ppm	R	NOx	170.9	ppm	R
05/16/07	15:53:17	O2	5.13	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	9.3	ppm	R	NOx	173.3	ppm	R
05/16/07	15:53:27	O2	5.13	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	170.9	ppm	R
05/16/07	15:53:37	O2	5.00	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	163.6	ppm	R
05/16/07	15:53:47	O2	5.00	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	8.2	ppm	R	NOx	166.0	ppm	R

05/16/07	15:53:57	O2	4.88	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	166.0	ppm	R
05/16/07	15:54:07	O2	5.00	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	9.6	ppm	R	NOx	166.0	ppm	R
05/16/07	15:54:17	O2	5.00	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	8.4	ppm	R	NOx	163.6	ppm	R
05/16/07	15:54:27	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	7.2	ppm	R	NOx	161.1	ppm	R
05/16/07	15:54:37	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	161.1	ppm	R
05/16/07	15:54:47	O2	4.64	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	161.1	ppm	R
05/16/07	15:54:57	O2	4.76	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	5.1	ppm	R	NOx	158.7	ppm	R
05/16/07	15:55:07	O2	4.76	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	9.5	ppm	R	NOx	158.7	ppm	R
05/16/07	15:55:17	O2	4.88	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	8.9	ppm	R	NOx	156.3	ppm	R
05/16/07	15:55:27	O2	4.64	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	156.3	ppm	R
05/16/07	15:55:37	O2	4.76	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	6.4	ppm	R	NOx	158.7	ppm	R
05/16/07	15:55:47	O2	4.76	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	153.8	ppm	R
05/16/07	15:55:57	O2	4.64	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	153.8	ppm	R
05/16/07	15:56:07	O2	4.64	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	156.3	ppm	R
05/16/07	15:56:17	O2	4.64	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	151.4	ppm	R
05/16/07	15:56:27	O2	4.64	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	151.4	ppm	R
05/16/07	15:56:37	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	6.2	ppm	R	NOx	141.6	ppm	R
05/16/07	15:56:47	O2	4.64	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	134.3	ppm	R
05/16/07	15:56:57	O2	4.39	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	9.5	ppm	R	NOx	131.8	ppm	R
05/16/07	15:57:07	O2	4.15	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	4.4	ppm	R	NOx	127.0	ppm	R
05/16/07	15:57:17	O2	4.03	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	8.5	ppm	R	NOx	129.4	ppm	R
05/16/07	15:57:27	O2	3.78	%	R	CO2	9.45	%	R	CO	11.7	ppm	R	THC	7.4	ppm	R	NOx	141.6	ppm	R
05/16/07	15:57:37	O2	3.91	%	R	CO2	9.08	%	R	CO	10.7	ppm	R	THC	2.6	ppm	R	NOx	153.8	ppm	R
05/16/07	15:57:47	O2	4.39	%	R	CO2	8.86	%	R	CO	8.8	ppm	R	THC	8.6	ppm	R	NOx	173.3	ppm	R
05/16/07	15:57:57	O2	5.00	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	3.0	ppm	R	NOx	185.6	ppm	R
05/16/07	15:58:07	O2	5.25	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	9.4	ppm	R	NOx	173.3	ppm	R
05/16/07	15:58:17	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	8.5	ppm	R	NOx	175.8	ppm	R
05/16/07	15:58:27	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	8.8	ppm	R	NOx	163.6	ppm	R
05/16/07	15:58:37	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	9.9	ppm	R	NOx	156.3	ppm	R
05/16/07	15:58:47	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	9.6	ppm	R	NOx	146.5	ppm	R
05/16/07	15:58:57	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	9.8	ppm	R	NOx	139.2	ppm	R
05/16/07	15:59:07	O2	5.00	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	6.3	ppm	R	NOx	144.0	ppm	R
05/16/07	15:59:17	O2	4.88	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	7.4	ppm	R	NOx	127.0	ppm	R
05/16/07	15:59:27	O2	4.76	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	5.4	ppm	R	NOx	127.0	ppm	R
05/16/07	15:59:37	O2	4.64	%	R	CO2	8.42	%	R	CO	4.9	ppm	R	THC	6.3	ppm	R	NOx	107.4	ppm	R
05/16/07	15:59:47	O2	5.74	%	R	CO2	8.28	%	R	CO	4.9	ppm	R	THC	5.2	ppm	R	NOx	105.0	ppm	R
05/16/07	15:59:57	O2	6.59	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	122.1	ppm	R
05/16/07	16:00:07	O2	6.84	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	129.4	ppm	R
05/16/07	16:00:17	O2	5.74	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	129.4	ppm	R
05/16/07	16:00:27	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	7.8	ppm	R	NOx	146.5	ppm	R

05/16/07	16:00:37	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	146.5	ppm	R
05/16/07	16:00:47	O2	4.88	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	8.6	ppm	R	NOx	146.5	ppm	R
05/16/07	16:00:57	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	9.1	ppm	R	NOx	153.8	ppm	R
05/16/07	16:01:07	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	9.4	ppm	R	NOx	151.4	ppm	R
05/16/07	16:01:17	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	9.5	ppm	R	NOx	141.6	ppm	R
05/16/07	16:01:27	O2	5.25	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	8.4	ppm	R	NOx	141.6	ppm	R
05/16/07	16:01:37	O2	5.13	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	2.9	ppm	R	NOx	131.8	ppm	R
05/16/07	16:01:47	O2	5.00	%	R	CO2	9.89	%	R	CO	3.9	ppm	R	THC	3.2	ppm	R	NOx	127.0	ppm	R
05/16/07	16:01:57	O2	4.76	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	117.2	ppm	R
05/16/07	16:02:07	O2	4.52	%	R	CO2	10.25	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	119.6	ppm	R
05/16/07	16:02:17	O2	4.39	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	4.7	ppm	R	NOx	117.2	ppm	R
05/16/07	16:02:27	O2	4.15	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	3.3	ppm	R	NOx	129.4	ppm	R
	Avg		4.68				9.73				41.2				9.6				111.7		

das2

GTI
Location G2
DAS Data
Run No. 2 PM/Metals

05/17/07	08:32:11	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	08:32:17	O2	4.52	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	08:32:27	O2	4.64	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	195.3	ppm	R
05/17/07	08:32:37	O2	4.64	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	08:32:47	O2	4.76	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	08:32:57	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.8	ppm	R	NOx	222.2	ppm	R
05/17/07	08:33:07	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	08:33:17	O2	5.00	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	234.4	ppm	R
05/17/07	08:33:27	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	234.4	ppm	R
05/17/07	08:33:37	O2	5.00	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	231.9	ppm	R
05/17/07	08:33:47	O2	5.13	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	229.5	ppm	R
05/17/07	08:33:57	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	222.2	ppm	R
05/17/07	08:34:07	O2	5.00	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	222.2	ppm	R
05/17/07	08:34:17	O2	5.00	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	08:34:27	O2	5.00	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	229.5	ppm	R
05/17/07	08:34:37	O2	4.88	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	224.6	ppm	R
05/17/07	08:34:47	O2	4.76	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	207.5	ppm	R
05/17/07	08:34:57	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	207.5	ppm	R
05/17/07	08:35:07	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	205.1	ppm	R
05/17/07	08:35:17	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	210.0	ppm	R
05/17/07	08:35:27	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	222.2	ppm	R
05/17/07	08:35:37	O2	5.00	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	227.1	ppm	R
05/17/07	08:35:47	O2	4.76	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	239.3	ppm	R
05/17/07	08:35:57	O2	5.13	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	263.7	ppm	R
05/17/07	08:36:07	O2	5.13	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	246.6	ppm	R
05/17/07	08:36:17	O2	5.25	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	08:36:27	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	08:36:37	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	08:36:47	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	08:36:57	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:37:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/17/07	08:37:17	O2	5.25	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/17/07	08:37:27	O2	5.25	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	08:37:37	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	246.6	ppm	R
05/17/07	08:37:47	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.8	ppm	R	NOx	224.6	ppm	R
05/17/07	08:37:57	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R

05/17/07	08:38:07	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	222.2	ppm	R
05/17/07	08:38:17	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	219.7	ppm	R
05/17/07	08:38:27	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	08:38:37	O2	5.00	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/17/07	08:38:47	O2	5.00	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/17/07	08:38:57	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	227.1	ppm	R
05/17/07	08:39:07	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/17/07	08:39:17	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	08:39:27	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	229.5	ppm	R
05/17/07	08:39:37	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	2.8	ppm	R	NOx	234.4	ppm	R
05/17/07	08:39:47	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	241.7	ppm	R
05/17/07	08:39:57	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/17/07	08:40:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	251.5	ppm	R
05/17/07	08:40:17	O2	5.25	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	08:40:27	O2	5.37	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:40:37	O2	6.10	%	R	CO2	8.72	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:40:47	O2	5.74	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/17/07	08:40:57	O2	5.62	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	1.9	ppm	R	NOx	253.9	ppm	R
05/17/07	08:41:07	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	278.3	ppm	R
05/17/07	08:41:17	O2	5.62	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	278.3	ppm	R
05/17/07	08:41:27	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	268.6	ppm	R
05/17/07	08:41:37	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	271.0	ppm	R
05/17/07	08:41:47	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	280.8	ppm	R
05/17/07	08:41:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	288.1	ppm	R
05/17/07	08:42:07	O2	5.49	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	2.7	ppm	R	NOx	278.3	ppm	R
05/17/07	08:42:17	O2	5.49	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	288.1	ppm	R
05/17/07	08:42:27	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	2.2	ppm	R	NOx	300.3	ppm	R
05/17/07	08:42:37	O2	5.86	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	08:42:47	O2	5.74	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R
05/17/07	08:42:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	293.0	ppm	R
05/17/07	08:43:07	O2	5.49	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	08:43:17	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	288.1	ppm	R
05/17/07	08:43:27	O2	5.62	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	08:43:37	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	293.0	ppm	R
05/17/07	08:43:47	O2	5.74	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	08:43:57	O2	5.74	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	08:44:07	O2	5.74	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R
05/17/07	08:44:17	O2	5.98	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.9	ppm	R	NOx	275.9	ppm	R
05/17/07	08:44:27	O2	5.74	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	288.1	ppm	R
05/17/07	08:44:37	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R

05/17/07	08:44:47	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	300.3	ppm	R
05/17/07	08:44:57	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	295.4	ppm	R
05/17/07	08:45:07	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	295.4	ppm	R
05/17/07	08:45:17	O2	5.62	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.8	ppm	R	NOx	319.8	ppm	R
05/17/07	08:45:27	O2	5.62	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	302.7	ppm	R
05/17/07	08:45:37	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	305.2	ppm	R
05/17/07	08:45:47	O2	5.62	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	305.2	ppm	R
05/17/07	08:45:57	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	305.2	ppm	R
05/17/07	08:46:07	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	295.4	ppm	R
05/17/07	08:46:17	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R
05/17/07	08:46:27	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.3	ppm	R	NOx	283.2	ppm	R
05/17/07	08:46:37	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	288.1	ppm	R
05/17/07	08:46:47	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	293.0	ppm	R
05/17/07	08:46:57	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	290.5	ppm	R
05/17/07	08:47:07	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	295.4	ppm	R
05/17/07	08:47:17	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	290.5	ppm	R
05/17/07	08:47:27	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	290.5	ppm	R
05/17/07	08:47:37	O2	5.49	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.3	ppm	R	NOx	305.2	ppm	R
05/17/07	08:47:47	O2	5.49	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	08:47:57	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	293.0	ppm	R
05/17/07	08:48:07	O2	5.62	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	302.7	ppm	R
05/17/07	08:48:17	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	312.5	ppm	R
05/17/07	08:48:27	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	2.2	ppm	R	NOx	322.3	ppm	R
05/17/07	08:48:37	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	302.7	ppm	R
05/17/07	08:48:47	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	275.9	ppm	R
05/17/07	08:48:57	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	275.9	ppm	R
05/17/07	08:49:07	O2	5.49	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	4.2	ppm	R	NOx	266.1	ppm	R
05/17/07	08:49:17	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	-0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	08:49:27	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	275.9	ppm	R
05/17/07	08:49:37	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	256.4	ppm	R
05/17/07	08:49:47	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:49:57	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	249.0	ppm	R
05/17/07	08:50:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:50:17	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/17/07	08:50:27	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/17/07	08:50:37	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/17/07	08:50:47	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	08:50:57	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	08:51:07	O2	5.49	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	08:51:17	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R

05/17/07	08:51:27	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	08:51:37	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/17/07	08:51:47	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.6	ppm	R	NOx	244.1	ppm	R
05/17/07	08:51:57	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	241.7	ppm	R
05/17/07	08:52:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	251.5	ppm	R
05/17/07	08:52:17	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	239.3	ppm	R
05/17/07	08:52:27	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	261.2	ppm	R
05/17/07	08:52:37	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	249.0	ppm	R
05/17/07	08:52:47	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	08:52:57	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	08:53:07	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	08:53:17	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	08:53:27	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	234.4	ppm	R
05/17/07	08:53:37	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	2.4	ppm	R	NOx	227.1	ppm	R
05/17/07	08:53:47	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	08:53:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	229.5	ppm	R
05/17/07	08:54:07	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/17/07	08:54:17	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	08:54:27	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	234.4	ppm	R
05/17/07	08:54:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	251.5	ppm	R
05/17/07	08:54:47	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	244.1	ppm	R
05/17/07	08:54:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	241.7	ppm	R
05/17/07	08:55:07	O2	5.62	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	08:55:17	O2	5.62	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	08:55:27	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	246.6	ppm	R
05/17/07	08:55:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	251.5	ppm	R
05/17/07	08:55:47	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	08:55:57	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	234.4	ppm	R
05/17/07	08:56:07	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	227.1	ppm	R
05/17/07	08:56:17	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/17/07	08:56:27	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	217.3	ppm	R
05/17/07	08:56:37	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	212.4	ppm	R
05/17/07	08:56:47	O2	5.74	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	197.8	ppm	R
05/17/07	08:56:57	O2	6.71	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	219.7	ppm	R
05/17/07	08:57:07	O2	5.74	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	229.5	ppm	R
05/17/07	08:57:17	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	219.7	ppm	R
05/17/07	08:57:27	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/17/07	08:57:37	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	08:57:47	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/17/07	08:57:57	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	222.2	ppm	R

05/17/07	08:58:07	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	227.1	ppm	R
05/17/07	08:58:17	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	219.7	ppm	R
05/17/07	08:58:27	O2	5.13	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	190.4	ppm	R
05/17/07	08:58:37	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	08:58:47	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	08:58:57	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	195.3	ppm	R
05/17/07	08:59:07	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	08:59:17	O2	5.25	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	224.6	ppm	R
05/17/07	08:59:27	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/17/07	08:59:37	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	227.1	ppm	R
05/17/07	08:59:47	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	222.2	ppm	R
05/17/07	08:59:57	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	214.8	ppm	R
05/17/07	09:00:07	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	217.3	ppm	R
05/17/07	09:00:17	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	09:00:27	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/17/07	09:00:37	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	09:00:47	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	239.3	ppm	R
05/17/07	09:00:57	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	241.7	ppm	R
05/17/07	09:01:07	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	227.1	ppm	R
05/17/07	09:01:17	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	212.4	ppm	R
05/17/07	09:01:27	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	210.0	ppm	R
05/17/07	09:01:37	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	09:01:47	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	09:01:57	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/17/07	09:02:07	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	229.5	ppm	R
05/17/07	09:02:17	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	244.1	ppm	R
05/17/07	09:02:27	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	09:02:37	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	09:02:47	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	217.3	ppm	R
05/17/07	09:02:57	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	207.5	ppm	R
05/17/07	09:03:07	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	195.3	ppm	R
05/17/07	09:03:17	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	190.4	ppm	R
05/17/07	09:03:27	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	180.7	ppm	R
05/17/07	09:03:37	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	1.0	ppm	R	NOx	175.8	ppm	R
05/17/07	09:03:47	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/17/07	09:03:57	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:04:07	O2	5.00	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/17/07	09:04:17	O2	5.00	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/17/07	09:04:27	O2	4.88	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	178.2	ppm	R
05/17/07	09:04:37	O2	4.76	%	R	CO2	10.03	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	173.3	ppm	R

05/17/07	09:04:47	O2	4.64	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	173.3	ppm	R
05/17/07	09:04:57	O2	4.76	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	175.8	ppm	R
05/17/07	09:05:07	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	180.7	ppm	R
05/17/07	09:05:17	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	185.6	ppm	R
05/17/07	09:05:27	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	09:05:37	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	09:05:47	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	185.6	ppm	R
05/17/07	09:05:57	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:06:07	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	09:06:17	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:06:27	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	180.7	ppm	R
05/17/07	09:06:37	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	2.4	ppm	R	NOx	183.1	ppm	R
05/17/07	09:06:47	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	183.1	ppm	R
05/17/07	09:06:57	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	188.0	ppm	R
05/17/07	09:07:07	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:07:17	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	09:07:27	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	09:07:37	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	200.2	ppm	R
05/17/07	09:07:47	O2	5.00	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	192.9	ppm	R
05/17/07	09:07:57	O2	4.88	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	192.9	ppm	R
05/17/07	09:08:07	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	09:08:17	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:08:27	O2	4.88	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	175.8	ppm	R
05/17/07	09:08:37	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	180.7	ppm	R
05/17/07	09:08:47	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/17/07	09:08:57	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/17/07	09:09:07	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/17/07	09:09:17	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/17/07	09:09:27	O2	4.76	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	180.7	ppm	R
05/17/07	09:09:37	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	5.1	ppm	R	NOx	175.8	ppm	R
05/17/07	09:09:47	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	09:09:57	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	192.9	ppm	R
05/17/07	09:10:07	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	190.4	ppm	R
05/17/07	09:10:17	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.1	ppm	R	NOx	188.0	ppm	R
05/17/07	09:10:27	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	197.8	ppm	R
05/17/07	09:10:37	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	192.9	ppm	R
05/17/07	09:10:47	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/17/07	09:10:57	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	09:11:07	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	09:11:17	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R

05/17/07	09:11:27	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	09:11:37	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	1.6	ppm	R	NOx	190.4	ppm	R
05/17/07	09:11:47	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	5.4	ppm	R	NOx	207.5	ppm	R
05/17/07	09:11:57	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	214.8	ppm	R
05/17/07	09:12:07	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/17/07	09:12:17	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	09:12:27	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	210.0	ppm	R
05/17/07	09:12:37	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	210.0	ppm	R
05/17/07	09:12:47	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	197.8	ppm	R
05/17/07	09:12:57	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	200.2	ppm	R
05/17/07	09:13:07	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	2.9	ppm	R	NOx	207.5	ppm	R
05/17/07	09:13:17	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	207.5	ppm	R
05/17/07	09:13:27	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	6.6	ppm	R	NOx	205.1	ppm	R
05/17/07	09:13:37	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	207.5	ppm	R
05/17/07	09:13:47	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.7	ppm	R	NOx	207.5	ppm	R
05/17/07	09:13:57	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	210.0	ppm	R
05/17/07	09:14:07	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	214.8	ppm	R
05/17/07	09:14:17	O2	5.13	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	5.5	ppm	R	NOx	229.5	ppm	R
05/17/07	09:14:27	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/17/07	09:14:37	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	09:14:47	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	236.8	ppm	R
05/17/07	09:14:57	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	229.5	ppm	R
05/17/07	09:15:07	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	6.5	ppm	R	NOx	222.2	ppm	R
05/17/07	09:15:17	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	217.3	ppm	R
05/17/07	09:15:27	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.6	ppm	R	NOx	217.3	ppm	R
05/17/07	09:15:37	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	224.6	ppm	R
05/17/07	09:15:47	O2	5.13	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	217.3	ppm	R
05/17/07	09:15:57	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	219.7	ppm	R
05/17/07	09:16:07	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/17/07	09:16:17	O2	5.25	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	207.5	ppm	R
05/17/07	09:16:27	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.8	ppm	R	NOx	200.2	ppm	R
05/17/07	09:16:37	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	200.2	ppm	R
05/17/07	09:16:47	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	202.6	ppm	R
05/17/07	09:16:57	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	205.1	ppm	R
05/17/07	09:17:07	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	09:17:17	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	210.0	ppm	R
05/17/07	09:17:27	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	212.4	ppm	R
05/17/07	09:17:37	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	5.7	ppm	R	NOx	212.4	ppm	R
05/17/07	09:17:47	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	202.6	ppm	R
05/17/07	09:17:57	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	205.1	ppm	R

05/17/07	09:18:07	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	-0.6	ppm	R	NOx	205.1	ppm	R
05/17/07	09:18:17	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	-0.6	ppm	R	NOx	200.2	ppm	R
05/17/07	09:18:27	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	195.3	ppm	R
05/17/07	09:18:37	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	200.2	ppm	R
05/17/07	09:18:47	O2	4.88	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	6.8	ppm	R	NOx	207.5	ppm	R
05/17/07	09:18:57	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	5.9	ppm	R	NOx	210.0	ppm	R
05/17/07	09:19:07	O2	5.13	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	210.0	ppm	R
05/17/07	09:19:17	O2	5.00	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	6.9	ppm	R	NOx	205.1	ppm	R
05/17/07	09:19:27	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	6.9	ppm	R	NOx	210.0	ppm	R
05/17/07	09:19:37	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	6.5	ppm	R	NOx	195.3	ppm	R
05/17/07	09:19:47	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	7.2	ppm	R	NOx	188.0	ppm	R
05/17/07	09:19:57	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	5.7	ppm	R	NOx	183.1	ppm	R
05/17/07	09:20:07	O2	4.76	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	185.6	ppm	R
05/17/07	09:20:17	O2	4.76	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	202.6	ppm	R
05/17/07	09:20:27	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	5.6	ppm	R	NOx	205.1	ppm	R
05/17/07	09:20:37	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	6.8	ppm	R	NOx	202.6	ppm	R
05/17/07	09:20:47	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	6.5	ppm	R	NOx	197.8	ppm	R
05/17/07	09:20:57	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	185.6	ppm	R
05/17/07	09:21:07	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	1.6	ppm	R	NOx	195.3	ppm	R
05/17/07	09:21:17	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	192.9	ppm	R
05/17/07	09:21:27	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	202.6	ppm	R
05/17/07	09:21:37	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	197.8	ppm	R
05/17/07	09:21:47	O2	4.88	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	7.9	ppm	R	NOx	202.6	ppm	R
05/17/07	09:21:57	O2	5.00	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	207.5	ppm	R
05/17/07	09:22:07	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	7.3	ppm	R	NOx	212.4	ppm	R
05/17/07	09:22:17	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	7.2	ppm	R	NOx	241.7	ppm	R
05/17/07	09:22:27	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	231.9	ppm	R
05/17/07	09:22:37	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	231.9	ppm	R
05/17/07	09:22:47	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	6.0	ppm	R	NOx	251.5	ppm	R
05/17/07	09:22:57	O2	5.25	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	5.6	ppm	R	NOx	246.6	ppm	R
05/17/07	09:23:07	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	7.3	ppm	R	NOx	249.0	ppm	R
05/17/07	09:23:17	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	249.0	ppm	R
05/17/07	09:23:27	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	234.4	ppm	R
05/17/07	09:23:37	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	231.9	ppm	R
05/17/07	09:23:47	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	229.5	ppm	R
05/17/07	09:23:57	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	6.9	ppm	R	NOx	239.3	ppm	R
05/17/07	09:24:07	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	231.9	ppm	R
05/17/07	09:24:17	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	249.0	ppm	R
05/17/07	09:24:27	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	246.6	ppm	R
05/17/07	09:24:37	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	263.7	ppm	R

05/17/07	09:24:47	O2	5.25	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	33.4	ppm	R	NOx	249.0	ppm	R
05/17/07	09:24:57	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	26.1	ppm	R	NOx	256.4	ppm	R
05/17/07	09:25:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	18.3	ppm	R	NOx	249.0	ppm	R
05/17/07	09:25:17	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	14.7	ppm	R	NOx	253.9	ppm	R
05/17/07	09:25:27	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	16.9	ppm	R	NOx	251.5	ppm	R
05/17/07	09:25:37	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	8.9	ppm	R	NOx	249.0	ppm	R
05/17/07	09:25:47	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	6.4	ppm	R	NOx	256.4	ppm	R
05/17/07	09:25:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	6.0	ppm	R	NOx	258.8	ppm	R
05/17/07	09:26:07	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	263.7	ppm	R
05/17/07	09:26:17	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	268.6	ppm	R
05/17/07	09:26:27	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	7.8	ppm	R	NOx	271.0	ppm	R
05/17/07	09:26:37	O2	5.49	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	10.9	ppm	R	NOx	275.9	ppm	R
05/17/07	09:26:47	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	12.7	ppm	R	NOx	263.7	ppm	R
05/17/07	09:26:57	O2	5.49	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	13.1	ppm	R	NOx	275.9	ppm	R
05/17/07	09:27:07	O2	5.49	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	15.1	ppm	R	NOx	293.0	ppm	R
05/17/07	09:27:17	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	11.8	ppm	R	NOx	293.0	ppm	R
05/17/07	09:27:27	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	12.5	ppm	R	NOx	329.6	ppm	R
05/17/07	09:27:37	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	6.5	ppm	R	NOx	317.4	ppm	R
05/17/07	09:27:47	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	9.1	ppm	R	NOx	290.5	ppm	R
05/17/07	09:27:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	11.2	ppm	R	NOx	297.9	ppm	R
05/17/07	09:28:07	O2	5.62	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	280.8	ppm	R
05/17/07	09:28:17	O2	5.62	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	4.4	ppm	R	NOx	283.2	ppm	R
05/17/07	09:28:27	O2	5.62	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	7.4	ppm	R	NOx	280.8	ppm	R
05/17/07	09:28:37	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	9.6	ppm	R	NOx	280.8	ppm	R
05/17/07	09:28:47	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	10.0	ppm	R	NOx	295.4	ppm	R
05/17/07	09:28:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	8.9	ppm	R	NOx	314.9	ppm	R
05/17/07	09:29:07	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	6.9	ppm	R	NOx	310.1	ppm	R
05/17/07	09:29:17	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	312.5	ppm	R
05/17/07	09:29:27	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.8	ppm	R	NOx	310.1	ppm	R
05/17/07	12:05:50	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	23.5	ppm	R	NOx	197.8	ppm	R
05/17/07	12:05:57	O2	5.25	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	8.5	ppm	R	NOx	188.0	ppm	R
05/17/07	12:06:07	O2	5.25	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	8.2	ppm	R	NOx	197.8	ppm	R
05/17/07	12:06:17	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	48.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:06:27	O2	5.25	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	51.8	ppm	R	NOx	205.1	ppm	R
05/17/07	12:06:37	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	52.7	ppm	R	NOx	207.5	ppm	R
05/17/07	12:06:47	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	47.3	ppm	R	NOx	210.0	ppm	R
05/17/07	12:06:57	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	27.2	ppm	R	NOx	207.5	ppm	R
05/17/07	12:07:07	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	17.1	ppm	R	NOx	219.7	ppm	R
05/17/07	12:07:17	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	222.2	ppm	R
05/17/07	12:07:27	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	210.0	ppm	R

05/17/07	12:07:37	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	227.1	ppm	R
05/17/07	12:07:47	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	214.8	ppm	R
05/17/07	12:07:57	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.3	ppm	R	NOx	212.4	ppm	R
05/17/07	12:08:07	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	219.7	ppm	R
05/17/07	12:08:17	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	229.5	ppm	R
05/17/07	12:08:27	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	12:08:37	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	12:08:47	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	12:08:57	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	17.2	ppm	R	NOx	236.8	ppm	R
05/17/07	12:09:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	24.1	ppm	R	NOx	239.3	ppm	R
05/17/07	12:09:17	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	23.8	ppm	R	NOx	246.6	ppm	R
05/17/07	12:09:27	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	25.4	ppm	R	NOx	253.9	ppm	R
05/17/07	12:09:37	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	25.2	ppm	R	NOx	251.5	ppm	R
05/17/07	12:09:47	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	22.5	ppm	R	NOx	249.0	ppm	R
05/17/07	12:09:57	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	253.9	ppm	R
05/17/07	12:10:07	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	249.0	ppm	R
05/17/07	12:10:17	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	258.8	ppm	R
05/17/07	12:10:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/17/07	12:10:37	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/17/07	12:10:47	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	12:10:57	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	12:11:07	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	224.6	ppm	R
05/17/07	12:11:17	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	12:11:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.5	ppm	R	NOx	227.1	ppm	R
05/17/07	12:11:37	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	222.2	ppm	R
05/17/07	12:11:47	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	234.4	ppm	R
05/17/07	12:11:57	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.0	ppm	R	NOx	227.1	ppm	R
05/17/07	12:12:07	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	217.3	ppm	R
05/17/07	12:12:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	3.3	ppm	R	NOx	222.2	ppm	R
05/17/07	12:12:27	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	229.5	ppm	R
05/17/07	12:12:37	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	12:12:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	12:12:57	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	12:13:07	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	12:13:17	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	219.7	ppm	R
05/17/07	12:13:27	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	12:13:37	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	239.3	ppm	R
05/17/07	12:13:47	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	12:13:57	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	234.4	ppm	R
05/17/07	12:14:07	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	217.3	ppm	R

05/17/07	12:14:17	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/17/07	12:14:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/17/07	12:14:37	O2	5.49	%	R	CO2	9.30	%	R	CO	6.8	ppm	R	THC	2.0	ppm	R	NOx	219.7	ppm	R
05/17/07	12:14:47	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.7	ppm	R	NOx	210.0	ppm	R
05/17/07	12:14:57	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	200.2	ppm	R
05/17/07	12:15:07	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	12:15:17	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:15:27	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:15:37	O2	5.25	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	12:15:47	O2	5.25	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	12:15:57	O2	5.62	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:16:07	O2	5.86	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	200.2	ppm	R
05/17/07	12:16:17	O2	5.74	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	195.3	ppm	R
05/17/07	12:16:27	O2	5.25	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:16:37	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	210.0	ppm	R
05/17/07	12:16:47	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:16:57	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:17:07	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:17:17	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:17:27	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	205.1	ppm	R
05/17/07	12:17:37	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:17:47	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	188.0	ppm	R
05/17/07	12:17:57	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:18:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	197.8	ppm	R
05/17/07	12:18:17	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	12:18:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:18:37	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:18:47	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	200.2	ppm	R
05/17/07	12:18:57	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	2.5	ppm	R	NOx	197.8	ppm	R
05/17/07	12:19:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	185.6	ppm	R
05/17/07	12:19:17	O2	5.25	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	175.8	ppm	R
05/17/07	12:19:27	O2	5.25	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	195.3	ppm	R
05/17/07	12:19:37	O2	5.49	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	12:19:47	O2	6.10	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:19:57	O2	5.86	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	192.9	ppm	R
05/17/07	12:20:07	O2	5.37	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	202.6	ppm	R
05/17/07	12:20:17	O2	5.00	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	210.0	ppm	R
05/17/07	12:20:27	O2	5.00	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:20:37	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.0	ppm	R	NOx	202.6	ppm	R
05/17/07	12:20:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	207.5	ppm	R

05/17/07	12:20:57	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	12:21:07	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	205.1	ppm	R
05/17/07	12:21:17	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:21:27	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	197.8	ppm	R
05/17/07	12:21:37	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:21:47	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:21:57	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	188.0	ppm	R
05/17/07	12:22:07	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	185.6	ppm	R
05/17/07	12:22:17	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:22:27	O2	5.13	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	12:22:37	O2	5.00	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	180.7	ppm	R
05/17/07	12:22:47	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/17/07	12:22:57	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/17/07	12:23:07	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	0.8	ppm	R	NOx	180.7	ppm	R
05/17/07	12:23:17	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	178.2	ppm	R
05/17/07	12:23:27	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	190.4	ppm	R
05/17/07	12:23:37	O2	5.00	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	188.0	ppm	R
05/17/07	12:23:47	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	178.2	ppm	R
05/17/07	12:23:57	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	175.8	ppm	R
05/17/07	12:24:07	O2	5.13	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	12:24:17	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	183.1	ppm	R
05/17/07	12:24:27	O2	5.00	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:24:37	O2	4.88	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:24:47	O2	5.00	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.8	ppm	R	NOx	207.5	ppm	R
05/17/07	12:24:57	O2	5.00	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:25:07	O2	5.13	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	2.8	ppm	R	NOx	183.1	ppm	R
05/17/07	12:25:17	O2	5.25	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/17/07	12:25:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/17/07	12:25:37	O2	5.49	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	188.0	ppm	R
05/17/07	12:25:47	O2	6.35	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	183.1	ppm	R
05/17/07	12:25:57	O2	5.86	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	183.1	ppm	R
05/17/07	12:26:07	O2	5.25	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	5.1	ppm	R	NOx	192.9	ppm	R
05/17/07	12:26:17	O2	5.13	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	195.3	ppm	R
05/17/07	12:26:27	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	192.9	ppm	R
05/17/07	12:26:37	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.9	ppm	R	NOx	192.9	ppm	R
05/17/07	12:26:47	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:26:57	O2	5.49	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:27:07	O2	5.49	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	207.5	ppm	R
05/17/07	12:27:17	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:27:27	O2	5.49	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	183.1	ppm	R

05/17/07	12:27:37	O2	5.37	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	183.1	ppm	R
05/17/07	12:27:47	O2	5.37	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	185.6	ppm	R
05/17/07	12:27:57	O2	5.37	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	5.6	ppm	R	NOx	190.4	ppm	R
05/17/07	12:28:07	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	3.2	ppm	R	NOx	195.3	ppm	R
05/17/07	12:28:17	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	195.3	ppm	R
05/17/07	12:28:27	O2	5.37	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	5.8	ppm	R	NOx	200.2	ppm	R
05/17/07	12:28:37	O2	5.37	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	5.7	ppm	R	NOx	190.4	ppm	R
05/17/07	12:28:47	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	6.1	ppm	R	NOx	185.6	ppm	R
05/17/07	12:28:57	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	4.1	ppm	R	NOx	183.1	ppm	R
05/17/07	12:29:07	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	4.9	ppm	R	NOx	192.9	ppm	R
05/17/07	12:29:17	O2	5.37	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	12:29:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	197.8	ppm	R
05/17/07	12:29:37	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.2	ppm	R	NOx	200.2	ppm	R
05/17/07	12:29:47	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	195.3	ppm	R
05/17/07	12:29:57	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	197.8	ppm	R
05/17/07	12:30:07	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	4.0	ppm	R	NOx	195.3	ppm	R
05/17/07	12:30:17	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	0.7	ppm	R	NOx	197.8	ppm	R
05/17/07	12:30:27	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	180.7	ppm	R
05/17/07	12:30:37	O2	5.25	%	R	CO2	9.08	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/17/07	12:30:47	O2	5.25	%	R	CO2	9.30	%	R	CO	6.8	ppm	R	THC	1.9	ppm	R	NOx	195.3	ppm	R
05/17/07	12:30:57	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	200.2	ppm	R
05/17/07	12:31:07	O2	5.62	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	6.0	ppm	R	NOx	205.1	ppm	R
05/17/07	12:31:17	O2	5.62	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.3	ppm	R	NOx	202.6	ppm	R
05/17/07	12:31:27	O2	5.37	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	6.1	ppm	R	NOx	207.5	ppm	R
05/17/07	12:31:37	O2	5.13	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	2.5	ppm	R	NOx	195.3	ppm	R
05/17/07	12:31:47	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	195.3	ppm	R
05/17/07	12:31:57	O2	5.13	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	4.7	ppm	R	NOx	190.4	ppm	R
05/17/07	12:32:07	O2	5.13	%	R	CO2	9.23	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	202.6	ppm	R
05/17/07	12:32:17	O2	5.25	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	192.9	ppm	R
05/17/07	12:32:27	O2	5.74	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	6.3	ppm	R	NOx	190.4	ppm	R
05/17/07	12:32:37	O2	5.86	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.6	ppm	R	NOx	180.7	ppm	R
05/17/07	12:32:47	O2	5.49	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:32:57	O2	5.13	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/17/07	12:33:07	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	12:33:17	O2	5.00	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	190.4	ppm	R
05/17/07	12:33:27	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	200.2	ppm	R
05/17/07	12:33:37	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	4.1	ppm	R	NOx	197.8	ppm	R
05/17/07	12:33:47	O2	5.25	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	6.1	ppm	R	NOx	214.8	ppm	R
05/17/07	12:33:57	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	210.0	ppm	R
05/17/07	12:34:07	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	217.3	ppm	R

05/17/07	12:34:17	O2	5.62	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.2	ppm	R	NOx	214.8	ppm	R
05/17/07	12:34:27	O2	5.37	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	2.7	ppm	R	NOx	210.0	ppm	R
05/17/07	12:34:37	O2	5.37	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	200.2	ppm	R
05/17/07	12:34:47	O2	5.37	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	3.9	ppm	R	NOx	190.4	ppm	R
05/17/07	12:34:57	O2	5.25	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	6.1	ppm	R	NOx	185.6	ppm	R
05/17/07	12:35:07	O2	5.25	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	5.1	ppm	R	NOx	183.1	ppm	R
05/17/07	12:35:17	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	5.6	ppm	R	NOx	175.8	ppm	R
05/17/07	12:35:27	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	180.7	ppm	R
05/17/07	12:35:37	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:35:47	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/17/07	12:35:57	O2	5.13	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:36:07	O2	5.13	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:36:17	O2	5.13	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:36:27	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/17/07	12:36:37	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	3.6	ppm	R	NOx	195.3	ppm	R
05/17/07	12:36:47	O2	5.25	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	12:36:57	O2	5.74	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	190.4	ppm	R
05/17/07	12:37:07	O2	5.37	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	4.2	ppm	R	NOx	190.4	ppm	R
05/17/07	12:37:17	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	195.3	ppm	R
05/17/07	12:37:27	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	4.9	ppm	R	NOx	192.9	ppm	R
05/17/07	12:37:37	O2	5.13	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	4.4	ppm	R	NOx	195.3	ppm	R
05/17/07	12:37:47	O2	5.25	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	183.1	ppm	R
05/17/07	12:37:57	O2	5.13	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	175.8	ppm	R
05/17/07	12:38:07	O2	5.00	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	3.4	ppm	R	NOx	180.7	ppm	R
05/17/07	12:38:17	O2	5.00	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	6.5	ppm	R	NOx	188.0	ppm	R
05/17/07	12:38:27	O2	4.88	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	6.2	ppm	R	NOx	192.9	ppm	R
05/17/07	12:38:37	O2	4.88	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.9	ppm	R	NOx	190.4	ppm	R
05/17/07	12:38:47	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	1.4	ppm	R	NOx	185.6	ppm	R
05/17/07	12:38:57	O2	5.00	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	190.4	ppm	R
05/17/07	12:39:07	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	12:39:17	O2	5.13	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:39:27	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	12:39:37	O2	5.13	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.9	ppm	R	NOx	207.5	ppm	R
05/17/07	12:39:47	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	200.2	ppm	R
05/17/07	12:39:57	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	6.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:40:07	O2	5.25	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	178.2	ppm	R
05/17/07	12:40:17	O2	5.25	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	4.8	ppm	R	NOx	175.8	ppm	R
05/17/07	12:40:27	O2	5.13	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	5.6	ppm	R	NOx	185.6	ppm	R
05/17/07	12:40:37	O2	5.00	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	6.6	ppm	R	NOx	175.8	ppm	R
05/17/07	12:40:47	O2	4.88	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	3.1	ppm	R	NOx	180.7	ppm	R

05/17/07	12:40:57	O2	4.88	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	180.7	ppm	R
05/17/07	12:41:07	O2	5.00	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	3.7	ppm	R	NOx	183.1	ppm	R
05/17/07	12:41:17	O2	5.00	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	5.1	ppm	R	NOx	200.2	ppm	R
05/17/07	12:41:27	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	5.0	ppm	R	NOx	185.6	ppm	R
05/17/07	12:41:37	O2	5.13	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	192.9	ppm	R
05/17/07	12:41:47	O2	5.13	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	6.0	ppm	R	NOx	185.6	ppm	R
05/17/07	12:41:57	O2	5.13	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	4.6	ppm	R	NOx	180.7	ppm	R
05/17/07	12:42:07	O2	5.00	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	183.1	ppm	R
05/17/07	12:42:17	O2	4.88	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	4.8	ppm	R	NOx	173.3	ppm	R
05/17/07	12:42:27	O2	4.88	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	3.6	ppm	R	NOx	170.9	ppm	R
05/17/07	12:42:37	O2	4.76	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	3.6	ppm	R	NOx	168.5	ppm	R
05/17/07	12:42:47	O2	4.76	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	2.4	ppm	R	NOx	173.3	ppm	R
05/17/07	12:42:57	O2	4.76	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	3.5	ppm	R	NOx	168.5	ppm	R
05/17/07	12:43:07	O2	4.76	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	2.1	ppm	R	NOx	173.3	ppm	R
05/17/07	12:43:17	O2	4.76	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	2.7	ppm	R	NOx	178.2	ppm	R
05/17/07	12:43:27	O2	4.76	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	5.3	ppm	R	NOx	192.9	ppm	R
05/17/07	12:43:37	O2	4.76	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	6.2	ppm	R	NOx	190.4	ppm	R
05/17/07	12:43:47	O2	4.88	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	4.3	ppm	R	NOx	188.0	ppm	R
05/17/07	12:43:57	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	195.3	ppm	R
05/17/07	12:44:07	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	3.7	ppm	R	NOx	200.2	ppm	R
05/17/07	12:44:17	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	4.4	ppm	R	NOx	200.2	ppm	R
05/17/07	12:44:27	O2	5.00	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	3.8	ppm	R	NOx	200.2	ppm	R
05/17/07	12:44:37	O2	5.00	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	3.1	ppm	R	NOx	195.3	ppm	R
05/17/07	12:44:47	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	5.5	ppm	R	NOx	197.8	ppm	R
05/17/07	12:44:57	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	2.2	ppm	R	NOx	197.8	ppm	R
05/17/07	12:45:07	O2	5.00	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	5.4	ppm	R	NOx	197.8	ppm	R
05/17/07	12:45:17	O2	5.13	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	4.7	ppm	R	NOx	188.0	ppm	R
05/17/07	12:45:27	O2	5.00	%	R	CO2	9.23	%	R	CO	6.8	ppm	R	THC	5.7	ppm	R	NOx	175.8	ppm	R
05/17/07	12:45:37	O2	5.00	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	175.8	ppm	R
05/17/07	12:45:47	O2	5.00	%	R	CO2	9.08	%	R	CO	6.8	ppm	R	THC	0.5	ppm	R	NOx	183.1	ppm	R
05/17/07	12:45:57	O2	5.00	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	12:46:07	O2	5.37	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	192.9	ppm	R
05/17/07	12:46:17	O2	5.62	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	0.4	ppm	R	NOx	190.4	ppm	R
05/17/07	12:46:27	O2	5.86	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	3.9	ppm	R	NOx	202.6	ppm	R
05/17/07	12:46:37	O2	5.62	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	5.4	ppm	R	NOx	207.5	ppm	R
05/17/07	12:46:47	O2	5.13	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	4.4	ppm	R	NOx	212.4	ppm	R
05/17/07	12:46:57	O2	4.88	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	0.8	ppm	R	NOx	210.0	ppm	R
05/17/07	12:47:07	O2	4.76	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/17/07	12:47:17	O2	4.88	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.1	ppm	R	NOx	205.1	ppm	R
05/17/07	12:47:27	O2	4.88	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	2.5	ppm	R	NOx	207.5	ppm	R

05/17/07	12:47:37	O2	5.00	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	207.5	ppm	R
05/17/07	12:47:47	O2	5.13	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/17/07	12:47:57	O2	5.25	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	6.8	ppm	R	NOx	210.0	ppm	R
05/17/07	12:48:07	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.6	ppm	R	NOx	219.7	ppm	R
05/17/07	12:48:17	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	219.7	ppm	R
05/17/07	12:48:27	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	219.7	ppm	R
05/17/07	12:48:37	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	3.6	ppm	R	NOx	217.3	ppm	R
05/17/07	12:48:47	O2	5.25	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	4.7	ppm	R	NOx	217.3	ppm	R
05/17/07	12:48:57	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/17/07	12:49:07	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/17/07	12:49:17	O2	5.25	%	R	CO2	9.52	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/17/07	12:49:27	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	219.7	ppm	R
05/17/07	12:49:37	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	3.9	ppm	R	NOx	224.6	ppm	R
05/17/07	12:49:47	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	224.6	ppm	R
05/17/07	12:49:57	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	3.7	ppm	R	NOx	227.1	ppm	R
05/17/07	12:50:07	O2	5.37	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	224.6	ppm	R
05/17/07	12:50:17	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	217.3	ppm	R
05/17/07	12:50:27	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	2.9	ppm	R	NOx	222.2	ppm	R
05/17/07	12:50:37	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	222.2	ppm	R
05/17/07	12:50:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	229.5	ppm	R
05/17/07	12:50:57	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	5.8	ppm	R	NOx	246.6	ppm	R
05/17/07	12:51:07	O2	5.13	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	231.9	ppm	R
05/17/07	12:51:17	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	5.6	ppm	R	NOx	231.9	ppm	R
05/17/07	12:51:27	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	231.9	ppm	R
05/17/07	12:51:37	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	234.4	ppm	R
05/17/07	12:51:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.0	ppm	R	NOx	249.0	ppm	R
05/17/07	12:51:57	O2	5.13	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	5.5	ppm	R	NOx	251.5	ppm	R
05/17/07	12:52:07	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	241.7	ppm	R
05/17/07	12:52:17	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	244.1	ppm	R
05/17/07	12:52:27	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	12:52:37	O2	5.25	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	4.3	ppm	R	NOx	234.4	ppm	R
05/17/07	12:52:47	O2	5.25	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	2.4	ppm	R	NOx	231.9	ppm	R
05/17/07	12:52:57	O2	5.25	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	7.0	ppm	R	NOx	229.5	ppm	R
05/17/07	12:53:07	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	249.0	ppm	R
05/17/07	12:53:17	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	241.7	ppm	R
05/17/07	12:53:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.3	ppm	R	NOx	241.7	ppm	R
05/17/07	12:53:37	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	239.3	ppm	R
05/17/07	12:53:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	244.1	ppm	R
05/17/07	12:53:57	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	246.6	ppm	R
05/17/07	12:54:07	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	249.0	ppm	R

05/17/07	12:54:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.5	ppm	R	NOx	258.8	ppm	R
05/17/07	12:54:27	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/17/07	12:54:37	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	261.2	ppm	R
05/17/07	12:54:47	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	3.3	ppm	R	NOx	273.4	ppm	R
05/17/07	12:54:57	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	268.6	ppm	R
05/17/07	12:55:07	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.1	ppm	R	NOx	258.8	ppm	R
05/17/07	12:55:17	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	249.0	ppm	R
05/17/07	12:55:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	251.5	ppm	R
05/17/07	12:55:37	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	263.7	ppm	R
05/17/07	12:55:47	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	3.6	ppm	R	NOx	263.7	ppm	R
05/17/07	12:55:57	O2	5.25	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	258.8	ppm	R
05/17/07	12:56:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	256.4	ppm	R
05/17/07	12:56:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	249.0	ppm	R
05/17/07	12:56:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	253.9	ppm	R
05/17/07	12:56:37	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	256.4	ppm	R
05/17/07	12:56:47	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	6.2	ppm	R	NOx	275.9	ppm	R
05/17/07	12:56:57	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	6.8	ppm	R	NOx	268.6	ppm	R
05/17/07	12:57:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	263.7	ppm	R
05/17/07	12:57:17	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/17/07	12:57:27	O2	5.13	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/17/07	12:57:37	O2	5.13	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	273.4	ppm	R
05/17/07	12:57:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	258.8	ppm	R
05/17/07	12:57:57	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.1	ppm	R	NOx	261.2	ppm	R
05/17/07	12:58:07	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	268.6	ppm	R
05/17/07	12:58:17	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.9	ppm	R	NOx	263.7	ppm	R
05/17/07	12:58:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	12:58:37	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/17/07	12:58:47	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	273.4	ppm	R
05/17/07	12:58:57	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	271.0	ppm	R
05/17/07	12:59:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	275.9	ppm	R
05/17/07	12:59:17	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.5	ppm	R	NOx	283.2	ppm	R
05/17/07	12:59:27	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	288.1	ppm	R
05/17/07	12:59:37	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	12:59:47	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	12:59:57	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	2.0	ppm	R	NOx	280.8	ppm	R
05/17/07	13:00:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	288.1	ppm	R
05/17/07	13:00:17	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	268.6	ppm	R
05/17/07	13:00:27	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	263.7	ppm	R
05/17/07	13:00:37	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	268.6	ppm	R
05/17/07	13:00:47	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R

05/17/07	13:00:57	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	278.3	ppm	R
05/17/07	13:01:07	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	2.6	ppm	R	NOx	283.2	ppm	R
05/17/07	13:01:17	O2	5.25	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	290.5	ppm	R
	Avg		5.26				9.40				5.5				3.2				222.6		

das3

GTI
Location G2
DAS Data
Run No. 1 D/F, PCB's

05/17/07	15:45:04	O2	5.74	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	11.8	ppm	R	NOx	271.0	ppm	R
05/17/07	15:45:07	O2	5.62	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	12.6	ppm	R	NOx	275.9	ppm	R
05/17/07	15:45:17	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	12.7	ppm	R	NOx	275.9	ppm	R
05/17/07	15:45:27	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	8.1	ppm	R	NOx	280.8	ppm	R
05/17/07	15:45:37	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	5.6	ppm	R	NOx	273.4	ppm	R
05/17/07	15:45:47	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/17/07	15:45:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/17/07	15:46:07	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/17/07	15:46:17	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	271.0	ppm	R
05/17/07	15:46:27	O2	5.49	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	271.0	ppm	R
05/17/07	15:46:37	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	273.4	ppm	R
05/17/07	15:46:47	O2	5.49	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	283.2	ppm	R
05/17/07	15:46:57	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	278.3	ppm	R
05/17/07	15:47:07	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R
05/17/07	15:47:17	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	300.3	ppm	R
05/17/07	15:47:27	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	300.3	ppm	R
05/17/07	15:47:37	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	285.6	ppm	R
05/17/07	15:47:47	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	297.9	ppm	R
05/17/07	15:47:57	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	285.6	ppm	R
05/17/07	15:48:07	O2	5.74	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	288.1	ppm	R
05/17/07	15:48:17	O2	5.62	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	283.2	ppm	R
05/17/07	15:48:27	O2	5.49	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.3	ppm	R	NOx	275.9	ppm	R
05/17/07	15:48:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	273.4	ppm	R
05/17/07	15:48:47	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/17/07	15:48:57	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	263.7	ppm	R
05/17/07	15:49:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	15:49:17	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	15:49:27	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	266.1	ppm	R
05/17/07	15:49:37	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	4.0	ppm	R	NOx	263.7	ppm	R
05/17/07	15:49:47	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	275.9	ppm	R
05/17/07	15:49:57	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	283.2	ppm	R
05/17/07	15:50:07	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	280.8	ppm	R
05/17/07	15:50:17	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	288.1	ppm	R
05/17/07	15:50:27	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	15:50:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/17/07	15:50:47	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	251.5	ppm	R

05/17/07	15:50:57	O2	5.25	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	15:51:07	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	231.9	ppm	R
05/17/07	15:51:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	222.2	ppm	R
05/17/07	15:51:27	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	222.2	ppm	R
05/17/07	15:51:37	O2	5.13	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	212.4	ppm	R
05/17/07	15:51:47	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	222.2	ppm	R
05/17/07	15:51:57	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	222.2	ppm	R
05/17/07	15:52:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	15:52:17	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	236.8	ppm	R
05/17/07	15:52:27	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	15:52:37	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	15:52:47	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	15:52:57	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	15:53:07	O2	5.62	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	15:53:17	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	15:53:27	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	15:53:37	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	15:53:47	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	15:53:57	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	15:54:07	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	256.4	ppm	R
05/17/07	15:54:17	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	300.3	ppm	R
05/17/07	15:54:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.0	ppm	R	NOx	249.0	ppm	R
05/17/07	15:54:37	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	258.8	ppm	R
05/17/07	15:54:47	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	256.4	ppm	R
05/17/07	15:54:57	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	268.6	ppm	R
05/17/07	15:55:07	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	263.7	ppm	R
05/17/07	15:55:17	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	258.8	ppm	R
05/17/07	15:55:27	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	263.7	ppm	R
05/17/07	15:55:37	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	15:55:47	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	261.2	ppm	R
05/17/07	15:55:57	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	2.4	ppm	R	NOx	244.1	ppm	R
05/17/07	15:56:07	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	234.4	ppm	R
05/17/07	15:56:17	O2	5.37	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	15:56:27	O2	5.37	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/17/07	15:56:37	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/17/07	15:56:47	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	15:56:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	15:57:07	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/17/07	15:57:17	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	15:57:27	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R

05/17/07	15:57:37	O2	5.62	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/17/07	15:57:47	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.0	ppm	R	NOx	256.4	ppm	R
05/17/07	15:57:57	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/17/07	15:58:07	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	15:58:17	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/17/07	15:58:27	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/17/07	15:58:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	231.9	ppm	R
05/17/07	15:58:47	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	-0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	15:58:57	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	231.9	ppm	R
05/17/07	15:59:07	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	219.7	ppm	R
05/17/07	15:59:17	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	15:59:27	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	239.3	ppm	R
05/17/07	15:59:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.6	ppm	R	NOx	239.3	ppm	R
05/17/07	15:59:47	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/17/07	15:59:57	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	261.2	ppm	R
05/17/07	16:00:07	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	266.1	ppm	R
05/17/07	16:00:17	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	273.4	ppm	R
05/17/07	16:00:27	O2	5.86	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	275.9	ppm	R
05/17/07	16:00:37	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	275.9	ppm	R
05/17/07	16:00:47	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	16:00:57	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	4.9	ppm	R	NOx	268.6	ppm	R
05/17/07	16:01:07	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	256.4	ppm	R
05/17/07	16:01:17	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	251.5	ppm	R
05/17/07	16:01:27	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	16:01:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	231.9	ppm	R
05/17/07	16:01:47	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	239.3	ppm	R
05/17/07	16:01:57	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	236.8	ppm	R
05/17/07	16:02:07	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/17/07	16:02:17	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	16:02:27	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	16:02:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	256.4	ppm	R
05/17/07	16:02:47	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	256.4	ppm	R
05/17/07	16:02:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	241.7	ppm	R
05/17/07	16:03:07	O2	5.62	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	236.8	ppm	R
05/17/07	16:03:17	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	231.9	ppm	R
05/17/07	16:03:27	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.6	ppm	R	NOx	231.9	ppm	R
05/17/07	16:03:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	231.9	ppm	R
05/17/07	16:03:47	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	229.5	ppm	R
05/17/07	16:03:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/17/07	16:04:07	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	227.1	ppm	R

05/17/07	16:04:17	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	227.1	ppm	R
05/17/07	16:04:27	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.6	ppm	R	NOx	227.1	ppm	R
05/17/07	16:04:37	O2	5.98	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/17/07	16:04:47	O2	6.47	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/17/07	16:04:57	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	244.1	ppm	R
05/17/07	16:05:07	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	246.6	ppm	R
05/17/07	16:05:17	O2	5.62	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	246.6	ppm	R
05/17/07	16:05:27	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.7	ppm	R	NOx	271.0	ppm	R
05/17/07	16:05:37	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	256.4	ppm	R
05/17/07	16:05:47	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	256.4	ppm	R
05/17/07	16:05:57	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.2	ppm	R	NOx	251.5	ppm	R
05/17/07	16:06:07	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	253.9	ppm	R
05/17/07	16:06:17	O2	5.74	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	253.9	ppm	R
05/17/07	16:06:27	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	16:06:37	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	16:06:47	O2	5.62	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	16:06:57	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	258.8	ppm	R
05/17/07	16:07:07	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	261.2	ppm	R
05/17/07	16:07:17	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	268.6	ppm	R
05/17/07	16:07:27	O2	5.86	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	273.4	ppm	R
05/17/07	16:07:37	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	275.9	ppm	R
05/17/07	16:07:47	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	266.1	ppm	R
05/17/07	16:07:57	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	16:08:07	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	261.2	ppm	R
05/17/07	16:08:17	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	268.6	ppm	R
05/17/07	16:08:27	O2	5.74	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	273.4	ppm	R
05/17/07	16:08:37	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/17/07	16:08:47	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	275.9	ppm	R
05/17/07	16:08:57	O2	5.74	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/17/07	16:09:07	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	275.9	ppm	R
05/17/07	16:09:17	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/17/07	16:09:27	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	275.9	ppm	R
05/17/07	16:09:37	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	1.0	ppm	R	NOx	295.4	ppm	R
05/17/07	16:09:47	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	16:09:57	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	293.0	ppm	R
05/17/07	16:10:07	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	290.5	ppm	R
05/17/07	16:10:17	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	290.5	ppm	R
05/17/07	16:10:27	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	16:10:37	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	290.5	ppm	R
05/17/07	16:10:47	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	285.6	ppm	R

05/17/07	16:10:57	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	285.6	ppm	R
05/17/07	16:11:07	O2	5.74	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	275.9	ppm	R
05/17/07	16:11:17	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:11:27	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:11:37	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:11:47	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	273.4	ppm	R
05/17/07	16:11:57	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/17/07	16:12:07	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	275.9	ppm	R
05/17/07	16:12:17	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	283.2	ppm	R
05/17/07	16:12:27	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	16:12:37	O2	5.86	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	278.3	ppm	R
05/17/07	16:12:47	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	275.9	ppm	R
05/17/07	16:12:57	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:13:07	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	1.0	ppm	R	NOx	283.2	ppm	R
05/17/07	16:13:17	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:13:27	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	283.2	ppm	R
05/17/07	16:13:37	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	16:13:47	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:13:57	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	275.9	ppm	R
05/17/07	16:14:07	O2	5.74	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	283.2	ppm	R
05/17/07	16:14:17	O2	5.86	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	290.5	ppm	R
05/17/07	16:14:27	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	297.9	ppm	R
05/17/07	16:14:37	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	302.7	ppm	R
05/17/07	16:14:47	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	307.6	ppm	R
05/17/07	16:14:57	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	3.9	ppm	R	NOx	293.0	ppm	R
05/17/07	16:15:07	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	297.9	ppm	R
05/17/07	16:15:17	O2	5.86	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	300.3	ppm	R
05/17/07	16:15:27	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	297.9	ppm	R
05/17/07	16:15:37	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	295.4	ppm	R
05/17/07	16:15:47	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	295.4	ppm	R
05/17/07	16:15:57	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	4.0	ppm	R	NOx	293.0	ppm	R
05/17/07	16:16:07	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	295.4	ppm	R
05/17/07	16:16:17	O2	5.74	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	4.0	ppm	R	NOx	290.5	ppm	R
05/17/07	16:16:27	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	2.6	ppm	R	NOx	288.1	ppm	R
05/17/07	16:16:37	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	280.8	ppm	R
05/17/07	16:16:47	O2	5.98	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	285.6	ppm	R
05/17/07	16:16:57	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	293.0	ppm	R
05/17/07	16:17:07	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	314.9	ppm	R
05/17/07	16:17:17	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	319.8	ppm	R
05/17/07	16:17:27	O2	6.10	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	2.9	ppm	R	NOx	312.5	ppm	R

05/17/07	16:17:37	O2	6.10	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	314.9	ppm	R
05/17/07	16:17:47	O2	5.98	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	302.7	ppm	R
05/17/07	16:17:57	O2	5.98	%	R	CO2	8.57	%	R	CO	4.9	ppm	R	THC	4.3	ppm	R	NOx	310.1	ppm	R
05/17/07	16:18:07	O2	5.98	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	305.2	ppm	R
05/17/07	16:18:17	O2	5.98	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	310.1	ppm	R
05/17/07	16:18:27	O2	5.98	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	1.6	ppm	R	NOx	317.4	ppm	R
05/17/07	16:18:37	O2	5.86	%	R	CO2	8.64	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	300.3	ppm	R
05/17/07	16:18:47	O2	5.74	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	295.4	ppm	R
05/17/07	16:18:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	278.3	ppm	R
05/17/07	16:19:07	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	258.8	ppm	R
05/17/07	16:19:17	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	256.4	ppm	R
05/17/07	16:19:27	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	258.8	ppm	R
05/17/07	16:19:37	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	4.7	ppm	R	NOx	263.7	ppm	R
05/17/07	16:19:47	O2	5.86	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.1	ppm	R	NOx	280.8	ppm	R
05/17/07	16:19:57	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	283.2	ppm	R
05/17/07	16:20:07	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	280.8	ppm	R
05/17/07	16:20:17	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	266.1	ppm	R
05/17/07	16:20:27	O2	5.49	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.0	ppm	R	NOx	249.0	ppm	R
05/17/07	16:20:37	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.0	ppm	R	NOx	231.9	ppm	R
05/17/07	16:20:47	O2	5.62	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	229.5	ppm	R
05/17/07	16:20:57	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	16:21:07	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	231.9	ppm	R
05/17/07	16:21:17	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.1	ppm	R	NOx	229.5	ppm	R
05/17/07	16:21:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	16:21:37	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/17/07	16:21:47	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	224.6	ppm	R
05/17/07	16:21:57	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	219.7	ppm	R
05/17/07	16:22:07	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	219.7	ppm	R
05/17/07	16:22:17	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	7.2	ppm	R	NOx	219.7	ppm	R
05/17/07	16:22:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	9.5	ppm	R	NOx	222.2	ppm	R
05/17/07	16:22:37	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	6.9	ppm	R	NOx	224.6	ppm	R
05/17/07	16:22:47	O2	5.86	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	10.0	ppm	R	NOx	227.1	ppm	R
05/17/07	16:22:57	O2	5.86	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	229.5	ppm	R
05/17/07	16:23:07	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	236.8	ppm	R
05/17/07	16:23:17	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	11.2	ppm	R	NOx	239.3	ppm	R
05/17/07	16:23:27	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	8.1	ppm	R	NOx	258.8	ppm	R
05/17/07	16:23:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.4	ppm	R	NOx	251.5	ppm	R
05/17/07	16:23:47	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	256.4	ppm	R
05/17/07	16:23:57	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	3.3	ppm	R	NOx	251.5	ppm	R
05/17/07	16:24:07	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.0	ppm	R	NOx	246.6	ppm	R

05/17/07	16:24:17	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	0.6	ppm	R	NOx	234.4	ppm	R
05/17/07	16:24:27	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	234.4	ppm	R
05/17/07	16:24:37	O2	5.86	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	239.3	ppm	R
05/17/07	16:24:47	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	6.3	ppm	R	NOx	246.6	ppm	R
05/17/07	16:24:57	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/17/07	16:25:07	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	251.5	ppm	R
05/17/07	16:25:17	O2	5.98	%	R	CO2	8.72	%	R	CO	4.9	ppm	R	THC	5.3	ppm	R	NOx	256.4	ppm	R
05/17/07	16:25:27	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	16:25:37	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/17/07	16:25:47	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	261.2	ppm	R
05/17/07	16:25:57	O2	5.98	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	8.7	ppm	R	NOx	258.8	ppm	R
05/17/07	16:26:07	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	9.9	ppm	R	NOx	263.7	ppm	R
05/17/07	16:26:17	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	9.3	ppm	R	NOx	256.4	ppm	R
05/17/07	16:26:27	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	249.0	ppm	R
05/17/07	16:26:37	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	251.5	ppm	R
05/17/07	16:26:47	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	256.4	ppm	R
05/17/07	16:26:57	O2	5.98	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	8.9	ppm	R	NOx	261.2	ppm	R
05/17/07	16:27:07	O2	5.86	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	8.3	ppm	R	NOx	251.5	ppm	R
05/17/07	16:27:17	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	7.1	ppm	R	NOx	241.7	ppm	R
05/17/07	16:27:27	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	7.8	ppm	R	NOx	241.7	ppm	R
05/17/07	16:27:37	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	5.2	ppm	R	NOx	246.6	ppm	R
05/17/07	16:27:47	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	249.0	ppm	R
05/17/07	16:27:57	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	244.1	ppm	R
05/17/07	16:28:07	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	-0.0	ppm	R	NOx	253.9	ppm	R
05/17/07	16:28:17	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	249.0	ppm	R
05/17/07	16:28:27	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.3	ppm	R	NOx	239.3	ppm	R
05/17/07	16:28:37	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	241.7	ppm	R
05/17/07	16:28:47	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	244.1	ppm	R
05/17/07	16:28:57	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	241.7	ppm	R
05/17/07	16:29:07	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	244.1	ppm	R
05/17/07	16:29:17	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	7.2	ppm	R	NOx	251.5	ppm	R
05/17/07	16:29:27	O2	5.86	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	251.5	ppm	R
05/17/07	16:29:37	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	253.9	ppm	R
05/17/07	16:29:47	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	246.6	ppm	R
05/17/07	16:29:57	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	3.9	ppm	R	NOx	224.6	ppm	R
05/17/07	16:30:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	212.4	ppm	R
05/17/07	16:30:17	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	207.5	ppm	R
05/17/07	16:30:27	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.2	ppm	R	NOx	205.1	ppm	R
05/17/07	16:30:37	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	210.0	ppm	R
05/17/07	16:30:47	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	197.8	ppm	R

05/17/07	16:30:57	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	6.2	ppm	R	NOx	200.2	ppm	R
05/17/07	16:31:07	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	188.0	ppm	R
05/17/07	16:31:17	O2	5.74	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	180.7	ppm	R
05/17/07	16:31:27	O2	6.59	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	175.8	ppm	R
05/17/07	16:31:37	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	183.1	ppm	R
05/17/07	16:31:47	O2	6.35	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	5.5	ppm	R	NOx	185.6	ppm	R
05/17/07	16:31:57	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	190.4	ppm	R
05/17/07	16:32:07	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	185.6	ppm	R
05/17/07	16:32:17	O2	5.37	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	192.9	ppm	R
05/17/07	16:32:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	200.2	ppm	R
05/17/07	16:32:37	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	195.3	ppm	R
05/17/07	16:32:47	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	16:32:57	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	190.4	ppm	R
05/17/07	16:33:07	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.9	ppm	R	NOx	195.3	ppm	R
05/17/07	16:33:17	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	197.8	ppm	R
05/17/07	16:33:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	197.8	ppm	R
05/17/07	16:33:37	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	195.3	ppm	R
05/17/07	16:33:47	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/17/07	16:33:57	O2	5.49	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/17/07	16:34:07	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	6.1	ppm	R	NOx	180.7	ppm	R
05/17/07	16:34:17	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.1	ppm	R	NOx	180.7	ppm	R
05/17/07	16:34:27	O2	5.62	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/17/07	16:34:37	O2	5.74	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	190.4	ppm	R
05/17/07	16:34:47	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	192.9	ppm	R
05/17/07	16:34:57	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	192.9	ppm	R
05/17/07	16:35:07	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	192.9	ppm	R
05/17/07	16:35:17	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	16:35:27	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	200.2	ppm	R
05/17/07	16:35:37	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	27.1	ppm	R	NOx	205.1	ppm	R
05/17/07	16:35:47	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	57.7	ppm	R	NOx	205.1	ppm	R
05/17/07	16:35:57	O2	5.74	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	26.8	ppm	R	NOx	207.5	ppm	R
05/17/07	16:36:07	O2	5.86	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	13.7	ppm	R	NOx	212.4	ppm	R
05/17/07	16:36:17	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	6.8	ppm	R	NOx	210.0	ppm	R
05/17/07	16:36:27	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	9.4	ppm	R	NOx	200.2	ppm	R
05/17/07	16:36:37	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	195.3	ppm	R
05/17/07	16:36:47	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	11.6	ppm	R	NOx	185.6	ppm	R
05/17/07	16:36:57	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	5.0	ppm	R	NOx	183.1	ppm	R
05/17/07	16:37:07	O2	5.37	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	9.7	ppm	R	NOx	180.7	ppm	R
05/17/07	16:37:17	O2	5.62	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	4.0	ppm	R	NOx	185.6	ppm	R
05/17/07	16:37:27	O2	5.62	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	190.4	ppm	R

05/17/07	16:37:37	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	10.3	ppm	R	NOx	185.6	ppm	R
05/17/07	16:37:47	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	8.8	ppm	R	NOx	185.6	ppm	R
05/17/07	16:37:57	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.7	ppm	R	NOx	185.6	ppm	R
05/17/07	16:38:07	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	185.6	ppm	R
05/17/07	16:38:17	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	180.7	ppm	R
05/17/07	16:38:27	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	173.3	ppm	R
05/17/07	16:38:37	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	175.8	ppm	R
05/17/07	16:38:47	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	180.7	ppm	R
05/17/07	16:38:57	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	185.6	ppm	R
05/17/07	16:39:07	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	197.8	ppm	R
05/17/07	16:39:17	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	197.8	ppm	R
05/17/07	16:39:27	O2	5.98	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	205.1	ppm	R
05/17/07	16:39:37	O2	5.98	%	R	CO2	8.94	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	16:39:47	O2	5.98	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	210.0	ppm	R
05/17/07	16:39:57	O2	6.10	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	217.3	ppm	R
05/17/07	16:40:07	O2	6.10	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	212.4	ppm	R
05/17/07	16:40:17	O2	6.10	%	R	CO2	8.79	%	R	CO	4.9	ppm	R	THC	0.4	ppm	R	NOx	214.8	ppm	R
05/17/07	16:40:27	O2	6.10	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	1.3	ppm	R	NOx	217.3	ppm	R
05/17/07	16:40:37	O2	5.98	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	5.8	ppm	R	NOx	222.2	ppm	R
05/17/07	16:40:47	O2	5.98	%	R	CO2	8.86	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/17/07	16:40:57	O2	5.86	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	5.9	ppm	R	NOx	205.1	ppm	R
05/17/07	16:41:07	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/17/07	16:41:17	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	2.9	ppm	R	NOx	183.1	ppm	R
05/17/07	16:41:27	O2	5.62	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.6	ppm	R	NOx	178.2	ppm	R
05/17/07	16:41:37	O2	5.62	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	178.2	ppm	R
05/17/07	16:41:47	O2	5.62	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	188.0	ppm	R
05/17/07	16:41:57	O2	5.62	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/17/07	16:42:07	O2	5.74	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/17/07	16:42:17	O2	5.74	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/17/07	16:42:27	O2	5.74	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	195.3	ppm	R
05/17/07	16:42:37	O2	5.86	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	6.1	ppm	R	NOx	192.9	ppm	R
05/17/07	16:42:47	O2	5.86	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	13.6	ppm	R	NOx	192.9	ppm	R
05/17/07	16:42:57	O2	5.74	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	8.0	ppm	R	NOx	190.4	ppm	R
05/17/07	16:43:07	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	10.0	ppm	R	NOx	188.0	ppm	R
05/17/07	16:43:17	O2	5.49	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	185.6	ppm	R
05/17/07	16:43:27	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	9.7	ppm	R	NOx	178.2	ppm	R
05/17/07	16:43:37	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	9.0	ppm	R	NOx	183.1	ppm	R
05/17/07	16:43:47	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	8.6	ppm	R	NOx	195.3	ppm	R
05/17/07	16:43:57	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	5.0	ppm	R	NOx	188.0	ppm	R
05/17/07	16:44:07	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	180.7	ppm	R

05/17/07	16:44:17	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	175.8	ppm	R
05/17/07	16:44:27	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	173.3	ppm	R
05/17/07	16:44:37	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	178.2	ppm	R
05/17/07	16:44:47	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	175.8	ppm	R
05/17/07	16:44:57	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/17/07	16:45:07	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	0.2	ppm	R	NOx	183.1	ppm	R
05/17/07	16:45:17	O2	5.49	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	185.6	ppm	R
05/17/07	16:45:27	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/17/07	16:45:37	O2	5.62	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	183.1	ppm	R
05/17/07	16:45:47	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	192.9	ppm	R
05/17/07	16:45:57	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	16.1	ppm	R	NOx	192.9	ppm	R
05/17/07	16:46:07	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	14.0	ppm	R	NOx	192.9	ppm	R
05/17/07	16:46:17	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	12.0	ppm	R	NOx	183.1	ppm	R
05/17/07	16:46:27	O2	5.37	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	11.2	ppm	R	NOx	178.2	ppm	R
05/17/07	16:46:37	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	9.8	ppm	R	NOx	175.8	ppm	R
05/17/07	16:46:47	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	7.1	ppm	R	NOx	175.8	ppm	R
05/17/07	16:46:57	O2	5.37	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	173.3	ppm	R
05/17/07	16:47:07	O2	5.49	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	173.3	ppm	R
05/17/07	16:47:17	O2	5.49	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	178.2	ppm	R
05/17/07	16:47:27	O2	5.49	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	185.6	ppm	R
05/17/07	16:47:37	O2	5.49	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	192.9	ppm	R
05/17/07	16:47:47	O2	5.62	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	0.5	ppm	R	NOx	180.7	ppm	R
05/17/07	16:47:57	O2	5.62	%	R	CO2	9.30	%	R	CO	4.9	ppm	R	THC	2.8	ppm	R	NOx	188.0	ppm	R
05/17/07	16:48:07	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	200.2	ppm	R
05/17/07	16:48:17	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	200.2	ppm	R
05/17/07	16:48:27	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	190.4	ppm	R
05/17/07	16:48:37	O2	5.62	%	R	CO2	9.23	%	R	CO	4.9	ppm	R	THC	3.0	ppm	R	NOx	188.0	ppm	R
05/17/07	16:48:47	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	202.6	ppm	R
05/17/07	16:48:57	O2	5.74	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	2.8	ppm	R	NOx	195.3	ppm	R
05/17/07	16:49:07	O2	5.62	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	1.1	ppm	R	NOx	205.1	ppm	R
05/17/07	16:49:17	O2	5.62	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	3.5	ppm	R	NOx	210.0	ppm	R
05/17/07	16:49:28	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	212.4	ppm	R
05/17/07	16:49:37	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	16:49:47	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/17/07	16:49:57	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/17/07	16:50:07	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	16:50:17	O2	5.74	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/17/07	16:50:27	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	4.1	ppm	R	NOx	214.8	ppm	R
05/17/07	16:50:37	O2	5.74	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	1.4	ppm	R	NOx	207.5	ppm	R
05/17/07	16:50:47	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	207.5	ppm	R

05/17/07	16:50:57	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	212.4	ppm	R
05/17/07	16:51:07	O2	5.62	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	19.5	ppm	R	NOx	217.3	ppm	R
05/17/07	16:51:17	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	29.1	ppm	R	NOx	212.4	ppm	R
05/17/07	16:51:27	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	17.5	ppm	R	NOx	207.5	ppm	R
05/17/07	16:51:37	O2	5.49	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	12.8	ppm	R	NOx	207.5	ppm	R
05/17/07	16:51:47	O2	5.49	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	10.2	ppm	R	NOx	210.0	ppm	R
05/17/07	16:51:57	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	7.6	ppm	R	NOx	210.0	ppm	R
05/17/07	16:52:07	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	8.9	ppm	R	NOx	214.8	ppm	R
05/17/07	16:52:17	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	8.1	ppm	R	NOx	219.7	ppm	R
05/17/07	16:52:27	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	8.3	ppm	R	NOx	222.2	ppm	R
05/17/07	16:52:37	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	8.1	ppm	R	NOx	219.7	ppm	R
05/17/07	16:52:47	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	219.7	ppm	R
05/17/07	16:52:57	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	222.2	ppm	R
05/17/07	16:53:07	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	231.9	ppm	R
05/17/07	16:53:17	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	1.5	ppm	R	NOx	222.2	ppm	R
05/17/07	16:53:27	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	222.2	ppm	R
05/17/07	16:53:37	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	219.7	ppm	R
05/17/07	16:53:47	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	6.3	ppm	R	NOx	224.6	ppm	R
05/17/07	16:53:57	O2	5.49	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	219.7	ppm	R
05/17/07	16:54:07	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	2.5	ppm	R	NOx	227.1	ppm	R
05/17/07	16:54:17	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	227.1	ppm	R
05/17/07	16:54:27	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	231.9	ppm	R
05/17/07	16:54:37	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	229.5	ppm	R
05/17/07	16:54:47	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	4.5	ppm	R	NOx	224.6	ppm	R
05/17/07	16:54:57	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	6.2	ppm	R	NOx	222.2	ppm	R
05/17/07	16:55:07	O2	5.37	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	10.5	ppm	R	NOx	222.2	ppm	R
05/17/07	16:55:17	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	37.8	ppm	R	NOx	217.3	ppm	R
05/17/07	16:55:27	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	23.2	ppm	R	NOx	222.2	ppm	R
05/17/07	16:55:37	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	12.0	ppm	R	NOx	222.2	ppm	R
05/17/07	16:55:47	O2	5.49	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	6.9	ppm	R	NOx	224.6	ppm	R
05/17/07	16:55:57	O2	5.37	%	R	CO2	9.08	%	R	CO	4.9	ppm	R	THC	5.5	ppm	R	NOx	227.1	ppm	R
05/17/07	16:56:07	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	224.6	ppm	R
05/17/07	16:56:17	O2	5.37	%	R	CO2	9.16	%	R	CO	4.9	ppm	R	THC	3.6	ppm	R	NOx	224.6	ppm	R
05/17/07	16:56:27	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	227.1	ppm	R
05/17/07	16:56:37	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	234.4	ppm	R
05/17/07	16:56:47	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	234.4	ppm	R
05/17/07	16:56:57	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	234.4	ppm	R
05/17/07	16:57:07	O2	5.25	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	231.9	ppm	R
05/17/07	16:57:17	O2	5.37	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	5.1	ppm	R	NOx	236.8	ppm	R
05/17/07	16:57:27	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	241.7	ppm	R

05/17/07	16:57:37	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	244.1	ppm	R
05/17/07	16:57:47	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.0	ppm	R	NOx	249.0	ppm	R
05/17/07	16:57:57	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	251.5	ppm	R
05/17/07	16:58:07	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/17/07	16:58:17	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	253.9	ppm	R
05/17/07	16:58:27	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	244.1	ppm	R
05/17/07	16:58:37	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	4.6	ppm	R	NOx	241.7	ppm	R
05/17/07	16:58:47	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	234.4	ppm	R
05/17/07	16:58:57	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	234.4	ppm	R
05/17/07	16:59:07	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.5	ppm	R	NOx	241.7	ppm	R
05/17/07	16:59:17	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	241.7	ppm	R
05/17/07	16:59:27	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/17/07	16:59:37	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	6.1	ppm	R	NOx	244.1	ppm	R
05/17/07	16:59:47	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	244.1	ppm	R
05/17/07	16:59:57	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	13.7	ppm	R	NOx	253.9	ppm	R
05/17/07	17:00:07	O2	5.74	%	R	CO2	9.01	%	R	CO	4.9	ppm	R	THC	15.4	ppm	R	NOx	249.0	ppm	R
05/17/07	17:00:17	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	9.5	ppm	R	NOx	253.9	ppm	R
05/17/07	17:00:27	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	13.9	ppm	R	NOx	256.4	ppm	R
05/17/07	17:00:37	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	11.1	ppm	R	NOx	268.6	ppm	R
05/17/07	17:00:47	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	12.4	ppm	R	NOx	256.4	ppm	R
05/17/07	17:00:57	O2	5.49	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	14.3	ppm	R	NOx	258.8	ppm	R
05/17/07	17:01:07	O2	5.62	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	7.8	ppm	R	NOx	251.5	ppm	R
05/17/07	17:01:17	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	10.8	ppm	R	NOx	246.6	ppm	R
05/17/07	17:01:27	O2	5.74	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	5.1	ppm	R	NOx	261.2	ppm	R
05/17/07	17:01:37	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	9.4	ppm	R	NOx	266.1	ppm	R
05/17/07	17:01:47	O2	5.62	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	273.4	ppm	R
05/17/07	17:01:57	O2	5.62	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.7	ppm	R	NOx	266.1	ppm	R
05/17/07	17:02:07	O2	5.37	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	7.9	ppm	R	NOx	244.1	ppm	R
05/17/07	17:02:17	O2	5.00	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	2.8	ppm	R	NOx	214.8	ppm	R
05/17/07	17:02:27	O2	4.88	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	4.6	ppm	R	NOx	202.6	ppm	R
05/17/07	17:02:37	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	3.1	ppm	R	NOx	195.3	ppm	R
05/17/07	17:02:47	O2	5.25	%	R	CO2	9.45	%	R	CO	6.8	ppm	R	THC	2.4	ppm	R	NOx	195.3	ppm	R
05/17/07	17:02:57	O2	5.37	%	R	CO2	9.37	%	R	CO	6.8	ppm	R	THC	6.9	ppm	R	NOx	197.8	ppm	R
05/17/07	17:03:07	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	6.7	ppm	R	NOx	197.8	ppm	R
05/17/07	17:03:17	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.2	ppm	R	NOx	183.1	ppm	R
05/17/07	17:03:27	O2	4.88	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	168.5	ppm	R
05/17/07	17:03:37	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	166.0	ppm	R
05/17/07	17:03:47	O2	4.76	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	161.1	ppm	R
05/17/07	17:03:57	O2	4.76	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	6.2	ppm	R	NOx	156.3	ppm	R
05/17/07	17:04:07	O2	4.76	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	5.7	ppm	R	NOx	153.8	ppm	R

05/17/07	17:04:17	O2	4.76	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	4.1	ppm	R	NOx	158.7	ppm	R
05/17/07	17:04:27	O2	4.88	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	1.6	ppm	R	NOx	153.8	ppm	R
05/17/07	17:04:37	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	158.7	ppm	R
05/17/07	17:04:47	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	161.1	ppm	R
05/17/07	17:04:57	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	7.2	ppm	R	NOx	170.9	ppm	R
05/17/07	17:05:07	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	170.9	ppm	R
05/17/07	17:05:17	O2	5.25	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	178.2	ppm	R
05/17/07	17:05:27	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	173.3	ppm	R
05/17/07	17:05:37	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	168.5	ppm	R
05/17/07	17:05:47	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	158.7	ppm	R
05/17/07	17:05:57	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	156.3	ppm	R
05/17/07	17:06:07	O2	5.00	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	153.8	ppm	R
05/17/07	17:06:17	O2	4.88	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	8.5	ppm	R	NOx	153.8	ppm	R
05/17/07	17:06:27	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	151.4	ppm	R
05/17/07	17:06:37	O2	4.88	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	9.4	ppm	R	NOx	148.9	ppm	R
05/17/07	17:06:47	O2	4.64	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	8.8	ppm	R	NOx	144.0	ppm	R
05/17/07	17:06:57	O2	4.64	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	1.6	ppm	R	NOx	148.9	ppm	R
05/17/07	17:07:07	O2	5.00	%	R	CO2	9.74	%	R	CO	7.8	ppm	R	THC	8.0	ppm	R	NOx	146.5	ppm	R
05/17/07	17:07:17	O2	5.13	%	R	CO2	9.59	%	R	CO	7.8	ppm	R	THC	1.9	ppm	R	NOx	146.5	ppm	R
05/17/07	17:07:27	O2	5.13	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	2.9	ppm	R	NOx	148.9	ppm	R
05/17/07	17:07:37	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	5.6	ppm	R	NOx	148.9	ppm	R
05/17/07	17:07:47	O2	5.13	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.4	ppm	R	NOx	151.4	ppm	R
05/17/07	17:07:57	O2	4.88	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	7.7	ppm	R	NOx	148.9	ppm	R
05/17/07	17:08:07	O2	4.76	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	7.0	ppm	R	NOx	144.0	ppm	R
05/17/07	17:08:17	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	139.2	ppm	R
05/17/07	17:08:27	O2	4.76	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.7	ppm	R	NOx	144.0	ppm	R
05/17/07	17:08:37	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	134.3	ppm	R
05/17/07	17:08:47	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/17/07	17:08:57	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	7.3	ppm	R	NOx	136.7	ppm	R
05/17/07	17:09:07	O2	4.76	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	45.9	ppm	R	NOx	134.3	ppm	R
05/17/07	17:09:17	O2	4.76	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	31.6	ppm	R	NOx	134.3	ppm	R
05/17/07	17:09:27	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	14.1	ppm	R	NOx	127.0	ppm	R
05/17/07	17:09:37	O2	4.52	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	127.0	ppm	R
05/17/07	17:09:47	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	3.4	ppm	R	NOx	129.4	ppm	R
05/17/07	17:09:57	O2	4.76	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	129.4	ppm	R
05/17/07	17:10:07	O2	4.76	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	1.8	ppm	R	NOx	127.0	ppm	R
05/17/07	17:10:17	O2	4.76	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.9	ppm	R	NOx	127.0	ppm	R
05/17/07	17:10:27	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	7.1	ppm	R	NOx	124.5	ppm	R
05/17/07	17:10:37	O2	4.52	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.4	ppm	R	NOx	119.6	ppm	R
05/17/07	17:10:47	O2	4.52	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	2.7	ppm	R	NOx	114.8	ppm	R

05/17/07	17:10:57	O2	4.39	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	3.5	ppm	R	NOx	114.8	ppm	R
05/17/07	17:11:07	O2	4.27	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	6.1	ppm	R	NOx	117.2	ppm	R
05/17/07	17:11:17	O2	4.27	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	0.8	ppm	R	NOx	112.3	ppm	R
05/17/07	17:11:27	O2	4.27	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	3.0	ppm	R	NOx	117.2	ppm	R
05/17/07	17:11:37	O2	4.27	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	-0.0	ppm	R	NOx	114.8	ppm	R
05/17/07	17:11:47	O2	4.52	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.4	ppm	R	NOx	117.2	ppm	R
05/17/07	17:11:57	O2	4.52	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	117.2	ppm	R
05/17/07	17:12:07	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.9	ppm	R	NOx	117.2	ppm	R
05/17/07	17:12:17	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	7.4	ppm	R	NOx	122.1	ppm	R
05/17/07	17:12:27	O2	4.76	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	124.5	ppm	R
05/17/07	17:12:37	O2	4.76	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	6.9	ppm	R	NOx	122.1	ppm	R
05/17/07	17:12:47	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	3.3	ppm	R	NOx	117.2	ppm	R
05/17/07	17:12:57	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	3.5	ppm	R	NOx	114.8	ppm	R
05/17/07	17:13:07	O2	4.64	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	5.2	ppm	R	NOx	122.1	ppm	R
05/17/07	17:13:17	O2	4.64	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	117.2	ppm	R
05/17/07	17:13:27	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	117.2	ppm	R
05/17/07	17:13:37	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	5.0	ppm	R	NOx	117.2	ppm	R
05/17/07	17:13:47	O2	4.64	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.8	ppm	R	NOx	117.2	ppm	R
05/17/07	17:13:57	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	2.8	ppm	R	NOx	117.2	ppm	R
05/17/07	17:14:07	O2	4.76	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.7	ppm	R	NOx	117.2	ppm	R
05/17/07	17:14:17	O2	4.64	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	6.9	ppm	R	NOx	117.2	ppm	R
05/17/07	17:14:27	O2	4.52	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.5	ppm	R	NOx	114.8	ppm	R
05/17/07	17:14:37	O2	4.64	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	13.5	ppm	R	NOx	119.6	ppm	R
05/17/07	17:14:47	O2	4.64	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	54.0	ppm	R	NOx	117.2	ppm	R
05/17/07	17:14:57	O2	4.52	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	57.9	ppm	R	NOx	109.9	ppm	R
05/17/07	17:15:07	O2	4.52	%	R	CO2	10.47	%	R	CO	6.8	ppm	R	THC	29.2	ppm	R	NOx	107.4	ppm	R
05/17/07	17:15:17	O2	4.52	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	14.6	ppm	R	NOx	109.9	ppm	R
05/17/07	17:15:27	O2	4.52	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	7.5	ppm	R	NOx	109.9	ppm	R
05/17/07	17:15:37	O2	4.52	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	109.9	ppm	R
05/17/07	17:15:47	O2	4.52	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	9.1	ppm	R	NOx	102.5	ppm	R
05/17/07	17:15:57	O2	6.23	%	R	CO2	9.23	%	R	CO	6.8	ppm	R	THC	9.1	ppm	R	NOx	95.2	ppm	R
05/17/07	17:16:07	O2	6.84	%	R	CO2	8.79	%	R	CO	6.8	ppm	R	THC	4.6	ppm	R	NOx	92.8	ppm	R
05/17/07	17:16:17	O2	6.71	%	R	CO2	9.23	%	R	CO	6.8	ppm	R	THC	4.7	ppm	R	NOx	97.7	ppm	R
05/17/07	17:16:27	O2	4.76	%	R	CO2	10.55	%	R	CO	10.7	ppm	R	THC	7.2	ppm	R	NOx	102.5	ppm	R
05/17/07	17:16:37	O2	3.78	%	R	CO2	11.06	%	R	CO	38.1	ppm	R	THC	9.1	ppm	R	NOx	100.1	ppm	R
05/17/07	17:16:47	O2	4.03	%	R	CO2	10.77	%	R	CO	75.2	ppm	R	THC	7.5	ppm	R	NOx	105.0	ppm	R
05/17/07	17:16:57	O2	4.64	%	R	CO2	10.40	%	R	CO	85.0	ppm	R	THC	4.7	ppm	R	NOx	112.3	ppm	R
05/17/07	17:17:07	O2	5.00	%	R	CO2	10.18	%	R	CO	65.4	ppm	R	THC	3.9	ppm	R	NOx	107.4	ppm	R
05/17/07	17:17:17	O2	5.25	%	R	CO2	10.03	%	R	CO	41.0	ppm	R	THC	7.8	ppm	R	NOx	112.3	ppm	R
05/17/07	17:17:27	O2	5.25	%	R	CO2	9.96	%	R	CO	23.4	ppm	R	THC	4.3	ppm	R	NOx	114.8	ppm	R

05/17/07	17:17:37	O2	5.37	%	R	CO2	9.89	%	R	CO	14.7	ppm	R	THC	6.1	ppm	R	NOx	114.8	ppm	R
05/17/07	17:17:47	O2	5.25	%	R	CO2	9.89	%	R	CO	9.8	ppm	R	THC	4.3	ppm	R	NOx	119.6	ppm	R
05/17/07	17:17:57	O2	5.25	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	4.1	ppm	R	NOx	112.3	ppm	R
05/17/07	17:18:07	O2	5.25	%	R	CO2	9.89	%	R	CO	6.8	ppm	R	THC	6.8	ppm	R	NOx	117.2	ppm	R
05/17/07	17:18:17	O2	5.37	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	112.3	ppm	R
05/17/07	17:18:27	O2	5.13	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	2.0	ppm	R	NOx	109.9	ppm	R
05/17/07	17:18:37	O2	5.25	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	107.4	ppm	R
05/17/07	17:18:47	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	5.5	ppm	R	NOx	107.4	ppm	R
05/17/07	17:18:57	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	114.8	ppm	R
05/17/07	17:19:07	O2	5.25	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	6.1	ppm	R	NOx	112.3	ppm	R
05/17/07	17:19:17	O2	5.25	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	109.9	ppm	R
05/17/07	17:19:27	O2	5.13	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	6.8	ppm	R	NOx	107.4	ppm	R
05/17/07	17:19:37	O2	5.00	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	105.0	ppm	R
05/17/07	17:19:47	O2	5.00	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	0.5	ppm	R	NOx	105.0	ppm	R
05/17/07	17:19:57	O2	5.00	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	105.0	ppm	R
05/17/07	17:20:07	O2	5.13	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	105.0	ppm	R
05/17/07	17:20:17	O2	5.00	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	114.8	ppm	R
05/17/07	17:20:27	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	22.6	ppm	R	NOx	112.3	ppm	R
05/17/07	17:20:37	O2	5.13	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	14.2	ppm	R	NOx	105.0	ppm	R
05/17/07	17:20:47	O2	5.00	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	13.7	ppm	R	NOx	109.9	ppm	R
05/17/07	17:20:57	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	8.2	ppm	R	NOx	107.4	ppm	R
05/17/07	17:21:07	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	109.9	ppm	R
05/17/07	17:21:17	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	105.0	ppm	R
05/17/07	17:21:27	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	1.0	ppm	R	NOx	107.4	ppm	R
05/17/07	17:21:37	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	3.5	ppm	R	NOx	112.3	ppm	R
05/17/07	17:21:47	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	112.3	ppm	R
05/17/07	17:21:57	O2	5.13	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	114.8	ppm	R
05/17/07	17:22:07	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	5.7	ppm	R	NOx	112.3	ppm	R
05/17/07	17:22:17	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	107.4	ppm	R
05/17/07	17:22:27	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	109.9	ppm	R
05/17/07	17:22:37	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/17/07	17:22:47	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	1.4	ppm	R	NOx	112.3	ppm	R
05/17/07	17:22:57	O2	5.00	%	R	CO2	9.67	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	117.2	ppm	R
05/17/07	17:23:07	O2	4.88	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	117.2	ppm	R
05/17/07	17:23:17	O2	4.88	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/17/07	17:23:27	O2	5.62	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	100.1	ppm	R
05/17/07	17:23:37	O2	7.20	%	R	CO2	8.13	%	R	CO	5.9	ppm	R	THC	3.9	ppm	R	NOx	97.7	ppm	R
05/17/07	17:23:47	O2	7.45	%	R	CO2	8.20	%	R	CO	5.9	ppm	R	THC	43.7	ppm	R	NOx	95.2	ppm	R
05/17/07	17:23:57	O2	7.08	%	R	CO2	8.35	%	R	CO	5.9	ppm	R	THC	38.9	ppm	R	NOx	97.7	ppm	R
05/17/07	17:24:07	O2	6.84	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	17.7	ppm	R	NOx	92.8	ppm	R

05/17/07	17:24:17	O2	6.71	%	R	CO2	8.42	%	R	CO	6.8	ppm	R	THC	8.8	ppm	R	NOx	92.8	ppm	R
05/17/07	17:24:27	O2	6.71	%	R	CO2	8.50	%	R	CO	6.8	ppm	R	THC	9.7	ppm	R	NOx	95.2	ppm	R
05/17/07	17:24:37	O2	6.71	%	R	CO2	8.42	%	R	CO	6.8	ppm	R	THC	2.4	ppm	R	NOx	95.2	ppm	R
05/17/07	17:24:47	O2	6.71	%	R	CO2	8.42	%	R	CO	6.8	ppm	R	THC	3.1	ppm	R	NOx	97.7	ppm	R
05/17/07	17:24:57	O2	6.71	%	R	CO2	8.42	%	R	CO	6.8	ppm	R	THC	6.7	ppm	R	NOx	102.5	ppm	R
05/17/07	17:25:07	O2	6.71	%	R	CO2	8.50	%	R	CO	6.8	ppm	R	THC	7.6	ppm	R	NOx	105.0	ppm	R
05/17/07	17:25:17	O2	6.47	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	8.1	ppm	R	NOx	117.2	ppm	R
05/17/07	17:25:27	O2	4.88	%	R	CO2	9.81	%	R	CO	6.8	ppm	R	THC	2.6	ppm	R	NOx	122.1	ppm	R
05/17/07	17:25:37	O2	4.39	%	R	CO2	9.74	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	117.2	ppm	R
05/17/07	17:25:47	O2	5.74	%	R	CO2	8.64	%	R	CO	6.8	ppm	R	THC	7.8	ppm	R	NOx	112.3	ppm	R
05/17/07	17:25:57	O2	6.96	%	R	CO2	8.20	%	R	CO	6.8	ppm	R	THC	7.3	ppm	R	NOx	117.2	ppm	R
05/17/07	17:26:07	O2	6.47	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	0.5	ppm	R	NOx	114.8	ppm	R
05/17/07	17:26:17	O2	4.52	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	0.6	ppm	R	NOx	109.9	ppm	R
05/17/07	17:26:27	O2	4.03	%	R	CO2	10.40	%	R	CO	9.8	ppm	R	THC	20.2	ppm	R	NOx	109.9	ppm	R
05/17/07	17:26:37	O2	4.15	%	R	CO2	10.18	%	R	CO	11.7	ppm	R	THC	27.0	ppm	R	NOx	109.9	ppm	R
05/17/07	17:26:47	O2	4.27	%	R	CO2	10.11	%	R	CO	11.7	ppm	R	THC	17.7	ppm	R	NOx	109.9	ppm	R
05/17/07	17:26:57	O2	4.27	%	R	CO2	10.11	%	R	CO	10.7	ppm	R	THC	10.8	ppm	R	NOx	105.0	ppm	R
05/17/07	17:27:07	O2	4.27	%	R	CO2	10.18	%	R	CO	8.8	ppm	R	THC	4.7	ppm	R	NOx	102.5	ppm	R
05/17/07	17:27:17	O2	4.39	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	3.2	ppm	R	NOx	102.5	ppm	R
05/17/07	17:27:27	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	1.0	ppm	R	NOx	105.0	ppm	R
05/17/07	17:27:37	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	3.7	ppm	R	NOx	105.0	ppm	R
05/17/07	17:27:47	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	2.5	ppm	R	NOx	105.0	ppm	R
05/17/07	17:27:57	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	0.4	ppm	R	NOx	112.3	ppm	R
05/17/07	17:28:07	O2	4.39	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	0.1	ppm	R	NOx	105.0	ppm	R
05/17/07	17:28:17	O2	4.27	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.2	ppm	R	NOx	109.9	ppm	R
05/17/07	17:28:27	O2	4.27	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	107.4	ppm	R
05/17/07	17:28:37	O2	4.27	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	107.4	ppm	R
05/17/07	17:28:47	O2	4.15	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.2	ppm	R	NOx	102.5	ppm	R
05/17/07	17:28:57	O2	4.27	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	1.2	ppm	R	NOx	107.4	ppm	R
05/17/07	17:29:07	O2	4.27	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	2.3	ppm	R	NOx	107.4	ppm	R
05/17/07	17:29:17	O2	4.15	%	R	CO2	10.18	%	R	CO	7.8	ppm	R	THC	6.4	ppm	R	NOx	107.4	ppm	R
05/17/07	17:29:27	O2	4.27	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	109.9	ppm	R
05/17/07	17:29:37	O2	4.27	%	R	CO2	10.25	%	R	CO	7.8	ppm	R	THC	5.0	ppm	R	NOx	107.4	ppm	R
05/17/07	17:29:47	O2	4.15	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	4.9	ppm	R	NOx	105.0	ppm	R
05/17/07	17:29:57	O2	4.03	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/17/07	17:30:07	O2	4.03	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/17/07	17:30:17	O2	4.03	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	0.9	ppm	R	NOx	102.5	ppm	R
05/17/07	17:30:27	O2	4.15	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	1.9	ppm	R	NOx	105.0	ppm	R
05/17/07	17:30:37	O2	3.91	%	R	CO2	10.69	%	R	CO	7.8	ppm	R	THC	6.2	ppm	R	NOx	100.1	ppm	R
05/17/07	17:30:47	O2	3.91	%	R	CO2	10.77	%	R	CO	7.8	ppm	R	THC	0.5	ppm	R	NOx	95.2	ppm	R

05/17/07	17:30:57	O2	3.66	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	3.1	ppm	R	NOx	95.2	ppm	R
05/17/07	17:31:07	O2	3.66	%	R	CO2	10.84	%	R	CO	8.8	ppm	R	THC	6.5	ppm	R	NOx	97.7	ppm	R
05/17/07	17:31:17	O2	3.66	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	5.5	ppm	R	NOx	97.7	ppm	R
05/17/07	17:31:27	O2	3.78	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	4.9	ppm	R	NOx	102.5	ppm	R
05/17/07	17:31:37	O2	3.78	%	R	CO2	10.84	%	R	CO	8.8	ppm	R	THC	8.9	ppm	R	NOx	100.1	ppm	R
05/17/07	17:31:47	O2	3.91	%	R	CO2	10.84	%	R	CO	8.8	ppm	R	THC	12.8	ppm	R	NOx	102.5	ppm	R
05/17/07	17:31:57	O2	3.91	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	11.5	ppm	R	NOx	102.5	ppm	R
05/17/07	17:32:07	O2	3.91	%	R	CO2	10.84	%	R	CO	8.8	ppm	R	THC	5.0	ppm	R	NOx	97.7	ppm	R
05/17/07	17:32:17	O2	3.78	%	R	CO2	10.91	%	R	CO	8.8	ppm	R	THC	4.9	ppm	R	NOx	95.2	ppm	R
05/17/07	17:32:27	O2	3.66	%	R	CO2	10.91	%	R	CO	9.8	ppm	R	THC	5.0	ppm	R	NOx	100.1	ppm	R
05/17/07	17:32:37	O2	3.78	%	R	CO2	10.84	%	R	CO	9.8	ppm	R	THC	7.9	ppm	R	NOx	97.7	ppm	R
05/17/07	17:32:47	O2	3.78	%	R	CO2	10.77	%	R	CO	9.8	ppm	R	THC	7.7	ppm	R	NOx	100.1	ppm	R
05/17/07	17:32:57	O2	3.91	%	R	CO2	10.77	%	R	CO	8.8	ppm	R	THC	4.2	ppm	R	NOx	97.7	ppm	R
05/17/07	17:33:07	O2	4.03	%	R	CO2	10.62	%	R	CO	8.8	ppm	R	THC	5.2	ppm	R	NOx	97.7	ppm	R
05/17/07	17:33:17	O2	4.03	%	R	CO2	10.47	%	R	CO	8.8	ppm	R	THC	7.1	ppm	R	NOx	105.0	ppm	R
05/17/07	17:33:27	O2	4.15	%	R	CO2	10.69	%	R	CO	8.8	ppm	R	THC	0.8	ppm	R	NOx	92.8	ppm	R
05/17/07	17:33:37	O2	3.91	%	R	CO2	10.69	%	R	CO	8.8	ppm	R	THC	4.0	ppm	R	NOx	92.8	ppm	R
05/17/07	17:33:47	O2	4.52	%	R	CO2	9.81	%	R	CO	8.8	ppm	R	THC	7.0	ppm	R	NOx	87.9	ppm	R
05/17/07	17:33:57	O2	5.25	%	R	CO2	10.11	%	R	CO	8.8	ppm	R	THC	1.2	ppm	R	NOx	87.9	ppm	R
05/17/07	17:34:07	O2	4.15	%	R	CO2	10.77	%	R	CO	13.7	ppm	R	THC	0.0	ppm	R	NOx	92.8	ppm	R
05/17/07	17:34:17	O2	3.78	%	R	CO2	10.77	%	R	CO	31.3	ppm	R	THC	6.5	ppm	R	NOx	92.8	ppm	R
05/17/07	17:34:27	O2	4.03	%	R	CO2	10.69	%	R	CO	43.0	ppm	R	THC	27.9	ppm	R	NOx	95.2	ppm	R
05/17/07	17:34:37	O2	4.03	%	R	CO2	10.62	%	R	CO	41.0	ppm	R	THC	35.3	ppm	R	NOx	95.2	ppm	R
05/17/07	17:34:47	O2	4.15	%	R	CO2	10.47	%	R	CO	30.3	ppm	R	THC	17.6	ppm	R	NOx	95.2	ppm	R
05/17/07	17:34:57	O2	4.15	%	R	CO2	10.55	%	R	CO	20.5	ppm	R	THC	5.5	ppm	R	NOx	90.3	ppm	R
05/17/07	17:35:07	O2	4.15	%	R	CO2	10.69	%	R	CO	14.7	ppm	R	THC	7.3	ppm	R	NOx	95.2	ppm	R
05/17/07	17:35:17	O2	4.03	%	R	CO2	10.62	%	R	CO	11.7	ppm	R	THC	9.0	ppm	R	NOx	90.3	ppm	R
05/17/07	17:35:27	O2	3.91	%	R	CO2	10.77	%	R	CO	10.7	ppm	R	THC	2.4	ppm	R	NOx	87.9	ppm	R
05/17/07	17:35:37	O2	3.66	%	R	CO2	10.91	%	R	CO	10.7	ppm	R	THC	2.9	ppm	R	NOx	92.8	ppm	R
05/17/07	17:35:47	O2	3.66	%	R	CO2	10.99	%	R	CO	11.7	ppm	R	THC	1.2	ppm	R	NOx	87.9	ppm	R
05/17/07	17:35:57	O2	3.66	%	R	CO2	10.99	%	R	CO	11.7	ppm	R	THC	3.5	ppm	R	NOx	83.0	ppm	R
05/17/07	17:36:07	O2	3.78	%	R	CO2	10.91	%	R	CO	11.7	ppm	R	THC	1.5	ppm	R	NOx	90.3	ppm	R
05/17/07	17:36:17	O2	3.91	%	R	CO2	10.84	%	R	CO	10.7	ppm	R	THC	3.8	ppm	R	NOx	90.3	ppm	R
05/17/07	17:36:27	O2	4.03	%	R	CO2	10.69	%	R	CO	10.7	ppm	R	THC	6.3	ppm	R	NOx	90.3	ppm	R
05/17/07	17:36:37	O2	4.03	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	5.8	ppm	R	NOx	90.3	ppm	R
05/17/07	17:36:47	O2	4.03	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	6.6	ppm	R	NOx	87.9	ppm	R
05/17/07	17:36:57	O2	3.91	%	R	CO2	10.77	%	R	CO	9.8	ppm	R	THC	11.8	ppm	R	NOx	90.3	ppm	R
05/17/07	17:37:07	O2	3.91	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	9.9	ppm	R	NOx	90.3	ppm	R
05/17/07	17:37:17	O2	4.03	%	R	CO2	10.69	%	R	CO	9.8	ppm	R	THC	8.1	ppm	R	NOx	90.3	ppm	R
05/17/07	17:37:27	O2	4.15	%	R	CO2	10.62	%	R	CO	9.8	ppm	R	THC	6.5	ppm	R	NOx	92.8	ppm	R

05/17/07	17:37:37	O2	4.27	%	R	CO2	10.55	%	R	CO	8.8	ppm	R	THC	7.3	ppm	R	NOx	90.3	ppm	R
05/17/07	17:37:47	O2	4.15	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	3.3	ppm	R	NOx	87.9	ppm	R
05/17/07	17:37:57	O2	4.15	%	R	CO2	10.55	%	R	CO	8.8	ppm	R	THC	1.1	ppm	R	NOx	87.9	ppm	R
05/17/07	17:38:07	O2	4.15	%	R	CO2	10.47	%	R	CO	8.8	ppm	R	THC	4.4	ppm	R	NOx	90.3	ppm	R
05/17/07	17:38:17	O2	4.15	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	6.5	ppm	R	NOx	92.8	ppm	R
05/17/07	17:38:27	O2	4.27	%	R	CO2	10.47	%	R	CO	8.8	ppm	R	THC	3.8	ppm	R	NOx	92.8	ppm	R
05/17/07	17:38:37	O2	4.27	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	6.1	ppm	R	NOx	90.3	ppm	R
05/17/07	17:38:47	O2	4.27	%	R	CO2	10.25	%	R	CO	8.8	ppm	R	THC	7.0	ppm	R	NOx	92.8	ppm	R
05/17/07	17:38:57	O2	4.27	%	R	CO2	10.33	%	R	CO	7.8	ppm	R	THC	5.3	ppm	R	NOx	92.8	ppm	R
05/17/07	17:39:07	O2	4.15	%	R	CO2	10.47	%	R	CO	7.8	ppm	R	THC	2.9	ppm	R	NOx	90.3	ppm	R
05/17/07	17:39:17	O2	4.03	%	R	CO2	10.47	%	R	CO	8.8	ppm	R	THC	0.2	ppm	R	NOx	87.9	ppm	R
05/17/07	17:39:27	O2	4.15	%	R	CO2	10.40	%	R	CO	9.8	ppm	R	THC	6.5	ppm	R	NOx	97.7	ppm	R
05/17/07	17:39:37	O2	4.27	%	R	CO2	10.25	%	R	CO	9.8	ppm	R	THC	7.2	ppm	R	NOx	97.7	ppm	R
05/17/07	17:39:47	O2	4.39	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	0.3	ppm	R	NOx	102.5	ppm	R
05/17/07	17:39:57	O2	4.52	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	1.4	ppm	R	NOx	97.7	ppm	R
05/17/07	17:40:07	O2	4.39	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	6.3	ppm	R	NOx	100.1	ppm	R
05/17/07	17:40:17	O2	4.39	%	R	CO2	10.11	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	97.7	ppm	R
05/17/07	17:40:27	O2	4.39	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/17/07	17:40:37	O2	4.52	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	4.8	ppm	R	NOx	105.0	ppm	R
05/17/07	17:40:47	O2	4.52	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	2.0	ppm	R	NOx	100.1	ppm	R
05/17/07	17:40:57	O2	4.52	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	0.2	ppm	R	NOx	97.7	ppm	R
05/17/07	17:41:07	O2	4.64	%	R	CO2	9.96	%	R	CO	7.8	ppm	R	THC	2.0	ppm	R	NOx	102.5	ppm	R
05/17/07	17:41:17	O2	4.52	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	4.7	ppm	R	NOx	102.5	ppm	R
05/17/07	17:41:27	O2	4.64	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/17/07	17:41:37	O2	4.52	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	3.4	ppm	R	NOx	107.4	ppm	R
05/17/07	17:41:47	O2	4.52	%	R	CO2	9.74	%	R	CO	7.8	ppm	R	THC	6.2	ppm	R	NOx	107.4	ppm	R
05/17/07	17:41:57	O2	4.52	%	R	CO2	9.74	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/17/07	17:42:07	O2	4.52	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/17/07	17:42:17	O2	4.52	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	56.2	ppm	R	NOx	102.5	ppm	R
05/17/07	17:42:27	O2	4.52	%	R	CO2	9.74	%	R	CO	7.8	ppm	R	THC	56.5	ppm	R	NOx	109.9	ppm	R
05/17/07	17:42:37	O2	4.64	%	R	CO2	9.81	%	R	CO	7.8	ppm	R	THC	31.3	ppm	R	NOx	107.4	ppm	R
05/17/07	17:42:47	O2	4.76	%	R	CO2	9.74	%	R	CO	8.8	ppm	R	THC	21.0	ppm	R	NOx	112.3	ppm	R
05/17/07	17:42:57	O2	4.52	%	R	CO2	9.74	%	R	CO	8.8	ppm	R	THC	15.6	ppm	R	NOx	107.4	ppm	R
05/17/07	17:43:07	O2	4.39	%	R	CO2	9.89	%	R	CO	8.8	ppm	R	THC	11.7	ppm	R	NOx	102.5	ppm	R
05/17/07	17:43:17	O2	4.15	%	R	CO2	10.11	%	R	CO	8.8	ppm	R	THC	6.1	ppm	R	NOx	97.7	ppm	R
05/17/07	17:43:27	O2	4.03	%	R	CO2	10.25	%	R	CO	8.8	ppm	R	THC	1.8	ppm	R	NOx	95.2	ppm	R
05/17/07	17:43:37	O2	3.91	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	4.1	ppm	R	NOx	95.2	ppm	R
05/17/07	17:43:47	O2	3.91	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	7.4	ppm	R	NOx	97.7	ppm	R
05/17/07	17:43:57	O2	3.91	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	3.9	ppm	R	NOx	102.5	ppm	R
05/17/07	17:44:07	O2	3.78	%	R	CO2	10.33	%	R	CO	9.8	ppm	R	THC	4.9	ppm	R	NOx	97.7	ppm	R

05/17/07	17:44:17	O2	3.66	%	R	CO2	10.40	%	R	CO	10.7	ppm	R	THC	9.5	ppm	R	NOx	95.2	ppm	R
05/17/07	17:44:27	O2	3.66	%	R	CO2	10.40	%	R	CO	11.7	ppm	R	THC	5.2	ppm	R	NOx	95.2	ppm	R
05/17/07	17:44:37	O2	3.78	%	R	CO2	10.33	%	R	CO	11.7	ppm	R	THC	5.7	ppm	R	NOx	95.2	ppm	R
05/17/07	17:44:47	O2	3.66	%	R	CO2	10.47	%	R	CO	13.7	ppm	R	THC	3.0	ppm	R	NOx	92.8	ppm	R
05/17/07	17:44:57	O2	3.54	%	R	CO2	10.55	%	R	CO	38.1	ppm	R	THC	4.7	ppm	R	NOx	90.3	ppm	R
05/17/07	17:45:07	O2	3.42	%	R	CO2	10.62	%	R	CO	108.4	ppm	R	THC	4.7	ppm	R	NOx	90.3	ppm	R
05/17/07	17:45:17	O2	3.42	%	R	CO2	10.47	%	R	CO	160.2	ppm	R	THC	7.0	ppm	R	NOx	90.3	ppm	R
05/17/07	17:45:27	O2	3.42	%	R	CO2	10.47	%	R	CO	153.3	ppm	R	THC	1.2	ppm	R	NOx	90.3	ppm	R
05/17/07	17:45:37	O2	3.54	%	R	CO2	10.47	%	R	CO	110.4	ppm	R	THC	1.5	ppm	R	NOx	92.8	ppm	R
05/17/07	17:45:47	O2	3.42	%	R	CO2	10.55	%	R	CO	94.7	ppm	R	THC	6.2	ppm	R	NOx	90.3	ppm	R
05/17/07	17:45:57	O2	3.30	%	R	CO2	10.69	%	R	CO	132.8	ppm	R	THC	0.7	ppm	R	NOx	90.3	ppm	R
05/17/07	17:46:07	O2	3.30	%	R	CO2	10.69	%	R	CO	172.9	ppm	R	THC	7.4	ppm	R	NOx	85.5	ppm	R
05/17/07	17:46:17	O2	3.17	%	R	CO2	10.84	%	R	CO	175.8	ppm	R	THC	7.3	ppm	R	NOx	87.9	ppm	R
05/17/07	17:46:27	O2	3.17	%	R	CO2	10.84	%	R	CO	150.4	ppm	R	THC	8.1	ppm	R	NOx	85.5	ppm	R
05/17/07	17:46:37	O2	3.30	%	R	CO2	10.91	%	R	CO	121.1	ppm	R	THC	5.1	ppm	R	NOx	87.9	ppm	R
05/17/07	17:46:47	O2	3.30	%	R	CO2	10.77	%	R	CO	113.3	ppm	R	THC	10.7	ppm	R	NOx	87.9	ppm	R
05/17/07	17:46:57	O2	3.42	%	R	CO2	10.69	%	R	CO	107.4	ppm	R	THC	45.8	ppm	R	NOx	92.8	ppm	R
05/17/07	17:47:07	O2	3.42	%	R	CO2	10.69	%	R	CO	93.8	ppm	R	THC	26.1	ppm	R	NOx	85.5	ppm	R
05/17/07	17:47:17	O2	3.42	%	R	CO2	10.77	%	R	CO	161.1	ppm	R	THC	18.8	ppm	R	NOx	85.5	ppm	R
05/17/07	17:47:27	O2	3.17	%	R	CO2	10.69	%	R	CO	200.2	ppm	R	THC	45.7	ppm	R	NOx	85.5	ppm	R
05/17/07	17:47:37	O2	3.17	%	R	CO2	10.62	%	R	CO	200.2	ppm	R	THC	25.0	ppm	R	NOx	78.1	ppm	R
05/17/07	17:47:47	O2	3.17	%	R	CO2	10.55	%	R	CO	200.2	ppm	R	THC	17.9	ppm	R	NOx	85.5	ppm	R
05/17/07	17:47:57	O2	3.17	%	R	CO2	10.69	%	R	CO	200.2	ppm	R	THC	13.3	ppm	R	NOx	87.9	ppm	R
05/17/07	17:48:07	O2	3.30	%	R	CO2	10.55	%	R	CO	200.2	ppm	R	THC	8.4	ppm	R	NOx	85.5	ppm	R
05/17/07	17:48:17	O2	3.42	%	R	CO2	10.47	%	R	CO	200.2	ppm	R	THC	12.3	ppm	R	NOx	87.9	ppm	R
05/17/07	17:48:27	O2	3.66	%	R	CO2	10.40	%	R	CO	200.2	ppm	R	THC	7.5	ppm	R	NOx	90.3	ppm	R
05/17/07	17:48:37	O2	3.91	%	R	CO2	10.25	%	R	CO	200.2	ppm	R	THC	4.2	ppm	R	NOx	90.3	ppm	R
05/17/07	17:48:47	O2	4.03	%	R	CO2	10.25	%	R	CO	151.4	ppm	R	THC	2.1	ppm	R	NOx	92.8	ppm	R
05/17/07	17:48:57	O2	4.15	%	R	CO2	10.25	%	R	CO	76.2	ppm	R	THC	0.6	ppm	R	NOx	97.7	ppm	R
05/17/07	17:49:07	O2	4.15	%	R	CO2	10.11	%	R	CO	41.0	ppm	R	THC	3.5	ppm	R	NOx	97.7	ppm	R
05/17/07	17:49:17	O2	4.39	%	R	CO2	9.96	%	R	CO	25.4	ppm	R	THC	7.4	ppm	R	NOx	102.5	ppm	R
05/17/07	17:49:27	O2	4.39	%	R	CO2	10.03	%	R	CO	17.6	ppm	R	THC	5.6	ppm	R	NOx	102.5	ppm	R
05/17/07	17:49:37	O2	4.39	%	R	CO2	10.11	%	R	CO	13.7	ppm	R	THC	2.9	ppm	R	NOx	102.5	ppm	R
05/17/07	17:49:47	O2	4.15	%	R	CO2	10.18	%	R	CO	11.7	ppm	R	THC	1.3	ppm	R	NOx	95.2	ppm	R
05/17/07	17:49:57	O2	3.91	%	R	CO2	10.18	%	R	CO	11.7	ppm	R	THC	8.4	ppm	R	NOx	97.7	ppm	R
05/17/07	17:50:07	O2	4.03	%	R	CO2	10.11	%	R	CO	11.7	ppm	R	THC	4.8	ppm	R	NOx	100.1	ppm	R
05/17/07	17:50:17	O2	4.15	%	R	CO2	10.03	%	R	CO	10.7	ppm	R	THC	5.0	ppm	R	NOx	102.5	ppm	R
05/17/07	17:50:27	O2	4.27	%	R	CO2	10.03	%	R	CO	10.7	ppm	R	THC	4.3	ppm	R	NOx	102.5	ppm	R
05/17/07	17:50:37	O2	4.27	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	2.7	ppm	R	NOx	100.1	ppm	R
05/17/07	17:50:47	O2	4.03	%	R	CO2	10.18	%	R	CO	9.8	ppm	R	THC	2.6	ppm	R	NOx	102.5	ppm	R

05/17/07	17:50:57	O2	4.03	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	3.7	ppm	R	NOx	100.1	ppm	R
05/17/07	17:51:07	O2	4.03	%	R	CO2	10.03	%	R	CO	10.7	ppm	R	THC	8.5	ppm	R	NOx	105.0	ppm	R
05/17/07	17:51:17	O2	4.27	%	R	CO2	9.96	%	R	CO	10.7	ppm	R	THC	7.4	ppm	R	NOx	109.9	ppm	R
05/17/07	17:51:27	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	6.5	ppm	R	NOx	114.8	ppm	R
05/17/07	17:51:37	O2	4.39	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	5.8	ppm	R	NOx	114.8	ppm	R
05/17/07	17:51:47	O2	4.39	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	3.1	ppm	R	NOx	114.8	ppm	R
05/17/07	17:51:57	O2	4.39	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	58.0	ppm	R	NOx	114.8	ppm	R
05/17/07	17:52:07	O2	4.27	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	36.4	ppm	R	NOx	109.9	ppm	R
05/17/07	17:52:17	O2	4.27	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	25.3	ppm	R	NOx	112.3	ppm	R
05/17/07	17:52:27	O2	4.15	%	R	CO2	10.18	%	R	CO	9.8	ppm	R	THC	15.4	ppm	R	NOx	112.3	ppm	R
05/17/07	17:52:37	O2	4.15	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	13.1	ppm	R	NOx	109.9	ppm	R
05/17/07	17:52:47	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	10.7	ppm	R	NOx	114.8	ppm	R
05/17/07	17:52:57	O2	4.39	%	R	CO2	9.89	%	R	CO	8.8	ppm	R	THC	8.9	ppm	R	NOx	109.9	ppm	R
05/17/07	17:53:07	O2	4.27	%	R	CO2	10.11	%	R	CO	8.8	ppm	R	THC	7.1	ppm	R	NOx	107.4	ppm	R
05/17/07	17:53:17	O2	4.15	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	3.5	ppm	R	NOx	112.3	ppm	R
05/17/07	17:53:27	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	1.8	ppm	R	NOx	109.9	ppm	R
05/17/07	17:53:37	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	4.7	ppm	R	NOx	114.8	ppm	R
05/17/07	17:53:47	O2	4.27	%	R	CO2	10.03	%	R	CO	8.8	ppm	R	THC	3.2	ppm	R	NOx	114.8	ppm	R
05/17/07	17:53:57	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	6.5	ppm	R	NOx	117.2	ppm	R
05/17/07	17:54:07	O2	4.27	%	R	CO2	9.89	%	R	CO	8.8	ppm	R	THC	6.5	ppm	R	NOx	117.2	ppm	R
05/17/07	17:54:17	O2	4.15	%	R	CO2	9.89	%	R	CO	9.8	ppm	R	THC	6.8	ppm	R	NOx	114.8	ppm	R
05/17/07	17:54:27	O2	4.03	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	4.1	ppm	R	NOx	112.3	ppm	R
05/17/07	17:54:37	O2	4.03	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	3.1	ppm	R	NOx	109.9	ppm	R
05/17/07	17:54:47	O2	3.91	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	1.5	ppm	R	NOx	107.4	ppm	R
05/17/07	17:54:57	O2	4.03	%	R	CO2	10.11	%	R	CO	10.7	ppm	R	THC	5.5	ppm	R	NOx	112.3	ppm	R
05/17/07	17:55:07	O2	4.03	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	1.2	ppm	R	NOx	114.8	ppm	R
05/17/07	17:55:17	O2	4.15	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	1.7	ppm	R	NOx	112.3	ppm	R
05/17/07	17:55:27	O2	4.15	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	7.0	ppm	R	NOx	114.8	ppm	R
05/17/07	17:55:37	O2	4.03	%	R	CO2	10.11	%	R	CO	9.8	ppm	R	THC	6.4	ppm	R	NOx	109.9	ppm	R
05/17/07	17:55:47	O2	4.03	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	25.9	ppm	R	NOx	109.9	ppm	R
05/17/07	17:55:57	O2	4.15	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	46.7	ppm	R	NOx	114.8	ppm	R
05/17/07	17:56:07	O2	4.27	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	39.4	ppm	R	NOx	117.2	ppm	R
05/17/07	17:56:17	O2	4.27	%	R	CO2	9.89	%	R	CO	9.8	ppm	R	THC	19.0	ppm	R	NOx	117.2	ppm	R
05/17/07	17:56:27	O2	4.15	%	R	CO2	9.89	%	R	CO	8.8	ppm	R	THC	17.8	ppm	R	NOx	122.1	ppm	R
05/17/07	17:56:37	O2	4.15	%	R	CO2	9.96	%	R	CO	9.8	ppm	R	THC	13.9	ppm	R	NOx	122.1	ppm	R
05/17/07	17:56:47	O2	3.91	%	R	CO2	10.03	%	R	CO	9.8	ppm	R	THC	11.7	ppm	R	NOx	119.6	ppm	R
05/17/07	17:56:57	O2	4.15	%	R	CO2	10.18	%	R	CO	9.8	ppm	R	THC	22.9	ppm	R	NOx	119.6	ppm	R
05/17/07	17:57:07	O2	4.03	%	R	CO2	10.18	%	R	CO	9.8	ppm	R	THC	14.8	ppm	R	NOx	109.9	ppm	R
05/17/07	17:57:17	O2	3.91	%	R	CO2	10.25	%	R	CO	10.7	ppm	R	THC	42.2	ppm	R	NOx	109.9	ppm	R
05/17/07	17:57:27	O2	3.78	%	R	CO2	10.11	%	R	CO	10.7	ppm	R	THC	45.0	ppm	R	NOx	117.2	ppm	R

05/17/07	17:57:37	O2	4.03	%	R	CO2	10.03	%	R	CO	11.7	ppm	R	THC	41.4	ppm	R	NOx	114.8	ppm	R
05/17/07	17:57:47	O2	4.03	%	R	CO2	10.03	%	R	CO	10.7	ppm	R	THC	21.0	ppm	R	NOx	112.3	ppm	R
05/17/07	17:57:57	O2	4.03	%	R	CO2	10.18	%	R	CO	10.7	ppm	R	THC	14.6	ppm	R	NOx	114.8	ppm	R
05/17/07	17:58:07	O2	3.91	%	R	CO2	10.18	%	R	CO	10.7	ppm	R	THC	12.5	ppm	R	NOx	112.3	ppm	R
05/17/07	17:58:17	O2	3.78	%	R	CO2	10.25	%	R	CO	10.7	ppm	R	THC	5.6	ppm	R	NOx	112.3	ppm	R
05/17/07	17:58:27	O2	3.66	%	R	CO2	10.40	%	R	CO	21.5	ppm	R	THC	5.7	ppm	R	NOx	107.4	ppm	R
05/17/07	17:58:37	O2	3.54	%	R	CO2	10.18	%	R	CO	73.2	ppm	R	THC	12.8	ppm	R	NOx	109.9	ppm	R
05/17/07	17:58:47	O2	3.78	%	R	CO2	10.03	%	R	CO	128.9	ppm	R	THC	7.8	ppm	R	NOx	117.2	ppm	R
05/17/07	17:58:57	O2	4.03	%	R	CO2	9.81	%	R	CO	131.8	ppm	R	THC	10.6	ppm	R	NOx	127.0	ppm	R
05/17/07	17:59:07	O2	4.27	%	R	CO2	9.74	%	R	CO	94.7	ppm	R	THC	13.6	ppm	R	NOx	131.8	ppm	R
05/17/07	17:59:17	O2	4.27	%	R	CO2	9.89	%	R	CO	55.7	ppm	R	THC	12.4	ppm	R	NOx	124.5	ppm	R
05/17/07	17:59:27	O2	3.91	%	R	CO2	10.11	%	R	CO	33.2	ppm	R	THC	10.1	ppm	R	NOx	117.2	ppm	R
05/17/07	17:59:37	O2	3.78	%	R	CO2	10.18	%	R	CO	22.5	ppm	R	THC	29.4	ppm	R	NOx	117.2	ppm	R
05/17/07	17:59:47	O2	3.78	%	R	CO2	10.18	%	R	CO	17.6	ppm	R	THC	18.3	ppm	R	NOx	119.6	ppm	R
05/17/07	17:59:57	O2	3.91	%	R	CO2	9.89	%	R	CO	14.7	ppm	R	THC	30.7	ppm	R	NOx	127.0	ppm	R
05/17/07	18:00:07	O2	4.27	%	R	CO2	9.89	%	R	CO	11.7	ppm	R	THC	43.9	ppm	R	NOx	129.4	ppm	R
05/17/07	18:00:17	O2	4.39	%	R	CO2	9.74	%	R	CO	10.7	ppm	R	THC	46.1	ppm	R	NOx	127.0	ppm	R
05/17/07	18:00:27	O2	4.15	%	R	CO2	9.89	%	R	CO	9.8	ppm	R	THC	28.1	ppm	R	NOx	124.5	ppm	R
05/17/07	18:00:37	O2	4.03	%	R	CO2	9.89	%	R	CO	9.8	ppm	R	THC	18.1	ppm	R	NOx	124.5	ppm	R
05/17/07	18:00:47	O2	4.15	%	R	CO2	9.81	%	R	CO	9.8	ppm	R	THC	16.0	ppm	R	NOx	127.0	ppm	R
05/17/07	18:00:57	O2	4.27	%	R	CO2	9.74	%	R	CO	9.8	ppm	R	THC	6.9	ppm	R	NOx	122.1	ppm	R
05/17/07	18:01:07	O2	4.27	%	R	CO2	9.81	%	R	CO	9.8	ppm	R	THC	5.2	ppm	R	NOx	124.5	ppm	R
05/17/07	18:01:17	O2	4.27	%	R	CO2	9.81	%	R	CO	8.8	ppm	R	THC	22.6	ppm	R	NOx	129.4	ppm	R
05/17/07	18:01:27	O2	4.27	%	R	CO2	9.74	%	R	CO	9.8	ppm	R	THC	31.7	ppm	R	NOx	136.7	ppm	R
05/17/07	18:01:37	O2	4.52	%	R	CO2	9.67	%	R	CO	8.8	ppm	R	THC	18.1	ppm	R	NOx	139.2	ppm	R
05/17/07	18:01:47	O2	4.52	%	R	CO2	9.67	%	R	CO	9.8	ppm	R	THC	24.8	ppm	R	NOx	136.7	ppm	R
05/17/07	18:01:57	O2	4.39	%	R	CO2	9.74	%	R	CO	9.8	ppm	R	THC	30.1	ppm	R	NOx	131.8	ppm	R
05/17/07	18:02:07	O2	4.27	%	R	CO2	9.81	%	R	CO	9.8	ppm	R	THC	35.9	ppm	R	NOx	131.8	ppm	R
05/17/07	18:02:17	O2	4.15	%	R	CO2	9.81	%	R	CO	8.8	ppm	R	THC	23.5	ppm	R	NOx	131.8	ppm	R
05/17/07	18:02:27	O2	4.15	%	C	CO2	9.67	%	C	CO	8.8	ppm	C	THC	21.6	ppm	C	NOx	134.3	ppm	C
05/17/07	18:02:37	O2	4.39	%	C	CO2	9.52	%	C	CO	8.8	ppm	C	THC	25.2	ppm	C	NOx	139.2	ppm	C
05/17/07	18:02:47	O2	4.52	%	C	CO2	9.52	%	C	CO	8.8	ppm	C	THC	12.9	ppm	C	NOx	141.6	ppm	C
05/17/07	18:02:57	O2	4.52	%	C	CO2	9.59	%	C	CO	8.8	ppm	C	THC	12.3	ppm	C	NOx	14.7	ppm	C
05/17/07	18:03:07	O2	4.52	%	C	CO2	9.59	%	C	CO	6.8	ppm	C	THC	8.5	ppm	C	NOx	2.4	ppm	C
05/17/07	18:03:17	O2	4.64	%	C	CO2	9.52	%	C	CO	4.9	ppm	C	THC	11.1	ppm	C	NOx	2.4	ppm	C
05/17/07	18:03:27	O2	4.52	%	C	CO2	9.52	%	C	CO	2.0	ppm	C	THC	10.9	ppm	C	NOx	112.3	ppm	C
05/17/07	18:03:37	O2	4.52	%	C	CO2	6.52	%	C	CO	2.0	ppm	C	THC	22.2	ppm	C	NOx	87.9	ppm	C
05/17/07	18:03:47	O2	11.23	%	C	CO2	8.28	%	C	CO	2.9	ppm	C	THC	37.8	ppm	C	NOx	124.5	ppm	C
05/17/07	18:03:57	O2	5.74	%	C	CO2	9.59	%	C	CO	4.9	ppm	C	THC	30.3	ppm	C	NOx	146.5	ppm	C
05/17/07	18:04:07	O2	4.52	%	R	CO2	9.89	%	R	CO	7.8	ppm	R	THC	25.4	ppm	R	NOx	146.5	ppm	R

05/17/07	18:04:17	O2	4.15	%	R	CO2	9.89	%	R	CO	8.8	ppm	R	THC	15.8	ppm	R	NOx	144.0	ppm	R
05/17/07	18:04:27	O2	4.27	%	R	CO2	9.81	%	R	CO	8.8	ppm	R	THC	13.3	ppm	R	NOx	141.6	ppm	R
05/17/07	18:04:37	O2	4.39	%	R	CO2	9.67	%	R	CO	8.8	ppm	R	THC	21.9	ppm	R	NOx	146.5	ppm	R
05/17/07	18:04:47	O2	4.52	%	R	CO2	9.52	%	R	CO	8.8	ppm	R	THC	25.8	ppm	R	NOx	151.4	ppm	R
05/17/07	18:04:57	O2	4.52	%	R	CO2	9.45	%	R	CO	8.8	ppm	R	THC	15.1	ppm	R	NOx	156.3	ppm	R
05/17/07	18:05:07	O2	4.64	%	R	CO2	9.52	%	R	CO	8.8	ppm	R	THC	17.5	ppm	R	NOx	158.7	ppm	R
05/17/07	18:05:17	O2	4.76	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	26.6	ppm	R	NOx	161.1	ppm	R
05/17/07	18:05:27	O2	4.64	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	18.6	ppm	R	NOx	158.7	ppm	R
05/17/07	18:05:37	O2	4.52	%	R	CO2	9.67	%	R	CO	7.8	ppm	R	THC	11.0	ppm	R	NOx	151.4	ppm	R
05/17/07	18:05:47	O2	4.52	%	R	CO2	9.67	%	R	CO	8.8	ppm	R	THC	5.9	ppm	R	NOx	148.9	ppm	R
05/17/07	18:05:57	O2	4.39	%	R	CO2	9.81	%	R	CO	8.8	ppm	R	THC	11.7	ppm	R	NOx	151.4	ppm	R
05/17/07	18:06:07	O2	4.39	%	R	CO2	9.74	%	R	CO	8.8	ppm	R	THC	13.8	ppm	R	NOx	148.9	ppm	R
05/17/07	18:06:17	O2	4.27	%	R	CO2	9.67	%	R	CO	8.8	ppm	R	THC	27.4	ppm	R	NOx	151.4	ppm	R
05/17/07	18:06:27	O2	4.52	%	R	CO2	9.52	%	R	CO	8.8	ppm	R	THC	35.3	ppm	R	NOx	163.6	ppm	R
05/17/07	18:06:37	O2	4.52	%	R	CO2	9.37	%	R	CO	8.8	ppm	R	THC	22.4	ppm	R	NOx	163.6	ppm	R
05/17/07	18:06:47	O2	4.64	%	R	CO2	9.45	%	R	CO	8.8	ppm	R	THC	16.6	ppm	R	NOx	158.7	ppm	R
05/17/07	18:06:57	O2	4.64	%	R	CO2	9.45	%	R	CO	7.8	ppm	R	THC	30.9	ppm	R	NOx	158.7	ppm	R
05/17/07	18:07:07	O2	4.64	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	20.4	ppm	R	NOx	163.6	ppm	R
05/17/07	18:07:17	O2	4.64	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	16.0	ppm	R	NOx	166.0	ppm	R
05/17/07	18:07:27	O2	4.52	%	R	CO2	9.52	%	R	CO	7.8	ppm	R	THC	10.0	ppm	R	NOx	168.5	ppm	R
05/17/07	18:07:37	O2	4.88	%	R	CO2	9.45	%	R	CO	7.8	ppm	R	THC	5.8	ppm	R	NOx	170.9	ppm	R
05/17/07	18:07:47	O2	4.88	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	18.5	ppm	R	NOx	175.8	ppm	R
05/17/07	18:07:57	O2	4.76	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	34.0	ppm	R	NOx	175.8	ppm	R
05/17/07	18:08:07	O2	4.88	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	27.3	ppm	R	NOx	170.9	ppm	R
05/17/07	18:08:17	O2	4.88	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	21.3	ppm	R	NOx	173.3	ppm	R
05/17/07	18:08:27	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	15.3	ppm	R	NOx	168.5	ppm	R
05/17/07	18:08:37	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	12.9	ppm	R	NOx	168.5	ppm	R
05/17/07	18:08:47	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	8.2	ppm	R	NOx	175.8	ppm	R
05/17/07	18:08:57	O2	4.76	%	R	CO2	9.45	%	R	CO	8.8	ppm	R	THC	12.9	ppm	R	NOx	185.6	ppm	R
05/17/07	18:09:07	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	16.8	ppm	R	NOx	180.7	ppm	R
05/17/07	18:09:17	O2	4.76	%	R	CO2	9.45	%	R	CO	7.8	ppm	R	THC	15.2	ppm	R	NOx	183.1	ppm	R
05/17/07	18:09:27	O2	4.76	%	R	CO2	9.45	%	R	CO	8.8	ppm	R	THC	13.2	ppm	R	NOx	180.7	ppm	R
05/17/07	18:09:37	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	13.3	ppm	R	NOx	183.1	ppm	R
05/17/07	18:09:47	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	25.1	ppm	R	NOx	188.0	ppm	R
05/17/07	18:09:57	O2	4.76	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	35.1	ppm	R	NOx	192.9	ppm	R
05/17/07	18:10:07	O2	4.88	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	24.6	ppm	R	NOx	197.8	ppm	R
05/17/07	18:10:17	O2	5.00	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	17.7	ppm	R	NOx	195.3	ppm	R
05/17/07	18:10:27	O2	4.76	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	18.5	ppm	R	NOx	192.9	ppm	R
05/17/07	18:10:37	O2	4.64	%	R	CO2	9.37	%	R	CO	7.8	ppm	R	THC	21.4	ppm	R	NOx	185.6	ppm	R
05/17/07	18:10:47	O2	4.76	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	16.2	ppm	R	NOx	190.4	ppm	R

05/17/07	18:10:57	O2	4.88	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	18.1	ppm	R	NOx	190.4	ppm	R
05/17/07	18:11:07	O2	4.88	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	17.3	ppm	R	NOx	192.9	ppm	R
05/17/07	18:11:17	O2	4.88	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	20.5	ppm	R	NOx	197.8	ppm	R
05/17/07	18:11:27	O2	4.88	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	10.3	ppm	R	NOx	205.1	ppm	R
05/17/07	18:11:37	O2	5.00	%	R	CO2	9.23	%	R	CO	7.8	ppm	R	THC	7.1	ppm	R	NOx	205.1	ppm	R
05/17/07	18:11:47	O2	5.00	%	R	CO2	9.16	%	R	CO	7.8	ppm	R	THC	12.1	ppm	R	NOx	214.8	ppm	R
05/17/07	18:11:57	O2	5.13	%	R	CO2	9.23	%	R	CO	7.8	ppm	R	THC	29.9	ppm	R	NOx	210.0	ppm	R
05/17/07	18:12:07	O2	5.00	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	27.0	ppm	R	NOx	212.4	ppm	R
05/17/07	18:12:17	O2	5.00	%	R	CO2	9.30	%	R	CO	7.8	ppm	R	THC	18.2	ppm	R	NOx	210.0	ppm	R
05/17/07	18:12:27	O2	5.13	%	R	CO2	9.23	%	R	CO	7.8	ppm	R	THC	11.1	ppm	R	NOx	214.8	ppm	R
05/17/07	18:12:37	O2	5.25	%	R	CO2	9.08	%	R	CO	7.8	ppm	R	THC	22.0	ppm	R	NOx	227.1	ppm	R
05/17/07	18:12:47	O2	5.37	%	R	CO2	9.08	%	R	CO	6.8	ppm	R	THC	32.5	ppm	R	NOx	229.5	ppm	R
05/17/07	18:12:57	O2	5.25	%	R	CO2	9.23	%	R	CO	7.8	ppm	R	THC	33.7	ppm	R	NOx	239.3	ppm	R
05/17/07	18:13:07	O2	5.25	%	R	CO2	9.16	%	R	CO	6.8	ppm	R	THC	35.5	ppm	R	NOx	227.1	ppm	R
05/17/07	18:13:17	O2	5.25	%	R	CO2	9.01	%	R	CO	7.8	ppm	R	THC	22.8	ppm	R	NOx	224.6	ppm	R
05/17/07	18:13:27	O2	5.25	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	16.5	ppm	R	NOx	227.1	ppm	R
05/17/07	18:13:37	O2	5.25	%	R	CO2	9.08	%	R	CO	6.8	ppm	R	THC	8.0	ppm	R	NOx	227.1	ppm	R
05/17/07	18:13:47	O2	5.25	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	9.4	ppm	R	NOx	224.6	ppm	R
05/17/07	18:13:57	O2	5.25	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	10.5	ppm	R	NOx	224.6	ppm	R
05/17/07	18:14:07	O2	5.25	%	R	CO2	9.08	%	R	CO	6.8	ppm	R	THC	24.0	ppm	R	NOx	229.5	ppm	R
05/17/07	18:14:17	O2	5.25	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	22.6	ppm	R	NOx	231.9	ppm	R
05/17/07	18:14:27	O2	5.37	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	16.9	ppm	R	NOx	231.9	ppm	R
05/17/07	18:14:37	O2	5.37	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	14.9	ppm	R	NOx	234.4	ppm	R
05/17/07	18:14:47	O2	5.25	%	R	CO2	8.94	%	R	CO	7.8	ppm	R	THC	22.8	ppm	R	NOx	236.8	ppm	R
05/17/07	18:14:57	O2	5.37	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	28.5	ppm	R	NOx	239.3	ppm	R
05/17/07	18:15:07	O2	5.49	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	23.6	ppm	R	NOx	253.9	ppm	R
05/17/07	18:15:17	O2	5.49	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	19.8	ppm	R	NOx	258.8	ppm	R
05/17/07	18:15:27	O2	5.49	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	14.3	ppm	R	NOx	263.7	ppm	R
05/17/07	18:15:37	O2	5.49	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	10.8	ppm	R	NOx	256.4	ppm	R
05/17/07	18:15:47	O2	5.49	%	R	CO2	8.79	%	R	CO	6.8	ppm	R	THC	11.1	ppm	R	NOx	263.7	ppm	R
05/17/07	18:15:57	O2	5.62	%	R	CO2	8.72	%	R	CO	6.8	ppm	R	THC	25.7	ppm	R	NOx	256.4	ppm	R
05/17/07	18:16:07	O2	5.62	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	27.1	ppm	R	NOx	249.0	ppm	R
05/17/07	18:16:17	O2	5.49	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	13.5	ppm	R	NOx	253.9	ppm	R
05/17/07	18:16:27	O2	5.62	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	10.0	ppm	R	NOx	256.4	ppm	R
05/17/07	18:16:37	O2	5.62	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	10.6	ppm	R	NOx	258.8	ppm	R
05/17/07	18:16:47	O2	5.62	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	10.5	ppm	R	NOx	263.7	ppm	R
05/17/07	18:16:57	O2	5.62	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	256.4	ppm	R
05/17/07	18:17:07	O2	5.49	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	9.2	ppm	R	NOx	258.8	ppm	R
05/17/07	18:17:17	O2	5.49	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	9.4	ppm	R	NOx	256.4	ppm	R
05/17/07	18:17:27	O2	5.62	%	R	CO2	8.94	%	R	CO	6.8	ppm	R	THC	10.6	ppm	R	NOx	263.7	ppm	R

05/17/07	18:17:37	O2	5.74	%	R	CO2	8.86	%	R	CO	6.8	ppm	R	THC	10.4	ppm	R	NOx	275.9	ppm	R
05/17/07	18:17:47	O2	5.74	%	R	CO2	8.64	%	R	CO	6.8	ppm	R	THC	8.9	ppm	R	NOx	283.2	ppm	R
05/17/07	18:17:57	O2	5.98	%	R	CO2	8.64	%	R	CO	6.8	ppm	R	THC	5.9	ppm	R	NOx	275.9	ppm	R
05/17/07	18:18:07	O2	6.10	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	14.3	ppm	R	NOx	268.6	ppm	R
05/17/07	18:18:17	O2	5.98	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	14.4	ppm	R	NOx	263.7	ppm	R
05/17/07	18:18:27	O2	5.98	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	11.3	ppm	R	NOx	271.0	ppm	R
05/17/07	18:18:37	O2	6.23	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	8.8	ppm	R	NOx	278.3	ppm	R
05/17/07	18:18:47	O2	6.10	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	14.5	ppm	R	NOx	288.1	ppm	R
05/17/07	18:18:57	O2	6.10	%	R	CO2	8.50	%	R	CO	6.8	ppm	R	THC	27.3	ppm	R	NOx	285.6	ppm	R
05/17/07	18:19:07	O2	6.10	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	13.9	ppm	R	NOx	285.6	ppm	R
05/17/07	18:19:17	O2	6.10	%	R	CO2	8.57	%	R	CO	6.8	ppm	R	THC	10.0	ppm	R	NOx	293.0	ppm	R
05/17/07	18:19:27	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	12.0	ppm	R	NOx	283.2	ppm	R
05/17/07	18:19:37	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	9.8	ppm	R	NOx	288.1	ppm	R
05/17/07	18:19:47	O2	5.98	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	26.1	ppm	R	NOx	285.6	ppm	R
05/17/07	18:19:57	O2	5.98	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	32.4	ppm	R	NOx	285.6	ppm	R
05/17/07	18:20:07	O2	6.10	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	20.7	ppm	R	NOx	283.2	ppm	R
05/17/07	18:20:17	O2	5.98	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	13.2	ppm	R	NOx	288.1	ppm	R
05/17/07	18:20:27	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	10.6	ppm	R	NOx	290.5	ppm	R
05/17/07	18:20:37	O2	6.10	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	9.0	ppm	R	NOx	288.1	ppm	R
05/17/07	18:20:47	O2	6.10	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	283.2	ppm	R
05/17/07	18:20:57	O2	6.10	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	9.7	ppm	R	NOx	290.5	ppm	R
05/17/07	18:21:07	O2	6.23	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	5.5	ppm	R	NOx	290.5	ppm	R
05/17/07	18:21:17	O2	6.23	%	R	CO2	8.57	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	293.0	ppm	R
05/17/07	18:21:27	O2	6.23	%	R	CO2	8.64	%	R	CO	5.9	ppm	R	THC	5.9	ppm	R	NOx	297.9	ppm	R
05/17/07	18:21:37	O2	6.35	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	305.2	ppm	R
05/17/07	18:21:47	O2	6.35	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	9.2	ppm	R	NOx	302.7	ppm	R
05/17/07	18:21:57	O2	6.47	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	6.8	ppm	R	NOx	307.6	ppm	R
05/17/07	18:22:07	O2	6.35	%	R	CO2	8.42	%	R	CO	5.9	ppm	R	THC	9.4	ppm	R	NOx	307.6	ppm	R
05/17/07	18:22:17	O2	6.35	%	R	CO2	8.42	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	310.1	ppm	R
05/17/07	18:22:27	O2	6.59	%	R	CO2	8.35	%	R	CO	5.9	ppm	R	THC	8.8	ppm	R	NOx	310.1	ppm	R
05/17/07	18:22:37	O2	6.47	%	R	CO2	8.42	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	300.3	ppm	R
05/17/07	18:22:47	O2	6.47	%	R	CO2	8.42	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	290.5	ppm	R
05/17/07	18:22:57	O2	6.35	%	R	CO2	8.50	%	R	CO	5.9	ppm	R	THC	0.9	ppm	R	NOx	271.0	ppm	R
05/17/07	18:23:07	O2	6.10	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	256.4	ppm	R
05/17/07	18:23:17	O2	5.98	%	R	CO2	8.72	%	R	CO	5.9	ppm	R	THC	22.2	ppm	R	NOx	241.7	ppm	R
05/17/07	18:23:27	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	17.3	ppm	R	NOx	234.4	ppm	R
05/17/07	18:23:37	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	12.3	ppm	R	NOx	229.5	ppm	R
05/17/07	18:23:47	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	219.7	ppm	R
05/17/07	18:23:57	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	12.9	ppm	R	NOx	222.2	ppm	R
05/17/07	18:24:07	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	10.9	ppm	R	NOx	224.6	ppm	R

05/17/07	18:24:17	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	10.4	ppm	R	NOx	222.2	ppm	R
05/17/07	18:24:27	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	7.0	ppm	R	NOx	222.2	ppm	R
05/17/07	18:24:37	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	214.8	ppm	R
05/17/07	18:24:47	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	217.3	ppm	R
05/17/07	18:24:57	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	207.5	ppm	R
05/17/07	18:25:07	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	210.0	ppm	R
05/17/07	18:25:17	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	24.7	ppm	R	NOx	210.0	ppm	R
05/17/07	18:25:27	O2	5.86	%	R	CO2	9.01	%	R	CO	6.8	ppm	R	THC	29.4	ppm	R	NOx	207.5	ppm	R
05/17/07	18:25:37	O2	5.98	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	15.3	ppm	R	NOx	212.4	ppm	R
05/17/07	18:25:47	O2	5.98	%	R	CO2	8.79	%	R	CO	6.8	ppm	R	THC	13.3	ppm	R	NOx	214.8	ppm	R
05/17/07	18:25:57	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	10.8	ppm	R	NOx	217.3	ppm	R
05/17/07	18:26:07	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	217.3	ppm	R
05/17/07	18:26:17	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	212.4	ppm	R
05/17/07	18:26:27	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	7.0	ppm	R	NOx	210.0	ppm	R
05/17/07	18:26:37	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	205.1	ppm	R
05/17/07	18:26:47	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	24.4	ppm	R	NOx	205.1	ppm	R
05/17/07	18:26:57	O2	5.86	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	34.6	ppm	R	NOx	210.0	ppm	R
05/17/07	18:27:07	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	30.6	ppm	R	NOx	210.0	ppm	R
05/17/07	18:27:17	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	11.7	ppm	R	NOx	214.8	ppm	R
05/17/07	18:27:27	O2	5.86	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	8.7	ppm	R	NOx	210.0	ppm	R
05/17/07	18:27:37	O2	5.98	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	207.5	ppm	R
05/17/07	18:27:47	O2	6.10	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	5.8	ppm	R	NOx	207.5	ppm	R
05/17/07	18:27:57	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	7.9	ppm	R	NOx	202.6	ppm	R
05/17/07	18:28:07	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	10.8	ppm	R	NOx	197.8	ppm	R
05/17/07	18:28:17	O2	6.10	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	14.0	ppm	R	NOx	197.8	ppm	R
05/17/07	18:28:27	O2	6.10	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	30.8	ppm	R	NOx	197.8	ppm	R
05/17/07	18:28:37	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	19.5	ppm	R	NOx	205.1	ppm	R
05/17/07	18:28:47	O2	6.10	%	R	CO2	8.79	%	R	CO	5.9	ppm	R	THC	14.9	ppm	R	NOx	205.1	ppm	R
05/17/07	18:28:57	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	8.9	ppm	R	NOx	207.5	ppm	R
05/17/07	18:29:07	O2	5.98	%	R	CO2	8.86	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	202.6	ppm	R
05/17/07	18:29:17	O2	5.98	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	1.3	ppm	R	NOx	195.3	ppm	R
05/17/07	18:29:27	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	10.2	ppm	R	NOx	192.9	ppm	R
05/17/07	18:29:37	O2	5.98	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	27.4	ppm	R	NOx	197.8	ppm	R
05/17/07	18:29:47	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	29.4	ppm	R	NOx	195.3	ppm	R
05/17/07	18:29:57	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	36.7	ppm	R	NOx	200.2	ppm	R
05/17/07	18:30:07	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	34.1	ppm	R	NOx	195.3	ppm	R
05/17/07	18:30:17	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	21.3	ppm	R	NOx	188.0	ppm	R
05/17/07	18:30:27	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	13.5	ppm	R	NOx	185.6	ppm	R
05/17/07	18:30:37	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	185.6	ppm	R
05/17/07	18:30:47	O2	5.86	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	190.4	ppm	R

05/17/07	18:30:57	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	17.3	ppm	R	NOx	190.4	ppm	R
05/17/07	18:31:07	O2	5.86	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	25.5	ppm	R	NOx	190.4	ppm	R
05/17/07	18:31:17	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	15.2	ppm	R	NOx	190.4	ppm	R
05/17/07	18:31:27	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	29.9	ppm	R	NOx	190.4	ppm	R
05/17/07	18:31:37	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	26.8	ppm	R	NOx	192.9	ppm	R
05/17/07	18:31:47	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	23.3	ppm	R	NOx	190.4	ppm	R
05/17/07	18:31:57	O2	5.74	%	R	CO2	8.94	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	190.4	ppm	R
05/17/07	18:32:07	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	10.3	ppm	R	NOx	190.4	ppm	R
05/17/07	18:32:17	O2	5.74	%	R	CO2	9.01	%	R	CO	5.9	ppm	R	THC	9.3	ppm	R	NOx	188.0	ppm	R
05/17/07	18:32:27	O2	5.62	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	3.6	ppm	R	NOx	178.2	ppm	R
05/17/07	18:32:37	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	1.5	ppm	R	NOx	173.3	ppm	R
05/17/07	18:32:47	O2	5.74	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	19.3	ppm	R	NOx	173.3	ppm	R
05/17/07	18:32:57	O2	5.49	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	25.3	ppm	R	NOx	170.9	ppm	R
05/17/07	18:33:07	O2	5.62	%	R	CO2	9.23	%	R	CO	5.9	ppm	R	THC	22.8	ppm	R	NOx	168.5	ppm	R
05/17/07	18:33:17	O2	5.74	%	R	CO2	9.08	%	R	CO	5.9	ppm	R	THC	13.2	ppm	R	NOx	170.9	ppm	R
05/17/07	18:33:27	O2	5.74	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	11.3	ppm	R	NOx	170.9	ppm	R
05/17/07	18:33:37	O2	5.62	%	R	CO2	9.16	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	166.0	ppm	R
05/17/07	18:33:47	O2	5.62	%	R	CO2	9.30	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	163.6	ppm	R
05/17/07	18:33:57	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	21.3	ppm	R	NOx	163.6	ppm	R
05/17/07	18:34:07	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	23.1	ppm	R	NOx	158.7	ppm	R
05/17/07	18:34:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	18.3	ppm	R	NOx	156.3	ppm	R
05/17/07	18:34:27	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	27.0	ppm	R	NOx	158.7	ppm	R
05/17/07	18:34:37	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	28.0	ppm	R	NOx	156.3	ppm	R
05/17/07	18:34:47	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	17.7	ppm	R	NOx	156.3	ppm	R
05/17/07	18:34:57	O2	5.37	%	R	CO2	9.37	%	R	CO	5.9	ppm	R	THC	13.7	ppm	R	NOx	158.7	ppm	R
05/17/07	18:35:07	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	9.2	ppm	R	NOx	161.1	ppm	R
05/17/07	18:35:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	148.9	ppm	R
05/17/07	18:35:27	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	8.5	ppm	R	NOx	158.7	ppm	R
05/17/07	18:35:37	O2	5.25	%	R	CO2	9.59	%	R	CO	6.8	ppm	R	THC	5.5	ppm	R	NOx	151.4	ppm	R
05/17/07	18:35:47	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	146.5	ppm	R
05/17/07	18:35:57	O2	5.25	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	15.8	ppm	R	NOx	148.9	ppm	R
05/17/07	18:36:07	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	22.0	ppm	R	NOx	151.4	ppm	R
05/17/07	18:36:17	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	21.7	ppm	R	NOx	156.3	ppm	R
05/17/07	18:36:27	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	14.8	ppm	R	NOx	158.7	ppm	R
05/17/07	18:36:37	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.7	ppm	R	NOx	156.3	ppm	R
05/17/07	18:36:47	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	22.5	ppm	R	NOx	161.1	ppm	R
05/17/07	18:36:57	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	24.7	ppm	R	NOx	163.6	ppm	R
05/17/07	18:37:07	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	17.2	ppm	R	NOx	161.1	ppm	R
05/17/07	18:37:17	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	12.3	ppm	R	NOx	158.7	ppm	R
05/17/07	18:37:27	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	9.7	ppm	R	NOx	156.3	ppm	R

05/17/07	18:37:37	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	2.9	ppm	R	NOx	156.3	ppm	R
05/17/07	18:37:47	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	10.6	ppm	R	NOx	156.3	ppm	R
05/17/07	18:37:57	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	25.4	ppm	R	NOx	153.8	ppm	R
05/17/07	18:38:07	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	30.0	ppm	R	NOx	146.5	ppm	R
05/17/07	18:38:17	O2	5.25	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	25.2	ppm	R	NOx	148.9	ppm	R
05/17/07	18:38:27	O2	5.37	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	22.3	ppm	R	NOx	151.4	ppm	R
05/17/07	18:38:37	O2	5.37	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	23.2	ppm	R	NOx	151.4	ppm	R
05/17/07	18:38:47	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	11.0	ppm	R	NOx	151.4	ppm	R
05/17/07	18:38:57	O2	5.25	%	R	CO2	9.45	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	146.5	ppm	R
05/17/07	18:39:07	O2	5.25	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	148.9	ppm	R
05/17/07	18:39:17	O2	5.37	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	31.5	ppm	R	NOx	146.5	ppm	R
05/17/07	18:39:27	O2	5.13	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	26.2	ppm	R	NOx	141.6	ppm	R
05/17/07	18:39:37	O2	5.13	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	11.7	ppm	R	NOx	141.6	ppm	R
05/17/07	18:39:47	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	5.0	ppm	R	NOx	136.7	ppm	R
05/17/07	18:39:57	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	136.7	ppm	R
05/17/07	18:40:07	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	6.7	ppm	R	NOx	139.2	ppm	R
05/17/07	18:40:17	O2	5.13	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	5.2	ppm	R	NOx	139.2	ppm	R
05/17/07	18:40:27	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	23.4	ppm	R	NOx	139.2	ppm	R
05/17/07	18:40:37	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	14.1	ppm	R	NOx	139.2	ppm	R
05/17/07	18:40:47	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	12.4	ppm	R	NOx	139.2	ppm	R
05/17/07	18:40:57	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	136.7	ppm	R
05/17/07	18:41:07	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	134.3	ppm	R
05/17/07	18:41:17	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	136.7	ppm	R
05/17/07	18:41:27	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.6	ppm	R	NOx	134.3	ppm	R
05/17/07	18:41:37	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.9	ppm	R	NOx	134.3	ppm	R
05/17/07	18:41:47	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	7.5	ppm	R	NOx	134.3	ppm	R
05/17/07	18:41:57	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	8.6	ppm	R	NOx	134.3	ppm	R
05/17/07	18:42:07	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	19.6	ppm	R	NOx	131.8	ppm	R
05/17/07	18:42:17	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	15.8	ppm	R	NOx	134.3	ppm	R
05/17/07	18:42:27	O2	4.88	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	8.5	ppm	R	NOx	131.8	ppm	R
05/17/07	18:42:37	O2	4.88	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	127.0	ppm	R
05/17/07	18:42:47	O2	4.76	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	8.4	ppm	R	NOx	131.8	ppm	R
05/17/07	18:42:57	O2	4.88	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	129.4	ppm	R
05/17/07	18:43:07	O2	4.88	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	4.7	ppm	R	NOx	131.8	ppm	R
05/17/07	18:43:17	O2	5.00	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	4.8	ppm	R	NOx	129.4	ppm	R
05/17/07	18:43:27	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	129.4	ppm	R
05/17/07	18:43:37	O2	5.00	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.1	ppm	R	NOx	127.0	ppm	R
05/17/07	18:43:47	O2	5.00	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	2.4	ppm	R	NOx	127.0	ppm	R
05/17/07	18:43:57	O2	4.88	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	3.4	ppm	R	NOx	127.0	ppm	R
05/17/07	18:44:07	O2	4.88	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R

05/17/07	18:44:17	O2	5.13	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/17/07	18:44:27	O2	5.13	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	131.8	ppm	R
05/17/07	18:44:37	O2	5.13	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	2.6	ppm	R	NOx	129.4	ppm	R
05/17/07	18:44:47	O2	5.13	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	4.1	ppm	R	NOx	131.8	ppm	R
05/17/07	18:44:57	O2	5.13	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/17/07	18:45:07	O2	5.13	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	129.4	ppm	R
05/17/07	18:45:17	O2	5.37	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	136.7	ppm	R
05/17/07	18:45:27	O2	5.37	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	4.4	ppm	R	NOx	131.8	ppm	R
05/17/07	18:45:37	O2	5.25	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	2.7	ppm	R	NOx	134.3	ppm	R
05/17/07	18:45:47	O2	5.25	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	7.2	ppm	R	NOx	134.3	ppm	R
05/17/07	18:45:57	O2	5.25	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	5.1	ppm	R	NOx	136.7	ppm	R
05/17/07	18:46:07	O2	5.25	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/17/07	18:46:17	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	141.6	ppm	R
05/17/07	18:46:27	O2	5.13	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	6.8	ppm	R	NOx	144.0	ppm	R
05/17/07	18:46:37	O2	5.25	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	4.7	ppm	R	NOx	144.0	ppm	R
05/17/07	18:46:47	O2	5.37	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	3.2	ppm	R	NOx	144.0	ppm	R
05/17/07	18:46:57	O2	5.37	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	6.0	ppm	R	NOx	146.5	ppm	R
05/17/07	18:47:07	O2	5.37	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	8.2	ppm	R	NOx	148.9	ppm	R
05/17/07	18:47:17	O2	5.25	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	141.6	ppm	R
05/17/07	18:47:27	O2	5.25	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	2.8	ppm	R	NOx	139.2	ppm	R
05/17/07	18:47:37	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	139.2	ppm	R
05/17/07	18:47:47	O2	5.25	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	6.4	ppm	R	NOx	136.7	ppm	R
05/17/07	18:47:57	O2	5.25	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	7.6	ppm	R	NOx	136.7	ppm	R
05/17/07	18:48:07	O2	5.13	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	3.2	ppm	R	NOx	134.3	ppm	R
05/17/07	18:48:17	O2	5.25	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	4.2	ppm	R	NOx	134.3	ppm	R
05/17/07	18:48:27	O2	5.25	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	3.8	ppm	R	NOx	139.2	ppm	R
05/17/07	18:48:37	O2	5.25	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	2.7	ppm	R	NOx	141.6	ppm	R
05/17/07	18:48:47	O2	5.25	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	2.6	ppm	R	NOx	144.0	ppm	R
05/17/07	18:48:57	O2	5.25	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	146.5	ppm	R
05/17/07	18:49:07	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	146.5	ppm	R
05/17/07	18:49:17	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	0.5	ppm	R	NOx	146.5	ppm	R
05/17/07	18:49:27	O2	5.00	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	3.1	ppm	R	NOx	141.6	ppm	R
05/17/07	18:49:37	O2	5.00	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	6.3	ppm	R	NOx	144.0	ppm	R
05/17/07	18:49:47	O2	5.13	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	6.7	ppm	R	NOx	144.0	ppm	R
05/17/07	18:49:57	O2	5.13	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	7.1	ppm	R	NOx	151.4	ppm	R
05/17/07	18:50:07	O2	5.25	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	6.9	ppm	R	NOx	146.5	ppm	R
05/17/07	18:50:17	O2	5.13	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	7.7	ppm	R	NOx	148.9	ppm	R
05/17/07	18:50:27	O2	5.00	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	8.4	ppm	R	NOx	144.0	ppm	R
05/17/07	18:50:37	O2	5.00	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	7.9	ppm	R	NOx	146.5	ppm	R
05/17/07	18:50:47	O2	5.13	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	7.6	ppm	R	NOx	148.9	ppm	R

05/17/07	18:50:57	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	153.8	ppm	R
05/17/07	18:51:07	O2	5.13	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	13.2	ppm	R	NOx	151.4	ppm	R
05/17/07	18:51:17	O2	5.13	%	R	CO2	9.67	%	R	CO	4.9	ppm	R	THC	27.1	ppm	R	NOx	151.4	ppm	R
05/17/07	18:51:27	O2	5.00	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	27.0	ppm	R	NOx	153.8	ppm	R
05/17/07	18:51:37	O2	4.88	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	14.9	ppm	R	NOx	156.3	ppm	R
05/17/07	18:51:47	O2	4.88	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	4.2	ppm	R	NOx	148.9	ppm	R
05/17/07	18:51:57	O2	4.76	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	5.7	ppm	R	NOx	151.4	ppm	R
05/17/07	18:52:07	O2	4.64	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	3.8	ppm	R	NOx	146.5	ppm	R
05/17/07	18:52:17	O2	4.64	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	6.5	ppm	R	NOx	146.5	ppm	R
05/17/07	18:52:27	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	6.6	ppm	R	NOx	146.5	ppm	R
05/17/07	18:52:37	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	139.2	ppm	R
05/17/07	18:52:47	O2	4.52	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	1.2	ppm	R	NOx	144.0	ppm	R
05/17/07	18:52:57	O2	4.39	%	R	CO2	10.03	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	139.2	ppm	R
05/17/07	18:53:07	O2	4.27	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	8.2	ppm	R	NOx	139.2	ppm	R
05/17/07	18:53:17	O2	4.27	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	7.6	ppm	R	NOx	139.2	ppm	R
05/17/07	18:53:27	O2	4.39	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	-0.0	ppm	R	NOx	139.2	ppm	R
05/17/07	18:53:37	O2	4.39	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	0.3	ppm	R	NOx	141.6	ppm	R
05/17/07	18:53:47	O2	4.52	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	5.7	ppm	R	NOx	151.4	ppm	R
05/17/07	18:53:57	O2	4.76	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	1.7	ppm	R	NOx	144.0	ppm	R
05/17/07	18:54:07	O2	4.64	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	2.8	ppm	R	NOx	151.4	ppm	R
05/17/07	18:54:17	O2	4.76	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	148.9	ppm	R
05/17/07	18:54:27	O2	4.64	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	6.1	ppm	R	NOx	148.9	ppm	R
05/17/07	18:54:37	O2	4.52	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	136.7	ppm	R
05/17/07	18:54:47	O2	4.39	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.1	ppm	R	NOx	131.8	ppm	R
05/17/07	18:54:57	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/17/07	18:55:07	O2	4.27	%	R	CO2	10.03	%	R	CO	6.8	ppm	R	THC	8.8	ppm	R	NOx	129.4	ppm	R
05/17/07	18:55:17	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	16.0	ppm	R	NOx	131.8	ppm	R
05/17/07	18:55:27	O2	4.39	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	22.7	ppm	R	NOx	129.4	ppm	R
05/17/07	18:55:37	O2	4.15	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	10.7	ppm	R	NOx	119.6	ppm	R
05/17/07	18:55:47	O2	4.03	%	R	CO2	10.40	%	R	CO	6.8	ppm	R	THC	3.4	ppm	R	NOx	119.6	ppm	R
05/17/07	18:55:57	O2	4.15	%	R	CO2	10.25	%	R	CO	7.8	ppm	R	THC	1.9	ppm	R	NOx	129.4	ppm	R
05/17/07	18:56:07	O2	4.27	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	1.0	ppm	R	NOx	134.3	ppm	R
05/17/07	18:56:17	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	1.1	ppm	R	NOx	134.3	ppm	R
05/17/07	18:56:27	O2	4.27	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	3.8	ppm	R	NOx	136.7	ppm	R
05/17/07	18:56:37	O2	4.27	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	6.3	ppm	R	NOx	129.4	ppm	R
05/17/07	18:56:47	O2	4.39	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	1.9	ppm	R	NOx	127.0	ppm	R
05/17/07	18:56:57	O2	4.15	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	122.1	ppm	R
05/17/07	18:57:07	O2	4.15	%	R	CO2	10.33	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/17/07	18:57:17	O2	4.15	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	0.6	ppm	R	NOx	122.1	ppm	R
05/17/07	18:57:27	O2	4.27	%	R	CO2	10.25	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R

05/17/07	18:57:37	O2	4.39	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/17/07	18:57:47	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	1.0	ppm	R	NOx	124.5	ppm	R
05/17/07	18:57:57	O2	4.39	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	4.0	ppm	R	NOx	129.4	ppm	R
05/17/07	18:58:07	O2	4.27	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	5.1	ppm	R	NOx	127.0	ppm	R
05/17/07	18:58:17	O2	4.27	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	4.2	ppm	R	NOx	122.1	ppm	R
05/17/07	18:58:27	O2	4.27	%	R	CO2	10.18	%	R	CO	5.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/17/07	18:58:37	O2	4.27	%	R	CO2	10.25	%	R	CO	5.9	ppm	R	THC	0.2	ppm	R	NOx	124.5	ppm	R
05/17/07	18:58:47	O2	4.15	%	R	CO2	10.18	%	R	CO	6.8	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/17/07	18:58:57	O2	4.39	%	R	CO2	10.11	%	R	CO	6.8	ppm	R	THC	1.4	ppm	R	NOx	131.8	ppm	R
05/17/07	18:59:07	O2	4.52	%	R	CO2	9.96	%	R	CO	6.8	ppm	R	THC	6.4	ppm	R	NOx	134.3	ppm	R
05/17/07	18:59:17	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	131.8	ppm	R
05/17/07	18:59:27	O2	4.52	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	8.0	ppm	R	NOx	131.8	ppm	R
05/17/07	18:59:37	O2	4.64	%	R	CO2	10.11	%	R	CO	5.9	ppm	R	THC	20.1	ppm	R	NOx	136.7	ppm	R
05/17/07	18:59:47	O2	4.64	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	17.3	ppm	R	NOx	141.6	ppm	R
05/17/07	18:59:57	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	12.3	ppm	R	NOx	139.2	ppm	R
05/17/07	19:00:07	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	136.7	ppm	R
05/17/07	19:00:17	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	2.3	ppm	R	NOx	141.6	ppm	R
05/17/07	19:00:27	O2	4.52	%	R	CO2	9.96	%	R	CO	5.9	ppm	R	THC	4.9	ppm	R	NOx	139.2	ppm	R
05/17/07	19:00:37	O2	4.52	%	R	CO2	9.89	%	R	CO	5.9	ppm	R	THC	6.0	ppm	R	NOx	141.6	ppm	R
05/17/07	19:00:47	O2	4.64	%	R	CO2	9.81	%	R	CO	5.9	ppm	R	THC	5.1	ppm	R	NOx	136.7	ppm	R
05/17/07	19:00:57	O2	4.64	%	R	CO2	9.74	%	R	CO	5.9	ppm	R	THC	5.6	ppm	R	NOx	144.0	ppm	R
05/17/07	19:01:07	O2	4.76	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	0.3	ppm	R	NOx	148.9	ppm	R
05/17/07	19:01:17	O2	4.88	%	R	CO2	9.67	%	R	CO	5.9	ppm	R	THC	1.8	ppm	R	NOx	153.8	ppm	R
05/17/07	19:01:27	O2	4.88	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	2.1	ppm	R	NOx	151.4	ppm	R
05/17/07	19:01:37	O2	4.76	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	5.4	ppm	R	NOx	156.3	ppm	R
05/17/07	19:01:47	O2	4.76	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	151.4	ppm	R
05/17/07	19:01:57	O2	4.88	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	3.7	ppm	R	NOx	151.4	ppm	R
05/17/07	19:02:07	O2	4.76	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	5.3	ppm	R	NOx	153.8	ppm	R
05/17/07	19:02:17	O2	4.76	%	R	CO2	9.59	%	R	CO	5.9	ppm	R	THC	0.8	ppm	R	NOx	156.3	ppm	R
05/17/07	19:02:27	O2	4.76	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	156.3	ppm	R
05/17/07	19:02:37	O2	4.88	%	R	CO2	9.52	%	R	CO	5.9	ppm	R	THC	3.2	ppm	R	NOx	156.3	ppm	R
05/17/07	19:02:47	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	1.8	ppm	R	NOx	156.3	ppm	R
05/17/07	19:02:57	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	1.9	ppm	R	NOx	156.3	ppm	R
05/17/07	19:03:07	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.3	ppm	R	NOx	158.7	ppm	R
05/17/07	19:03:17	O2	4.88	%	R	CO2	9.52	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	158.7	ppm	R
05/17/07	19:03:27	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	2.5	ppm	R	NOx	163.6	ppm	R
05/17/07	19:03:37	O2	5.13	%	R	CO2	9.37	%	R	CO	4.9	ppm	R	THC	0.7	ppm	R	NOx	163.6	ppm	R
05/17/07	19:03:47	O2	5.00	%	R	CO2	9.45	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	166.0	ppm	R
05/17/07	19:03:57	O2	4.88	%	R	CO2	9.59	%	R	CO	4.9	ppm	R	THC	0.9	ppm	R	NOx	153.8	ppm	R
05/17/07	19:04:07	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	148.9	ppm	R

05/17/07	19:04:17	O2	4.76	%	R	CO2	9.74	%	R	CO	4.9	ppm	R	THC	0.0	ppm	R	NOx	148.9	ppm	R
	Avg		5.16				9.46				10.2				7.8				181.4		

das4

GTI
Location G2
DAS Data
Run No. 2 D/F, PCB's

05/18/07	08:29:09	O2	5.37	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/18/07	08:29:17	O2	5.37	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	2.0	ppm	R	NOx	127.0	ppm	R
05/18/07	08:29:27	O2	5.37	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/18/07	08:29:37	O2	5.37	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:29:47	O2	5.49	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:29:57	O2	5.49	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:30:07	O2	6.10	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	6.5	ppm	R	NOx	129.4	ppm	R
05/18/07	08:30:17	O2	5.86	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	6.8	ppm	R	NOx	134.3	ppm	R
05/18/07	08:30:27	O2	5.86	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	5.0	ppm	R	NOx	129.4	ppm	R
05/18/07	08:30:37	O2	5.74	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	6.3	ppm	R	NOx	127.0	ppm	R
05/18/07	08:30:47	O2	6.10	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.4	ppm	R	NOx	114.8	ppm	R
05/18/07	08:30:57	O2	6.23	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	5.6	ppm	R	NOx	114.8	ppm	R
05/18/07	08:31:07	O2	6.35	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.9	ppm	R	NOx	112.3	ppm	R
05/18/07	08:31:17	O2	6.23	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	0.4	ppm	R	NOx	112.3	ppm	R
05/18/07	08:31:27	O2	6.23	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	08:31:37	O2	6.23	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	08:31:47	O2	6.35	%	R	CO2	8.79	%	R	CO	3.9	ppm	R	THC	-0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	08:31:57	O2	6.47	%	R	CO2	8.57	%	R	CO	3.9	ppm	R	THC	4.1	ppm	R	NOx	119.6	ppm	R
05/18/07	08:32:07	O2	6.35	%	R	CO2	8.64	%	R	CO	3.9	ppm	R	THC	4.2	ppm	R	NOx	124.5	ppm	R
05/18/07	08:32:17	O2	5.86	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:32:27	O2	5.62	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	139.2	ppm	R
05/18/07	08:32:37	O2	5.62	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	6.4	ppm	R	NOx	141.6	ppm	R
05/18/07	08:32:47	O2	5.86	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	2.3	ppm	R	NOx	134.3	ppm	R
05/18/07	08:32:57	O2	5.86	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/18/07	08:33:07	O2	5.98	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	124.5	ppm	R
05/18/07	08:33:17	O2	6.10	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	1.7	ppm	R	NOx	119.6	ppm	R
05/18/07	08:33:27	O2	5.98	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/18/07	08:33:37	O2	5.86	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	114.8	ppm	R
05/18/07	08:33:47	O2	6.10	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	2.2	ppm	R	NOx	112.3	ppm	R
05/18/07	08:33:57	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	112.3	ppm	R
05/18/07	08:34:07	O2	6.10	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	5.2	ppm	R	NOx	117.2	ppm	R
05/18/07	08:34:17	O2	6.23	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.2	ppm	R	NOx	117.2	ppm	R
05/18/07	08:34:27	O2	5.98	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	6.2	ppm	R	NOx	122.1	ppm	R
05/18/07	08:34:37	O2	6.10	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	122.1	ppm	R
05/18/07	08:34:47	O2	5.86	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	4.7	ppm	R	NOx	127.0	ppm	R
05/18/07	08:34:57	O2	5.49	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	2.9	ppm	R	NOx	131.8	ppm	R

05/18/07	08:35:07	O2	5.25	%	R	CO2	9.37	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:35:17	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.1	ppm	R	NOx	129.4	ppm	R
05/18/07	08:35:27	O2	5.49	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/18/07	08:35:37	O2	5.49	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/18/07	08:35:47	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	2.6	ppm	R	NOx	124.5	ppm	R
05/18/07	08:35:57	O2	5.49	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	4.7	ppm	R	NOx	122.1	ppm	R
05/18/07	08:36:07	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	6.5	ppm	R	NOx	119.6	ppm	R
05/18/07	08:36:17	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	3.3	ppm	R	NOx	119.6	ppm	R
05/18/07	08:36:27	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.4	ppm	R	NOx	114.8	ppm	R
05/18/07	08:36:37	O2	5.25	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	3.8	ppm	R	NOx	117.2	ppm	R
05/18/07	08:36:47	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/18/07	08:36:57	O2	5.25	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	08:37:07	O2	5.37	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	1.3	ppm	R	NOx	122.1	ppm	R
05/18/07	08:37:17	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	3.5	ppm	R	NOx	129.4	ppm	R
05/18/07	08:37:27	O2	5.37	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	-0.1	ppm	R	NOx	129.4	ppm	R
05/18/07	08:37:37	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	4.2	ppm	R	NOx	131.8	ppm	R
05/18/07	08:37:47	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	5.3	ppm	R	NOx	131.8	ppm	R
05/18/07	08:37:57	O2	5.25	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	5.7	ppm	R	NOx	124.5	ppm	R
05/18/07	08:38:07	O2	5.25	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	119.6	ppm	R
05/18/07	08:38:17	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	5.5	ppm	R	NOx	119.6	ppm	R
05/18/07	08:38:27	O2	5.00	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	1.2	ppm	R	NOx	112.3	ppm	R
05/18/07	08:38:37	O2	5.00	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:38:47	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	3.1	ppm	R	NOx	109.9	ppm	R
05/18/07	08:38:57	O2	5.00	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	3.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:39:07	O2	5.00	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/18/07	08:39:17	O2	5.00	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	5.5	ppm	R	NOx	117.2	ppm	R
05/18/07	08:39:27	O2	5.00	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	6.0	ppm	R	NOx	122.1	ppm	R
05/18/07	08:39:37	O2	5.00	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	6.2	ppm	R	NOx	124.5	ppm	R
05/18/07	08:39:47	O2	5.13	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	33.3	ppm	R	NOx	124.5	ppm	R
05/18/07	08:39:57	O2	5.00	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	8.4	ppm	R	NOx	124.5	ppm	R
05/18/07	08:40:07	O2	5.00	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	5.6	ppm	R	NOx	124.5	ppm	R
05/18/07	08:40:17	O2	5.00	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	3.5	ppm	R	NOx	119.6	ppm	R
05/18/07	08:40:27	O2	5.00	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	117.2	ppm	R
05/18/07	08:40:37	O2	5.00	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	2.5	ppm	R	NOx	119.6	ppm	R
05/18/07	08:40:47	O2	5.00	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/18/07	08:40:57	O2	5.00	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	3.6	ppm	R	NOx	114.8	ppm	R
05/18/07	08:41:07	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	3.7	ppm	R	NOx	109.9	ppm	R
05/18/07	08:41:17	O2	4.76	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	6.6	ppm	R	NOx	109.9	ppm	R
05/18/07	08:41:27	O2	4.64	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	3.8	ppm	R	NOx	107.4	ppm	R
05/18/07	08:41:37	O2	4.64	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	1.5	ppm	R	NOx	107.4	ppm	R

05/18/07	08:41:47	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:41:57	O2	4.76	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:42:07	O2	4.76	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:42:17	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	08:42:27	O2	4.88	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	5.3	ppm	R	NOx	117.2	ppm	R
05/18/07	08:42:37	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	0.2	ppm	R	NOx	117.2	ppm	R
05/18/07	08:42:47	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	4.9	ppm	R	NOx	117.2	ppm	R
05/18/07	08:42:57	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	3.8	ppm	R	NOx	114.8	ppm	R
05/18/07	08:43:07	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	4.7	ppm	R	NOx	112.3	ppm	R
05/18/07	08:43:17	O2	4.64	%	R	CO2	9.89	%	R	CO	3.9	ppm	R	THC	6.2	ppm	R	NOx	107.4	ppm	R
05/18/07	08:43:27	O2	4.64	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	-0.0	ppm	R	NOx	105.0	ppm	R
05/18/07	08:43:37	O2	4.64	%	R	CO2	10.03	%	R	CO	3.9	ppm	R	THC	1.6	ppm	R	NOx	102.5	ppm	R
05/18/07	08:43:47	O2	4.76	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/18/07	08:43:57	O2	4.76	%	R	CO2	10.03	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/18/07	08:44:07	O2	4.64	%	R	CO2	10.03	%	R	CO	3.9	ppm	R	THC	0.5	ppm	R	NOx	107.4	ppm	R
05/18/07	08:44:17	O2	4.64	%	R	CO2	10.11	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/18/07	08:44:27	O2	4.52	%	R	CO2	10.18	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	107.4	ppm	R
05/18/07	08:44:37	O2	4.52	%	R	CO2	10.18	%	R	CO	3.9	ppm	R	THC	3.3	ppm	R	NOx	107.4	ppm	R
05/18/07	08:44:47	O2	4.64	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	112.3	ppm	R
05/18/07	08:44:57	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	2.2	ppm	R	NOx	109.9	ppm	R
05/18/07	08:45:07	O2	4.64	%	R	CO2	9.89	%	R	CO	3.9	ppm	R	THC	3.5	ppm	R	NOx	112.3	ppm	R
05/18/07	08:45:17	O2	4.76	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	3.7	ppm	R	NOx	114.8	ppm	R
05/18/07	08:45:27	O2	4.76	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	5.1	ppm	R	NOx	107.4	ppm	R
05/18/07	08:45:37	O2	4.76	%	R	CO2	9.89	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/18/07	08:45:47	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/18/07	08:45:57	O2	4.64	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	4.2	ppm	R	NOx	105.0	ppm	R
05/18/07	08:46:07	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	4.0	ppm	R	NOx	107.4	ppm	R
05/18/07	08:46:17	O2	4.88	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	1.4	ppm	R	NOx	105.0	ppm	R
05/18/07	08:46:27	O2	4.88	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/18/07	08:46:37	O2	4.88	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	4.4	ppm	R	NOx	107.4	ppm	R
05/18/07	08:46:47	O2	4.76	%	R	CO2	9.81	%	R	CO	3.9	ppm	R	THC	3.6	ppm	R	NOx	107.4	ppm	R
05/18/07	08:46:57	O2	4.76	%	R	CO2	9.89	%	R	CO	3.9	ppm	R	THC	5.6	ppm	R	NOx	109.9	ppm	R
05/18/07	08:47:07	O2	4.64	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	4.6	ppm	R	NOx	107.4	ppm	R
05/18/07	08:47:17	O2	4.64	%	R	CO2	10.03	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	105.0	ppm	R
05/18/07	08:47:27	O2	4.64	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	0.2	ppm	R	NOx	109.9	ppm	R
05/18/07	08:47:37	O2	4.52	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	0.8	ppm	R	NOx	109.9	ppm	R
05/18/07	08:47:47	O2	4.64	%	R	CO2	9.96	%	R	CO	4.9	ppm	R	THC	3.4	ppm	R	NOx	107.4	ppm	R
05/18/07	08:47:57	O2	4.64	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	3.3	ppm	R	NOx	107.4	ppm	R
05/18/07	08:48:07	O2	4.64	%	R	CO2	10.03	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/18/07	08:48:17	O2	4.52	%	R	CO2	10.11	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R

05/18/07	08:48:27	O2	4.52	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	4.5	ppm	R	NOx	102.5	ppm	R
05/18/07	08:48:37	O2	4.52	%	R	CO2	10.18	%	R	CO	4.9	ppm	R	THC	4.4	ppm	R	NOx	102.5	ppm	R
05/18/07	08:48:47	O2	4.39	%	R	CO2	10.11	%	R	CO	4.9	ppm	R	THC	4.8	ppm	R	NOx	100.1	ppm	R
05/18/07	08:48:57	O2	4.52	%	R	CO2	9.89	%	R	CO	4.9	ppm	R	THC	2.3	ppm	R	NOx	97.7	ppm	R
05/18/07	08:49:07	O2	4.39	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	2.3	ppm	R	NOx	97.7	ppm	R
05/18/07	08:49:17	O2	4.52	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	97.7	ppm	R
05/18/07	08:49:27	O2	4.52	%	R	CO2	9.96	%	R	CO	3.9	ppm	R	THC	5.1	ppm	R	NOx	102.5	ppm	R
05/18/07	08:49:37	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	5.5	ppm	R	NOx	105.0	ppm	R
05/18/07	08:49:47	O2	4.64	%	R	CO2	9.81	%	R	CO	4.9	ppm	R	THC	5.5	ppm	R	NOx	107.4	ppm	R
05/18/07	08:49:57	O2	4.64	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	5.6	ppm	R	NOx	105.0	ppm	R
05/18/07	08:50:07	O2	4.76	%	R	CO2	9.74	%	R	CO	3.9	ppm	R	THC	7.4	ppm	R	NOx	112.3	ppm	R
05/18/07	08:50:17	O2	4.88	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	4.0	ppm	R	NOx	109.9	ppm	R
05/18/07	08:50:27	O2	4.88	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	5.8	ppm	R	NOx	109.9	ppm	R
05/18/07	08:50:37	O2	4.76	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	4.3	ppm	R	NOx	105.0	ppm	R
05/18/07	08:50:47	O2	4.76	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	1.9	ppm	R	NOx	105.0	ppm	R
05/18/07	08:50:57	O2	4.88	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	3.1	ppm	R	NOx	102.5	ppm	R
05/18/07	08:51:07	O2	4.88	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/18/07	08:51:17	O2	4.88	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	100.1	ppm	R
05/18/07	08:51:27	O2	4.88	%	R	CO2	9.67	%	R	CO	3.9	ppm	R	THC	1.6	ppm	R	NOx	102.5	ppm	R
05/18/07	08:51:37	O2	4.88	%	R	CO2	9.59	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	102.5	ppm	R
05/18/07	08:51:47	O2	5.00	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	3.8	ppm	R	NOx	107.4	ppm	R
05/18/07	08:51:57	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	5.4	ppm	R	NOx	112.3	ppm	R
05/18/07	08:52:07	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.6	ppm	R	NOx	117.2	ppm	R
05/18/07	08:52:17	O2	5.13	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	122.1	ppm	R
05/18/07	08:52:27	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	2.9	ppm	R	NOx	122.1	ppm	R
05/18/07	08:52:37	O2	5.13	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	119.6	ppm	R
05/18/07	08:52:47	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	3.5	ppm	R	NOx	119.6	ppm	R
05/18/07	08:52:57	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	1.5	ppm	R	NOx	114.8	ppm	R
05/18/07	08:53:07	O2	5.13	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	5.5	ppm	R	NOx	114.8	ppm	R
05/18/07	08:53:17	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.3	ppm	R	NOx	112.3	ppm	R
05/18/07	08:53:27	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	4.8	ppm	R	NOx	109.9	ppm	R
05/18/07	08:53:37	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	1.8	ppm	R	NOx	105.0	ppm	R
05/18/07	08:53:47	O2	5.13	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	4.1	ppm	R	NOx	109.9	ppm	R
05/18/07	08:53:57	O2	5.13	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.8	ppm	R	NOx	109.9	ppm	R
05/18/07	08:54:07	O2	5.13	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	112.3	ppm	R
05/18/07	08:54:17	O2	5.13	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	5.4	ppm	R	NOx	117.2	ppm	R
05/18/07	08:54:27	O2	5.13	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	2.3	ppm	R	NOx	119.6	ppm	R
05/18/07	08:54:37	O2	5.13	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	08:54:47	O2	5.25	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	5.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:54:57	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R

05/18/07	08:55:07	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	136.7	ppm	R
05/18/07	08:55:17	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:55:27	O2	5.25	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	2.7	ppm	R	NOx	131.8	ppm	R
05/18/07	08:55:37	O2	5.13	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/18/07	08:55:47	O2	5.25	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	08:55:57	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	119.6	ppm	R
05/18/07	08:56:07	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	119.6	ppm	R
05/18/07	08:56:17	O2	5.25	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	122.1	ppm	R
05/18/07	08:56:27	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	119.6	ppm	R
05/18/07	08:56:37	O2	5.25	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	4.8	ppm	R	NOx	127.0	ppm	R
05/18/07	08:56:47	O2	5.25	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	131.8	ppm	R
05/18/07	08:56:57	O2	5.25	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	2.9	ppm	R	NOx	131.8	ppm	R
05/18/07	08:57:07	O2	5.13	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	4.8	ppm	R	NOx	136.7	ppm	R
05/18/07	08:57:17	O2	5.13	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.0	ppm	R	NOx	136.7	ppm	R
05/18/07	08:57:27	O2	5.13	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	3.2	ppm	R	NOx	136.7	ppm	R
05/18/07	08:57:37	O2	5.13	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	139.2	ppm	R
05/18/07	08:57:47	O2	5.13	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	141.6	ppm	R
05/18/07	08:57:57	O2	5.25	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	139.2	ppm	R
05/18/07	08:58:07	O2	5.25	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	4.6	ppm	R	NOx	139.2	ppm	R
05/18/07	08:58:17	O2	5.13	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	4.4	ppm	R	NOx	136.7	ppm	R
05/18/07	08:58:27	O2	5.25	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	136.7	ppm	R
05/18/07	08:58:37	O2	5.25	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	134.3	ppm	R
05/18/07	08:58:47	O2	5.25	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	139.2	ppm	R
05/18/07	08:58:57	O2	5.37	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	146.5	ppm	R
05/18/07	08:59:07	O2	5.37	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	156.3	ppm	R
05/18/07	08:59:17	O2	5.49	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	3.3	ppm	R	NOx	158.7	ppm	R
05/18/07	08:59:27	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	08:59:37	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	170.9	ppm	R
05/18/07	08:59:47	O2	5.49	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	180.7	ppm	R
05/18/07	08:59:57	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	185.6	ppm	R
05/18/07	09:00:07	O2	5.62	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	185.6	ppm	R
05/18/07	09:00:17	O2	5.62	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	183.1	ppm	R
05/18/07	09:00:27	O2	5.74	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	09:00:37	O2	5.74	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	09:00:47	O2	5.74	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	178.2	ppm	R
05/18/07	09:00:57	O2	5.62	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	178.2	ppm	R
05/18/07	09:01:07	O2	5.74	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	175.8	ppm	R
05/18/07	09:01:17	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	180.7	ppm	R
05/18/07	09:01:27	O2	5.74	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	09:01:37	O2	5.74	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	192.9	ppm	R

05/18/07	09:01:47	O2	5.74	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	200.2	ppm	R
05/18/07	09:01:57	O2	5.86	%	R	CO2	8.64	%	R	CO	3.9	ppm	R	THC	3.3	ppm	R	NOx	205.1	ppm	R
05/18/07	09:02:07	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	210.0	ppm	R
05/18/07	09:02:17	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	217.3	ppm	R
05/18/07	09:02:27	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	224.6	ppm	R
05/18/07	09:02:37	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	224.6	ppm	R
05/18/07	09:02:47	O2	5.86	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	219.7	ppm	R
05/18/07	09:02:57	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	217.3	ppm	R
05/18/07	09:03:07	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	214.8	ppm	R
05/18/07	09:03:17	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	214.8	ppm	R
05/18/07	09:03:27	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	217.3	ppm	R
05/18/07	09:03:37	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	222.2	ppm	R
05/18/07	09:03:47	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	229.5	ppm	R
05/18/07	09:03:57	O2	6.10	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	231.9	ppm	R
05/18/07	09:04:07	O2	6.10	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.5	ppm	R	NOx	241.7	ppm	R
05/18/07	09:04:17	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	246.6	ppm	R
05/18/07	09:04:27	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	09:04:37	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	256.4	ppm	R
05/18/07	09:04:47	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	258.8	ppm	R
05/18/07	09:04:57	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.5	ppm	R	NOx	263.7	ppm	R
05/18/07	09:05:07	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:05:17	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	253.9	ppm	R
05/18/07	09:05:27	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	253.9	ppm	R
05/18/07	09:05:37	O2	6.35	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	258.8	ppm	R
05/18/07	09:05:47	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	263.7	ppm	R
05/18/07	09:05:57	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:06:07	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	251.5	ppm	R
05/18/07	09:06:17	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	261.2	ppm	R
05/18/07	09:06:27	O2	6.35	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.3	ppm	R	NOx	268.6	ppm	R
05/18/07	09:06:37	O2	6.47	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	6.3	ppm	R	NOx	273.4	ppm	R
05/18/07	09:06:47	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	273.4	ppm	R
05/18/07	09:06:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	278.3	ppm	R
05/18/07	09:07:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	280.8	ppm	R
05/18/07	09:07:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	280.8	ppm	R
05/18/07	09:07:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	273.4	ppm	R
05/18/07	09:07:37	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:07:47	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/18/07	09:07:57	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/18/07	09:08:07	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	222.2	ppm	R
05/18/07	09:08:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	222.2	ppm	R

05/18/07	09:08:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	09:08:37	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.5	ppm	R	NOx	212.4	ppm	R
05/18/07	09:08:47	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	205.1	ppm	R
05/18/07	09:08:57	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:09:07	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	09:09:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	09:09:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	09:09:37	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	09:09:47	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	219.7	ppm	R
05/18/07	09:09:57	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	217.3	ppm	R
05/18/07	09:10:07	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	09:10:17	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	09:10:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	205.1	ppm	R
05/18/07	09:10:37	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/18/07	09:10:47	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	192.9	ppm	R
05/18/07	09:10:57	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	188.0	ppm	R
05/18/07	09:11:07	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	190.4	ppm	R
05/18/07	09:11:17	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	188.0	ppm	R
05/18/07	09:11:27	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	183.1	ppm	R
05/18/07	09:11:37	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	180.7	ppm	R
05/18/07	09:11:47	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	183.1	ppm	R
05/18/07	09:11:57	O2	6.10	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	09:12:07	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	09:12:17	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	09:12:27	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/18/07	09:12:37	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	09:12:47	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	09:12:57	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	173.3	ppm	R
05/18/07	09:13:07	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	166.0	ppm	R
05/18/07	09:13:17	O2	5.86	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	09:13:27	O2	5.98	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	158.7	ppm	R
05/18/07	09:13:37	O2	5.86	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:13:47	O2	5.74	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:13:57	O2	5.86	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	09:14:07	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	09:14:17	O2	5.86	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	161.1	ppm	R
05/18/07	09:14:27	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	158.7	ppm	R
05/18/07	09:14:37	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	158.7	ppm	R
05/18/07	09:14:47	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	156.3	ppm	R
05/18/07	09:14:57	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	158.7	ppm	R

05/18/07	09:15:07	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	156.3	ppm	R
05/18/07	09:15:17	O2	5.74	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	5.7	ppm	R	NOx	151.4	ppm	R
05/18/07	09:15:27	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	146.5	ppm	R
05/18/07	09:15:37	O2	5.62	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	141.6	ppm	R
05/18/07	09:15:47	O2	5.74	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	141.6	ppm	R
05/18/07	09:15:57	O2	5.62	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	3.1	ppm	R	NOx	141.6	ppm	R
05/18/07	09:16:07	O2	5.62	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	141.6	ppm	R
05/18/07	09:16:17	O2	5.62	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	136.7	ppm	R
05/18/07	09:16:27	O2	5.49	%	R	CO2	9.30	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	136.7	ppm	R
05/18/07	09:16:37	O2	5.37	%	R	CO2	9.45	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	134.3	ppm	R
05/18/07	09:16:47	O2	5.13	%	R	CO2	9.52	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/18/07	09:16:57	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	127.0	ppm	R
05/18/07	09:17:07	O2	5.25	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	0.4	ppm	R	NOx	129.4	ppm	R
05/18/07	09:17:17	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	2.5	ppm	R	NOx	129.4	ppm	R
05/18/07	09:17:27	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	2.5	ppm	R	NOx	129.4	ppm	R
05/18/07	09:17:37	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	5.6	ppm	R	NOx	129.4	ppm	R
05/18/07	09:17:47	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	3.3	ppm	R	NOx	124.5	ppm	R
05/18/07	09:17:57	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	5.0	ppm	R	NOx	124.5	ppm	R
05/18/07	09:18:07	O2	5.37	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.7	ppm	R	NOx	127.0	ppm	R
05/18/07	09:18:17	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	3.4	ppm	R	NOx	127.0	ppm	R
05/18/07	09:18:27	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:18:37	O2	5.37	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	122.1	ppm	R
05/18/07	09:18:47	O2	5.37	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.6	ppm	R	NOx	124.5	ppm	R
05/18/07	09:18:57	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	3.1	ppm	R	NOx	127.0	ppm	R
05/18/07	09:19:07	O2	5.25	%	R	CO2	9.30	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	124.5	ppm	R
05/18/07	09:19:17	O2	5.13	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.8	ppm	R	NOx	127.0	ppm	R
05/18/07	09:19:27	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	3.4	ppm	R	NOx	124.5	ppm	R
05/18/07	09:19:37	O2	5.13	%	R	CO2	9.52	%	R	CO	3.9	ppm	R	THC	5.5	ppm	R	NOx	127.0	ppm	R
05/18/07	09:19:47	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	127.0	ppm	R
05/18/07	09:19:57	O2	5.13	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	4.5	ppm	R	NOx	124.5	ppm	R
05/18/07	09:20:07	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.3	ppm	R	NOx	119.6	ppm	R
05/18/07	09:20:17	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	4.7	ppm	R	NOx	119.6	ppm	R
05/18/07	09:20:27	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	5.4	ppm	R	NOx	117.2	ppm	R
05/18/07	09:20:37	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	0.6	ppm	R	NOx	114.8	ppm	R
05/18/07	09:20:47	O2	5.25	%	R	CO2	9.45	%	R	CO	3.9	ppm	R	THC	2.0	ppm	R	NOx	117.2	ppm	R
05/18/07	09:20:57	O2	5.25	%	R	CO2	9.37	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	114.8	ppm	R
05/18/07	09:21:07	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	2.1	ppm	R	NOx	119.6	ppm	R
05/18/07	09:21:17	O2	5.37	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	5.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:21:27	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	119.6	ppm	R
05/18/07	09:21:37	O2	5.25	%	R	CO2	9.37	%	R	CO	3.9	ppm	R	THC	5.1	ppm	R	NOx	122.1	ppm	R

05/18/07	09:21:47	O2	5.25	%	R	CO2	9.30	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	119.6	ppm	R
05/18/07	09:21:57	O2	5.25	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	119.6	ppm	R
05/18/07	09:22:07	O2	5.37	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	5.4	ppm	R	NOx	124.5	ppm	R
05/18/07	09:22:17	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	-0.9	ppm	R	NOx	124.5	ppm	R
05/18/07	09:22:27	O2	5.49	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	129.4	ppm	R
05/18/07	09:22:37	O2	5.49	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	127.0	ppm	R
05/18/07	09:22:47	O2	5.62	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/18/07	09:22:57	O2	5.62	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:23:07	O2	5.74	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/18/07	09:23:17	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	122.1	ppm	R
05/18/07	09:23:27	O2	5.74	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	122.1	ppm	R
05/18/07	09:23:37	O2	5.62	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	122.1	ppm	R
05/18/07	09:23:47	O2	5.62	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	124.5	ppm	R
05/18/07	09:23:57	O2	5.62	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.4	ppm	R	NOx	124.5	ppm	R
05/18/07	09:24:07	O2	5.49	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:24:17	O2	5.49	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	124.5	ppm	R
05/18/07	09:24:27	O2	5.49	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	119.6	ppm	R
05/18/07	09:24:37	O2	5.49	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:24:47	O2	5.49	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	124.5	ppm	R
05/18/07	09:24:57	O2	5.37	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	127.0	ppm	R
05/18/07	09:25:07	O2	5.49	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	124.5	ppm	R
05/18/07	09:25:17	O2	5.49	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	127.0	ppm	R
05/18/07	09:25:27	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	3.8	ppm	R	NOx	124.5	ppm	R
05/18/07	09:25:37	O2	5.37	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	5.1	ppm	R	NOx	124.5	ppm	R
05/18/07	09:25:47	O2	5.49	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	122.1	ppm	R
05/18/07	09:25:57	O2	5.37	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	122.1	ppm	R
05/18/07	09:26:07	O2	5.25	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	124.5	ppm	R
05/18/07	09:26:17	O2	5.37	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	129.4	ppm	R
05/18/07	09:26:27	O2	5.25	%	R	CO2	9.23	%	R	CO	3.9	ppm	R	THC	5.9	ppm	R	NOx	129.4	ppm	R
05/18/07	09:26:37	O2	5.13	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	129.4	ppm	R
05/18/07	09:26:47	O2	5.25	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	129.4	ppm	R
05/18/07	09:26:57	O2	5.25	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	131.8	ppm	R
05/18/07	09:27:07	O2	5.25	%	R	CO2	9.30	%	R	CO	3.9	ppm	R	THC	4.8	ppm	R	NOx	131.8	ppm	R
05/18/07	09:27:17	O2	5.25	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	134.3	ppm	R
05/18/07	09:27:27	O2	5.37	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/18/07	09:27:37	O2	5.37	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	134.3	ppm	R
05/18/07	09:27:47	O2	5.49	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	131.8	ppm	R
05/18/07	09:27:57	O2	5.49	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	129.4	ppm	R
05/18/07	09:28:07	O2	5.49	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	129.4	ppm	R
05/18/07	09:28:17	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	134.3	ppm	R

05/18/07	09:28:27	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	134.3	ppm	R
05/18/07	09:28:37	O2	5.62	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	141.6	ppm	R
05/18/07	09:28:47	O2	5.49	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	4.4	ppm	R	NOx	141.6	ppm	R
05/18/07	09:28:57	O2	5.49	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	146.5	ppm	R
05/18/07	09:29:07	O2	5.37	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	139.2	ppm	R
05/18/07	09:29:17	O2	5.37	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	141.6	ppm	R
05/18/07	09:29:27	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	146.5	ppm	R
05/18/07	09:29:37	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	151.4	ppm	R
05/18/07	09:29:47	O2	5.49	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	151.4	ppm	R
05/18/07	09:29:57	O2	5.49	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	153.8	ppm	R
05/18/07	09:30:07	O2	5.62	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	153.8	ppm	R
05/18/07	09:30:17	O2	5.62	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	151.4	ppm	R
05/18/07	09:30:27	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	148.9	ppm	R
05/18/07	09:30:37	O2	5.62	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	153.8	ppm	R
05/18/07	09:30:47	O2	5.62	%	R	CO2	8.79	%	R	CO	3.9	ppm	R	THC	0.0	ppm	R	NOx	148.9	ppm	R
05/18/07	09:30:57	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	158.7	ppm	R
05/18/07	09:31:07	O2	5.74	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	158.7	ppm	R
05/18/07	09:31:17	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	153.8	ppm	R
05/18/07	09:31:27	O2	5.62	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	156.3	ppm	R
05/18/07	09:31:37	O2	5.49	%	R	CO2	8.86	%	R	CO	3.9	ppm	R	THC	4.9	ppm	R	NOx	153.8	ppm	R
05/18/07	09:31:47	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	148.9	ppm	R
05/18/07	09:31:57	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	153.8	ppm	R
05/18/07	09:32:07	O2	5.49	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:32:17	O2	5.37	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	166.0	ppm	R
05/18/07	09:32:27	O2	5.49	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	1.8	ppm	R	NOx	166.0	ppm	R
05/18/07	09:32:37	O2	5.49	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	168.5	ppm	R
05/18/07	09:32:47	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	166.0	ppm	R
05/18/07	09:32:57	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:33:07	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:33:17	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	166.0	ppm	R
05/18/07	09:33:27	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	163.6	ppm	R
05/18/07	09:33:37	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	168.5	ppm	R
05/18/07	09:33:47	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	175.8	ppm	R
05/18/07	09:33:57	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	175.8	ppm	R
05/18/07	09:34:07	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	183.1	ppm	R
05/18/07	09:34:17	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/18/07	09:34:27	O2	5.74	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/18/07	09:34:37	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	09:34:47	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	09:34:57	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	197.8	ppm	R

05/18/07	09:35:07	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	195.3	ppm	R
05/18/07	09:35:17	O2	5.74	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	-0.2	ppm	R	NOx	190.4	ppm	R
05/18/07	09:35:27	O2	5.98	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	195.3	ppm	R
05/18/07	09:35:37	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	195.3	ppm	R
05/18/07	09:35:47	O2	5.98	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	200.2	ppm	R
05/18/07	09:35:57	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	200.2	ppm	R
05/18/07	09:36:07	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	09:36:17	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/18/07	09:36:27	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:36:37	O2	5.98	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	207.5	ppm	R
05/18/07	09:36:47	O2	5.98	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:36:57	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:37:07	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:37:17	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	09:37:27	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	210.0	ppm	R
05/18/07	09:37:37	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	210.0	ppm	R
05/18/07	09:37:47	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	210.0	ppm	R
05/18/07	09:37:57	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	210.0	ppm	R
05/18/07	09:38:07	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	207.5	ppm	R
05/18/07	09:38:17	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/18/07	09:38:27	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	09:38:37	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	214.8	ppm	R
05/18/07	09:38:47	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	219.7	ppm	R
05/18/07	09:38:57	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	229.5	ppm	R
05/18/07	09:39:07	O2	6.10	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	229.5	ppm	R
05/18/07	09:39:17	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	231.9	ppm	R
05/18/07	09:39:27	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.3	ppm	R	NOx	236.8	ppm	R
05/18/07	09:39:37	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	239.3	ppm	R
05/18/07	09:39:47	O2	6.10	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	244.1	ppm	R
05/18/07	09:39:57	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	244.1	ppm	R
05/18/07	09:40:07	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	244.1	ppm	R
05/18/07	09:40:17	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	241.7	ppm	R
05/18/07	09:40:27	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.9	ppm	R	NOx	239.3	ppm	R
05/18/07	09:40:37	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	239.3	ppm	R
05/18/07	09:40:47	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	241.7	ppm	R
05/18/07	09:40:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	09:41:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.7	ppm	R	NOx	244.1	ppm	R
05/18/07	09:41:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	249.0	ppm	R
05/18/07	09:41:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	09:41:37	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R

05/18/07	09:41:47	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/18/07	09:41:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.8	ppm	R	NOx	258.8	ppm	R
05/18/07	09:42:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/18/07	09:42:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:42:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	09:42:37	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	09:42:47	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/18/07	09:42:57	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	09:43:07	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	253.9	ppm	R
05/18/07	09:43:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	258.8	ppm	R
05/18/07	09:43:27	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	6.1	ppm	R	NOx	261.2	ppm	R
05/18/07	09:43:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:43:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	263.7	ppm	R
05/18/07	09:43:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	263.7	ppm	R
05/18/07	09:44:07	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:44:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/18/07	09:44:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:44:37	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:44:47	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:44:57	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:45:07	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	268.6	ppm	R
05/18/07	09:45:17	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	266.1	ppm	R
05/18/07	09:45:27	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/18/07	09:45:37	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:45:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	258.8	ppm	R
05/18/07	09:45:57	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	261.2	ppm	R
05/18/07	09:46:07	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	266.1	ppm	R
05/18/07	09:46:17	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:46:27	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	268.6	ppm	R
05/18/07	09:46:37	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:46:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	273.4	ppm	R
05/18/07	09:46:57	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	273.4	ppm	R
05/18/07	09:47:07	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	273.4	ppm	R
05/18/07	09:47:17	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	268.6	ppm	R
05/18/07	09:47:27	O2	6.96	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	266.1	ppm	R
05/18/07	09:47:37	O2	6.96	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:47:47	O2	7.08	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	263.7	ppm	R
05/18/07	09:47:57	O2	6.96	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/18/07	09:48:07	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	263.7	ppm	R
05/18/07	09:48:17	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R

05/18/07	09:48:27	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	258.8	ppm	R
05/18/07	09:48:37	O2	6.96	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	258.8	ppm	R
05/18/07	09:48:47	O2	6.84	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	261.2	ppm	R
05/18/07	09:48:57	O2	6.84	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	261.2	ppm	R
05/18/07	09:49:07	O2	6.96	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	263.7	ppm	R
05/18/07	09:49:17	O2	6.84	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	266.1	ppm	R
05/18/07	09:49:27	O2	6.96	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:49:37	O2	6.96	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:49:47	O2	6.96	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:49:57	O2	6.96	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:50:07	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:50:17	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:50:27	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:50:37	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:50:47	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:50:57	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	09:51:07	O2	6.71	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:51:17	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:51:27	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	273.4	ppm	R
05/18/07	09:51:37	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	275.9	ppm	R
05/18/07	09:51:47	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.1	ppm	R	NOx	273.4	ppm	R
05/18/07	09:51:57	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:52:07	O2	6.71	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	263.7	ppm	R
05/18/07	09:52:17	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	268.6	ppm	R
05/18/07	09:52:27	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	268.6	ppm	R
05/18/07	09:52:37	O2	6.84	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:52:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:52:57	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:53:07	O2	6.71	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:53:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:53:27	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	268.6	ppm	R
05/18/07	09:53:37	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	268.6	ppm	R
05/18/07	09:53:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:53:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/18/07	09:54:07	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:54:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:54:27	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:54:37	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/18/07	09:54:47	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:54:57	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.4	ppm	R	NOx	271.0	ppm	R

05/18/07	09:55:07	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:55:17	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:55:27	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:55:37	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	271.0	ppm	R
05/18/07	09:55:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:55:57	O2	6.71	%	R	CO2	8.13	%	R	CO	2.0	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:56:07	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:56:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:56:27	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:56:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:56:47	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	268.6	ppm	R
05/18/07	09:56:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	273.4	ppm	R
05/18/07	09:57:07	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	275.9	ppm	R
05/18/07	09:57:17	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.3	ppm	R	NOx	273.4	ppm	R
05/18/07	09:57:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	273.4	ppm	R
05/18/07	09:57:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	271.0	ppm	R
05/18/07	09:57:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:57:57	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	268.6	ppm	R
05/18/07	09:58:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	266.1	ppm	R
05/18/07	09:58:17	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:58:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	263.7	ppm	R
05/18/07	09:58:37	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	266.1	ppm	R
05/18/07	09:58:47	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	273.4	ppm	R
05/18/07	09:58:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	271.0	ppm	R
05/18/07	09:59:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	273.4	ppm	R
05/18/07	09:59:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	273.4	ppm	R
05/18/07	09:59:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	263.7	ppm	R
05/18/07	09:59:37	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	246.6	ppm	R
05/18/07	09:59:47	O2	6.35	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	09:59:57	O2	7.08	%	R	CO2	7.69	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	10:00:07	O2	8.06	%	R	CO2	7.32	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	10:00:17	O2	8.42	%	R	CO2	7.32	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:00:27	O2	8.06	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/18/07	10:00:37	O2	6.59	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	10:00:47	O2	5.62	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:00:57	O2	5.37	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:01:07	O2	5.62	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	10:01:17	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	10:01:27	O2	6.23	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	10:01:37	O2	7.45	%	R	CO2	7.62	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	175.8	ppm	R

05/18/07	10:01:47	O2	8.18	%	R	CO2	7.40	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	173.3	ppm	R
05/18/07	10:01:57	O2	7.81	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	200.2	ppm	R
05/18/07	10:02:07	O2	6.59	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	10:02:17	O2	5.86	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	10:02:27	O2	5.86	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:02:37	O2	5.98	%	R	CO2	8.57	%	R	CO	3.9	ppm	R	THC	4.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:02:47	O2	6.10	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	10:02:57	O2	6.10	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/18/07	10:03:07	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	202.6	ppm	R
05/18/07	10:03:17	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	10:03:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	207.5	ppm	R
05/18/07	10:03:37	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	205.1	ppm	R
05/18/07	10:03:47	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	10:03:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	10:04:07	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	10:04:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	222.2	ppm	R
05/18/07	10:04:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	219.7	ppm	R
05/18/07	10:04:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:04:47	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	217.3	ppm	R
05/18/07	10:04:57	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	212.4	ppm	R
05/18/07	10:05:07	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	210.0	ppm	R
05/18/07	10:05:17	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.1	ppm	R	NOx	207.5	ppm	R
05/18/07	10:05:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/18/07	10:05:37	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	10:05:47	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	205.1	ppm	R
05/18/07	10:05:57	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	10:06:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	217.3	ppm	R
05/18/07	10:06:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	212.4	ppm	R
05/18/07	10:06:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	212.4	ppm	R
05/18/07	10:06:37	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:06:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	214.8	ppm	R
05/18/07	10:06:57	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	219.7	ppm	R
05/18/07	10:07:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	219.7	ppm	R
05/18/07	10:07:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	222.2	ppm	R
05/18/07	10:07:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	219.7	ppm	R
05/18/07	10:07:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	219.7	ppm	R
05/18/07	10:07:47	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:07:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:08:07	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	219.7	ppm	R
05/18/07	10:08:17	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R

05/18/07	10:08:27	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:08:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:08:47	O2	6.47	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	10:08:57	O2	7.57	%	R	CO2	7.54	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	214.8	ppm	R
05/18/07	10:09:07	O2	7.69	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:09:17	O2	6.96	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.7	ppm	R	NOx	239.3	ppm	R
05/18/07	10:09:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	241.7	ppm	R
05/18/07	10:09:37	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	241.7	ppm	R
05/18/07	10:09:47	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	241.7	ppm	R
05/18/07	10:09:57	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	236.8	ppm	R
05/18/07	10:10:07	O2	6.71	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	219.7	ppm	R
05/18/07	10:10:17	O2	7.32	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	2.4	ppm	R	NOx	219.7	ppm	R
05/18/07	10:10:27	O2	6.96	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	210.0	ppm	R
05/18/07	10:10:37	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	202.6	ppm	R
05/18/07	10:10:47	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	180.7	ppm	R
05/18/07	10:10:57	O2	6.84	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	170.9	ppm	R
05/18/07	10:11:07	O2	7.57	%	R	CO2	7.91	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	10:11:17	O2	6.84	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:11:27	O2	6.10	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	10:11:37	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	188.0	ppm	R
05/18/07	10:11:47	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	3.5	ppm	R	NOx	192.9	ppm	R
05/18/07	10:11:57	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:12:07	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/18/07	10:12:17	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	10:12:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	10:12:37	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	200.2	ppm	R
05/18/07	10:12:47	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	202.6	ppm	R
05/18/07	10:12:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.4	ppm	R	NOx	207.5	ppm	R
05/18/07	10:13:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	212.4	ppm	R
05/18/07	10:13:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	214.8	ppm	R
05/18/07	10:13:27	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:13:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:13:47	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	222.2	ppm	R
05/18/07	10:13:57	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:14:07	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:14:17	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:14:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	231.9	ppm	R
05/18/07	10:14:37	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:14:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:14:57	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R

05/18/07	10:15:07	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:15:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:15:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:15:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:15:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:15:57	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:16:07	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:16:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:16:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	231.9	ppm	R
05/18/07	10:16:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:16:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:16:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/18/07	10:17:07	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	246.6	ppm	R
05/18/07	10:17:17	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:17:27	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:17:37	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	224.6	ppm	R
05/18/07	10:17:47	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	222.2	ppm	R
05/18/07	10:17:57	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:18:07	O2	6.59	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	222.2	ppm	R
05/18/07	10:18:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:18:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:18:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:18:47	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/18/07	10:18:57	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:19:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:19:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:19:27	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	224.6	ppm	R
05/18/07	10:19:37	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:19:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	227.1	ppm	R
05/18/07	10:19:57	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	224.6	ppm	R
05/18/07	10:20:07	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	229.5	ppm	R
05/18/07	10:20:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	227.1	ppm	R
05/18/07	10:20:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	224.6	ppm	R
05/18/07	10:20:37	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:20:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:20:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:21:07	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	234.4	ppm	R
05/18/07	10:21:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:21:27	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:21:37	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	236.8	ppm	R

05/18/07	10:21:47	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	239.3	ppm	R
05/18/07	10:21:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	244.1	ppm	R
05/18/07	10:22:07	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	239.3	ppm	R
05/18/07	10:22:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	244.1	ppm	R
05/18/07	10:22:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	239.3	ppm	R
05/18/07	10:22:37	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	241.7	ppm	R
05/18/07	10:22:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	241.7	ppm	R
05/18/07	10:22:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	236.8	ppm	R
05/18/07	10:23:07	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:23:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:23:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:23:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	241.7	ppm	R
05/18/07	10:23:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	246.6	ppm	R
05/18/07	10:23:57	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	244.1	ppm	R
05/18/07	10:24:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	251.5	ppm	R
05/18/07	10:24:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	-2.0	ppm	R	NOx	246.6	ppm	R
05/18/07	10:24:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	249.0	ppm	R
05/18/07	10:24:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	253.9	ppm	R
05/18/07	10:24:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	256.4	ppm	R
05/18/07	10:24:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	253.9	ppm	R
05/18/07	10:25:07	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	251.5	ppm	R
05/18/07	10:25:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:25:27	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/18/07	10:25:37	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/18/07	10:25:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	224.6	ppm	R
05/18/07	10:25:57	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:26:07	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:26:17	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	219.7	ppm	R
05/18/07	10:26:27	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	222.2	ppm	R
05/18/07	10:26:37	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:26:47	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	234.4	ppm	R
05/18/07	10:26:57	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:27:07	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:27:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	239.3	ppm	R
05/18/07	10:27:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/18/07	10:27:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/18/07	10:27:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:27:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	229.5	ppm	R
05/18/07	10:28:07	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	236.8	ppm	R
05/18/07	10:28:17	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	241.7	ppm	R

05/18/07	10:28:27	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	244.1	ppm	R
05/18/07	10:28:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	249.0	ppm	R
05/18/07	10:28:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	249.0	ppm	R
05/18/07	10:28:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/18/07	10:29:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	249.0	ppm	R
05/18/07	10:29:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	10:29:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	251.5	ppm	R
05/18/07	10:29:37	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/18/07	10:29:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/18/07	10:29:57	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	241.7	ppm	R
05/18/07	10:30:07	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	234.4	ppm	R
05/18/07	10:30:17	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	224.6	ppm	R
05/18/07	10:30:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	222.2	ppm	R
05/18/07	10:30:37	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	219.7	ppm	R
05/18/07	10:30:47	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	219.7	ppm	R
05/18/07	10:30:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	224.6	ppm	R
05/18/07	10:31:07	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	231.9	ppm	R
05/18/07	10:31:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	234.4	ppm	R
05/18/07	10:31:27	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	236.8	ppm	R
05/18/07	10:31:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	239.3	ppm	R
05/18/07	10:31:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	241.7	ppm	R
05/18/07	10:31:57	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	246.6	ppm	R
05/18/07	10:32:07	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.3	ppm	R	NOx	244.1	ppm	R
05/18/07	10:32:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	246.6	ppm	R
05/18/07	10:32:27	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	241.7	ppm	R
05/18/07	10:32:37	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	244.1	ppm	R
05/18/07	10:32:47	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	246.6	ppm	R
05/18/07	10:32:57	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:33:07	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	241.7	ppm	R
05/18/07	10:33:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:33:27	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:33:37	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	244.1	ppm	R
05/18/07	10:33:47	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	10:33:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	246.6	ppm	R
05/18/07	10:34:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.9	ppm	R	NOx	246.6	ppm	R
05/18/07	10:34:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	253.9	ppm	R
05/18/07	10:34:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	261.2	ppm	R
05/18/07	10:34:37	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	256.4	ppm	R
05/18/07	10:34:47	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	253.9	ppm	R
05/18/07	10:34:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	251.5	ppm	R

05/18/07	10:35:07	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	10:35:17	O2	6.71	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	10:35:27	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/18/07	10:35:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	239.3	ppm	R
05/18/07	10:35:47	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	236.8	ppm	R
05/18/07	10:35:57	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	236.8	ppm	R
05/18/07	10:36:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	6.4	ppm	R	NOx	234.4	ppm	R
05/18/07	10:36:17	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	229.5	ppm	R
05/18/07	10:36:27	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	234.4	ppm	R
05/18/07	10:36:37	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.1	ppm	R	NOx	234.4	ppm	R
05/18/07	10:36:47	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	241.7	ppm	R
05/18/07	10:36:57	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	244.1	ppm	R
05/18/07	10:37:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	246.6	ppm	R
05/18/07	10:37:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	-1.0	ppm	R	NOx	244.1	ppm	R
05/18/07	10:37:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	249.0	ppm	R
05/18/07	10:37:37	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	251.5	ppm	R
05/18/07	10:37:47	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	249.0	ppm	R
05/18/07	10:37:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	244.1	ppm	R
05/18/07	10:38:07	O2	6.84	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	246.6	ppm	R
05/18/07	10:38:17	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	244.1	ppm	R
05/18/07	10:38:27	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	239.3	ppm	R
05/18/07	10:38:37	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	236.8	ppm	R
05/18/07	10:38:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	-0.6	ppm	R	NOx	231.9	ppm	R
05/18/07	10:38:57	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	10:39:07	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	234.4	ppm	R
05/18/07	10:39:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	239.3	ppm	R
05/18/07	10:39:27	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	236.8	ppm	R
05/18/07	10:39:37	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	1.7	ppm	R	NOx	236.8	ppm	R
05/18/07	10:39:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	236.8	ppm	R
05/18/07	10:39:57	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	236.8	ppm	R
05/18/07	10:40:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	236.8	ppm	R
05/18/07	10:40:17	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	231.9	ppm	R
05/18/07	10:40:27	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.4	ppm	R	NOx	241.7	ppm	R
05/18/07	10:40:37	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.6	ppm	R	NOx	244.1	ppm	R
05/18/07	10:40:47	O2	6.71	%	R	CO2	6.23	%	R	CO	2.9	ppm	R	THC	6.9	ppm	R	NOx	249.0	ppm	R
05/18/07	10:40:57	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	249.0	ppm	R
05/18/07	10:41:07	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	251.5	ppm	R
05/18/07	10:41:17	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	7.2	ppm	R	NOx	253.9	ppm	R
05/18/07	10:41:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	6.3	ppm	R	NOx	256.4	ppm	R
05/18/07	10:41:37	O2	6.96	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R

05/18/07	10:41:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	256.4	ppm	R
05/18/07	10:41:57	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	10:42:07	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	258.8	ppm	R
05/18/07	10:42:17	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	256.4	ppm	R
05/18/07	10:42:27	O2	7.08	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	258.8	ppm	R
05/18/07	10:42:37	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.7	ppm	R	NOx	253.9	ppm	R
05/18/07	10:42:47	O2	6.96	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	256.4	ppm	R
05/18/07	10:42:57	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	253.9	ppm	R
05/18/07	10:43:07	O2	6.96	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	253.9	ppm	R
05/18/07	10:43:17	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	253.9	ppm	R
05/18/07	10:43:27	O2	6.96	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	258.8	ppm	R
05/18/07	10:43:37	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	258.8	ppm	R
05/18/07	10:43:47	O2	6.96	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	258.8	ppm	R
05/18/07	10:43:57	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	258.8	ppm	R
05/18/07	10:44:07	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	258.8	ppm	R
05/18/07	10:44:17	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	258.8	ppm	R
05/18/07	10:44:27	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	6.1	ppm	R	NOx	261.2	ppm	R
05/18/07	10:44:37	O2	6.84	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	6.3	ppm	R	NOx	261.2	ppm	R
05/18/07	10:44:47	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	251.5	ppm	R
05/18/07	10:44:57	O2	6.84	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	6.1	ppm	R	NOx	253.9	ppm	R
05/18/07	10:45:07	O2	6.84	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	253.9	ppm	R
05/18/07	10:45:17	O2	6.84	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.3	ppm	R	NOx	251.5	ppm	R
05/18/07	10:45:27	O2	6.84	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	6.5	ppm	R	NOx	249.0	ppm	R
05/18/07	10:45:37	O2	6.84	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	234.4	ppm	R
05/18/07	10:45:47	O2	6.71	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	227.1	ppm	R
05/18/07	10:45:57	O2	6.71	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	224.6	ppm	R
05/18/07	10:46:07	O2	6.59	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	219.7	ppm	R
05/18/07	10:46:17	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	217.3	ppm	R
05/18/07	10:46:27	O2	6.47	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	219.7	ppm	R
05/18/07	10:46:37	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	222.2	ppm	R
05/18/07	10:46:47	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	227.1	ppm	R
05/18/07	10:46:57	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.8	ppm	R	NOx	229.5	ppm	R
05/18/07	10:47:07	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	70.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:47:17	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:47:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:47:37	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	214.8	ppm	R
05/18/07	10:47:47	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	2.6	ppm	R	NOx	212.4	ppm	R
05/18/07	10:47:57	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/18/07	10:48:07	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	202.6	ppm	R
05/18/07	10:48:17	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R

05/18/07	10:48:27	O2	6.35	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:48:37	O2	6.23	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/18/07	10:48:47	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	205.1	ppm	R
05/18/07	10:48:57	O2	6.10	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	207.5	ppm	R
05/18/07	10:49:07	O2	6.10	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	210.0	ppm	R
05/18/07	10:49:17	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	205.1	ppm	R
05/18/07	10:49:27	O2	6.10	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	210.0	ppm	R
05/18/07	10:49:37	O2	6.10	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	205.1	ppm	R
05/18/07	10:49:47	O2	6.10	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	10:49:57	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	197.8	ppm	R
05/18/07	10:50:07	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	3.5	ppm	R	NOx	195.3	ppm	R
05/18/07	10:50:17	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.1	ppm	R	NOx	190.4	ppm	R
05/18/07	10:50:27	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	192.9	ppm	R
05/18/07	10:50:37	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	195.3	ppm	R
05/18/07	10:50:47	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	10:50:57	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/18/07	10:51:07	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	10:51:17	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	212.4	ppm	R
05/18/07	10:51:27	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:51:37	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	217.3	ppm	R
05/18/07	10:51:47	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	222.2	ppm	R
05/18/07	10:51:57	O2	6.10	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	224.6	ppm	R
05/18/07	10:52:07	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	222.2	ppm	R
05/18/07	10:52:17	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	227.1	ppm	R
05/18/07	10:52:27	O2	6.35	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	222.2	ppm	R
05/18/07	10:52:37	O2	6.35	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	217.3	ppm	R
05/18/07	10:52:47	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.1	ppm	R	NOx	217.3	ppm	R
05/18/07	10:52:57	O2	6.35	%	R	CO2	7.98	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:53:07	O2	6.47	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	10:53:17	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:53:27	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	10:53:37	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:53:47	O2	6.59	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	10:53:57	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	10:54:07	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	227.1	ppm	R
05/18/07	10:54:17	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	229.5	ppm	R
05/18/07	10:54:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	227.1	ppm	R
05/18/07	10:54:37	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	214.8	ppm	R
05/18/07	10:54:47	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	207.5	ppm	R
05/18/07	10:54:57	O2	6.47	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	195.3	ppm	R

05/18/07	10:55:07	O2	6.47	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	188.0	ppm	R
05/18/07	10:55:17	O2	6.47	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:55:27	O2	6.47	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:55:37	O2	6.47	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	183.1	ppm	R
05/18/07	10:55:47	O2	6.47	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	10:55:57	O2	6.59	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	188.0	ppm	R
05/18/07	10:56:07	O2	6.47	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	185.6	ppm	R
05/18/07	10:56:17	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	190.4	ppm	R
05/18/07	10:56:27	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.9	ppm	R	NOx	195.3	ppm	R
05/18/07	10:56:37	O2	6.10	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	202.6	ppm	R
05/18/07	10:56:47	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	210.0	ppm	R
05/18/07	10:56:57	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	210.0	ppm	R
05/18/07	10:57:07	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	207.5	ppm	R
05/18/07	10:57:17	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	202.6	ppm	R
05/18/07	10:57:27	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	195.3	ppm	R
05/18/07	10:57:37	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	10:57:47	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:57:57	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	192.9	ppm	R
05/18/07	10:58:07	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	190.4	ppm	R
05/18/07	10:58:17	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	185.6	ppm	R
05/18/07	10:58:27	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	180.7	ppm	R
05/18/07	10:58:37	O2	6.47	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	10:58:47	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:58:57	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	10:59:07	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	183.1	ppm	R
05/18/07	10:59:17	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	188.0	ppm	R
05/18/07	10:59:27	O2	6.23	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	190.4	ppm	R
05/18/07	10:59:37	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	192.9	ppm	R
05/18/07	10:59:47	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.9	ppm	R	NOx	188.0	ppm	R
05/18/07	10:59:57	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	190.4	ppm	R
05/18/07	11:00:07	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	6.2	ppm	R	NOx	192.9	ppm	R
05/18/07	11:00:17	O2	6.10	%	R	CO2	8.57	%	R	CO	3.9	ppm	R	THC	5.7	ppm	R	NOx	197.8	ppm	R
05/18/07	11:00:27	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	192.9	ppm	R
05/18/07	11:00:37	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	185.6	ppm	R
05/18/07	11:00:47	O2	6.10	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	190.4	ppm	R
05/18/07	11:00:57	O2	6.10	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	188.0	ppm	R
05/18/07	11:01:07	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	192.9	ppm	R
05/18/07	11:01:17	O2	6.23	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:01:27	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:01:37	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	192.9	ppm	R

05/18/07	11:01:47	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:01:57	O2	6.23	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:02:07	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/18/07	11:02:17	O2	6.10	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:02:27	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	11:02:37	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:02:47	O2	5.86	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	180.7	ppm	R
05/18/07	11:02:57	O2	5.86	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:03:07	O2	5.98	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:03:17	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	190.4	ppm	R
05/18/07	11:03:27	O2	5.98	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	195.3	ppm	R
05/18/07	11:03:37	O2	5.98	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	188.0	ppm	R
05/18/07	11:03:47	O2	5.98	%	R	CO2	8.94	%	R	CO	3.9	ppm	R	THC	4.6	ppm	R	NOx	183.1	ppm	R
05/18/07	11:03:57	O2	5.98	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	180.7	ppm	R
05/18/07	11:04:07	O2	6.10	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	180.7	ppm	R
05/18/07	11:04:17	O2	5.98	%	R	CO2	9.01	%	R	CO	3.9	ppm	R	THC	4.1	ppm	R	NOx	178.2	ppm	R
05/18/07	11:04:27	O2	5.98	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	173.3	ppm	R
05/18/07	11:04:37	O2	6.10	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.8	ppm	R	NOx	168.5	ppm	R
05/18/07	11:04:47	O2	6.10	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	163.6	ppm	R
05/18/07	11:04:57	O2	6.10	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	11:05:07	O2	6.10	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	11:05:17	O2	5.86	%	R	CO2	9.16	%	R	CO	3.9	ppm	R	THC	0.6	ppm	R	NOx	161.1	ppm	R
05/18/07	11:05:27	O2	5.86	%	R	CO2	9.08	%	R	CO	3.9	ppm	R	THC	5.2	ppm	R	NOx	166.0	ppm	R
05/18/07	11:05:37	O2	5.86	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	170.9	ppm	R
05/18/07	11:05:47	O2	5.74	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	175.8	ppm	R
05/18/07	11:05:57	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	173.3	ppm	R
05/18/07	11:06:07	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	170.9	ppm	R
05/18/07	11:06:17	O2	5.74	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	170.9	ppm	R
05/18/07	11:06:27	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	173.3	ppm	R
05/18/07	11:06:37	O2	5.74	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	173.3	ppm	R
05/18/07	11:06:47	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/18/07	11:06:57	O2	5.62	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	173.3	ppm	R
05/18/07	11:07:07	O2	5.62	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	173.3	ppm	R
05/18/07	11:07:17	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	170.9	ppm	R
05/18/07	11:07:27	O2	5.74	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	170.9	ppm	R
05/18/07	11:07:37	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/18/07	11:07:47	O2	5.86	%	R	CO2	9.01	%	R	CO	2.9	ppm	R	THC	3.5	ppm	R	NOx	173.3	ppm	R
05/18/07	11:07:57	O2	5.74	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	170.9	ppm	R
05/18/07	11:08:07	O2	5.74	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	173.3	ppm	R
05/18/07	11:08:17	O2	5.86	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	2.4	ppm	R	NOx	178.2	ppm	R

05/18/07	11:08:27	O2	5.86	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	178.2	ppm	R
05/18/07	11:08:37	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	180.7	ppm	R
05/18/07	11:08:47	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	178.2	ppm	R
05/18/07	11:08:57	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	11:09:07	O2	5.98	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	1.2	ppm	R	NOx	180.7	ppm	R
05/18/07	11:09:17	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	188.0	ppm	R
05/18/07	11:09:27	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:09:37	O2	5.86	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:09:47	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:09:57	O2	5.86	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:10:07	O2	5.86	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	4.6	ppm	R	NOx	192.9	ppm	R
05/18/07	11:10:17	O2	5.86	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:10:27	O2	5.98	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	185.6	ppm	R
05/18/07	11:10:37	O2	5.98	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:10:47	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	11:10:57	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:11:07	O2	6.23	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	190.4	ppm	R
05/18/07	11:11:17	O2	6.23	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	185.6	ppm	R
05/18/07	11:11:27	O2	6.23	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	180.7	ppm	R
05/18/07	11:11:37	O2	6.23	%	R	CO2	8.94	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	180.7	ppm	R
05/18/07	11:11:47	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	183.1	ppm	R
05/18/07	11:11:57	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	178.2	ppm	R
05/18/07	11:12:07	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	175.8	ppm	R
05/18/07	11:12:17	O2	6.23	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	2.2	ppm	R	NOx	173.3	ppm	R
05/18/07	11:12:27	O2	6.23	%	R	CO2	8.86	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	175.8	ppm	R
05/18/07	11:12:37	O2	6.23	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	175.8	ppm	R
05/18/07	11:12:47	O2	6.23	%	R	CO2	9.23	%	R	CO	2.9	ppm	R	THC	4.2	ppm	R	NOx	180.7	ppm	R
05/18/07	11:12:57	O2	6.23	%	R	CO2	9.16	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	183.1	ppm	R
05/18/07	11:13:07	O2	6.10	%	R	CO2	9.08	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	185.6	ppm	R
05/18/07	11:13:17	O2	6.10	%	R	CO2	8.79	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	190.4	ppm	R
05/18/07	11:13:27	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	11:13:37	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	197.8	ppm	R
05/18/07	11:13:47	O2	5.98	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	195.3	ppm	R
05/18/07	11:13:57	O2	6.10	%	R	CO2	7.62	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	200.2	ppm	R
05/18/07	11:14:07	O2	6.10	%	R	CO2	7.69	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	212.4	ppm	R
05/18/07	11:14:17	O2	6.10	%	R	CO2	7.32	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:14:27	O2	5.98	%	R	CO2	7.25	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	11:14:37	O2	6.10	%	R	CO2	7.76	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	11:14:47	O2	6.10	%	R	CO2	7.47	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	11:14:57	O2	6.23	%	R	CO2	7.76	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R

05/18/07	11:15:07	O2	6.23	%	R	CO2	7.54	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	161.1	ppm	R
05/18/07	11:15:17	O2	6.23	%	R	CO2	7.84	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:15:27	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:15:37	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	183.1	ppm	R
05/18/07	11:15:47	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	188.0	ppm	R
05/18/07	11:15:57	O2	6.71	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	11:16:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	192.9	ppm	R
05/18/07	11:16:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	190.4	ppm	R
05/18/07	11:16:27	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	192.9	ppm	R
05/18/07	11:16:37	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	195.3	ppm	R
05/18/07	11:16:47	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	197.8	ppm	R
05/18/07	11:16:57	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	197.8	ppm	R
05/18/07	11:17:07	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	197.8	ppm	R
05/18/07	11:17:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	195.3	ppm	R
05/18/07	11:17:27	O2	6.35	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	197.8	ppm	R
05/18/07	11:17:37	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	3.7	ppm	R	NOx	197.8	ppm	R
05/18/07	11:17:47	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	195.3	ppm	R
05/18/07	11:17:57	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	197.8	ppm	R
05/18/07	11:18:07	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	195.3	ppm	R
05/18/07	11:18:17	O2	6.35	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	200.2	ppm	R
05/18/07	11:18:27	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.8	ppm	R	NOx	202.6	ppm	R
05/18/07	11:18:37	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	202.6	ppm	R
05/18/07	11:18:47	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	202.6	ppm	R
05/18/07	11:18:57	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.3	ppm	R	NOx	202.6	ppm	R
05/18/07	11:19:07	O2	6.35	%	R	CO2	8.72	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	11:19:17	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	197.8	ppm	R
05/18/07	11:19:27	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.7	ppm	R	NOx	197.8	ppm	R
05/18/07	11:19:37	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	195.3	ppm	R
05/18/07	11:19:47	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	192.9	ppm	R
05/18/07	11:19:57	O2	6.35	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	192.9	ppm	R
05/18/07	11:20:07	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	192.9	ppm	R
05/18/07	11:20:17	O2	6.23	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	195.3	ppm	R
05/18/07	11:20:27	O2	6.23	%	R	CO2	8.64	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	200.2	ppm	R
05/18/07	11:20:37	O2	6.10	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:20:47	O2	6.23	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	1.6	ppm	R	NOx	217.3	ppm	R
05/18/07	11:20:57	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	219.7	ppm	R
05/18/07	11:21:07	O2	6.10	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	2.0	ppm	R	NOx	224.6	ppm	R
05/18/07	11:21:17	O2	6.10	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.6	ppm	R	NOx	227.1	ppm	R
05/18/07	11:21:27	O2	6.10	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	236.8	ppm	R
05/18/07	11:21:37	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.7	ppm	R	NOx	234.4	ppm	R

05/18/07	11:21:47	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	234.4	ppm	R
05/18/07	11:21:57	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	236.8	ppm	R
05/18/07	11:22:07	O2	6.23	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	234.4	ppm	R
05/18/07	11:22:17	O2	6.23	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.8	ppm	R	NOx	229.5	ppm	R
05/18/07	11:22:27	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	229.5	ppm	R
05/18/07	11:22:37	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	229.5	ppm	R
05/18/07	11:22:47	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	222.2	ppm	R
05/18/07	11:22:57	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	217.3	ppm	R
05/18/07	11:23:07	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	11:23:17	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:23:27	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	210.0	ppm	R
05/18/07	11:23:37	O2	6.59	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	212.4	ppm	R
05/18/07	11:23:47	O2	6.59	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	11:23:57	O2	6.71	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	210.0	ppm	R
05/18/07	11:24:07	O2	6.84	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	6.1	ppm	R	NOx	212.4	ppm	R
05/18/07	11:24:17	O2	6.59	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	7.9	ppm	R	NOx	210.0	ppm	R
05/18/07	11:24:27	O2	6.59	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.3	ppm	R	NOx	205.1	ppm	R
05/18/07	11:24:37	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:24:47	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/18/07	11:24:57	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	11:25:07	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	3.4	ppm	R	NOx	212.4	ppm	R
05/18/07	11:25:17	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	11:25:27	O2	6.35	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	214.8	ppm	R
05/18/07	11:25:37	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	11:25:47	O2	6.23	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	11:25:57	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	231.9	ppm	R
05/18/07	11:26:07	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	231.9	ppm	R
05/18/07	11:26:17	O2	6.35	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	11:26:27	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	246.6	ppm	R
05/18/07	11:26:37	O2	6.35	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	256.4	ppm	R
05/18/07	11:26:47	O2	6.35	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	249.0	ppm	R
05/18/07	11:26:57	O2	6.35	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	4.9	ppm	R	NOx	251.5	ppm	R
05/18/07	11:27:07	O2	6.35	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	244.1	ppm	R
05/18/07	11:27:17	O2	6.47	%	R	CO2	8.20	%	R	CO	2.0	ppm	R	THC	1.1	ppm	R	NOx	241.7	ppm	R
05/18/07	11:27:27	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	234.4	ppm	R
05/18/07	11:27:37	O2	6.47	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	236.8	ppm	R
05/18/07	11:27:47	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	231.9	ppm	R
05/18/07	11:27:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.7	ppm	R	NOx	234.4	ppm	R
05/18/07	11:28:07	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.5	ppm	R	NOx	246.6	ppm	R
05/18/07	11:28:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	239.3	ppm	R

05/18/07	11:28:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	241.7	ppm	R
05/18/07	11:28:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	251.5	ppm	R
05/18/07	11:28:47	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	251.5	ppm	R
05/18/07	11:28:57	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.0	ppm	R	NOx	251.5	ppm	R
05/18/07	11:29:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	251.5	ppm	R
05/18/07	11:29:17	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	11:29:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	241.7	ppm	R
05/18/07	11:29:37	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	241.7	ppm	R
05/18/07	11:29:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.8	ppm	R	NOx	241.7	ppm	R
05/18/07	11:29:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	6.0	ppm	R	NOx	231.9	ppm	R
05/18/07	11:30:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	236.8	ppm	R
05/18/07	11:30:17	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	251.5	ppm	R
05/18/07	11:30:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	246.6	ppm	R
05/18/07	11:30:37	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	249.0	ppm	R
05/18/07	11:30:47	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	258.8	ppm	R
05/18/07	11:30:57	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	256.4	ppm	R
05/18/07	11:31:07	O2	6.59	%	R	CO2	8.06	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	261.2	ppm	R
05/18/07	11:31:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.9	ppm	R	NOx	266.1	ppm	R
05/18/07	11:31:27	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	263.7	ppm	R
05/18/07	11:31:37	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	1.9	ppm	R	NOx	253.9	ppm	R
05/18/07	11:31:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	249.0	ppm	R
05/18/07	11:31:57	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.9	ppm	R	NOx	249.0	ppm	R
05/18/07	11:32:07	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.1	ppm	R	NOx	234.4	ppm	R
05/18/07	11:32:17	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	234.4	ppm	R
05/18/07	11:32:27	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	229.5	ppm	R
05/18/07	11:32:37	O2	6.84	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.2	ppm	R	NOx	227.1	ppm	R
05/18/07	11:32:47	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	11:32:57	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	222.2	ppm	R
05/18/07	11:33:07	O2	6.71	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	212.4	ppm	R
05/18/07	11:33:17	O2	6.71	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	11:33:27	O2	6.71	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:33:37	O2	6.71	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	207.5	ppm	R
05/18/07	11:33:47	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.4	ppm	R	NOx	210.0	ppm	R
05/18/07	11:33:57	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.3	ppm	R	NOx	210.0	ppm	R
05/18/07	11:34:07	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	214.8	ppm	R
05/18/07	11:34:17	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.1	ppm	R	NOx	210.0	ppm	R
05/18/07	11:34:27	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	5.0	ppm	R	NOx	205.1	ppm	R
05/18/07	11:34:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	200.2	ppm	R
05/18/07	11:34:47	O2	6.47	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	192.9	ppm	R
05/18/07	11:34:57	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	190.4	ppm	R

05/18/07	11:35:07	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	192.9	ppm	R
05/18/07	11:35:17	O2	6.47	%	R	CO2	8.57	%	R	CO	2.9	ppm	R	THC	1.8	ppm	R	NOx	190.4	ppm	R
05/18/07	11:35:27	O2	6.47	%	R	CO2	8.50	%	R	CO	2.9	ppm	R	THC	3.8	ppm	R	NOx	192.9	ppm	R
05/18/07	11:35:37	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	197.8	ppm	R
05/18/07	11:35:47	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	5.1	ppm	R	NOx	195.3	ppm	R
05/18/07	11:35:57	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	1.5	ppm	R	NOx	192.9	ppm	R
05/18/07	11:36:07	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.5	ppm	R	NOx	195.3	ppm	R
05/18/07	11:36:17	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.2	ppm	R	NOx	212.4	ppm	R
05/18/07	11:36:27	O2	6.47	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:36:37	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	207.5	ppm	R
05/18/07	11:36:47	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:36:57	O2	6.23	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.8	ppm	R	NOx	207.5	ppm	R
05/18/07	11:37:07	O2	6.23	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	-0.0	ppm	R	NOx	200.2	ppm	R
05/18/07	11:37:17	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	202.6	ppm	R
05/18/07	11:37:27	O2	6.35	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:37:37	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	205.1	ppm	R
05/18/07	11:37:47	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	1.4	ppm	R	NOx	212.4	ppm	R
05/18/07	11:37:57	O2	6.47	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.4	ppm	R	NOx	219.7	ppm	R
05/18/07	11:38:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.2	ppm	R	NOx	224.6	ppm	R
05/18/07	11:38:17	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	11:38:27	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:38:37	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	212.4	ppm	R
05/18/07	11:38:47	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	2.1	ppm	R	NOx	210.0	ppm	R
05/18/07	11:38:57	O2	6.59	%	R	CO2	8.42	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	11:39:07	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	222.2	ppm	R
05/18/07	11:39:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	1.3	ppm	R	NOx	222.2	ppm	R
05/18/07	11:39:27	O2	6.71	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	217.3	ppm	R
05/18/07	11:39:37	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:39:47	O2	6.71	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	207.5	ppm	R
05/18/07	11:39:57	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	210.0	ppm	R
05/18/07	11:40:07	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	0.0	ppm	R	NOx	219.7	ppm	R
05/18/07	11:40:17	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	1.1	ppm	R	NOx	214.8	ppm	R
05/18/07	11:40:27	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	4.0	ppm	R	NOx	229.5	ppm	R
05/18/07	11:40:37	O2	6.47	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	3.6	ppm	R	NOx	229.5	ppm	R
05/18/07	11:40:47	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	234.4	ppm	R
05/18/07	11:40:57	O2	6.59	%	R	CO2	8.28	%	R	CO	2.9	ppm	R	THC	0.6	ppm	R	NOx	224.6	ppm	R
05/18/07	11:41:07	O2	6.59	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.7	ppm	R	NOx	227.1	ppm	R
05/18/07	11:41:17	O2	6.59	%	R	CO2	8.35	%	R	CO	2.9	ppm	R	THC	3.0	ppm	R	NOx	227.1	ppm	R
05/18/07	11:41:27	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	5.4	ppm	R	NOx	231.9	ppm	R
05/18/07	11:41:37	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	4.5	ppm	R	NOx	239.3	ppm	R

05/18/07	11:41:47	O2	6.71	%	R	CO2	8.20	%	R	CO	2.9	ppm	R	THC	2.5	ppm	R	NOx	239.3	ppm	R
05/18/07	11:41:57	O2	6.59	%	R	CO2	8.13	%	R	CO	2.9	ppm	R	THC	2.3	ppm	R	NOx	229.5	ppm	R
	Avg		6.13				8.64				3.1				2.4				197.2		

Appendix B

Emission Calculations

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2* Run No. 1 - PM/Metals
Test Date *05/16/07*

Parameter: **Oxygen**
Instrument Span (% O2): 21.99

	Analyzer Calib. Gases				Upscale
	zero	low	mid	high	Sys. Cal. Gas
Actual Calibration Gas Value (% O2):	0.00	N/A	12.45	21.99	12.45
Analyzer Calibration Response (% O2):	0.00	N/A	12.50	22.23	12.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.23	1.09	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	Apparent Stack Conc.	Init. Sys. Calib. Response	Init. Sys. Cal. Bias (% span)	Final Sys. Calib. Response	Final Sys. Cal. Bias (% span)	Calib. Drift (% span)	Init. Sys. Calib. Response	Init. Sys. Cal. Bias (% span)	Final Sys. Calib. Response	Final Sys. Cal. Bias (% span)	Calib. Drift (% span)	Actual Stack Conc.
1	4.68	0.10	0.45	0.10	0.45	0.00	12.48	-0.09	12.48	-0.09	0.00	**4.61**
2	0.00	0.10	0.45	0.00	0.00	-0.45	12.48	-0.09	0.00	-56.84	-56.75	**-0.10**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2*
Test Date *05/16/07*

Parameter: **Carbon Dioxide**
Instrument Span (% CO2): 12.75

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% CO2):	0.00	N/A	7.50	12.75	7.50
Analyzer Calibration Response (% CO2):	0.00	N/A	7.50	12.74	7.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.00	-0.08	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	9.73	0.05	0.10	0.22	1.73	1.33	7.50	0.00	7.47	-0.24	-0.24	**9.79**
2	0.00	0.22	1.73	0.00	0.00	-1.73	7.47	-0.24	0.00	-58.82	-58.59	**-0.23**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/16/07

Parameter: **Carbon Monoxide**
Instrument Span (ppmV CO): 174.2

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV CO):	0.0	0.0	123.3	174.2	123.3
Analyzer Calibration Response (ppmV CO):	0.2	0.0	122.0	174.0	123.3
Analyzer Calibration Error (% Span):	0.11	0.00	-0.75	-0.11	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	41.2	0.4	0.11	0.4	0.11	0.00	122.4	-0.52	120.6	-1.55	-1.03	**41.5**
2	0.0	0.4	0.11	0.0	-0.11	-0.23	120.6	-1.55	0.0	-70.78	-69.23	**-0.4**
3	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
4	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
5	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
6	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
7	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
8	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
9	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
10	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
11	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
12	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/16/07

Parameter: **Total Hydrocarbons (as CH4)**
Instrument Span (ppmV THC): 100

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV THC):	0.0	24.9	45.2	88.9	45.2
Analyzer Calibration Response (ppmV THC):	0.0	25.0	45.0	89.0	45.2
Analyzer Calibration Error (% Cal. Gas Value):	-------	0.40	-0.44	0.11	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	9.6	0.1	0.10	0.2	0.20	0.10	45.0	-0.20	45.2	0.00	0.20	**9.5**
2	0.0	0.2	0.20	0.0	0.00	-0.20	45.2	0.00	0.0	-45.20	-45.20	**-0.2**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/16/07

Parameter: **Nitrogen Oxides (as NO2)**
Instrument Span (ppmV NOx): 437.7

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV NOx):	0.0	0.0	224.9	437.7	224.9
Analyzer Calibration Response (ppmV NOx):	0.0	0.0	224.0	436.5	224.9
Analyzer Calibration Error (% Span):	0.00	0.00	-0.21	-0.27	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	112.0	0.5	0.11	0.5	0.11	0.00	225.0	0.02	224.5	-0.09	-0.11	**111.8**
2	0.0	0.5	0.11	0.0	0.00	-0.11	224.5	-0.09	0.0	-51.38	-51.29	**-0.5**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client	*GTI*	
Project No.	*3033*	
Test Location	*G2*	Run No. 2 - PM/Metals
Test Date	*05/17/07*	

Parameter: **Oxygen**

Instrument Span (% O2): 21.99

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% O2):	0.00	N/A	12.45	21.99	12.45
Analyzer Calibration Response (% O2):	0.00	N/A	12.50	22.25	12.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.23	1.18	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	5.26	0.10	0.45	0.10	0.45	0.00	12.48	-0.09	12.50	0.00	0.09	**5.18**
2	0.00	0.10	0.45	0.00	0.00	-0.45	12.50	0.00	0.00	-56.84	-56.84	**-0.10**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2*
Test Date *05/17/07*

Parameter: **Carbon Dioxide**
Instrument Span (% CO2): 12.75

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% CO2):	0.00	N/A	7.50	12.75	7.50
Analyzer Calibration Response (% CO2):	0.00	N/A	7.50	12.60	7.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.00	-1.18	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	9.40	0.04	0.10	0.15	1.18	0.86	7.50	0.00	7.53	0.24	0.24	**9.41**
2	0.00	0.15	1.18	0.00	0.00	-1.18	7.53	0.24	0.00	-58.82	-59.06	**-0.15**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/17/07

Parameter: **Carbon Monoxide**
Instrument Span (ppmV CO): 174.2

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV CO):	0.0	0.0	123.3	174.2	123.3
Analyzer Calibration Response (ppmV CO):	0.2	0.0	122.4	176.0	123.3
Analyzer Calibration Error (% Span):	0.11	0.00	-0.52	1.03	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	5.5	0.2	0.00	0.2	0.00	0.00	122.2	-0.63	122.4	-0.52	0.11	**5.4**
2	0.0	0.2	0.00	0.0	-0.11	-0.11	122.4	-0.52	0.0	-70.78	-70.26	**-0.2**
3	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
4	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
5	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
6	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
7	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
8	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
9	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
10	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
11	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
12	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/17/07

Parameter: **Total Hydrocarbons (as CH4)**
Instrument Span (ppmV THC): 100

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV THC):	0.0	24.9	45.2	88.9	45.2
Analyzer Calibration Response (ppmV THC):	0.0	25.1	45.9	89.1	45.2
Analyzer Calibration Error (% Cal. Gas Value):	-------	0.80	1.55	0.22	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	3.2	0.0	0.00	0.0	0.00	0.00	45.9	0.70	45.2	0.00	-0.70	**3.2**
2	0.0	0.0	0.00	0.0	0.00	0.00	45.2	0.00	0.0	-45.20	-45.20	**0.0**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/17/07

Parameter: **Nitrogen Oxides (as NO2)**
Instrument Span (ppmV NOx): 437.7

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV NOx):	0.0	0.0	224.9	437.7	224.9
Analyzer Calibration Response (ppmV NOx):	0.0	0.0	225.0	435.0	224.9
Analyzer Calibration Error (% Span):	0.00	0.00	0.02	-0.62	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	223.0	-0.5	-0.11	0.0	0.00	0.11	223.5	-0.32	222.0	-0.66	-0.34	**225.2**
2	0.0	0.0	0.00	0.0	0.00	0.00	222.0	-0.66	0.0	-51.38	-50.72	**0.0**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2* Run No. 1 - Dioxin/Furans, PCB's
Test Date *05/17/07*

Parameter: **Oxygen**
Instrument Span (% O2): 21.99

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% O2):	0.00	N/A	12.45	21.99	12.45
Analyzer Calibration Response (% O2):	0.00	N/A	12.50	22.25	12.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.23	1.18	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	5.16	0.10	0.45	0.10	0.45	0.00	12.60	0.45	12.58	0.36	-0.09	**5.04**
2	0.00	0.10	0.45	0.00	0.00	-0.45	12.58	0.36	0.00	-56.84	-57.21	**-0.10**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2*
Test Date *05/17/07*

Parameter: **Carbon Dioxide**
Instrument Span (% CO2): 12.75

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% CO2):	0.00	N/A	7.50	12.75	7.50
Analyzer Calibration Response (% CO2):	0.00	N/A	7.50	12.60	7.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.00	-1.18	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	9.46	0.15	0.10	0.15	1.18	0.00	7.53	0.24	7.49	-0.08	-0.31	**9.49**
2	0.00	0.15	1.18	0.00	0.00	-1.18	7.49	-0.08	0.00	-58.82	-58.75	**-0.15**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/17/07

Parameter: **Carbon Monoxide**
Instrument Span (ppmV CO): 174.2

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV CO):	0.0	0.0	123.3	174.2	123.3
Analyzer Calibration Response (ppmV CO):	0.2	0.0	122.4	176.0	123.3
Analyzer Calibration Error (% Span):	0.11	0.00	-0.52	1.03	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	10.2	0.2	0.00	0.2	0.00	0.00	122.4	-0.52	121.0	-1.32	-0.80	**10.1**
2	0.0	0.2	0.00	0.0	-0.11	-0.11	121.0	-1.32	0.0	-70.78	-69.46	**-0.2**
3	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
4	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
5	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
6	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
7	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
8	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
9	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
10	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
11	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
12	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client	GTI
Project No.	3033
Test Location	G2
Test Date	05/17/07

Parameter: **Total Hydrocarbons (as CH4)**

Instrument Span (ppmV THC): 100

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV THC):	0.0	24.9	45.2	88.9	45.2
Analyzer Calibration Response (ppmV THC):	0.0	25.1	45.9	89.1	45.2
Analyzer Calibration Error (% Cal. Gas Value):	-------	0.80	1.55	0.22	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	7.8	0.0	0.00	0.0	0.00	0.00	45.2	0.00	44.8	-0.40	-0.40	**7.8**
2	0.0	0.0	0.00	0.0	0.00	0.00	44.8	-0.40	0.0	-45.20	-44.80	**0.0**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client	GTI
Project No.	3033
Test Location	G2
Test Date	05/17/07

Parameter: **Nitrogen Oxides (as NO2)**

Instrument Span (ppmV NOx): 437.7

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV NOx):	0.0	0.0	224.9	437.7	224.9
Analyzer Calibration Response (ppmV NOx):	0.0	0.0	225.0	435.0	224.9
Analyzer Calibration Error (% Span):	0.00	0.00	0.02	-0.62	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	181.0	0.0	0.00	0.0	0.00	0.00	222.0	-0.66	227.5	0.59	1.26	**181.1**
2	0.0	0.0	0.00	0.0	0.00	0.00	227.5	0.59	0.0	-51.38	-51.98	**0.0**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2* Run No. 2 - Dioxin/Furans, PCB's
Test Date *05/18/07*

Parameter: **Oxygen**
Instrument Span (% O2): 21.99

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% O2):	0.00	N/A	12.45	21.99	12.45
Analyzer Calibration Response (% O2):	0.00	N/A	12.48	22.20	12.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.14	0.95	-------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	6.13	0.00	0.00	0.10	0.45	0.45	12.53	0.14	12.50	0.00	-0.14	**6.07**
2	0.00	0.10	0.45	0.00	0.00	-0.45	12.50	0.00	0.00	-56.84	-56.84	**-0.10**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56.84	0.00	-56.84	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client *GTI*
Project No. *3033*
Test Location *G2*
Test Date *05/18/07*

Parameter: **Carbon Dioxide**
Instrument Span (% CO2): 12.75

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (% CO2):	0.00	N/A	7.50	12.75	7.50
Analyzer Calibration Response (% CO2):	0.00	N/A	7.50	12.69	7.50
Analyzer Calibration Error (% Span):	0.00	0.00	0.00	-0.47	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	8.64	0.00	0.00	0.03	0.24	0.24	7.44	-0.47	7.44	-0.47	0.00	**8.71**
2	0.00	0.03	0.24	0.00	0.00	-0.24	7.44	-0.47	0.00	-58.82	-58.35	**-0.03**
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-58.82	0.00	-58.82	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/18/07

Parameter: **Carbon Monoxide**
Instrument Span (ppmV CO): 174.2

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV CO):	0.0	0.0	123.3	174.2	123.3
Analyzer Calibration Response (ppmV CO):	0.2	0.0	122.0	175.6	123.3
Analyzer Calibration Error (% Span):	0.11	0.00	-0.75	0.80	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	3.1	0.2	0.00	0.4	0.11	0.11	124.0	0.40	123.2	-0.06	-0.46	**2.8**
2	0.0	0.4	0.11	0.0	-0.11	-0.23	123.2	-0.06	0.0	-70.78	-70.72	**-0.4**
3	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
4	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
5	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
6	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
7	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
8	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
9	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
10	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
11	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**
12	0.0	0.0	-0.11	0.0	-0.11	0.00	0.0	-70.78	0.0	-70.78	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/18/07

Parameter: **Total Hydrocarbons (as CH4)**
Instrument Span (ppmV THC): 100

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV THC):	0.0	24.9	45.2	88.9	45.2
Analyzer Calibration Response (ppmV THC):	0.0	25.7	44.8	88.6	45.2
Analyzer Calibration Error (% Cal. Gas Value):	-------	3.21	-0.88	-0.34	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	2.4	0.0	0.00	0.5	0.50	0.50	44.8	-0.40	44.8	-0.40	0.00	**2.2**
2	0.0	0.5	0.50	0.0	0.00	-0.50	44.8	-0.40	0.0	-45.20	-44.80	**-0.5**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-45.20	0.0	-45.20	0.00	**ERR**

AirNova, Inc.

EPA Method 6C Calculations

(Cal. Error, Bias Drift and Bias Adjustment)

Client GTI
Project No. 3033
Test Location G2
Test Date 05/18/07

Parameter: **Nitrogen Oxides (as NO2)**
Instrument Span (ppmV NOx): 437.7

	Analyzer Calib. Gases				Upscale
	zero	*low*	*mid*	*high*	*Sys. Cal. Gas*
Actual Calibration Gas Value (ppmV NOx):	0.0	0.0	224.9	437.7	224.9
Analyzer Calibration Response (ppmV NOx):	0.0	0.0	225.0	435.0	224.9
Analyzer Calibration Error (% Span):	0.00	0.00	0.02	-0.62	--------

		Zero System Calibration Gas					Upscale System Calibration Gas					
Run	*Apparent Stack Conc.*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Init. Sys. Calib. Response*	*Init. Sys. Cal. Bias (% span)*	*Final Sys. Calib. Response*	*Final Sys. Cal. Bias (% span)*	*Calib. Drift (% span)*	*Actual Stack Conc.*
1	197.0	0.0	0.00	1.0	0.23	0.23	224.0	-0.21	230.0	1.17	1.37	**195.1**
2	0.0	1.0	0.23	0.0	0.00	-0.23	230.0	1.17	0.0	-51.38	-52.55	**-1.0**
3	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
4	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
5	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
6	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
7	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
8	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
9	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
10	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
11	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**
12	0.0	0.0	0.00	0.0	0.00	0.00	0.0	-51.38	0.0	-51.38	0.00	**ERR**

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, 6, 7E, 10, 18, and 25A
(Flows, O2/CO2, H2O, SO2, NOx, CO, and NMHC)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One (During Run 1 Metals)
Test Date	05/16/07
Test Time	1155-1600

Emission Data

INPUT	Vlc =		1970.0	cc	Vol. of H2O collected
INPUT	Vm =		84.913	dcf	Dry gas meter reading
INPUT	Pstatic =		0.26	in. H2O	Static pressure
INPUT	Pb =		29.85	in. Hg	Barometric pressure
	Ps =		29.87	in. Hg	Stack pressure
	Pstd =		29.92	in. Hg	EPA Standard pressure
	dP =		0.4764	in. H2O ^.5	Average sq.rt delta P
	dH =		1.69	in. H2O	Average draft gauge reading
	Tm =		552.8	R	Average meter temperature
	Ts =		736.3	R	Average stack temperature
INPUT	Tstd=		529.7	R	Standard temperature
INPUT	Y =		0.99		Meter calibration factor
INPUT	t =		120	min.	Duration of sampling time
INPUT	Dn =		0.425	in.	Nozzle diameter
	An =		0.000985	sq. ft.	Nozzle area
INPUT	Ds =		3.000	ft.	Diameter of stack
	As =		7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =		0.84		Pitot tube coefficient
	Kp =		85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	
	K1 =		17.704	R/in.Hg	constant
	K2 =		0.047248	cu.ft/ml	constant Pitot tube constant
	K3 =		0.0026688	in.Hg-cf/ml-R	constant
INPUT	Fd =		8710	scf/MMBtu	From EPA Reference Method 19

Instrumental Data

INPUT	[O2]		4.61	%-dry	Oxygen concentration
INPUT	[CO2]		9.79	%-dry	Carbon Dioxide concentration
	[N2]		85.60	%-dry	Nitrogen concentration
INPUT	[CO]	>	41.50	%-dry	Carbon Monoxide concentration
INPUT	[THC]		9.5	ppmV-wet	Total Hydrocarbon concentration
INPUT	[CH4]		0.0	ppmV-dry	Methane Concentration by GC-FID
INPUT	[NOx]		111.8	ppmV-dry	Nitrogen Oxides concentration
INPUT	[SO2]		0.0	ppmV-dry	Sulfur Dioxide concentration

Engine Operating Data

INPUT	NA	kW	Average kW output during run
INPUT	NA	BHP	Calculated BHP

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 80.698 dscf
2.285 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 93.079 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5356

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.457 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.068 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14872.485 cfm
421.189 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4960.336 dscfm
140.477 dscmm

Calculations (cont.)

8) Total Hydrocarbon concentrations and emissions

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[THC] =	9.5	ppmVw		
C[THC] =	20.5	ppmVd		
C[CH4] =	0.0	ppmVd		
C[VOC] =	20.5	ppmVd		
C[VOC] =	17.5	ppmVd corrected to	7	% O2
INPUT Mol. Wt. [THC]=	16.04	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[VOC] =	0.25	lb/hr		
E[VOC] =	1.11	tons/yr		
E[VOC] =	ERR	grams/BHP-hr		
Conv Factor.	4.134E-008	convert ppmV to lb/scf THC as C3H8		
E[VOC] =	0.009	lb/MMBtu		

9) Nitrogen Oxides concentrations and emissions

Corr. C[NOx] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw NOx value
E[NOx] = (C[NOx]*Mol Wt[NOx]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[NOx grams/BHP-hr] = (NOx (lb/hr) * 453.6 (grams/lb))/ BHP
E[NOx lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[NOx] =	111.8	ppmVd		
C[NOx] =	95.4	ppmVd corrected to	7	% O2
Mol. Wt. [NOx]=	46.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[NOx] =	3.96	lb/hr		
E[NOx] =	17.33	tons/yr		
E[NOx] =	ERR	grams/BHP-hr		
Conv Factor.	1.194E-007	convert ppmV to lb/scf NOx		
E[NOx] =	0.149	lb/MMBtu		

10) Carbon Monoxide concentrations and emissions

Corr. C[CO] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw CO value
E[CO lb/hr] = (C[CO]*Mol Wt[CO]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[CO grams/BHP-hr] = (CO (lb/hr) * 453.6 (grams/lb))/ BHP
E[CO lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[CO] =	>	41.5	ppmVd		
C[CO] =	>	35.4	ppmVd corrected to	7	% O2
Mol. Wt. [CO]=	>	28.01	lb/lb-mole		
Molar vol air=	>	387	scf/lb-mole @	70	def F
E[CO] =	>	0.89	lb/hr		
E[CO] =	>	3.92	tons/yr		
E[CO] =	>	ERR	grams/BHP-hr		
Conv Factor.	>	7.235E-008	convert ppmV to lb/scf CO		
E[CO] =	>	0.034	lb/MMBtu		

11) Sulfur Dioxide concentrations and emissions

C(ppmV@15%O2) = C(ppmV) * [5.9 / (20.9-%O2)]
E(lb/MMBtu) = Cd(lb/scf) * Fd(scf/MMBtu) * [20.9 / (20.9-% O2)]
E(lb/hr) = E(lb/MMBtu) * MMBtu/hr
E[SO2 grams/BHP-hr] = (SO2 (lb/hr) * 453.6 (grams/lb))/ BHP

C[SO2] =	0.0	ppmV (dry) Actual Conc.		
C[SO2] =	0.0	ppmVd corrected to	7	% O2
Mol. Wt. [SO2]=	64.06	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
Conv Factor.	1.66E-007	convert ppmV to lb/scf SO2		
E[SO2] =	0.000	lb/MMBtu		
E[SO2] =	0.00	lb/hr		
E[SO2] =	0.00	tons/yr		
E[SO2] =	ERR	grams/BHP-hr		

12) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I	97.27

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, 6, 7E, 10, 18, and 25A
(Flows, O2/CO2, H2O, SO2, NOx, CO, and NMHC)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two (During Run 2 Metals)
Test Date	05/17/07
Test Time	0835-1307

Emission Data

INPUT	Vlc =	1951.7	cc	Vol. of H2O collected	
INPUT	Vm =	78.843	dcf	Dry gas meter reading	
INPUT	Pstatic =	0.26	in. H2O	Static pressure	
INPUT	Pb =	30.05	in. Hg	Barometric pressure	
	Ps =	30.07	in. Hg	Stack pressure	
	Pstd =	29.92	in. Hg	EPA Standard pressure	
	dP =	0.4750	in. H2O ^.5	Average sq.rt delta P	
	dH =	1.56	in. H2O	Average draft gauge reading	
	Tm =	532.2	R	Average meter temperature	
	Ts =	737.7	R	Average stack temperature	
INPUT	Tstd=	529.7	R	Standard temperature	
INPUT	Y =	0.99		Meter calibration factor	
INPUT	t =	120	min.	Duration of sampling time	
INPUT	Dn =	0.425	in.	Nozzle diameter	
	An =	0.000985	sq. ft.	Nozzle area	
INPUT	Ds =	3.000	ft.	Diameter of stack	
	As =	7.0684	sq. ft.	Cross sectional area of stack	
INPUT	Cp =	0.84		Pitot tube coefficient	
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]		
	K1 =	17.704	R/in.Hg	constant	
	K2 =	0.047248	cu.ft/ml	constant	Pitot tube constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant	
INPUT	Fd =	8710	scf/MMBtu	From EPA Reference Method 19	

Instrumental Data

INPUT	[O2]	5.18	%-dry	Oxygen concentration
INPUT	[CO2]	9.41	%-dry	Carbon Dioxide concentration
	[N2]	85.41	%-dry	Nitrogen concentration
INPUT	[CO]	5.40	%-dry	Carbon Monoxide concentration
INPUT	[THC]	3.2	ppmV-wet	Total Hydrocarbon concentration
INPUT	[CH4]	0.0	ppmV-dry	Methane Concentration by GC-FID
INPUT	[NOx]	225.2	ppmV-dry	Nitrogen Oxides concentration
INPUT	[SO2]	0.0	ppmV-dry	Sulfur Dioxide concentration

Engine Operating Data

INPUT	NA	kW	Average kW output during run
INPUT	NA	BHP	Calculated BHP

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 78.324 dscf
2.218 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 92.214 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5407

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.379 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.939 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14817.546 cfm
419.633 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4910.868 dscfm
139.076 dscmm

Calculations (cont.)

8) Total Hydrocarbon concentrations and emissions

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

	C[THC] =	3.2	ppmVw		
	C[THC] =	7.0	ppmVd		
	C[CH4] =	0.0	ppmVd		
	C[VOC] =	7.0	ppmVd		
	C[VOC] =	6.2	ppmVd corrected to	7	% O2
INPUT	Mol. Wt. [THC]=	16.04	lb/lb-mole		
	Molar vol air=	387	scf/lb-mole @	70	def F
	E[VOC] =	0.09	lb/hr		
	E[VOC] =	0.37	tons/yr		
	E[VOC] =	ERR	grams/BHP-hr		
	Conv Factor.	4.134E-008	convert ppmV to lb/scf THC as C3H8		
	E[VOC] =	0.003	lb/MMBtu		

9) Nitrogen Oxides concentrations and emissions

Corr. C[NOx] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw NOx value
E[NOx] = (C[NOx]*Mol Wt[NOx]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[NOx grams/BHP-hr] = (NOx (lb/hr) * 453.6 (grams/lb))/ BHP
E[NOx lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[NOx] =	225.2	ppmVd		
C[NOx] =	199.1	ppmVd corrected to	7	% O2
Mol. Wt. [NOx]=	46.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[NOx] =	7.89	lb/hr		
E[NOx] =	34.55	tons/yr		
E[NOx] =	ERR	grams/BHP-hr		
Conv Factor.	1.194E-007	convert ppmV to lb/scf NOx		
E[NOx] =	0.311	lb/MMBtu		

10) Carbon Monoxide concentrations and emissions

Corr. C[CO] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw CO value
E[CO lb/hr] = (C[CO]*Mol Wt[CO]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[CO grams/BHP-hr] = (CO (lb/hr) * 453.6 (grams/lb))/ BHP
E[CO lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[CO] =	5.4	ppmVd		
C[CO] =	4.8	ppmVd corrected to	7	% O2
Mol. Wt. [CO]=	28.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[CO] =	0.12	lb/hr		
E[CO] =	0.50	tons/yr		
E[CO] =	ERR	grams/BHP-hr		
Conv Factor.	7.235E-008	convert ppmV to lb/scf CO		
E[CO] =	0.005	lb/MMBtu		

11) Sulfur Dioxide concentrations and emissions

C(ppmV@15%O2) = C(ppmV) * [5.9 / (20.9-%O2)]
E(lb/MMBtu) = Cd(lb/scf) * Fd(scf/MMBtu) * [20.9 / (20.9-% O2)]
E(lb/hr) = E(lb/MMBtu) * MMBtu/hr
E[SO2 grams/BHP-hr] = (SO2 (lb/hr) * 453.6 (grams/lb))/ BHP

C[SO2] =	0.0	ppmV (dry) Actual Conc.		
C[SO2] =	0.0	ppmVd corrected to	7	% O2
Mol. Wt. [SO2]=	64.06	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
Conv Factor.	1.66E-007	convert ppmV to lb/scf SO2		
E[SO2] =	0.000	lb/MMBtu		
E[SO2] =	0.00	lb/hr		
E[SO2] =	0.00	tons/yr		
E[SO2] =	ERR	grams/BHP-hr		

12) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I	95.36

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, 6, 7E, 10, 18, and 25A
(Flows, O2/CO2, H2O, SO2, NOx, CO, and NMHC)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Three (During Run 1 Dioxins, PCB's)
Test Date	05/17/07
Test Time	1545-1915

Emission Data

INPUT	Vlc =	2650.3	cc	Vol. of H2O collected	
INPUT	Vm =	104.685	dcf	Dry gas meter reading	
INPUT	Pstatic =	0.26	in. H2O	Static pressure	
INPUT	Pb =	30.1	in. Hg	Barometric pressure	
	Ps =	30.12	in. Hg	Stack pressure	
	Pstd =	29.92	in. Hg	EPA Standard pressure	
	dP =	0.4857	in. H2O ^.5	Average sq.rt delta P	
	dH =	1.18	in. H2O	Average draft gauge reading	
	Tm =	527.0	R	Average meter temperature	
	Ts =	748.0	R	Average stack temperature	
INPUT	Tstd=	529.7	R	Standard temperature	
INPUT	Y =	0.99		Meter calibration factor	
INPUT	t =	184	min.	Duration of sampling time	
INPUT	Dn =	0.392	in.	Nozzle diameter	
	An =	0.000838	sq. ft.	Nozzle area	
INPUT	Ds =	3.000	ft.	Diameter of stack	
	As =	7.0684	sq. ft.	Cross sectional area of stack	
INPUT	Cp =	0.84		Pitot tube coefficient	
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]		
	K1 =	17.704	R/in.Hg	constant	
	K2 =	0.047248	cu.ft/ml	constant	Pitot tube constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant	
INPUT	Fd =	8710	scf/MMBtu	From EPA Reference Method 19	

Instrumental Data

INPUT	[O2]	5.04	%-dry	Oxygen concentration
INPUT	[CO2]	9.49	%-dry	Carbon Dioxide concentration
	[N2]	85.47	%-dry	Nitrogen concentration
INPUT	[CO]	10.10	%-dry	Carbon Monoxide concentration
INPUT	[THC]	7.8	ppmV-wet	Total Hydrocarbon concentration
INPUT	[CH4]	0.0	ppmV-dry	Methane Concentration by GC-FID
INPUT	[NOx]	181.1	ppmV-dry	Nitrogen Oxides concentration
INPUT	[SO2]	0.0	ppmV-dry	Sulfur Dioxide concentration

Engine Operating Data

INPUT	NA	kW	Average kW output during run
INPUT	NA	BHP	Calculated BHP

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 105.094 dscf
2.976 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 125.222 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5437

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.348 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.975 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15256.942 cfm
432.077 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4962.768 dscfm
140.546 dscmm

Calculations (cont.)

8) Total Hydrocarbon concentrations and emissions

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

	C[THC] =	7.8	ppmVw		
	C[THC] =	17.1	ppmVd		
	C[CH4] =	0.0	ppmVd		
	C[VOC] =	17.1	ppmVd		
	C[VOC] =	15.0	ppmVd corrected to	7	% O2
INPUT	Mol. Wt. [THC]=	16.04	lb/lb-mole		
	Molar vol air=	387	scf/lb-mole @	70	def F
	E[VOC] =	0.21	lb/hr		
	E[VOC] =	0.92	tons/yr		
	E[VOC] =	ERR	grams/BHP-hr		
	Conv Factor.	4.134E-008	convert ppmV to lb/scf THC as C3H8		
	E[VOC] =	0.008	lb/MMBtu		

9) Nitrogen Oxides concentrations and emissions

Corr. C[NOx] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw NOx value
E[NOx] = (C[NOx]*Mol Wt[NOx]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[NOx grams/BHP-hr] = (NOx (lb/hr) * 453.6 (grams/lb))/ BHP
E[NOx lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[NOx] =	181.1	ppmVd		
C[NOx] =	158.7	ppmVd corrected to	7	% O2
Mol. Wt. [NOx]=	46.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[NOx] =	6.41	lb/hr		
E[NOx] =	28.08	tons/yr		
E[NOx] =	ERR	grams/BHP-hr		
Conv Factor.	1.194E-007	convert ppmV to lb/scf NOx		
E[NOx] =	0.248	lb/MMBtu		

10) Carbon Monoxide concentrations and emissions

Corr. C[CO] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw CO value
E[CO lb/hr] = (C[CO]*Mol Wt[CO]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[CO grams/BHP-hr] = (CO (lb/hr) * 453.6 (grams/lb))/ BHP
E[CO lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[CO] =	10.1	ppmVd		
C[CO] =	8.9	ppmVd corrected to	7	% O2
Mol. Wt. [CO]=	28.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[CO] =	0.22	lb/hr		
E[CO] =	0.95	tons/yr		
E[CO] =	ERR	grams/BHP-hr		
Conv Factor.	7.235E-008	convert ppmV to lb/scf CO		
E[CO] =	0.008	lb/MMBtu		

11) Sulfur Dioxide concentrations and emissions

C(ppmV@15%O2) = C(ppmV) * [5.9 / (20.9-%O2)]
E(lb/MMBtu) = Cd(lb/scf) * Fd(scf/MMBtu) * [20.9 / (20.9-% O2)]
E(lb/hr) = E(lb/MMBtu) * MMBtu/hr
E[SO2 grams/BHP-hr] = (SO2 (lb/hr) * 453.6 (grams/lb))/ BHP

C[SO2] =	0.0	ppmV (dry) Actual Conc.		
C[SO2] =	0.0	ppmVd corrected to	7	% O2
Mol. Wt. [SO2]=	64.06	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
Conv Factor.	1.66E-007	convert ppmV to lb/scf SO2		
E[SO2] =	0.000	lb/MMBtu		
E[SO2] =	0.00	lb/hr		
E[SO2] =	0.00	tons/yr		
E[SO2] =	ERR	grams/BHP-hr		

12) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I	97.07

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, 6, 7E, 10, 18, and 25A
(Flows, O2/CO2, H2O, SO2, NOx, CO, and NMHC)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Four (During Run 2 Dioxins, PCB's)
Test Date	05/18/07
Test Time	0827-1149

Emission Data

INPUT	Vlc =	2399	cc	Vol. of H2O collected	
INPUT	Vm =	96.162	dcf	Dry gas meter reading	
INPUT	Pstatic =	0.26	in. H2O	Static pressure	
INPUT	Pb =	30.26	in. Hg	Barometric pressure	
	Ps =	30.28	in. Hg	Stack pressure	
	Pstd =	29.92	in. Hg	EPA Standard pressure	
	dP =	0.4685	in. H2O ^.5	Average sq.rt delta P	
	dH =	1.05	in. H2O	Average draft gauge reading	
	Tm =	512.4	R	Average meter temperature	
	Ts =	724.2	R	Average stack temperature	
INPUT	Tstd=	529.7	R	Standard temperature	
INPUT	Y =	0.99		Meter calibration factor	
INPUT	t =	184	min.	Duration of sampling time	
INPUT	Dn =	0.392	in.	Nozzle diameter	
	An =	0.000838	sq. ft.	Nozzle area	
INPUT	Ds =	3.000	ft.	Diameter of stack	
	As =	7.0684	sq. ft.	Cross sectional area of stack	
INPUT	Cp =	0.84		Pitot tube coefficient	
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]		
	K1 =	17.704	R/in.Hg	constant	
	K2 =	0.047248	cu.ft/ml	constant	Pitot tube constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant	
INPUT	Fd =	8710	scf/MMBtu	From EPA Reference Method 19	

Instrumental Data

INPUT	[O2]	6.07	%-dry	Oxygen concentration
INPUT	[CO2]	8.71	%-dry	Carbon Dioxide concentration
	[N2]	85.22	%-dry	Nitrogen concentration
INPUT	[CO]	2.80	%-dry	Carbon Monoxide concentration
INPUT	[THC]	2.2	ppmV-wet	Total Hydrocarbon concentration
INPUT	[CH4]	0.0	ppmV-dry	Methane Concentration by GC-FID
INPUT	[NOx]	195.1	ppmV-dry	Nitrogen Oxides concentration
INPUT	[SO2]	0.0	ppmV-dry	Sulfur Dioxide concentration

Engine Operating Data

INPUT	NA	kW	Average kW output during run
INPUT	NA	BHP	Calculated BHP

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 99.796 dscf
2.826 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 113.348 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5318

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.448 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 33.976 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14409.332 cfm
408.072 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4993.862 dscfm
141.426 dscmm

Calculations (cont.)

8) Total Hydrocarbon concentrations and emissions

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

	C[THC] =	2.2	ppmVw		
	C[THC] =	4.7	ppmVd		
	C[CH4] =	0.0	ppmVd		
	C[VOC] =	4.7	ppmVd		
	C[VOC] =	4.4	ppmVd corrected to	7	% O2
INPUT	Mol. Wt. [THC]=	16.04	lb/lb-mole		
	Molar vol air=	387	scf/lb-mole @	70	def F
	E[VOC] =	0.06	lb/hr		
	E[VOC] =	0.26	tons/yr		
	E[VOC] =	ERR	grams/BHP-hr		
	Conv Factor.	4.134E-008	convert ppmV to lb/scf THC as C3H8		
	E[VOC] =	0.002	lb/MMBtu		

9) Nitrogen Oxides concentrations and emissions

Corr. C[NOx] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw NOx value
E[NOx] = (C[NOx]*Mol Wt[NOx]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[NOx grams/BHP-hr] = (NOx (lb/hr) * 453.6 (grams/lb))/ BHP
E[NOx lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[NOx] =	195.1	ppmVd		
C[NOx] =	182.9	ppmVd corrected to	7	% O2
Mol. Wt. [NOx]=	46.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[NOx] =	6.95	lb/hr		
E[NOx] =	30.44	tons/yr		
E[NOx] =	ERR	grams/BHP-hr		
Conv Factor.	1.194E-007	convert ppmV to lb/scf NOx		
E[NOx] =	0.286	lb/MMBtu		

10) Carbon Monoxide concentrations and emissions

Corr. C[CO] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*Avg. raw CO value
E[CO lb/hr] = (C[CO]*Mol Wt[CO]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[CO grams/BHP-hr] = (CO (lb/hr) * 453.6 (grams/lb))/ BHP
E[CO lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

C[CO] =	2.8	ppmVd		
C[CO] =	2.6	ppmVd corrected to	7	% O2
Mol. Wt. [CO]=	28.01	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
E[CO] =	0.06	lb/hr		
E[CO] =	0.27	tons/yr		
E[CO] =	ERR	grams/BHP-hr		
Conv Factor.	7.235E-008	convert ppmV to lb/scf CO		
E[CO] =	0.002	lb/MMBtu		

11) Sulfur Dioxide concentrations and emissions

C(ppmV@15%O2) = C(ppmV) * [5.9 / (20.9-%O2)]
E(lb/MMBtu) = Cd(lb/scf) * Fd(scf/MMBtu) * [20.9 / (20.9-% O2)]
E(lb/hr) = E(lb/MMBtu) * MMBtu/hr
E[SO2 grams/BHP-hr] = (SO2 (lb/hr) * 453.6 (grams/lb))/ BHP

C[SO2] =	0.0	ppmV (dry) Actual Conc.		
C[SO2] =	0.0	ppmVd corrected to	7	% O2
Mol. Wt. [SO2]=	64.06	lb/lb-mole		
Molar vol air=	387	scf/lb-mole @	70	def F
Conv Factor.	1.66E-007	convert ppmV to lb/scf SO2		
E[SO2] =	0.000	lb/MMBtu		
E[SO2] =	0.00	lb/hr		
E[SO2] =	0.00	tons/yr		
E[SO2] =	ERR	grams/BHP-hr		

12) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I	91.60

3033-11

AirNova, Inc.

EPA Methods 1,2,3,4,202 and NJATM 1

(Flows, O2/CO2, H2O, Back Half PM, and Total Suspended Particulate)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Bayonne, New Jersey
Emission Source	Carbon Bed Outlet
Fuel	Gas
Test Date	05/16/07
Test Run	One
Time Period	1155-1600

Emission Data

					Data from:
INPUT	Vlc =	1986.7	cc	Vol. of H2O collected	EPA 4
INPUT	Vm =	85.145	dcf	Dry gas meter reading	EPA 4
INPUT	Pstatic =	0.26	in. H2O	Static pressure	EPA 2
INPUT	Pb =	29.70	in. Hg	Barometric pressure	
	Ps =	29.72	in. Hg	Stack pressure	EPA 2
	Pstd =	29.92	in. Hg	EPA Standard pressure	
	dP =	0.471	in. H2O ^.5	Average sq.rt delta P	EPA 2
	dH =	1.56	in. H2O	Average draft gauge reading	EPA 4
	Tm =	546.3	R	Average meter temperature	EPA 4
	Ts =	732.4	R	Average stack temperature	EPA 2
INPUT	Tstd=	529.7	R	Standard temperature	
INPUT	Y =	1.00		Meter calibration factor	
INPUT	t =	120	min.	Duration of sampling time	
INPUT	Dn =	0.425	in.	Nozzle diameter	
INPUT	An =	0.000985	sq. ft.	Nozzle area	
INPUT	Ds =	3.00	ft.	Diameter of stack	
	As =	7.069	sq. ft.	Cross sectional area of stack	
INPUT	Cp =	0.84		Pitot tube coefficient	EPA2
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant	
	K1 =	17.704	R/in.Hg	constant	
	K2 =	0.047248	cu.ft/ml	constant	
	K3 =	0.0026688	in.Hg-cf/ml-R	constant	
	Molar vol air=	387.0	scf/lb-mol	constant @ 70 deg F	
	Fd =	8710	scf/MMBtu	Fuel Factor	

EPA Method 3A Instrumental Data

INPUT EPA3	[O2]	4.61	%-dry	Oxygen concentration
INPUT EPA3	[CO2]	9.79	%-dry	Carbon Dioxide concentration
	[N2]	85.60	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 82.264 dscf
2.330 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 93.868 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5329

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.488 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.675 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14706.35 cfm
416.48 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4934.46 dscfm
Qstd = 139.74 dscmm

Calculations (cont.)

8) Particulate sample mass calculations

Front Half:

Filter sample net wt	0.2392	g
Front acetone residue wt.	0.0170	g
Front half sample wt.	0.2562	g

10) Total Suspended Particulate Matter Emission Data

C[TSP] (grains/dscf) = (Front Half Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[TSP] (lb/dscf) = C[TSP] (grains/dscf) * (1 lb/7000 grains)
E[TSP] (lb/MMBtu) = C[TSP] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[TSP] = C[TSP] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

C[TSP] =	4.81E-002	grains/dscf
C[TSP] =	6.86E-006	lb/dscf
E[TSP] =	0.0767	lb/MMBtu
E[TSP] =	2.032	lb/hr

11) Back Half Organic Particulate Analysis

C[BHOPM] (grains/dscf) = (Organic Mass Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[BHOPM] (lb/dscf) = C[BHOPM] (grains/dscf) * (1 lb/7000 grains)
E[BHOPM] (lb/MMBtu) = C[BHOPM] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[BHOPM] = C[BHOPM] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

BHOPM Mass =	0.0023	g
C[BHOPM]=	4.31E-004	grains/dscf
C[BHOPM]=	6.16E-008	lb/dscf
E[BHOPM]=	0.0007	lb/MMBtu
E[BHOPM]=	0.018	lb/hr
% BHOPM	0.3	

Calculations (cont.)

12) Back Half Inorganic Particulate Analysis

C[BHIPM] (grains/dscf) = (Inorganic Mass Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[BHIPM] (lb/dscf) = C[BHIPM] (grains/dscf) * (1 lb/7000 grains)
E[BHIPM] (lb/MMBtu) = C[BHIPM] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[BHIPM] = C[BHIPM] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

BHIPM Mass =	0.4595	g
C[BHIPM]=	8.62E-002	grains/dscf
C[BHIPM]=	1.23E-005	lb/dscf
E[BHIPM]=	0.1376	lb/MMBtu
E[BHIPM]=	3.645	lb/hr
% BHIPM	64.0	

13) Total Back Half Particulate Matter

C[TBHPM] (grains/dscf) = (C[BHOPM] (grains/dscf)) + (C[BHIPM] (grains/dscf))
C[TBHPM] (lb/dscf) = (C[BHOPM] (lb/dscf)) + (C[BHIPM] (lb/dscf))
E[TBHPM] (lb/MMBtu) = (E[BHOPM] (lb/MMBtu)) + (E[BHIPM] (lb/MMBtu))
E[TBHPM] (lb/hr) = (E[BHOPM] (lb/hr)) + (E[BHIPM] (lb/hr))

TBHPM Mass =	0.4618	g
C[TBHPM]=	8.66E-002	grains/dscf
C[TBHPM]=	1.24E-005	lb/dscf
E[TBHPM]=	0.1383	lb/MMBtu
E[TBHPM]=	3.664	lb/hr
% TBHPM	64.3	

14) Total Particulate Matter < 10 Microns Emission Data

C[TPM10] (grains/dscf) = (C[TSP] (grains/dscf)) + (C[TBHPM] (grains/dscf))
C[TPM10] (lb/dscf) = (C[TSP] (lb/dscf)) + (C[TBHPM] (lb/dscf))
E[TPM10] (lb/MMBtu) = (E[TSP] (lb/MMBtu)) + (E[TBHPM] (lb/MMBtu))
E[TPM10] (lb/hr) = (E[TSP] (lb/hr)) + (E[TBHPM] (lb/hr))

C[TPM10] =	1.35E-001	grains/dscf
C[TPM10] =	1.92E-005	lb/dscf
E[TPM10] =	0.2150	lb/MMBtu
E[TPM10] =	5.696	lb/hr

15) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 99.68

3033-12

AirNova, Inc.

EPA Methods 1,2,3,4,202 and NJATM 1

(Flows, O2/CO2, H2O, Back Half PM, and Total Suspended Particulate)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Bayonne, New Jersey
Emission Source	Carbon Bed Outlet
Fuel	Gas
Test Date	05/17/07
Test Run	Two
Time Period	0835-1307

Emission Data

					Data from:
INPUT	Vlc =	2040.0	cc	Vol. of H2O collected	EPA 4
INPUT	Vm =	81.903	dcf	Dry gas meter reading	EPA 4
INPUT	Pstatic =	0.26	in. H2O	Static pressure	EPA 2
INPUT	Pb =	30.05	in. Hg	Barometric pressure	
	Ps =	30.07	in. Hg	Stack pressure	EPA 2
	Pstd =	29.92	in. Hg	EPA Standard pressure	
	dP =	0.484	in. H2O ^.5	Average sq.rt delta P	EPA 2
	dH =	1.58	in. H2O	Average draft gauge reading	EPA 4
	Tm =	530.0	R	Average meter temperature	EPA 4
	Ts =	738.5	R	Average stack temperature	EPA 2
INPUT	Tstd=	529.7	R	Standard temperature	
INPUT	Y =	1.00		Meter calibration factor	
INPUT	t =	120	min.	Duration of sampling time	
INPUT	Dn =	0.425	in.	Nozzle diameter	
INPUT	An =	0.000985	sq. ft.	Nozzle area	
INPUT	Ds =	3.00	ft.	Diameter of stack	
	As =	7.069	sq. ft.	Cross sectional area of stack	
INPUT	Cp =	0.84		Pitot tube coefficient	EPA2
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant	
	K1 =	17.704	R/in.Hg	constant	
	K2 =	0.047248	cu.ft/ml	constant	
	K3 =	0.0026688	in.Hg-cf/ml-R	constant	
	Molar vol air=	387.0	scf/lb-mol	constant @ 70 deg F	
	Fd =	8710	scf/MMBtu	Fuel Factor	

EPA Method 3A Instrumental Data

INPUT EPA3	[O2]	5.18	%-dry	Oxygen concentration
INPUT EPA3	[CO2]	9.41	%-dry	Carbon Dioxide concentration
	[N2]	85.41	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 82.537 dscf
2.337 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 96.386 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5387

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.403 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.615 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15104.82 cfm
427.77 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5022.60 dscfm
Qstd = 142.24 dscmm

Calculations (cont.)

8) Particulate sample mass calculations

Front Half:

Filter sample net wt	0.0180	g
Front acetone residue wt.	0.0077	g
Front half sample wt.	0.0257	g

10) Total Suspended Particulate Matter Emission Data

C[TSP] (grains/dscf) = (Front Half Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[TSP] (lb/dscf) = C[TSP] (grains/dscf) * (1 lb/7000 grains)
E[TSP] (lb/MMBtu) = C[TSP] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[TSP] = C[TSP] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

C[TSP] =	4.80E-003	grains/dscf
C[TSP] =	6.86E-007	lb/dscf
E[TSP] =	0.0079	lb/MMBtu
E[TSP] =	0.207	lb/hr

11) Back Half Organic Particulate Analysis

C[BHOPM] (grains/dscf) = (Organic Mass Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[BHOPM] (lb/dscf) = C[BHOPM] (grains/dscf) * (1 lb/7000 grains)
E[BHOPM] (lb/MMBtu) = C[BHOPM] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[BHOPM] = C[BHOPM] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

BHOPM Mass =	0.0003	g
C[BHOPM]=	5.61E-005	grains/dscf
C[BHOPM]=	8.01E-009	lb/dscf
E[BHOPM]=	0.0001	lb/MMBtu
E[BHOPM]=	0.002	lb/hr
% BHOPM	0.1	

Calculations (cont.)

12) Back Half Inorganic Particulate Analysis

C[BHIPM] (grains/dscf) = (Inorganic Mass Wt)(g) * (1/Vmstd) * 15.43(grains/g)
C[BHIPM] (lb/dscf) = C[BHIPM] (grains/dscf) * (1 lb/7000 grains)
E[BHIPM] (lb/MMBtu) = C[BHIPM] (lb/dscf) * Fd * (20.9/(20.9-O2))
E[BHIPM] = C[BHIPM] * Vdscfm * A * (60 min/hr) * (1 lb / 7000 grains)

BHIPM Mass =	0.1993	g
C[BHIPM]=	3.73E-002	grains/dscf
C[BHIPM]=	5.32E-006	lb/dscf
E[BHIPM]=	0.0616	lb/MMBtu
E[BHIPM]=	1.604	lb/hr
% BHIPM	88.5	

13) Total Back Half Particulate Matter

C[TBHPM] (grains/dscf) = (C[BHOPM] (grains/dscf)) + (C[BHIPM] (grains/dscf))
C[TBHPM] (lb/dscf) = (C[BHOPM] (lb/dscf)) + (C[BHIPM] (lb/dscf))
E[TBHPM] (lb/MMBtu) = (E[BHOPM] (lb/MMBtu)) + (E[BHIPM] (lb/MMBtu))
E[TBHPM] (lb/hr) = (E[BHOPM] (lb/hr)) + (E[BHIPM] (lb/hr))

TBHPM Mass =	0.1996	g
C[TBHPM]=	3.73E-002	grains/dscf
C[TBHPM]=	5.33E-006	lb/dscf
E[TBHPM]=	0.0617	lb/MMBtu
E[TBHPM]=	1.606	lb/hr
% TBHPM	88.6	

14) Total Particulate Matter < 10 Microns Emission Data

C[TPM10] (grains/dscf) = (C[TSP] (grains/dscf)) + (C[TBHPM] (grains/dscf))
C[TPM10] (lb/dscf) = (C[TSP] (lb/dscf)) + (C[TBHPM] (lb/dscf))
E[TPM10] (lb/MMBtu) = (E[TSP] (lb/MMBtu)) + (E[TBHPM] (lb/MMBtu))
E[TPM10] (lb/hr) = (E[TSP] (lb/hr)) + (E[TBHPM] (lb/hr))

C[TPM10] =	4.21E-002	grains/dscf
C[TPM10] =	6.02E-006	lb/dscf
E[TPM10] =	0.0697	lb/MMBtu
E[TPM10] =	1.813	lb/hr

15) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 98.26

3033-09

AirNova, Inc.

EPA Methods 1,2,3A,4,and 26A
(Flows, O2/CO2, H2O,and HCl)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	One
Test Date	05/18/07
Test Time	1330-1503

Emission Data

INPUT	Vlc =	870.2	cc	Vol. of H2O collected
INPUT	Vm =	43.756	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	29.77	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4720	in. H2O ^.5	Average sq.rt delta P
	dH =	1.701	in. H2O	Average draft gauge reading
	Tm =	527.8	R	Average meter temperature
	Ts =	778.5	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.438	in.	Nozzle diameter
	An =	0.001046	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.98		Meter calibration factor
INPUT	t =	60	min.	Duration of sampling time
INPUT	Ds =	3.000	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(lnHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	5.8	%-dry	Oxygen concentration
INPUT	[CO2]	8.9	%-dry	Carbon Dioxide concentration
	[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 43.706 dscf
1.24 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 41.115 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.485

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 24.01 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.38 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15004.6 cfm
424.9 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5233.8 dscfm
148.2 dscmm

8) Hydrogen Chloride Concentration and Emissions

M[HCl] = M[Cl-](mg) * MW[HCl](mg/mmol) / MW[Cl-](mg/mmol)
C[HCl] = (M[HCl](mg) * 2.205E-06(lb/mg) * 21.85(scf*inHg/lbmol*R) * K1 * 10^6) / (MW[HCl](lb/lbmol) * Vmstd(ds
C[HCl](@corr. O2) = C[HCl](ppmV) * [(20.9-corrected O2) / (20.9-actual %O2)]
E[HCl] = M[HCl](mg) * Qstd(dscfm) * (2.205E-06)(lb/mg) * 60(min/hr) / Vmstd(dscf)

M[HCl] = 15.20 mg
C[HCl] = 8.138 ppmV
C[HCl] = 7.492 ppmV @ 7.0 % O2
E[HCl] = 0.241 lb/hr

9) Isokinecity, I.

% I = (100*Ts*(K3*Vlc+(Vm*Y/Tm)(Pb+dH/13.6)))/(60*t*Ps*Vs*An)
% I = 94.02

3033-10

AirNova, Inc.

EPA Methods 1,2,3A,4,and 26A
(Flows, O2/CO2, H2O,and HCl)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	Two
Test Date	05/18/07
Test Time	1540-1643

Emission Data

INPUT	Vlc =	1006.3	cc	Vol. of H2O collected
INPUT	Vm =	44.946	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	29.77	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4801	in. H2O ^.5	Average sq.rt delta P
	dH =	1.751	in. H2O	Average draft gauge reading
	Tm =	537.4	R	Average meter temperature
	Ts =	778.8	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.438	in.	Nozzle diameter
	An =	0.001046	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.98		Meter calibration factor
INPUT	t =	60	min.	Duration of sampling time
INPUT	Ds =	3.000	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	5.8	%-dry	Oxygen concentration
INPUT	[CO2]	8.9	%-dry	Carbon Dioxide concentration
	[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 44.095 dscf
1.25 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 47.546 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.519

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.61 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 36.30 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15393.3 cfm
435.9 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5012.2 dscfm
141.9 dscmm

8) Hydrogen Chloride Concentration and Emissions

M[HCl] = M[Cl-](mg) * MW[HCl](mg/mmol) / MW[Cl-](mg/mmol)
C[HCl] = (M[HCl](mg) * 2.205E-06(lb/mg) * 21.85(scf*inHg/lbmol*R) * K1 * 10^6) / (MW[HCl](lb/lbmol) * Vmstd(ds
C[HCl](@corr. O2) = C[HCl](ppmV) * [(20.9-corrected O2) / (20.9-actual %O2)]
E[HCl] = M[HCl](mg) * Qstd(dscfm) * (2.205E-06)(lb/mg) * 60(min/hr) / Vmstd(dscf)

M[HCl] = 29.00 mg
C[HCl] = 15.390 ppmV
C[HCl] = 14.167 ppmV @ 7.0 % O2
E[HCl] = 0.436 lb/hr

9) Isokinecity, I.

% I = (100*Ts*(K3*Vlc+(Vm*Y/Tm)(Pb+dH/13.6)))/(60*t*Ps*Vs*An)
% I = 99.05

3033-21

AirNova, Inc.

EPA Methods 1,2,3A,4,and 26A
(Flows, O2/CO2, H2O,and HCl)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One
Test Date	05/18/07
Test Time	1337-1442

Emission Data

INPUT	Vlc =	925.3	cc	Vol. of H2O collected
INPUT	Vm =	41.636	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	30.28	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4693	in. H2O ^.5	Average sq.rt delta P
	dH =	1.432	in. H2O	Average draft gauge reading
	Tm =	514.0	R	Average meter temperature
	Ts =	721.8	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.427	in.	Nozzle diameter
	An =	0.000994	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.00		Meter calibration factor
INPUT	t =	60	min.	Duration of sampling time
INPUT	Ds =	3.000	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	5.8	%-dry	Oxygen concentration
INPUT	[CO2]	8.8	%-dry	Carbon Dioxide concentration
	[N2]	85.40	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 43.551 dscf
1.23 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 43.719 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.501

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.81 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 33.72 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14299.9 cfm
405.0 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5300.1 dscfm
150.1 dscmm

8) Hydrogen Chloride Concentration and Emissions

M[HCl] = M[Cl-](mg) * MW[HCl](mg/mmol) / MW[Cl-](mg/mmol)
C[HCl] = (M[HCl](mg) * 2.205E-06(lb/mg) * 21.85(scf*inHg/lbmol*R) * K1 * 10^6) / (MW[HCl](lb/lbmol) * Vmstd(ds
C[HCl](@corr. O2) = C[HCl](ppmV) * [(20.9-corrected O2) / (20.9-actual %O2)]
E[HCl] = M[HCl](mg) * Qstd(dscfm) * (2.205E-06)(lb/mg) * 60(min/hr) / Vmstd(dscf)

M[HCl] = 10.50 mg
C[HCl] = 5.642 ppmV
C[HCl] = 5.194 ppmV @ 7.0 % O2
E[HCl] = 0.169 lb/hr

9) Isokinecity, I.

% I = (100*Ts*(K3*Vlc+(Vm*Y/Tm)(Pb+dH/13.6)))/(60*t*Ps*Vs*An)
% I = 97.34

3033-22

AirNova, Inc.

EPA Methods 1,2,3A,4,and 26A
(Flows, O2/CO2, H2O,and HCl)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two
Test Date	05/18/07
Test Time	1543-1646

Emission Data

INPUT	Vlc =	947	cc	Vol. of H2O collected
INPUT	Vm =	41.599	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	30.28	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4720	in. H2O ^.5	Average sq.rt delta P
	dH =	1.448	in. H2O	Average draft gauge reading
	Tm =	521.0	R	Average meter temperature
	Ts =	724.7	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.427	in.	Nozzle diameter
	An =	0.000994	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.00		Meter calibration factor
INPUT	t =	60	min.	Duration of sampling time
INPUT	Ds =	3.000	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	5.8	%-dry	Oxygen concentration
INPUT	[CO2]	8.9	%-dry	Carbon Dioxide concentration
	[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 42.926 dscf
1.22 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 44.744 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.510

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.71 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.05 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14442.1 cfm
409.0 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5230.6 dscfm
148.1 dscmm

8) Hydrogen Chloride Concentration and Emissions

M[HCl] = M[Cl-](mg) * MW[HCl](mg/mmol) / MW[Cl-](mg/mmol)
C[HCl] = (M[HCl](mg) * 2.205E-06(lb/mg) * 21.85(scf*inHg/lbmol*R) * K1 * 10^6) / (MW[HCl](lb/lbmol) * Vmstd(ds
C[HCl](@corr. O2) = C[HCl](ppmV) * [(20.9-corrected O2) / (20.9-actual %O2)]
E[HCl] = M[HCl](mg) * Qstd(dscfm) * (2.205E-06)(lb/mg) * 60(min/hr) / Vmstd(dscf)

M[HCl] =	14.80	mg		
C[HCl] =	8.068	ppmV		
C[HCl] =	7.427	ppmV @	7.0	% O2
E[HCl] =	0.239	lb/hr		

9) Isokinecity, I.

% I = (100*Ts*(K3*Vlc+(Vm*Y/Tm)(Pb+dH/13.6)))/(60*t*Ps*Vs*An)
% I = 97.22

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, and 8
(Flows, O2/CO2, H2O, and SOx)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	One
Test Date	05/18/07
Test Time	1330-1503

Emission Data

INPUT	Vlc =	894.5	cc	Vol. of H2O collected
INPUT	Vm =	39.131	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	29.77	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.460	in. H2O ^.5	Average sq.rt delta P
	dH =	1.421	in. H2O	Average draft gauge reading
	Tm =	518.5	R	Average meter temperature
	Ts =	779.7	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.432	in.	Nozzle diameter
	An =	1.02E-003	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.02		Meter calibration factor
INPUT	t =	60.0	min.	Duration of sampling time
INPUT	Ds =	3.000	sq. ft.	Diameter of stack
	As =	7.0650	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	{ft*[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047301	cu.ft/ml	constant
	K3 =	0.0026718	in.Hg*cf / ml*R	constant
	R =	21.85	in.Hg*scf / lbmol*R	Molar Gas Constant
	CF =	0.000000072	lb/dscf / ppmVd	Conversion Factor for CO
	CF =	0.000000041	lb/dscf / ppmVd	Conversion Factor for CH4
	CF =	0.000000119	lb/dscf / ppmVd	Conversion Factor for NOx(as NO2)

Instrumental Data

INPUT	[O2]	5.90	%-dry	Oxygen concentration
INPUT	[CO2]	8.70	%-dry	Carbon Dioxide concentration
	[N2]	85.40	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm

Vmstd = 41.379 dscf
1.17 dscm

2) Volume of water vapor collected at standard conditions, Vwstd.

Vwstd = K2 * Vlc

Vwstd = 42.310 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)

Bws = 0.506

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((.44*%CO2) + (.32*%O2) + (.28*%N2)) * (1-Bws)] + (18*Bws)

Ms = 23.75 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5

Vs = 34.67 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As

Qa = 14697.3 cfm
416.2 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)

Qstd = 4911.4 dscfm
139.1 dscmm

Calculations (cont.)

8) Sulfur dioxide analytical data (3% H2O2 catch)

M[SO2] = sample mass (mg)
C[SO2] = M[SO2] (mg) / sample volume (dscm)
C[SO2] = C[SO2] (mg/dscm)/(MW[SO2]/24.05)
E[SO2] = C[SO2] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfur Dioxide	345.00	294.41	110.53	5.42

9) SO3 & Sulfuric acid mist analytical data (80 % IPA & Filter Catch)

M[H2SO4] = sample mass (mg)
C[H2SO4] = M[H2SO4] (mg) / sample volume (dscm)
C[H2SO4] = C[H2SO4] (mg/dscm)/(MW[H2SO4]/24.05)
E[H2SO4] = C[H2SO4] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfuric Acid	36.70	31.32	7.68	0.58

10) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I 97.5

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, and 8
(Flows, O2/CO2, H2O, and SOx)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	Two
Test Date	05/18/07
Test Time	1540-1643

Emission Data

INPUT	Vlc =	1029.3	cc	Vol. of H2O collected
INPUT	Vm =	39.099	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	29.77	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.461	in. H2O ^.5	Average sq.rt delta P
	dH =	1.400	in. H2O	Average draft gauge reading
	Tm =	518.9	R	Average meter temperature
	Ts =	779.7	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.432	in.	Nozzle diameter
	An =	1.02E-003	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.02		Meter calibration factor
INPUT	t =	60.0	min.	Duration of sampling time
INPUT	Ds =	3.000	sq. ft.	Diameter of stack
	As =	7.0650	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	{ft*[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047301	cu.ft/ml	constant
	K3 =	0.0026718	in.Hg*cf / ml*R	constant
	R =	21.85	in.Hg*scf / lbmol*R	Molar Gas Constant
	CF =	0.000000072	lb/dscf / ppmVd	Conversion Factor for CO
	CF =	0.000000041	lb/dscf / ppmVd	Conversion Factor for CH4
	CF =	0.000000119	lb/dscf / ppmVd	Conversion Factor for NOx(as NO2)

Instrumental Data

INPUT	[O2]	5.80	%-dry	Oxygen concentration
INPUT	[CO2]	8.90	%-dry	Carbon Dioxide concentration
	[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm

Vmstd = 41.316 dscf
1.17 dscm

2) Volume of water vapor collected at standard conditions, Vwstd.

Vwstd = K2 * Vlc

Vwstd = 48.687 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)

Bws = 0.541

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((.44*%CO2) + (.32*%O2) + (.28*%N2)) * (1-Bws)] + (18*Bws)

Ms = 23.35 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5

Vs = 35.03 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As

Qa = 14848.0 cfm
420.5 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)

Qstd = 4607.0 dscfm
130.5 dscmm

Calculations (cont.)

8) Sulfur dioxide analytical data (3% H2O2 catch)

M[SO2] = sample mass (mg)
C[SO2] = M[SO2] (mg) / sample volume (dscm)
C[SO2] = C[SO2] (mg/dscm)/(MW[SO2]/24.05)
E[SO2] = C[SO2] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfur Dioxide	764.00	652.95	245.14	11.27

9) SO3 & Sulfuric acid mist analytical data (80 % IPA & Filter Catch)

M[H2SO4] = sample mass (mg)
C[H2SO4] = M[H2SO4] (mg) / sample volume (dscm)
C[H2SO4] = C[H2SO4] (mg/dscm)/(MW[H2SO4]/24.05)
E[H2SO4] = C[H2SO4] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfuric Acid	4.82	4.12	1.01	0.07

10) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I 103.7

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, and 8
(Flows, O2/CO2, H2O, and SOx)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One
Test Date	05/18/07
Test Time	1337-1442

Emission Data

INPUT	Vlc =	949.8	cc	Vol. of H2O collected
INPUT	Vm =	39.388	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	30.28	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.469	in. H2O ^.5	Average sq.rt delta P
	dH =	1.419	in. H2O	Average draft gauge reading
	Tm =	515.7	R	Average meter temperature
	Ts =	723.0	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.422	in.	Nozzle diameter
	An =	9.71E-004	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.99		Meter calibration factor
INPUT	t =	64.0	min.	Duration of sampling time
INPUT	Ds =	3.000	sq. ft.	Diameter of stack
	As =	7.0650	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	{ft*[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047301	cu.ft/ml	constant
	K3 =	0.0026718	in.Hg*cf / ml*R	constant
	R =	21.85	in.Hg*scf / lbmol*R	Molar Gas Constant
	CF =	0.000000072	lb/dscf / ppmVd	Conversion Factor for CO
	CF =	0.000000041	lb/dscf / ppmVd	Conversion Factor for CH4
	CF =	0.000000119	lb/dscf / ppmVd	Conversion Factor for NOx(as NO2)

Instrumental Data

INPUT	[O2]	5.80	%-dry	Oxygen concentration
INPUT	[CO2]	8.80	%-dry	Carbon Dioxide concentration
	[N2]	85.40	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm

Vmstd = 40.650 dscf
1.15 dscm

2) Volume of water vapor collected at standard conditions, Vwstd.

Vwstd = K2 * Vlc

Vwstd = 44.926 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)

Bws = 0.525

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((.44*%CO2) + (.32*%O2) + (.28*%N2)) * (1-Bws)] + (18*Bws)

Ms = 23.53 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5

Vs = 33.95 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As

Qa = 14391.0 cfm
407.6 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)

Qstd = 5068.3 dscfm
143.5 dscmm

Calculations (cont.)

8) Sulfur dioxide analytical data (3% H2O2 catch)

M[SO2] = sample mass (mg)
C[SO2] = M[SO2] (mg) / sample volume (dscm)
C[SO2] = C[SO2] (mg/dscm)/(MW[SO2]/24.05)
E[SO2] = C[SO2] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfur Dioxide	1.92	1.67	0.63	0.03

9) SO3 & Sulfuric acid mist analytical data (80 % IPA & Filter Catch)

M[H2SO4] = sample mass (mg)
C[H2SO4] = M[H2SO4] (mg) / sample volume (dscm)
C[H2SO4] = C[H2SO4] (mg/dscm)/(MW[H2SO4]/24.05)
E[H2SO4] = C[H2SO4] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfuric Acid	2.66	2.31	0.57	0.04

10) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I 91.2

AirNova, Inc.

EPA Methods 1, 2, 3A, 4, and 8
(Flows, O2/CO2, H2O, and SOx)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two
Test Date	05/18/07
Test Time	1543-1646

Emission Data

INPUT	Vlc =	970.9	cc	Vol. of H2O collected
INPUT	Vm =	40.07	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	30.26	in. Hg	Barometric pressure
	Ps =	30.28	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.466	in. H2O ^.5	Average sq.rt delta P
	dH =	1.399	in. H2O	Average draft gauge reading
	Tm =	522.3	R	Average meter temperature
	Ts =	725.1	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.422	in.	Nozzle diameter
	An =	9.71E-004	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.99		Meter calibration factor
INPUT	t =	64.0	min.	Duration of sampling time
INPUT	Ds =	3.000	sq. ft.	Diameter of stack
	As =	7.0650	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	{ft*[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047301	cu.ft/ml	constant
	K3 =	0.0026718	in.Hg*cf / ml*R	constant
	R =	21.85	in.Hg*scf / lbmol*R	Molar Gas Constant
	CF =	0.000000072	lb/dscf / ppmVd	Conversion Factor for CO
	CF =	0.000000041	lb/dscf / ppmVd	Conversion Factor for CH4
	CF =	0.000000119	lb/dscf / ppmVd	Conversion Factor for NOx(as NO2)

Instrumental Data

INPUT	[O2]	5.80	%-dry	Oxygen concentration
INPUT	[CO2]	8.90	%-dry	Carbon Dioxide concentration
	[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm

Vmstd = 40.830 dscf
1.16 dscm

2) Volume of water vapor collected at standard conditions, Vwstd.

Vwstd = K2 * Vlc

Vwstd = 45.924 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)

Bws = 0.529

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((.44*%CO2) + (.32*%O2) + (.28*%N2)) * (1-Bws)] + (18*Bws)

Ms = 23.49 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5

Vs = 33.78 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As

Qa = 14318.3 cfm
405.5 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)

Qstd = 4981.6 dscfm
141.1 dscmm

Calculations (cont.)

8) Sulfur dioxide analytical data (3% H2O2 catch)

M[SO2] = sample mass (mg)
C[SO2] = M[SO2] (mg) / sample volume (dscm)
C[SO2] = C[SO2] (mg/dscm)/(MW[SO2]/24.05)
E[SO2] = C[SO2] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfur Dioxide	5.15	4.45	1.67	0.08

9) SO3 & Sulfuric acid mist analytical data (80 % IPA & Filter Catch)

M[H2SO4] = sample mass (mg)
C[H2SO4] = M[H2SO4] (mg) / sample volume (dscm)
C[H2SO4] = C[H2SO4] (mg/dscm)/(MW[H2SO4]/24.05)
E[H2SO4] = C[H2SO4] (mg/dscm) * 60 (min/hr) * Qstd (dscmm) * (1 lb / 453592.37 mg)

	Sample Mass (mg)	Concentration (mg/dscm)	Concentration (ppmV)	Mass Emission (lb/hr)
Sulfuric Acid	58.80	50.85	12.47	0.95

10) Isokinetic Rate (%)

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)

% I 93.2

3033-01

AirNova, Inc.

EPA Methods 1,2,3,4, and 29
(Flows, O2/CO2, H2O, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	One
Test Date	05/16/07
Test Time	1155-1600

Emission Data

INPUT	Vlc =	2010.3	cc	Vol. of H2O collected
INPUT	Vm =	83.752	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	29.85	in. Hg	Barometric pressure
	Ps =	29.36	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4651	in. H2O ^.5	Average sq.rt delta P
	dH =	1.518	in. H2O	Average draft gauge reading
	Tm =	551.0	R	Average meter temperature
	Ts =	767.2	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.430	in.	Nozzle diameter
	An =	0.001008	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.02		Meter calibration factor
INPUT	t =	120	min.	Duration of sampling time
INPUT	Ds =	3.00	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	4.28	%-dry	Oxygen concentration
INPUT	[CO2]	10.02	%-dry	Carbon Dioxide concentration
	[N2]	85.70	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 82.234 dscf
2.329 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 94.983 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5360

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.464 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.248 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14948.87 cfm
423.35 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4699.28 dscfm
133.08 dscmm

Calculations (cont.)

8) Trace metal concentrations and emission rates

C[M] = M[M] (ug) / Vmstd (dscm)
E[M] = C[M] (ug/dscm) * (2.205E-09) (lb/ug) * Qstd (dscmm) * 60 (min/hr)
C[M](@ corr. O2) = C[M] (ug/dscm) * [(20.9-corrected %O2) / (20.9-actual %O2)]
Corrected O2 percentage is: 7.0 %

Element	Sample Mass (ug)	Conc. (ug/dscm)	Conc.@corr. O2 (ug/dscm)	Emission Rate (lb/hr)
Arsenic	10.7	4.59E+000	3.84E+000	8.09E-005
Barium	10.2	4.38E+000	3.66E+000	7.71E-005
Cadmium	2.22	9.53E-001	7.97E-001	1.68E-005
Chromium	6.2	2.66E+000	2.23E+000	4.69E-005
Cobalt	0.46	1.98E-001	1.65E-001	3.48E-006
Copper	11.4	4.90E+000	4.09E+000	8.62E-005
Lead	39.5	1.70E+001	1.42E+001	2.99E-004
Manganese	24.3	1.04E+001	8.73E+000	1.84E-004
Nickel	3.3	1.42E+000	1.19E+000	2.49E-005
Selenium	10.8	4.64E+000	3.88E+000	8.17E-005
Silver	1.83	7.86E-001	6.57E-001	1.38E-005
Zinc	105	4.51E+001	3.77E+001	7.94E-004
Mercury	199	8.54E+001	7.15E+001	1.50E-003

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 102.21

" < " symbol indicates values given are the quantitative detection limit.

3033-02

AirNova, Inc.

EPA Methods 1,2,3,4, and 29
(Flows, O2/CO2, H2O, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	Two
Test Date	05/17/07
Test Time	0830-1303

Emission Data

INPUT	Vlc =	1901.9	cc	Vol. of H2O collected
INPUT	Vm =	80.190	dcf	Dry gas meter reading
INPUT	Pstatic =	-6.70	in. H2O	Static pressure
INPUT	Pb =	30.13	in. Hg	Barometric pressure
	Ps =	29.64	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4680	in. H2O ^.5	Average sq.rt delta P
	dH =	1.514	in. H2O	Average draft gauge reading
	Tm =	528.9	R	Average meter temperature
	Ts =	771.2	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.430	in.	Nozzle diameter
	An =	0.001008	sq. ft.	Area of nozzle orifice
INPUT	Y =	1.02		Meter calibration factor
INPUT	t =	120	min.	Duration of sampling time
INPUT	Ds =	3.00	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	6.00	%-dry	Oxygen concentration
INPUT	[CO2]	9.39	%-dry	Carbon Dioxide concentration
	[N2]	84.61	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 82.793 dscf
2.345 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 89.861 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5205

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.631 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.262 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14954.77 cfm
423.52 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4879.32 dscfm
138.18 dscmm

Calculations (cont.)

8) Trace metal concentrations and emission rates

C[M] = M[M] (ug) / Vmstd (dscm)
E[M] = C[M] (ug/dscm) * (2.205E-09) (lb/ug) * Qstd (dscmm) * 60 (min/hr)
C[M](@ corr. O2) = C[M] (ug/dscm) * [(20.9-corrected %O2) / (20.9-actual %O2)]
Corrected O2 percentage is: 7.0 %

Element		Sample Mass (ug)	Conc. (ug/dscm)	Conc.@corr. O2 (ug/dscm)	Emission Rate (lb/hr)
Arsenic		3.67	1.57E+000	1.46E+000	2.86E-005
Barium		12.9	5.50E+000	5.13E+000	1.01E-004
Cadmium		29.6	1.26E+001	1.18E+001	2.31E-004
Chromium		6.6	2.81E+000	2.63E+000	5.15E-005
Cobalt		2.75	1.17E+000	1.09E+000	2.14E-005
Copper		10.8	4.61E+000	4.30E+000	8.42E-005
Lead		45.3	1.93E+001	1.80E+001	3.53E-004
Manganese		4.2	1.79E+000	1.67E+000	3.27E-005
Nickel		7.4	3.16E+000	2.94E+000	5.77E-005
Selenium	<	0.2	8.53E-002	7.96E-002	1.56E-006
Silver		1.13	4.82E-001	4.50E-001	8.81E-006
Zinc		191	8.15E+001	7.60E+001	1.49E-003
Mercury		184	7.85E+001	7.32E+001	1.43E-003

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 99.11

" < " symbol indicates values given are the quantitative detection limit.

3033-13

AirNova, Inc.

EPA Methods 1,2,3,4, and 29
(Flows, O2/CO2, H2O, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One
Test Date	05/16/07
Test Time	1155-1600

Emission Data

INPUT	Vlc =	1970.0	cc	Vol. of H2O collected
INPUT	Vm =	84.913	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	29.85	in. Hg	Barometric pressure
	Ps =	29.87	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4764	in. H2O ^.5	Average sq.rt delta P
	dH =	1.688	in. H2O	Average draft gauge reading
	Tm =	552.8	R	Average meter temperature
	Ts =	736.3	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.425	in.	Nozzle diameter
	An =	0.000985	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.99		Meter calibration factor
INPUT	t =	120	min.	Duration of sampling time
INPUT	Ds =	3.00	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	4.61	%-dry	Oxygen concentration
INPUT	[CO2]	9.79	%-dry	Carbon Dioxide concentration
	[N2]	85.60	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 80.698 dscf
2.285 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 93.079 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5356

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.457 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.068 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14872.49 cfm
421.19 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4960.34 dscfm
140.48 dscmm

Calculations (cont.)

8) Trace metal concentrations and emission rates

C[M] = M[M] (ug) / Vmstd (dscm)
E[M] = C[M] (ug/dscm) * (2.205E-09) (lb/ug) * Qstd (dscmm) * 60 (min/hr)
C[M](@ corr. O2) = C[M] (ug/dscm) * [(20.9-corrected %O2) / (20.9-actual %O2)]
Corrected O2 percentage is: 7.0 %

Element		Sample Mass (ug)	Conc. (ug/dscm)	Conc.@corr. O2 (ug/dscm)	Emission Rate (lb/hr)
Arsenic		2.1	9.19E-001	7.84E-001	1.71E-005
Barium		15	6.56E+000	5.60E+000	1.22E-004
Cadmium		5.1	2.23E+000	1.90E+000	4.15E-005
Chromium		15.6	6.83E+000	5.82E+000	1.27E-004
Cobalt		1.14	4.99E-001	4.26E-001	9.27E-006
Copper		25	1.09E+001	9.33E+000	2.03E-004
Lead		37.2	1.63E+001	1.39E+001	3.03E-004
Manganese		128	5.60E+001	4.78E+001	1.04E-003
Nickel		12.8	5.60E+000	4.78E+000	1.04E-004
Selenium		0.23	1.01E-001	8.59E-002	1.87E-006
Silver		1.83	8.01E-001	6.83E-001	1.49E-005
Zinc		82.9	3.63E+001	3.10E+001	6.74E-004
Mercury	<	3.5	1.53E+000	1.31E+000	2.85E-005

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 97.27

" < " symbol indicates values given are the quantitative detection limit.

3033-14

AirNova, Inc.

EPA Methods 1,2,3,4, and 29
(Flows, O2/CO2, H2O, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two
Test Date	05/17/07
Test Time	0835-1307

Emission Data

INPUT	Vlc =	1951.7	cc	Vol. of H2O collected
INPUT	Vm =	78.843	dcf	Dry gas meter reading
INPUT	Pstatic =	0.26	in. H2O	Static pressure
INPUT	Pb =	30.05	in. Hg	Barometric pressure
	Ps =	30.07	in. Hg	Stack pressure
	Pstd =	29.92	in. Hg	EPA Standard pressure
	dP =	0.4750	in. H2O ^.5	Average sq.rt delta P
	dH =	1.563	in. H2O	Average draft gauge reading
	Tm =	532.2	R	Average meter temperature
	Ts =	737.7	R	Average stack temperature
INPUT	Tstd=	529.7	R	Standard temperature
INPUT	Dn =	0.425	in.	Nozzle diameter
	An =	0.000985	sq. ft.	Area of nozzle orifice
INPUT	Y =	0.99		Meter calibration factor
INPUT	t =	120	min.	Duration of sampling time
INPUT	Ds =	3.00	ft.	Diameter of stack
	As =	7.0684	sq. ft.	Cross sectional area of stack
INPUT	Cp =	0.84		Pitot tube coefficient
	Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
	K1 =	17.704	R/in.Hg	constant
	K2 =	0.047248	cu.ft/ml	constant
	K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

INPUT	[O2]	5.18	%-dry	Oxygen concentration
INPUT	[CO2]	9.41	%-dry	Carbon Dioxide concentration
	[N2]	85.41	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 78.324 dscf
2.218 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 92.214 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.5407

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.379 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.939 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14817.55 cfm
419.63 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4910.87 dscfm
139.08 dscmm

Calculations (cont.)

8) Trace metal concentrations and emission rates

C[M] = M[M] (ug) / Vmstd (dscm)
E[M] = C[M] (ug/dscm) * (2.205E-09) (lb/ug) * Qstd (dscmm) * 60 (min/hr)
C[M](@ corr. O2) = C[M] (ug/dscm) * [(20.9-corrected %O2) / (20.9-actual %O2)]
Corrected O2 percentage is: 7.0 %

Element		Sample Mass (ug)	Conc. (ug/dscm)	Conc.@corr. O2 (ug/dscm)	Emission Rate (lb/hr)
Arsenic		2.33	1.05E+000	9.29E-001	1.93E-005
Barium		11.3	5.09E+000	4.50E+000	9.37E-005
Cadmium		4.08	1.84E+000	1.63E+000	3.38E-005
Chromium		9.4	4.24E+000	3.75E+000	7.80E-005
Cobalt		1.07	4.82E-001	4.27E-001	8.88E-006
Copper		28.6	1.29E+001	1.14E+001	2.37E-004
Lead		37.9	1.71E+001	1.51E+001	3.14E-004
Manganese		118	5.32E+001	4.70E+001	9.79E-004
Nickel		7.7	3.47E+000	3.07E+000	6.39E-005
Selenium	<	0.2	9.02E-002	7.97E-002	1.66E-006
Silver		2.51	1.13E+000	1.00E+000	2.08E-005
Zinc		91.3	4.12E+001	3.64E+001	7.57E-004
Mercury	<	4.21	1.90E+000	1.68E+000	3.49E-005

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 95.36

" < " symbol indicates values given are the quantitative detection limit.

3033-03

AirNova, Inc.

EPA Methods 1,2,3A,4, and 23
(Flows, O2/CO2, H2O, PCB's and PCDD/PCDF)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	One
Test Date	05/17/07
Test Time	1545-1910

Emission Data

Vlc =	2380	cc	Vol. of H2O collected
Vm =	99.342	dcf	Dry gas meter reading
Pstatic =	-6.70	in. H2O	Static pressure
Pb =	30.18	in. Hg	Barometric pressure
Ps =	29.69	In. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4564	in. H2O ^.5	Average sq.rt delta P
dH =	1.008	in. H2O	Average draft gauge reading
Tm =	529.2	R	Average meter temperature
Ts =	784.7	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.396	in.	Nozzle diameter
An =	0.000855	sq. ft.	Area of nozzle orifice
Y =	1.02		Meter calibration factor
t =	180	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*InH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	4.8	%-dry	Oxygen concentration
[CO2]	9.5	%-dry	Carbon Dioxide concentration
[N2]	85.70	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 102.565 dscf
2.90 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 112.451 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.523

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.59 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.69 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14713.9 cfm
416.7 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4701.0 dscfm
133.1 dscmm

Calculations (cont.)

08a) Chlorinated Dibenzodioxins (CDD) Concentrations, Emission Rates, and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total TCDD	5.5500	1.9	0	0.00E+000	0.00E+000	0.00
2,3,7,8-PeCDD	0.0326	0.0	1	1.12E-002	1.98E-010	89.65
Total PeCDD	3.6500	1.3	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDD	0.2050	0.1	0.1	7.06E-003	1.24E-010	56.38
Total HxCDD	3.3800	1.2	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDD	0.3930	0.1	0.01	1.35E-003	2.38E-011	10.81
Total HpCDD	0.7240	0.2	0	0.00E+000	0.00E+000	0.00
OCDD	0.2320	0.1	0.0003	2.40E-005	4.22E-013	0.19
				CDD total	**3.46E-010**	**157.03**

08b) Chlorinated Dibenzofurans (CDF) Concentrations, Emission Rates, and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDF	0.0194	0.0	0.1	6.68E-004	1.18E-011	5.34
Total TCDF	0.8790	0.3	0	0.00E+000	0.00E+000	0.00
1,2,3,7,8-PeCDF	0.0295	0.0	0.03	3.05E-004	5.37E-012	2.43
2,3,4,7,8-PeCDF	0.0410	0.0	0.30	4.23E-003	7.46E-011	33.83
Total PeCDF	0.6900	0.2	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDF	0.0243	0.0	0.1	8.37E-004	1.47E-011	6.68
Total HxCDF	0.3070	0.1	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDF	0.0362	0.0	0.01	1.25E-004	2.20E-012	1.00
Total HpCDF	0.0785	0.0	0	0.00E+000	0.00E+000	0.00
OCDF	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDF total	**1.09E-010**	**49.27**

Calculations (cont.)

08c) Non-ortho and Mono-ortho Substituted PCBs Concentrations, Emission Rates, and Equivalents

Conc. [PCB] = Mass [PCB](ng) / Vmstd(dscm)
TEF Conc. = Conc. [PCB](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Non-ortho Substituted PCBs

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
PCB 77	0.8900	0.306	0.0001	3.06E-005	5.40E-013	0.24
PCB 81	0.0000	0.000	0.0003	0.00E+000	0.00E+000	0.00
PCB 126	0.0000	0.000	0.1	0.00E+000	0.00E+000	0.00
PCB 169	0.0000	0.000	0.03	0.00E+000	0.00E+000	0.00

Mono-ortho Substituted PCBs

PCB 105	0.0000	0.000	0.00003	0.00E+000	0.00E+000	0.00
PCB 114	0.1140	0.039	0.00003	1.18E-006	2.07E-014	0.01
PCB 118	3.8100	1.312	0.00003	3.94E-005	6.93E-013	0.31
PCB 123	0.0946	0.033	0.00003	9.77E-007	1.72E-014	0.01
PCB 156	0.2230	0.077	0.00003	2.30E-006	4.06E-014	0.02
PCB 157	0.0000	0.000	0.00003	0.00E+000	0.00E+000	0.00
PCB 167	0.0858	0.030	0.00003	8.86E-007	1.56E-014	0.01
PCB 189	0.0000	0.000	0.00003	0.00E+000	0.00E+000	0.00
				PCB total	**1.33E-012**	**0.60**
				CDD/CDF/PCB Total	**4.56E-010**	**206.90**

9) PCBs Concentrations and Emissions

C[PCB] = M[PCB](ng) / Vmstd(dscm)
E[PCB] = C[PCB](ng/dscm) * Qstd(dscmm) * (2.205E-12)(lb/ng) * 60(min/hr)

Analyte	Sample Mass (ng)	Conc. (ng/dscm)	Emission Rate (lb/hr)
PCB 1	82.2000	28.299	4.98E-007
PCB 2	65.8000	22.653	3.99E-007
PCB 3	41.5000	14.287	2.52E-007
PCB 4	2.8900	0.995	1.75E-008
PCB 5	1.3900	0.479	8.43E-009
PCB 6	2.0400	0.702	1.24E-008
PCB 7	1.1500	0.396	6.97E-009
PCB 8	2.0200	0.695	1.22E-008
PCB 9	1.6000	0.551	9.70E-009
PCB 10	0.2700	0.093	1.64E-009
PCB 11	7.8900	2.716	4.78E-008
PCB 12	5.2600	1.811	3.19E-008
PCB 13	0.0000	0.000	0.00E+000
PCB 14	0.3510	0.121	2.13E-009
PCB 15	6.2200	2.141	3.77E-008
PCB 16	0.9160	0.315	5.55E-009
PCB 17	1.4700	0.506	8.91E-009
PCB 18	2.8100	0.967	1.70E-008
PCB 19	0.2980	0.103	1.81E-009
PCB 20	6.6700	2.296	4.04E-008
PCB 21	4.0200	1.384	2.44E-008
PCB 22	2.3200	0.799	1.41E-008
PCB 23	0.1920	0.066	1.16E-009
PCB 24	0.2910	0.100	1.76E-009
PCB 25	0.4970	0.171	3.01E-009
PCB 26	1.2300	0.423	7.46E-009
PCB 27	0.2610	0.090	1.58E-009
PCB 28	0.0000	0.000	0.00E+000
PCB 29	0.0000	0.000	0.00E+000
PCB 30	0.0000	0.000	0.00E+000
PCB 31	7.2100	2.482	4.37E-008
PCB 32	0.9860	0.339	5.98E-009
PCB 33	0.0000	0.000	0.00E+000
PCB 34	0.0000	0.000	0.00E+000
PCB 35	0.5380	0.185	3.26E-009
PCB 36	0.0000	0.000	0.00E+000
PCB 37	3.4800	1.198	2.11E-008
PCB 38	0.1790	0.062	1.09E-009
PCB 39	0.0000	0.000	0.00E+000
PCB 40	1.8100	0.623	1.10E-008
PCB 41	0.6470	0.223	3.92E-009

Calculations (cont.)

PCB 42	1.0700	0.368	6.49E-009
PCB 43	0.0000	0.000	0.00E+000
PCB 44	5.9700	2.055	3.62E-008
PCB 45	0.8160	0.281	4.95E-009
PCB 46	0.2520	0.087	1.53E-009
PCB 47	0.0000	0.000	0.00E+000
PCB 48	0.9910	0.341	6.01E-009
PCB 49	3.0700	1.057	1.86E-008
PCB 50	0.4360	0.150	2.64E-009
PCB 51	0.0000	0.000	0.00E+000
PCB 52	7.9100	2.723	4.80E-008
PCB 53	0.0000	0.000	0.00E+000
PCB 54	0.0000	0.000	0.00E+000
PCB 55	0.1550	0.053	9.40E-010
PCB 56	1.8700	0.644	1.13E-008
PCB 57	0.0000	0.000	0.00E+000
PCB 58	0.3320	0.114	2.01E-009
PCB 59	0.7780	0.268	4.72E-009
PCB 60	1.1500	0.396	6.97E-009
PCB 61	8.6600	2.981	5.25E-008
PCB 62	0.0000	0.000	0.00E+000
PCB 63	0.2040	0.070	1.24E-009
PCB 64	2.0800	0.716	1.26E-008
PCB 65	0.0000	0.000	0.00E+000
PCB 66	3.6200	1.246	2.20E-008
PCB 67	0.1830	0.063	1.11E-009
PCB 68	0.1720	0.059	1.04E-009
PCB 69	0.0000	0.000	0.00E+000
PCB 70	0.0000	0.000	0.00E+000
PCB 71	0.0000	0.000	0.00E+000
PCB 72	0.0000	0.000	0.00E+000
PCB 73	0.0000	0.000	0.00E+000
PCB 74	0.0000	0.000	0.00E+000
PCB 75	0.0000	0.000	0.00E+000
PCB 76	0.0000	0.000	0.00E+000
PCB 77	0.8900	0.306	5.40E-009
PCB 78	0.0000	0.000	0.00E+000
PCB 79	0.0955	0.033	5.79E-010
PCB 80	0.0000	0.000	0.00E+000
PCB 81	0.0000	0.000	0.00E+000
PCB 82	0.6680	0.230	4.05E-009
PCB 83	0.6570	0.226	3.98E-009
PCB 84	1.7200	0.592	1.04E-008
PCB 85	1.0600	0.365	6.43E-009
PCB 86	4.6000	1.584	2.79E-008
PCB 87	0.0000	0.000	0.00E+000
PCB 88	0.9170	0.316	5.56E-009

Calculations (cont.)

PCB 89	0.0714	0.025	4.33E-010
PCB 90	7.0100	2.413	4.25E-008
PCB 91	0.0000	0.000	0.00E+000
PCB 92	1.1600	0.399	7.03E-009
PCB 93	0.0000	0.000	0.00E+000
PCB 94	0.0000	0.000	0.00E+000
PCB 95	6.5000	2.238	3.94E-008
PCB 96	0.0513	0.018	3.11E-010
PCB 97	0.0000	0.000	0.00E+000
PCB 98	0.0000	0.000	0.00E+000
PCB 99	2.4300	0.837	1.47E-008
PCB 100	0.0000	0.000	0.00E+000
PCB 101	0.0000	0.000	0.00E+000
PCB 102	0.0000	0.000	0.00E+000
PCB 103	0.0000	0.000	0.00E+000
PCB 104	0.0000	0.000	0.00E+000
PCB 105	0.0000	0.000	0.00E+000
PCB 106	0.0000	0.000	0.00E+000
PCB 107	0.2160	0.074	1.31E-009
PCB 108	0.0000	0.000	0.00E+000
PCB 109	0.2810	0.097	1.70E-009
PCB 110	5.8000	1.997	3.52E-008
PCB 111	0.0000	0.000	0.00E+000
PCB 112	0.0000	0.000	0.00E+000
PCB 113	0.0000	0.000	0.00E+000
PCB 114	0.1140	0.039	6.91E-010
PCB 115	0.0000	0.000	0.00E+000
PCB 116	0.0000	0.000	0.00E+000
PCB 117	0.0000	0.000	0.00E+000
PCB 118	3.8100	1.312	2.31E-008
PCB 119	0.0000	0.000	0.00E+000
PCB 120	0.0000	0.000	0.00E+000
PCB 121	0.0000	0.000	0.00E+000
PCB 122	0.0556	0.019	3.37E-010
PCB 123	0.0946	0.033	5.74E-010
PCB 124	0.0000	0.000	0.00E+000
PCB 125	0.0000	0.000	0.00E+000
PCB 126	0.0000	0.000	0.00E+000
PCB 127	0.0000	0.000	0.00E+000
PCB 128	0.4620	0.159	2.80E-009
PCB 129	3.8200	1.315	2.32E-008
PCB 130	0.0000	0.000	0.00E+000
PCB 131	0.0000	0.000	0.00E+000
PCB 132	1.4900	0.513	9.04E-009
PCB 133	0.0000	0.000	0.00E+000
PCB 134	0.3290	0.113	2.00E-009
PCB 135	1.9500	0.671	1.18E-008

Calculations (cont.)

PCB 136	0.9600	0.331	5.82E-009
PCB 137	0.1770	0.061	1.07E-009
PCB 138	0.0000	0.000	0.00E+000
PCB 139	0.0858	0.030	5.20E-010
PCB 140	0.0000	0.000	0.00E+000
PCB 141	0.8650	0.298	5.25E-009
PCB 142	0.0000	0.000	0.00E+000
PCB 143	0.0000	0.000	0.00E+000
PCB 144	0.3260	0.112	1.98E-009
PCB 145	0.0000	0.000	0.00E+000
PCB 146	0.5460	0.188	3.31E-009
PCB 147	4.4800	1.542	2.72E-008
PCB 148	0.0000	0.000	0.00E+000
PCB 149	0.0000	0.000	0.00E+000
PCB 150	0.0000	0.000	0.00E+000
PCB 151	0.0000	0.000	0.00E+000
PCB 152	0.0000	0.000	0.00E+000
PCB 153	4.0800	1.405	2.47E-008
PCB 154	0.0000	0.000	0.00E+000
PCB 155	0.0000	0.000	0.00E+000
PCB 156	0.2230	0.077	1.35E-009
PCB 157	0.0000	0.000	0.00E+000
PCB 158	0.3830	0.132	2.32E-009
PCB 159	0.0000	0.000	0.00E+000
PCB 160	0.0000	0.000	0.00E+000
PCB 161	0.0000	0.000	0.00E+000
PCB 162	0.0000	0.000	0.00E+000
PCB 163	0.0000	0.000	0.00E+000
PCB 164	0.2510	0.086	1.52E-009
PCB 165	0.0000	0.000	0.00E+000
PCB 166	0.0000	0.000	0.00E+000
PCB 167	0.0858	0.030	5.20E-010
PCB 168	0.0000	0.000	0.00E+000
PCB 169	0.0000	0.000	0.00E+000
PCB 170	0.2620	0.090	1.59E-009
PCB 171	0.1670	0.057	1.01E-009
PCB 172	0.0000	0.000	0.00E+000
PCB 173	0.0000	0.000	0.00E+000
PCB 174	0.6260	0.216	3.80E-009
PCB 175	0.0000	0.000	0.00E+000
PCB 176	0.1440	0.050	8.73E-010
PCB 177	0.3050	0.105	1.85E-009
PCB 178	0.1550	0.053	9.40E-010
PCB 179	0.5340	0.184	3.24E-009
PCB 180	0.8360	0.288	5.07E-009
PCB 181	0.0000	0.000	0.00E+000
PCB 182	0.0000	0.000	0.00E+000

Calculations (cont.)

PCB 183	0.5120	0.176	3.10E-009
PCB 184	0.0000	0.000	0.00E+000
PCB 185	0.0000	0.000	0.00E+000
PCB 186	0.0000	0.000	0.00E+000
PCB 187	0.8710	0.300	5.28E-009
PCB 188	0.0000	0.000	0.00E+000
PCB 189	0.0000	0.000	0.00E+000
PCB 190	0.0000	0.000	0.00E+000
PCB 191	0.0000	0.000	0.00E+000
PCB 192	0.0000	0.000	0.00E+000
PCB 193	0.0000	0.000	0.00E+000
PCB 194	0.0000	0.000	0.00E+000
PCB 195	0.0000	0.000	0.00E+000
PCB 196	0.0698	0.024	4.23E-010
PCB 197	0.0000	0.000	0.00E+000
PCB 198	0.1620	0.056	9.82E-010
PCB 199	0.0000	0.000	0.00E+000
PCB 200	0.0000	0.000	0.00E+000
PCB 201	0.0000	0.000	0.00E+000
PCB 202	0.0948	0.033	5.75E-010
PCB 203	0.1020	0.035	6.19E-010
PCB 204	0.0000	0.000	0.00E+000
PCB 205	0.0000	0.000	0.00E+000
PCB 206	0.0000	0.000	0.00E+000
PCB 207	0.0000	0.000	0.00E+000
PCB 208	0.0000	0.000	0.00E+000
PCB 209	0.0325	0.011	1.97E-010
Total PCBs Emission Rate (lb/hr)			**2.18E-006**

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 100.17

" < " symbol indicates values given are the quantitative detection limit.

3033-04

AirNova, Inc.

EPA Methods 1,2,3A,4, and 23
(Flows, O2/CO2, H2O, PCB's and PCDD/PCDF)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	Two
Test Date	05/18/07
Test Time	0827-1145

Emission Data

Vlc =	2388.7	cc	Vol. of H2O collected
Vm =	102.51	dcf	Dry gas meter reading
Pstatic =	-6.70	in. H2O	Static pressure
Pb =	30.26	in. Hg	Barometric pressure
Ps =	29.77	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4803	in. H2O ^.5	Average sq.rt delta P
dH =	1.073	in. H2O	Average draft gauge reading
Tm =	517.2	R	Average meter temperature
Ts =	777.0	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.396	in.	Nozzle diameter
An =	0.000855	sq. ft.	Area of nozzle orifice
Y =	1.02		Meter calibration factor
t =	180	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5)/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	5.8	%-dry	Oxygen concentration
[CO2]	8.9	%-dry	Carbon Dioxide concentration
[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 108.578 dscf
3.07 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 112.862 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.510

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.72 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 36.19 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15346.4 cfm
434.6 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5104.0 dscfm
144.5 dscmm

Calculations (cont.)

08a) Chlorinated Dibenzodioxins (CDD) Concentrations, Emission Rates, and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total TCDD	2.5600	0.8	0	0.00E+000	0.00E+000	0.00
2,3,7,8-PeCDD	0.0202	0.0	1	6.57E-003	1.26E-010	56.97
Total PeCDD	1.6200	0.5	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDD	0.0773	0.0	0.1	2.51E-003	4.81E-011	21.80
Total HxCDD	1.4800	0.5	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDD	0.1770	0.1	0.01	5.76E-004	1.10E-011	4.99
Total HpCDD	0.3330	0.1	0	0.00E+000	0.00E+000	0.00
OCDD	0.1000	0.0	0.0003	9.76E-006	1.87E-013	0.08
				CDD total	**1.8489E-010**	**83.85**

08b) Chlorinated Dibenzofurans (CDF) Concentrations, Emission Rates, and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDF	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total TCDF	0.3360	0.1	0	0.00E+000	0.00E+000	0.00
1,2,3,7,8-PeCDF	0.0123	0.0	0.03	1.20E-004	2.29E-012	1.04
2,3,4,7,8-PeCDF	0.0150	0.0	0.30	1.46E-003	2.80E-011	12.69
Total PeCDF	0.2890	0.1	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDF	0.0237	0.0	0.1	7.71E-004	1.48E-011	6.69
Total HxCDF	0.1170	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDF	0.0162	0.0	0.01	5.27E-005	1.01E-012	0.46
Total HpCDF	0.0162	0.0	0	0.00E+000	0.00E+000	0.00
OCDF	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDF total	**4.604E-011**	**20.88**

Calculations (cont.)

08c) Non-ortho and Mono-ortho Substituted PCBs Concentrations, Emission Rates, and Equivalents

Conc. [PCB] = Mass [PCB](ng) / Vmstd(dscm)
TEF Conc. = Conc. [PCB](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Non-ortho Substituted PCBs

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
PCB 77	0.0	0.0	0.0001	0.00E+000	0.00E+000	0.00
PCB 81	0.0	0.0	0.0003	0.00E+000	0.00E+000	0.00
PCB 126	0.0	0.0	0.1	0.00E+000	0.00E+000	0.00
PCB 169	0.0	0.0	0.03	0.00E+000	0.00E+000	0.00

Mono-ortho Substituted PCBs

PCB 105	0.0	0.0	0.00003	0.00E+000	0.00E+000	0.00
PCB 114	0.4	0.1	0.00003	3.80E-006	7.26E-014	0.03
PCB 118	0.7	0.2	0.00003	6.85E-006	1.31E-013	0.06
PCB 123	0.0	0.0	0.00003	0.00E+000	0.00E+000	0.00
PCB 156	0.0	0.0	0.00003	0.00E+000	0.00E+000	0.00
PCB 157	0.0	0.0	0.00003	0.00E+000	0.00E+000	0.00
PCB 167	0.0	0.0	0.00003	2.42E-007	4.63E-015	0.00
PCB 189	0.0	0.0	0.00003	0.00E+000	0.00E+000	0.00
				PCB total	**2.0818E-013**	**0.09**
				CDD/CDF/PCB Total	**2.3114E-010**	**104.83**

9) PCBs Concentrations and Emissions

C[PCB] = M[PCB](ng) / Vmstd(dscm)
E[PCB] = C[PCB](ng/dscm) * Qstd(dscmm) * (2.205E-12)(lb/ng) * 60(min/hr)

Analyte	Sample Mass (ng)	Conc. (ng/dscm)	Emission Rate (lb/hr)
PCB 1	56.1000	18.2444	3.49E-007
PCB 2	54.0000	17.5614	3.36E-007
PCB 3	37.9000	12.3255	2.36E-007
PCB 4	1.5200	0.4943	9.45E-009
PCB 5	0.7700	0.2504	4.79E-009
PCB 6	1.3400	0.4358	8.33E-009
PCB 7	0.8480	0.2758	5.27E-009
PCB 8	1.3400	0.4358	8.33E-009
PCB 9	1.1400	0.3707	7.09E-009
PCB 10	0.1780	0.0579	1.11E-009
PCB 11	3.5400	1.1512	2.20E-008
PCB 12	3.1100	1.0114	1.93E-008
PCB 13	0.0000	0.0000	0.00E+000
PCB 14	0.0000	0.0000	0.00E+000
PCB 15	1.9400	0.6309	1.21E-008
PCB 16	0.0000	0.0000	0.00E+000
PCB 17	0.0000	0.0000	0.00E+000
PCB 18	0.0000	0.0000	0.00E+000
PCB 19	0.0000	0.0000	0.00E+000
PCB 20	0.0000	0.0000	0.00E+000
PCB 21	0.0000	0.0000	0.00E+000
PCB 22	0.0000	0.0000	0.00E+000
PCB 23	0.0000	0.0000	0.00E+000
PCB 24	0.1900	0.0618	1.18E-009
PCB 25	0.0000	0.0000	0.00E+000
PCB 26	0.4400	0.1431	2.74E-009
PCB 27	0.0870	0.0283	5.41E-010
PCB 28	0.0000	0.0000	0.00E+000
PCB 29	0.0000	0.0000	0.00E+000
PCB 30	0.0000	0.0000	0.00E+000
PCB 31	2.7400	0.8911	1.70E-008
PCB 32	0.0000	0.0000	0.00E+000
PCB 33	0.0000	0.0000	0.00E+000
PCB 34	0.0000	0.0000	0.00E+000
PCB 35	0.1940	0.0631	1.21E-009
PCB 36	0.0000	0.0000	0.00E+000
PCB 37	0.6770	0.2202	4.21E-009
PCB 38	0.0000	0.0000	0.00E+000
PCB 39	0.0000	0.0000	0.00E+000
PCB 40	0.0000	0.0000	0.00E+000
PCB 41	0.1460	0.0475	9.08E-010

Calculations (cont.)

PCB 42	0.0000	0.0000	0.00E+000
PCB 43	0.0471	0.0153	2.93E-010
PCB 44	1.4100	0.4585	8.77E-009
PCB 45	0.0000	0.0000	0.00E+000
PCB 46	0.0745	0.0242	4.63E-010
PCB 47	0.0000	0.0000	0.00E+000
PCB 48	0.2180	0.0709	1.36E-009
PCB 49	0.6390	0.2078	3.97E-009
PCB 50	0.0000	0.0000	0.00E+000
PCB 51	0.0000	0.0000	0.00E+000
PCB 52	1.7100	0.5561	1.06E-008
PCB 53	0.0000	0.0000	0.00E+000
PCB 54	0.0000	0.0000	0.00E+000
PCB 55	0.0000	0.0000	0.00E+000
PCB 56	0.0000	0.0000	0.00E+000
PCB 57	0.0000	0.0000	0.00E+000
PCB 58	0.0000	0.0000	0.00E+000
PCB 59	0.3420	0.1112	2.13E-009
PCB 60	0.0000	0.0000	0.00E+000
PCB 61	1.7500	0.5691	1.09E-008
PCB 62	0.0000	0.0000	0.00E+000
PCB 63	0.0000	0.0000	0.00E+000
PCB 64	0.4580	0.1489	2.85E-009
PCB 65	0.0000	0.0000	0.00E+000
PCB 66	0.0000	0.0000	0.00E+000
PCB 67	0.0000	0.0000	0.00E+000
PCB 68	0.0000	0.0000	0.00E+000
PCB 69	0.0000	0.0000	0.00E+000
PCB 70	0.0000	0.0000	0.00E+000
PCB 71	0.0000	0.0000	0.00E+000
PCB 72	0.0000	0.0000	0.00E+000
PCB 73	0.0468	0.0152	2.91E-010
PCB 74	0.0000	0.0000	0.00E+000
PCB 75	0.0000	0.0000	0.00E+000
PCB 76	0.0000	0.0000	0.00E+000
PCB 77	0.0000	0.0000	0.00E+000
PCB 78	0.0000	0.0000	0.00E+000
PCB 79	0.0000	0.0000	0.00E+000
PCB 80	0.0000	0.0000	0.00E+000
PCB 81	0.0000	0.0000	0.00E+000
PCB 82	0.0000	0.0000	0.00E+000
PCB 83	0.0000	0.0000	0.00E+000
PCB 84	0.0000	0.0000	0.00E+000
PCB 85	0.2690	0.0875	1.67E-009
PCB 86	0.9750	0.3171	6.06E-009
PCB 87	0.0000	0.0000	0.00E+000
PCB 88	0.0000	0.0000	0.00E+000

Calculations (cont.)

PCB 89	0.0000	0.0000	0.00E+000
PCB 90	1.2200	0.3968	7.59E-009
PCB 91	0.0000	0.0000	0.00E+000
PCB 92	0.2140	0.0696	1.33E-009
PCB 93	0.0000	0.0000	0.00E+000
PCB 94	0.0000	0.0000	0.00E+000
PCB 95	1.0600	0.3447	6.59E-009
PCB 96	0.0000	0.0000	0.00E+000
PCB 97	0.0000	0.0000	0.00E+000
PCB 98	0.0000	0.0000	0.00E+000
PCB 99	0.4320	0.1405	2.69E-009
PCB 100	0.0000	0.0000	0.00E+000
PCB 101	0.0000	0.0000	0.00E+000
PCB 102	0.0000	0.0000	0.00E+000
PCB 103	0.0000	0.0000	0.00E+000
PCB 104	0.0000	0.0000	0.00E+000
PCB 105	0.0000	0.0000	0.00E+000
PCB 106	0.0000	0.0000	0.00E+000
PCB 107	0.0000	0.0000	0.00E+000
PCB 108	0.0000	0.0000	0.00E+000
PCB 109	0.0528	0.0172	3.28E-010
PCB 110	1.0900	0.3545	6.78E-009
PCB 111	0.0000	0.0000	0.00E+000
PCB 112	0.0000	0.0000	0.00E+000
PCB 113	0.0000	0.0000	0.00E+000
PCB 114	0.3890	0.1265	2.42E-009
PCB 115	0.0000	0.0000	0.00E+000
PCB 116	0.0000	0.0000	0.00E+000
PCB 117	0.0000	0.0000	0.00E+000
PCB 118	0.7020	0.2283	4.37E-009
PCB 119	0.0000	0.0000	0.00E+000
PCB 120	0.0000	0.0000	0.00E+000
PCB 121	0.0000	0.0000	0.00E+000
PCB 122	0.0000	0.0000	0.00E+000
PCB 123	0.0000	0.0000	0.00E+000
PCB 124	0.0000	0.0000	0.00E+000
PCB 125	0.0000	0.0000	0.00E+000
PCB 126	0.0000	0.0000	0.00E+000
PCB 127	0.0000	0.0000	0.00E+000
PCB 128	0.1150	0.0374	7.15E-010
PCB 129	0.5870	0.1909	3.65E-009
PCB 130	0.0000	0.0000	0.00E+000
PCB 131	0.0000	0.0000	0.00E+000
PCB 132	0.2390	0.0777	1.49E-009
PCB 133	0.0000	0.0000	0.00E+000
PCB 134	0.0000	0.0000	0.00E+000
PCB 135	0.2270	0.0738	1.41E-009

Calculations (cont.)

PCB 136	0.1200	0.0390	7.46E-010
PCB 137	0.0000	0.0000	0.00E+000
PCB 138	0.0000	0.0000	0.00E+000
PCB 139	0.0000	0.0000	0.00E+000
PCB 140	0.0000	0.0000	0.00E+000
PCB 141	0.1380	0.0449	8.58E-010
PCB 142	0.0000	0.0000	0.00E+000
PCB 143	0.0000	0.0000	0.00E+000
PCB 144	0.0382	0.0124	2.38E-010
PCB 145	0.0000	0.0000	0.00E+000
PCB 146	0.0000	0.0000	0.00E+000
PCB 147	0.5720	0.1860	3.56E-009
PCB 148	0.0000	0.0000	0.00E+000
PCB 149	0.0000	0.0000	0.00E+000
PCB 150	0.0000	0.0000	0.00E+000
PCB 151	0.0000	0.0000	0.00E+000
PCB 152	0.0000	0.0000	0.00E+000
PCB 153	0.5370	0.1746	3.34E-009
PCB 154	0.0000	0.0000	0.00E+000
PCB 155	0.0000	0.0000	0.00E+000
PCB 156	0.0000	0.0000	0.00E+000
PCB 157	0.0000	0.0000	0.00E+000
PCB 158	0.0000	0.0000	0.00E+000
PCB 159	0.0000	0.0000	0.00E+000
PCB 160	0.0000	0.0000	0.00E+000
PCB 161	0.0000	0.0000	0.00E+000
PCB 162	0.0000	0.0000	0.00E+000
PCB 163	0.0000	0.0000	0.00E+000
PCB 164	0.0000	0.0000	0.00E+000
PCB 165	0.0000	0.0000	0.00E+000
PCB 166	0.0000	0.0000	0.00E+000
PCB 167	0.0248	0.0081	1.54E-010
PCB 168	0.0000	0.0000	0.00E+000
PCB 169	0.0000	0.0000	0.00E+000
PCB 170	0.0478	0.0155	2.97E-010
PCB 171	0.0000	0.0000	0.00E+000
PCB 172	0.0000	0.0000	0.00E+000
PCB 173	0.0000	0.0000	0.00E+000
PCB 174	0.0000	0.0000	0.00E+000
PCB 175	0.0000	0.0000	0.00E+000
PCB 176	0.0000	0.0000	0.00E+000
PCB 177	0.0000	0.0000	0.00E+000
PCB 178	0.0000	0.0000	0.00E+000
PCB 179	0.0000	0.0000	0.00E+000
PCB 180	0.1420	0.0462	8.83E-010
PCB 181	0.0000	0.0000	0.00E+000
PCB 182	0.0000	0.0000	0.00E+000

Calculations (cont.)

PCB 183	0.0859	0.0279	5.34E-010
PCB 184	0.0000	0.0000	0.00E+000
PCB 185	0.0000	0.0000	0.00E+000
PCB 186	0.0000	0.0000	0.00E+000
PCB 187	0.0000	0.0000	0.00E+000
PCB 188	0.0000	0.0000	0.00E+000
PCB 189	0.0000	0.0000	0.00E+000
PCB 190	0.0000	0.0000	0.00E+000
PCB 191	0.0000	0.0000	0.00E+000
PCB 192	0.0000	0.0000	0.00E+000
PCB 193	0.0000	0.0000	0.00E+000
PCB 194	0.0000	0.0000	0.00E+000
PCB 195	0.0000	0.0000	0.00E+000
PCB 196	0.0000	0.0000	0.00E+000
PCB 197	0.0000	0.0000	0.00E+000
PCB 198	0.0000	0.0000	0.00E+000
PCB 199	0.0000	0.0000	0.00E+000
PCB 200	0.0000	0.0000	0.00E+000
PCB 201	0.0000	0.0000	0.00E+000
PCB 202	0.0000	0.0000	0.00E+000
PCB 203	0.0000	0.0000	0.00E+000
PCB 204	0.0000	0.0000	0.00E+000
PCB 205	0.0000	0.0000	0.00E+000
PCB 206	0.0000	0.0000	0.00E+000
PCB 207	0.0000	0.0000	0.00E+000
PCB 208	0.0000	0.0000	0.00E+000
PCB 209	0.0000	0.0000	0.00E+000

Total PCBs Emission Rate (lb/hr) **1.15E-006**

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 97.67

" < " symbol indicates values given are the quantitative detection limit.

3033-15

AirNova, Inc.

EPA Methods 1,2,3A,4, and 23
(Flows, O2/CO2, H2O, PCB's and PCDD/PCDF)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One
Test Date	05/17/07
Test Time	1545-1915

Emission Data

Vlc =	2650.3	cc	Vol. of H2O collected
Vm =	104.685	dcf	Dry gas meter reading
Pstatic =	0.26	in. H2O	Static pressure
Pb =	30.1	in. Hg	Barometric pressure
Ps =	30.12	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4857	in. H2O ^.5	Average sq.rt delta P
dH =	1.176	in. H2O	Average draft gauge reading
Tm =	527.0	R	Average meter temperature
Ts =	748.0	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.392	in.	Nozzle diameter
An =	0.000838	sq. ft.	Area of nozzle orifice
Y =	0.99		Meter calibration factor
t =	184	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	5.04	%-dry	Oxygen concentration
[CO2]	9.49	%-dry	Carbon Dioxide concentration
[N2]	85.47	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 105.094 dscf
2.98 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 125.222 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.544

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.35 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.97 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15256.9 cfm
432.1 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4962.8 dscfm
140.5 dscmm

Calculations (cont.)

08a) Chlorinated Dibenzodioxins (CDD) Concentrations, Emission Rates, and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total TCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-PeCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total PeCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDD	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total HxCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDD	0.0000	0.0	0.01	0.00E+000	0.00E+000	0.00
Total HpCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
OCDD	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDD total	**0**	**0.00**

08b) Chlorinated Dibenzofurans (CDF) Concentrations, Emission Rates, and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDF	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total TCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
1,2,3,7,8-PeCDF	0.0000	0.0	0.03	0.00E+000	0.00E+000	0.00
2,3,4,7,8-PeCDF	0.0000	0.0	0.30	0.00E+000	0.00E+000	0.00
Total PeCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDF	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total HxCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDF	0.0182	0.0	0.01	6.12E-005	1.14E-012	0.52
Total HpCDF	0.0182	0.0	0	0.00E+000	0.00E+000	0.00
OCDF	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDF total	**1.137E-012**	**0.52**

Calculations (cont.)

08c) Non-ortho and Mono-ortho Substituted PCBs Concentrations, Emission Rates, and Equivalents

Conc. [PCB] = Mass [PCB](ng) / Vmstd(dscm)
TEF Conc. = Conc. [PCB](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Non-ortho Substituted PCBs

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
PCB 77	1.0800	0.3629	0.0001	3.63E-005	6.75E-013	0.31
PCB 81	0.0714	0.0240	0.0003	7.20E-006	1.34E-013	0.06
PCB 126	0.0000	0.0000	0.1	0.00E+000	0.00E+000	0.00
PCB 169	0.0000	0.0000	0.03	0.00E+000	0.00E+000	0.00

Mono-ortho Substituted PCBs

PCB 105	1.8800	0.6317	0.00003	1.89E-005	3.52E-013	0.16
PCB 114	0.1360	0.0457	0.00003	1.37E-006	2.55E-014	0.01
PCB 118	5.0400	1.6934	0.00003	5.08E-005	9.45E-013	0.43
PCB 123	0.1170	0.0393	0.00003	1.18E-006	2.19E-014	0.01
PCB 156	0.2880	0.0968	0.00003	2.90E-006	5.40E-014	0.02
PCB 157	0.0000	0.0000	0.00003	0.00E+000	0.00E+000	0.00
PCB 167	0.1140	0.0383	0.00003	1.15E-006	2.14E-014	0.01
PCB 189	0.0000	0.0000	0.00003	0.00E+000	0.00E+000	0.00
				PCB total	**2.2283E-012**	**1.01**
				CDD/CDF/PCB Total	**3.3653E-012**	**1.53**

9) PCBs Concentrations and Emissions

C[PCB] = M[PCB](ng) / Vmstd(dscm)
E[PCB] = C[PCB](ng/dscm) * Qstd(dscmm) * (2.205E-12)(lb/ng) * 60(min/hr)

Analyte	Sample Mass (ng)	Conc. (ng/dscm)	Emission Rate (lb/hr)
PCB 1	0.2420	0.0813	1.51E-009
PCB 2	0.3060	0.1028	1.91E-009
PCB 3	0.3470	0.1166	2.17E-009
PCB 4	0.7800	0.2621	4.87E-009
PCB 5	0.0000	0.0000	0.00E+000
PCB 6	0.5640	0.1895	3.52E-009
PCB 7	0.1600	0.0538	1.00E-009
PCB 8	1.9900	0.6686	1.24E-008
PCB 9	0.0000	0.0000	0.00E+000
PCB 10	0.0000	0.0000	0.00E+000
PCB 11	9.0800	3.0508	5.67E-008
PCB 12	1.6200	0.5443	1.01E-008
PCB 13	0.0000	0.0000	0.00E+000
PCB 14	0.0000	0.0000	0.00E+000
PCB 15	6.4300	2.1604	4.02E-008
PCB 16	1.2700	0.4267	7.93E-009
PCB 17	1.7900	0.6014	1.12E-008
PCB 18	3.1300	1.0517	1.96E-008
PCB 19	0.2670	0.0897	1.67E-009
PCB 20	8.8200	2.9634	5.51E-008
PCB 21	5.0700	1.7035	3.17E-008
PCB 22	3.0700	1.0315	1.92E-008
PCB 23	0.0161	0.0054	1.01E-010
PCB 24	0.1220	0.0410	7.62E-010
PCB 25	0.0000	0.0000	0.00E+000
PCB 26	1.2800	0.4301	8.00E-009
PCB 27	0.3030	0.1018	1.89E-009
PCB 28	0.0000	0.0000	0.00E+000
PCB 29	0.0000	0.0000	0.00E+000
PCB 30	0.0000	0.0000	0.00E+000
PCB 31	7.5100	2.5233	4.69E-008
PCB 32	1.2900	0.4334	8.06E-009
PCB 33	0.0000	0.0000	0.00E+000
PCB 34	0.0000	0.0000	0.00E+000
PCB 35	0.5630	0.1892	3.52E-009
PCB 36	0.0000	0.0000	0.00E+000
PCB 37	4.1600	1.3977	2.60E-008
PCB 38	0.0000	0.0000	0.00E+000
PCB 39	0.0000	0.0000	0.00E+000
PCB 40	2.2600	0.7593	1.41E-008
PCB 41	0.6440	0.2164	4.02E-009

Calculations (cont.)

PCB 42	1.3700	0.4603	8.56E-009
PCB 43	0.0000	0.0000	0.00E+000
PCB 44	7.3100	2.4561	4.57E-008
PCB 45	0.9790	0.3289	6.12E-009
PCB 46	0.2810	0.0944	1.76E-009
PCB 47	0.0000	0.0000	0.00E+000
PCB 48	1.3200	0.4435	8.25E-009
PCB 49	3.5800	1.2028	2.24E-008
PCB 50	0.5470	0.1838	3.42E-009
PCB 51	0.0000	0.0000	0.00E+000
PCB 52	9.8800	3.3196	6.17E-008
PCB 53	0.0000	0.0000	0.00E+000
PCB 54	0.0092	0.0031	5.75E-011
PCB 55	0.1850	0.0622	1.16E-009
PCB 56	2.3000	0.7728	1.44E-008
PCB 57	0.0000	0.0000	0.00E+000
PCB 58	0.3700	0.1243	2.31E-009
PCB 59	0.5260	0.1767	3.29E-009
PCB 60	1.3600	0.4569	8.50E-009
PCB 61	10.3000	3.4607	6.43E-008
PCB 62	0.0000	0.0000	0.00E+000
PCB 63	0.2210	0.0743	1.38E-009
PCB 64	2.5500	0.8568	1.59E-008
PCB 65	0.0000	0.0000	0.00E+000
PCB 66	4.4600	1.4985	2.79E-008
PCB 67	0.2030	0.0682	1.27E-009
PCB 68	0.2020	0.0679	1.26E-009
PCB 69	0.0000	0.0000	0.00E+000
PCB 70	0.0000	0.0000	0.00E+000
PCB 71	0.0000	0.0000	0.00E+000
PCB 72	0.0382	0.0128	2.39E-010
PCB 73	0.2190	0.0736	1.37E-009
PCB 74	0.0000	0.0000	0.00E+000
PCB 75	0.0000	0.0000	0.00E+000
PCB 76	0.0000	0.0000	0.00E+000
PCB 77	1.0800	0.3629	6.75E-009
PCB 78	0.0000	0.0000	0.00E+000
PCB 79	0.0000	0.0000	0.00E+000
PCB 80	0.0000	0.0000	0.00E+000
PCB 81	0.0714	0.0240	4.46E-010
PCB 82	0.8150	0.2738	5.09E-009
PCB 83	0.0000	0.0000	0.00E+000
PCB 84	2.0800	0.6989	1.30E-008
PCB 85	1.2200	0.4099	7.62E-009
PCB 86	5.8100	1.9521	3.63E-008
PCB 87	0.0000	0.0000	0.00E+000
PCB 88	1.1400	0.3830	7.12E-009

Calculations (cont.)

PCB 89	0.0000	0.0000	0.00E+000
PCB 90	8.7400	2.9366	5.46E-008
PCB 91	0.0000	0.0000	0.00E+000
PCB 92	1.4600	0.4905	9.12E-009
PCB 93	0.0979	0.0329	6.12E-010
PCB 94	0.0000	0.0000	0.00E+000
PCB 95	7.9200	2.6610	4.95E-008
PCB 96	0.0000	0.0000	0.00E+000
PCB 97	0.0000	0.0000	0.00E+000
PCB 98	0.2330	0.0783	1.46E-009
PCB 99	0.0000	0.0000	0.00E+000
PCB 100	0.0000	0.0000	0.00E+000
PCB 101	0.0000	0.0000	0.00E+000
PCB 102	0.0000	0.0000	0.00E+000
PCB 103	0.0652	0.0219	4.07E-010
PCB 104	0.0000	0.0000	0.00E+000
PCB 105	1.8800	0.6317	1.17E-008
PCB 106	0.0000	0.0000	0.00E+000
PCB 107	0.2430	0.0816	1.52E-009
PCB 108	0.0000	0.0000	0.00E+000
PCB 109	0.0000	0.0000	0.00E+000
PCB 110	7.5000	2.5199	4.69E-008
PCB 111	0.0000	0.0000	0.00E+000
PCB 112	0.0000	0.0000	0.00E+000
PCB 113	0.0000	0.0000	0.00E+000
PCB 114	0.1360	0.0457	8.50E-010
PCB 115	0.0000	0.0000	0.00E+000
PCB 116	0.0000	0.0000	0.00E+000
PCB 117	0.0000	0.0000	0.00E+000
PCB 118	5.0400	1.6934	3.15E-008
PCB 119	0.0000	0.0000	0.00E+000
PCB 120	0.0000	0.0000	0.00E+000
PCB 121	0.0000	0.0000	0.00E+000
PCB 122	0.0791	0.0266	4.94E-010
PCB 123	0.1170	0.0393	7.31E-010
PCB 124	0.0000	0.0000	0.00E+000
PCB 125	0.0000	0.0000	0.00E+000
PCB 126	0.0000	0.0000	0.00E+000
PCB 127	0.0000	0.0000	0.00E+000
PCB 128	0.5570	0.1871	3.48E-009
PCB 129	4.8600	1.6329	3.04E-008
PCB 130	0.2920	0.0981	1.82E-009
PCB 131	0.0971	0.0326	6.07E-010
PCB 132	1.9000	0.6384	1.19E-008
PCB 133	0.0000	0.0000	0.00E+000
PCB 134	0.3490	0.1173	2.18E-009
PCB 135	2.5900	0.8702	1.62E-008

Calculations (cont.)

PCB 136	1.1100	0.3730	6.93E-009
PCB 137	0.2570	0.0863	1.61E-009
PCB 138	0.0000	0.0000	0.00E+000
PCB 139	0.0000	0.0000	0.00E+000
PCB 140	0.0000	0.0000	0.00E+000
PCB 141	1.0800	0.3629	6.75E-009
PCB 142	0.0000	0.0000	0.00E+000
PCB 143	0.0392	0.0132	2.45E-010
PCB 144	0.3980	0.1337	2.49E-009
PCB 145	0.0000	0.0000	0.00E+000
PCB 146	0.6680	0.2244	4.17E-009
PCB 147	5.5400	1.8614	3.46E-008
PCB 148	0.0000	0.0000	0.00E+000
PCB 149	0.0000	0.0000	0.00E+000
PCB 150	0.0000	0.0000	0.00E+000
PCB 151	0.0000	0.0000	0.00E+000
PCB 152	0.0000	0.0000	0.00E+000
PCB 153	5.1700	1.7371	3.23E-008
PCB 154	0.0373	0.0125	2.33E-010
PCB 155	0.0000	0.0000	0.00E+000
PCB 156	0.2880	0.0968	1.80E-009
PCB 157	0.0000	0.0000	0.00E+000
PCB 158	0.4880	0.1640	3.05E-009
PCB 159	0.0000	0.0000	0.00E+000
PCB 160	0.0000	0.0000	0.00E+000
PCB 161	0.0000	0.0000	0.00E+000
PCB 162	0.0000	0.0000	0.00E+000
PCB 163	0.0000	0.0000	0.00E+000
PCB 164	0.2870	0.0964	1.79E-009
PCB 165	0.0000	0.0000	0.00E+000
PCB 166	0.0000	0.0000	0.00E+000
PCB 167	0.1140	0.0383	7.12E-010
PCB 168	0.0000	0.0000	0.00E+000
PCB 169	0.0000	0.0000	0.00E+000
PCB 170	0.3110	0.1045	1.94E-009
PCB 171	0.1970	0.0662	1.23E-009
PCB 172	0.0722	0.0243	4.51E-010
PCB 173	0.0000	0.0000	0.00E+000
PCB 174	0.7540	0.2533	4.71E-009
PCB 175	0.0000	0.0000	0.00E+000
PCB 176	0.1820	0.0612	1.14E-009
PCB 177	0.3820	0.1283	2.39E-009
PCB 178	0.1700	0.0571	1.06E-009
PCB 179	0.6230	0.2093	3.89E-009
PCB 180	1.0500	0.3528	6.56E-009
PCB 181	0.0000	0.0000	0.00E+000
PCB 182	0.0000	0.0000	0.00E+000

Calculations (cont.)

PCB 183	0.6800	0.2285	4.25E-009
PCB 184	0.0000	0.0000	0.00E+000
PCB 185	0.0000	0.0000	0.00E+000
PCB 186	0.0000	0.0000	0.00E+000
PCB 187	1.1100	0.3730	6.93E-009
PCB 188	0.0000	0.0000	0.00E+000
PCB 189	0.0000	0.0000	0.00E+000
PCB 190	0.0677	0.0227	4.23E-010
PCB 191	0.0000	0.0000	0.00E+000
PCB 192	0.0000	0.0000	0.00E+000
PCB 193	0.0000	0.0000	0.00E+000
PCB 194	0.0849	0.0285	5.30E-010
PCB 195	0.0000	0.0000	0.00E+000
PCB 196	0.0997	0.0335	6.23E-010
PCB 197	0.0000	0.0000	0.00E+000
PCB 198	0.2030	0.0682	1.27E-009
PCB 199	0.0000	0.0000	0.00E+000
PCB 200	0.0000	0.0000	0.00E+000
PCB 201	0.0000	0.0000	0.00E+000
PCB 202	0.1170	0.0393	7.31E-010
PCB 203	0.1220	0.0410	7.62E-010
PCB 204	0.0000	0.0000	0.00E+000
PCB 205	0.0000	0.0000	0.00E+000
PCB 206	0.0000	0.0000	0.00E+000
PCB 207	0.0000	0.0000	0.00E+000
PCB 208	0.0253	0.0085	1.58E-010
PCB 209	0.0000	0.0000	0.00E+000
Total PCBs Emission Rate (lb/hr)			1.18E-006

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 97.07

" < " symbol indicates values given are the quantitative detection limit.

3033-16

AirNova, Inc.

EPA Methods 1,2,3A,4, and 23
(Flows, O2/CO2, H2O, PCB's and PCDD/PCDF)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two
Test Date	05/18/07
Test Time	0827-1149

Emission Data

Vlc =	2399	cc	Vol. of H2O collected
Vm =	96.162	dcf	Dry gas meter reading
Pstatic =	0.26	in. H2O	Static pressure
Pb =	30.26	in. Hg	Barometric pressure
Ps =	30.28	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4685	in. H2O ^.5	Average sq.rt delta P
dH =	1.053	in. H2O	Average draft gauge reading
Tm =	512.4	R	Average meter temperature
Ts =	724.2	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.392	in.	Nozzle diameter
An =	0.000838	sq. ft.	Area of nozzle orifice
Y =	0.99		Meter calibration factor
t =	184	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	6.07	%-dry	Oxygen concentration
[CO2]	8.71	%-dry	Carbon Dioxide concentration
[N2]	85.22	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 99.796 dscf
2.83 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 113.348 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.532

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.45 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 33.98 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14409.3 cfm
408.1 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4993.9 dscfm
141.4 dscmm

Calculations (cont.)

08a) Chlorinated Dibenzodioxins (CDD) Concentrations, Emission Rates, and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total TCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-PeCDD	0.0000	0.0	1	0.00E+000	0.00E+000	0.00
Total PeCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDD	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total HxCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDD	0.0000	0.0	0.01	0.00E+000	0.00E+000	0.00
Total HpCDD	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
OCDD	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDD total	**0**	**0.00**

08b) Chlorinated Dibenzofurans (CDF) Concentrations, Emission Rates, and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
2,3,7,8-TCDF	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total TCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
1,2,3,7,8-PeCDF	0.0000	0.0	0.03	0.00E+000	0.00E+000	0.00
2,3,4,7,8-PeCDF	0.0000	0.0	0.30	0.00E+000	0.00E+000	0.00
Total PeCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HxCDF	0.0000	0.0	0.1	0.00E+000	0.00E+000	0.00
Total HxCDF	0.0000	0.0	0	0.00E+000	0.00E+000	0.00
2,3,7,8-HpCDF	0.0177	0.0	0.01	6.26E-005	1.17E-012	0.53
Total HpCDF	0.0177	0.0	0	0.00E+000	0.00E+000	0.00
OCDF	0.0000	0.0	0.0003	0.00E+000	0.00E+000	0.00
				CDF total	**1.1718E-012**	**0.53**

Calculations (cont.)

08c) Non-ortho and Mono-ortho Substituted PCBs Concentrations, Emission Rates, and Equivalents

Conc. [PCB] = Mass [PCB](ng) / Vmstd(dscm)
TEF Conc. = Conc. [PCB](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Non-ortho Substituted PCBs

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)	TEF Emission Rate (lb/hr)	TEF Emission Rate (ng TEQ/hr)
PCB 77	0.9790	0.3464	0.0001	3.46E-005	6.48E-013	0.29
PCB 81	0.0000	0.0000	0.0003	0.00E+000	0.00E+000	0.00
PCB 126	0.0000	0.0000	0.1	0.00E+000	0.00E+000	0.00
PCB 169	0.0000	0.0000	0.03	0.00E+000	0.00E+000	0.00

Mono-ortho Substituted PCBs

PCB 105	1.8000	0.6369	0.00003	1.91E-005	3.58E-013	0.16
PCB 114	0.1160	0.0410	0.00003	1.23E-006	2.30E-014	0.01
PCB 118	4.7100	1.6665	0.00003	5.00E-005	9.35E-013	0.42
PCB 123	0.1200	0.0425	0.00003	1.27E-006	2.38E-014	0.01
PCB 156	0.2550	0.0902	0.00003	2.71E-006	5.06E-014	0.02
PCB 157	0.0000	0.0000	0.00003	0.00E+000	0.00E+000	0.00
PCB 167	0.1060	0.0375	0.00003	1.13E-006	2.11E-014	0.01
PCB 189	0.0000	0.0000	0.00003	0.00E+000	0.00E+000	0.00
				PCB total	**2.0597E-012**	**0.93**
				CDD/CDF/PCB Total	**3.2315E-012**	**1.47**

9) PCBs Concentrations and Emissions

C[PCB] = M[PCB](ng) / Vmstd(dscm)
E[PCB] = C[PCB](ng/dscm) * Qstd(dscmm) * (2.205E-12)(lb/ng) * 60(min/hr)

Analyte	Sample Mass (ng)	Conc. (ng/dscm)	Emission Rate (lb/hr)
PCB 1	0.2060	0.0729	1.36E-009
PCB 2	0.2270	0.0803	1.50E-009
PCB 3	0.0000	0.0000	0.00E+000
PCB 4	0.6290	0.2226	4.16E-009
PCB 5	0.0000	0.0000	0.00E+000
PCB 6	0.4550	0.1610	3.01E-009
PCB 7	0.0000	0.0000	0.00E+000
PCB 8	1.7300	0.6121	1.15E-008
PCB 9	0.1750	0.0619	1.16E-009
PCB 10	0.0000	0.0000	0.00E+000
PCB 11	7.7800	2.7528	5.15E-008
PCB 12	1.3600	0.4812	9.00E-009
PCB 13	0.0000	0.0000	0.00E+000
PCB 14	0.0000	0.0000	0.00E+000
PCB 15	5.7400	2.0310	3.80E-008
PCB 16	1.0700	0.3786	7.08E-009
PCB 17	1.6300	0.5767	1.08E-008
PCB 18	2.7100	0.9589	1.79E-008
PCB 19	0.2730	0.0966	1.81E-009
PCB 20	7.7500	2.7422	5.13E-008
PCB 21	4.3700	1.5462	2.89E-008
PCB 22	2.6600	0.9412	1.76E-008
PCB 23	0.0000	0.0000	0.00E+000
PCB 24	0.0782	0.0277	5.18E-010
PCB 25	0.5070	0.1794	3.36E-009
PCB 26	1.1700	0.4140	7.75E-009
PCB 27	0.0000	0.0000	0.00E+000
PCB 28	0.0000	0.0000	0.00E+000
PCB 29	0.0000	0.0000	0.00E+000
PCB 30	0.0000	0.0000	0.00E+000
PCB 31	6.6600	2.3565	4.41E-008
PCB 32	1.1000	0.3892	7.28E-009
PCB 33	0.0000	0.0000	0.00E+000
PCB 34	0.0333	0.0118	2.20E-010
PCB 35	0.3690	0.1306	2.44E-009
PCB 36	0.0000	0.0000	0.00E+000
PCB 37	3.6900	1.3056	2.44E-008
PCB 38	0.0000	0.0000	0.00E+000
PCB 39	0.0000	0.0000	0.00E+000
PCB 40	2.0500	0.7253	1.36E-008
PCB 41	0.7460	0.2640	4.94E-009

Calculations (cont.)

PCB 42	1.2400	0.4387	8.21E-009
PCB 43	0.0000	0.0000	0.00E+000
PCB 44	6.7200	2.3777	4.45E-008
PCB 45	0.9350	0.3308	6.19E-009
PCB 46	0.2190	0.0775	1.45E-009
PCB 47	0.0000	0.0000	0.00E+000
PCB 48	1.1300	0.3998	7.48E-009
PCB 49	3.4200	1.2101	2.26E-008
PCB 50	0.5550	0.1964	3.67E-009
PCB 51	0.0000	0.0000	0.00E+000
PCB 52	9.1200	3.2269	6.04E-008
PCB 53	0.0000	0.0000	0.00E+000
PCB 54	0.0000	0.0000	0.00E+000
PCB 55	0.1410	0.0499	9.33E-010
PCB 56	2.0900	0.7395	1.38E-008
PCB 57	0.0000	0.0000	0.00E+000
PCB 58	0.3480	0.1231	2.30E-009
PCB 59	0.0000	0.0000	0.00E+000
PCB 60	1.2500	0.4423	8.28E-009
PCB 61	10.0000	3.5383	6.62E-008
PCB 62	0.0000	0.0000	0.00E+000
PCB 63	0.2030	0.0718	1.34E-009
PCB 64	2.5600	0.9058	1.69E-008
PCB 65	0.0000	0.0000	0.00E+000
PCB 66	4.1700	1.4755	2.76E-008
PCB 67	0.1920	0.0679	1.27E-009
PCB 68	0.2050	0.0725	1.36E-009
PCB 69	0.0000	0.0000	0.00E+000
PCB 70	0.0000	0.0000	0.00E+000
PCB 71	0.0000	0.0000	0.00E+000
PCB 72	0.0000	0.0000	0.00E+000
PCB 73	0.0000	0.0000	0.00E+000
PCB 74	0.0000	0.0000	0.00E+000
PCB 75	0.0000	0.0000	0.00E+000
PCB 76	0.0000	0.0000	0.00E+000
PCB 77	0.9790	0.3464	6.48E-009
PCB 78	0.0000	0.0000	0.00E+000
PCB 79	0.0000	0.0000	0.00E+000
PCB 80	0.0000	0.0000	0.00E+000
PCB 81	0.0000	0.0000	0.00E+000
PCB 82	0.7510	0.2657	4.97E-009
PCB 83	0.0000	0.0000	0.00E+000
PCB 84	1.9400	0.6864	1.28E-008
PCB 85	1.1200	0.3963	7.41E-009
PCB 86	5.3700	1.9001	3.56E-008
PCB 87	0.0000	0.0000	0.00E+000
PCB 88	1.0300	0.3644	6.82E-009

Calculations (cont.)

PCB 89	0.0000	0.0000	0.00E+000
PCB 90	8.4100	2.9757	5.57E-008
PCB 91	0.0000	0.0000	0.00E+000
PCB 92	1.3400	0.4741	8.87E-009
PCB 93	0.0000	0.0000	0.00E+000
PCB 94	0.0000	0.0000	0.00E+000
PCB 95	7.4500	2.6360	4.93E-008
PCB 96	0.0000	0.0000	0.00E+000
PCB 97	0.0000	0.0000	0.00E+000
PCB 98	0.0000	0.0000	0.00E+000
PCB 99	2.9300	1.0367	1.94E-008
PCB 100	0.0000	0.0000	0.00E+000
PCB 101	0.0000	0.0000	0.00E+000
PCB 102	0.0000	0.0000	0.00E+000
PCB 103	0.0000	0.0000	0.00E+000
PCB 104	0.0000	0.0000	0.00E+000
PCB 105	1.8000	0.6369	1.19E-008
PCB 106	0.0000	0.0000	0.00E+000
PCB 107	0.2310	0.0817	1.53E-009
PCB 108	0.0000	0.0000	0.00E+000
PCB 109	0.3320	0.1175	2.20E-009
PCB 110	6.9100	2.4450	4.57E-008
PCB 111	0.0000	0.0000	0.00E+000
PCB 112	0.0000	0.0000	0.00E+000
PCB 113	0.0000	0.0000	0.00E+000
PCB 114	0.1160	0.0410	7.68E-010
PCB 115	0.0000	0.0000	0.00E+000
PCB 116	0.0000	0.0000	0.00E+000
PCB 117	0.0000	0.0000	0.00E+000
PCB 118	4.7100	1.6665	3.12E-008
PCB 119	0.0000	0.0000	0.00E+000
PCB 120	0.0000	0.0000	0.00E+000
PCB 121	0.0000	0.0000	0.00E+000
PCB 122	0.0000	0.0000	0.00E+000
PCB 123	0.1200	0.0425	7.94E-010
PCB 124	0.0000	0.0000	0.00E+000
PCB 125	0.0000	0.0000	0.00E+000
PCB 126	0.0000	0.0000	0.00E+000
PCB 127	0.0000	0.0000	0.00E+000
PCB 128	0.4650	0.1645	3.08E-009
PCB 129	4.5000	1.5922	2.98E-008
PCB 130	0.0000	0.0000	0.00E+000
PCB 131	0.0000	0.0000	0.00E+000
PCB 132	1.7600	0.6227	1.17E-008
PCB 133	0.0634	0.0224	4.20E-010
PCB 134	0.3140	0.1111	2.08E-009
PCB 135	2.3700	0.8386	1.57E-008

Calculations (cont.)

PCB 136	1.0400	0.3680	6.89E-009
PCB 137	0.2540	0.0899	1.68E-009
PCB 138	0.0000	0.0000	0.00E+000
PCB 139	0.1040	0.0368	6.89E-010
PCB 140	0.0000	0.0000	0.00E+000
PCB 141	1.0200	0.3609	6.75E-009
PCB 142	0.0000	0.0000	0.00E+000
PCB 143	0.0000	0.0000	0.00E+000
PCB 144	0.3740	0.1323	2.48E-009
PCB 145	0.0000	0.0000	0.00E+000
PCB 146	0.6300	0.2229	4.17E-009
PCB 147	5.0500	1.7868	3.34E-008
PCB 148	0.0000	0.0000	0.00E+000
PCB 149	0.0000	0.0000	0.00E+000
PCB 150	0.0000	0.0000	0.00E+000
PCB 151	0.0000	0.0000	0.00E+000
PCB 152	0.0000	0.0000	0.00E+000
PCB 153	4.6800	1.6559	3.10E-008
PCB 154	0.0000	0.0000	0.00E+000
PCB 155	0.0000	0.0000	0.00E+000
PCB 156	0.2550	0.0902	1.69E-009
PCB 157	0.0000	0.0000	0.00E+000
PCB 158	0.4190	0.1483	2.77E-009
PCB 159	0.0000	0.0000	0.00E+000
PCB 160	0.0000	0.0000	0.00E+000
PCB 161	0.0000	0.0000	0.00E+000
PCB 162	0.0000	0.0000	0.00E+000
PCB 163	0.0000	0.0000	0.00E+000
PCB 164	0.2400	0.0849	1.59E-009
PCB 165	0.0000	0.0000	0.00E+000
PCB 166	0.0000	0.0000	0.00E+000
PCB 167	0.1060	0.0375	7.02E-010
PCB 168	0.0000	0.0000	0.00E+000
PCB 169	0.0000	0.0000	0.00E+000
PCB 170	0.0000	0.0000	0.00E+000
PCB 171	0.1660	0.0587	1.10E-009
PCB 172	0.0633	0.0224	4.19E-010
PCB 173	0.0000	0.0000	0.00E+000
PCB 174	0.7350	0.2601	4.87E-009
PCB 175	0.0000	0.0000	0.00E+000
PCB 176	0.1730	0.0612	1.15E-009
PCB 177	0.3540	0.1253	2.34E-009
PCB 178	0.1680	0.0594	1.11E-009
PCB 179	0.6240	0.2208	4.13E-009
PCB 180	0.9740	0.3446	6.45E-009
PCB 181	0.0000	0.0000	0.00E+000
PCB 182	0.0000	0.0000	0.00E+000

Calculations (cont.)

PCB 183	0.6200	0.2194	4.10E-009
PCB 184	0.0000	0.0000	0.00E+000
PCB 185	0.0000	0.0000	0.00E+000
PCB 186	0.0000	0.0000	0.00E+000
PCB 187	1.1300	0.3998	7.48E-009
PCB 188	0.0000	0.0000	0.00E+000
PCB 189	0.0000	0.0000	0.00E+000
PCB 190	0.0000	0.0000	0.00E+000
PCB 191	0.0000	0.0000	0.00E+000
PCB 192	0.0000	0.0000	0.00E+000
PCB 193	0.0000	0.0000	0.00E+000
PCB 194	0.0792	0.0280	5.24E-010
PCB 195	0.0441	0.0156	2.92E-010
PCB 196	0.0000	0.0000	0.00E+000
PCB 197	0.0000	0.0000	0.00E+000
PCB 198	0.1920	0.0679	1.27E-009
PCB 199	0.0000	0.0000	0.00E+000
PCB 200	0.0000	0.0000	0.00E+000
PCB 201	0.6260	0.2215	4.14E-009
PCB 202	0.0000	0.0000	0.00E+000
PCB 203	0.1090	0.0386	7.22E-010
PCB 204	0.0000	0.0000	0.00E+000
PCB 205	0.0000	0.0000	0.00E+000
PCB 206	0.0000	0.0000	0.00E+000
PCB 207	0.0000	0.0000	0.00E+000
PCB 208	0.0238	0.0084	1.58E-010
PCB 209	0.0263	0.0093	1.74E-010
Total PCBs Emission Rate (lb/hr)			1.16E-006

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 91.60

" < " symbol indicates values given are the quantitative detection limit.

3033-05

AirNova, Inc.

EPA Methods 1,2,3A,4, and Modified Method 5
(Flows, O2/CO2, H2O, and SVOC's)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	One
Test Date	05/17/07
Test Time	1545-1910

Emission Data

Vlc =	2539.2	cc	Vol. of H2O collected
Vm =	101.807	dcf	Dry gas meter reading
Pstatic =	-6.70	in. H2O	Static pressure
Pb =	30.18	in. Hg	Barometric pressure
Ps =	29.69	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4553	in. H2O ^.5	Average sq.rt delta P
dH =	0.991	in. H2O	Average draft gauge reading
Tm =	547.2	R	Average meter temperature
Ts =	787.7	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.389	in.	Nozzle diameter
An =	0.000825	sq. ft.	Area of nozzle orifice
Y =	0.98		Meter calibration factor
t =	180	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	4.8	%-dry	Oxygen concentration
[CO2]	9.5	%-dry	Carbon Dioxide concentration
[N2]	85.70	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 97.655 dscf
2.77 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 119.973 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.551

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.26 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 34.93 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 14812.8 cfm
419.5 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 4434.8 dscfm
125.6 dscmm

Calculations (cont.)

8) PAH Concentrations and Emissions

C[PAH] = M[PAH](ug) / Vmstd(dscm)
E[PAH] = C[PAH](ug/dscm) * Qstd(dscmm) * (2.205E-09)(lb/ug) * 60(min/hr)

PAH Analyte	Sample Mass (ug)	Conc. (ug/dscm)	Emission Rate (lb/hr)
Acenaphthene	0.16900	0.06	1.02E-006
Acenaphthylene	0.00000	0.00	0.00E+000
Anthracene	0.06380	0.02	3.83E-007
Benzo(a)anthracene	0.35900	0.13	2.16E-006
Benzo(a)pyrene	0.11800	0.04	7.09E-007
Benzo(b)fluoranthene	0.39600	0.14	2.38E-006
Benzo(g,h,i)perylene	0.24900	0.09	1.50E-006
Benzo(k)fluoranthene	0.00000	0.00	0.00E+000
Bis(2-ethylhexyl)phthalate	5.97000	2.16	3.59E-005
Chrysene	0.00000	0.00	0.00E+000
Dibenzo(a,h)anthracene	0.00000	0.00	0.00E+000
Di-n-octylphthalate	0.48500	0.18	2.91E-006
Fluoranthene	0.40000	0.14	2.40E-006
Fluorene	0.22300	0.08	1.34E-006
Indeno(1,2,3-c,d)pyrene	0.33100	0.12	1.99E-006
1-Methylnaphthalene	0.00000	0.00	0.00E+000
2-Methylnaphthalene	0.00000	0.00	0.00E+000
Naphthalene	0.00000	0.00	0.00E+000
Phenanthrene	0.35700	0.13	2.14E-006
Pyrene	0.00000	0.00	0.00E+000
Total PAH Emission Rate (lb/hr)			5.48E-005

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 104.77

* - indicates that the values given on this row are the quantitative detection limit and should be viewed as nondetectable

** - this total reflects emissions from both nondetectable and detectable PAH's listed above

3033-06

AirNova, Inc.

EPA Methods 1,2,3A,4, and Modified Method 5
(Flows, O2/CO2, H2O, and SVOC's)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Inlet
Test Run	Two
Test Date	05/18/07
Test Time	0827-1145

Emission Data

Vlc =	2328.3	cc	Vol. of H2O collected
Vm =	108.702	dcf	Dry gas meter reading
Pstatic =	-6.70	in. H2O	Static pressure
Pb =	30.26	in. Hg	Barometric pressure
Ps =	29.77	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4880	in. H2O ^.5	Average sq.rt delta P
dH =	1.112	in. H2O	Average draft gauge reading
Tm =	534.5	R	Average meter temperature
Ts =	772.6	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.389	in.	Nozzle diameter
An =	0.000825	sq. ft.	Area of nozzle orifice
Y =	0.98		Meter calibration factor
t =	180	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	5.8	%-dry	Oxygen concentration
[CO2]	8.9	%-dry	Carbon Dioxide concentration
[N2]	85.30	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 107.053 dscf
3.03 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 110.008 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.507

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.75 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 36.64 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15537.6 cfm
440.0 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5226.9 dscfm
148.0 dscmm

Calculations (cont.)

8) PAH Concentrations and Emissions

C[PAH] = M[PAH](ug) / Vmstd(dscm)
E[PAH] = C[PAH](ug/dscm) * Qstd(dscmm) * (2.205E-09)(lb/ug) * 60(min/hr)

PAH Analyte	Sample Mass (ug)	Conc. (ug/dscm)	Emission Rate (lb/hr)
Acenaphthene	0.00000	0.00	0.00E+000
Acenaphthylene	0.00000	0.00	0.00E+000
Anthracene	0.00000	0.00	0.00E+000
Benzo(a)anthracene	0.18300	0.06	1.18E-006
Benzo(a)pyrene	0.09410	0.03	6.08E-007
Benzo(b)fluoranthene	0.00000	0.00	0.00E+000
Benzo(g,h,i)perylene	0.00000	0.00	0.00E+000
Benzo(k)fluoranthene	0.00000	0.00	0.00E+000
Bis(2-ethylhexyl)phthalate	10.60000	3.50	6.85E-005
Chrysene	0.00000	0.00	0.00E+000
Dibenzo(a,h)anthracene	0.00000	0.00	0.00E+000
Di-n-octylphthalate	0.57600	0.19	3.72E-006
Fluoranthene	0.13100	0.04	8.46E-007
Fluorene	0.13200	0.04	8.53E-007
Indeno(1,2,3-c,d)pyrene	0.00000	0.00	0.00E+000
1-Methylnaphthalene	0.00000	0.00	0.00E+000
2-Methylnaphthalene	0.00000	0.00	0.00E+000
Naphthalene	0.00000	0.00	0.00E+000
Phenanthrene	0.26300	0.09	1.70E-006
Pyrene	0.00000	0.00	0.00E+000
Total PAH Emission Rate (lb/hr)			7.74E-005

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 97.45

* - indicates that the values given on this row are the quantitative detection limit and should be viewed as nondetectable
** - this total reflects emissions from both nondetectable and detectable PAH's listed above

AirNova, Inc.

EPA Methods 1,2,3A,4, and Modified Method 5
(Flows, O2/CO2, H2O, and SVOC's)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	One
Test Date	05/17/07
Test Time	1545-1915

Emission Data

Vlc =	2553	cc	Vol. of H2O collected
Vm =	107.438	dcf	Dry gas meter reading
Pstatic =	0.26	in. H2O	Static pressure
Pb =	30.1	in. Hg	Barometric pressure
Ps =	30.12	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.5056	in. H2O ^.5	Average sq.rt delta P
dH =	1.120	in. H2O	Average draft gauge reading
Tm =	522.0	R	Average meter temperature
Ts =	750.3	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.383	in.	Nozzle diameter
An =	0.000800	sq. ft.	Area of nozzle orifice
Y =	1.00		Meter calibration factor
t =	184	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	5.04	%-dry	Oxygen concentration
[CO2]	9.49	%-dry	Carbon Dioxide concentration
[N2]	85.47	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 109.983 dscf
3.11 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 120.625 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.523

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.59 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 37.31 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15825.3 cfm
448.2 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5363.7 dscfm
151.9 dscmm

Calculations (cont.)

8) PAH Concentrations and Emissions

C[PAH] = M[PAH](ug) / Vmstd(dscm)
E[PAH] = C[PAH](ug/dscm) * Qstd(dscmm) * (2.205E-09)(lb/ug) * 60(min/hr)

PAH Analyte	Sample Mass (ug)	Conc. (ug/dscm)	Emission Rate (lb/hr)
Acenaphthene	0.00000	0.00	0.00E+000
Acenaphthylene	0.00000	0.00	0.00E+000
Anthracene	0.00000	0.00	0.00E+000
Benzo(a)anthracene	0.00000	0.00	0.00E+000
Benzo(a)pyrene	0.07260	0.02	4.68E-007
Benzo(b)fluoranthene	0.00000	0.00	0.00E+000
Benzo(g,h,i)perylene	0.00000	0.00	0.00E+000
Benzo(k)fluoranthene	0.00000	0.00	0.00E+000
Bis(2-ethylhexyl)phthalate	9.15000	2.94	5.90E-005
Chrysene	0.00000	0.00	0.00E+000
Dibenzo(a,h)anthracene	0.00000	0.00	0.00E+000
Di-n-octylphthalate	0.30400	0.10	1.96E-006
Fluoranthene	0.13400	0.04	8.65E-007
Fluorene	0.17500	0.06	1.13E-006
Indeno(1,2,3-c,d)pyrene	0.00000	0.00	0.00E+000
1-Methylnaphthalene	0.00000	0.00	0.00E+000
2-Methylnaphthalene	0.00000	0.00	0.00E+000
Naphthalene	0.00000	0.00	0.00E+000
Phenanthrene	0.35600	0.11	2.30E-006
Pyrene	0.00000	0.00	0.00E+000
Total PAH Emission Rate (lb/hr)			6.58E-005

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 98.46

* - indicates that the values given on this row are the quantitative detection limit and should be viewed as nondetectable
** - this total reflects emissions from both nondetectable and detectable PAH's listed above

3033-18

AirNova, Inc.

EPA Methods 1,2,3A,4, and Modified Method 5
(Flows, O2/CO2, H2O, and SVOC's)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Carbon Bed Outlet
Test Run	Two
Test Date	05/18/07
Test Time	0827-1149

Emission Data

Vlc =	2299.8	cc	Vol. of H2O collected
Vm =	101.18	dcf	Dry gas meter reading
Pstatic =	0.26	in. H2O	Static pressure
Pb =	30.26	in. Hg	Barometric pressure
Ps =	30.28	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	0.4929	in. H2O ^.5	Average sq.rt delta P
dH =	1.023	in. H2O	Average draft gauge reading
Tm =	511.3	R	Average meter temperature
Ts =	722.9	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	0.383	in.	Nozzle diameter
An =	0.000800	sq. ft.	Area of nozzle orifice
Y =	1.00		Meter calibration factor
t =	184	min.	Duration of sampling time
Ds =	3.000	ft.	Diameter of stack
As =	7.0684	sq. ft.	Cross sectional area of stack
Cp =	0.84		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	6.07	%-dry	Oxygen concentration
[CO2]	8.71	%-dry	Carbon Dioxide concentration
[N2]	85.22	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, Vmstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 106.283 dscf
3.01 dscm

2) Volume of water vapor collected at standard conditions, Vw(std).

Vw(std) = K2 * Vlc
Vw(std) = 108.661 scf

3) Decimal fraction of moisture by volume in stack gas, Bws.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.506

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.75 lb/ lbmole

5) Average stack gas velocity, Vs.

Vs = Kp * Cp * (dP) * (Ts/Ps*Ms)^.5
Vs = 35.48 fps

6) Average actual stack gas volumetric flowrate, Qa.

Qa = 60 sec/min * Vs * As
Qa = 15048.5 cfm
426.2 cmm

7) Average stack gas dry volumetric flowrate, Qstd.

Qstd = Qa * (Tstd/Ts) * (Ps/Pstd) * (1-Bws)
Qstd = 5517.9 dscfm
156.3 dscmm

Calculations (cont.)

8) PAH Concentrations and Emissions

C[PAH] = M[PAH](ug) / Vmstd(dscm)
E[PAH] = C[PAH](ug/dscm) * Qstd(dscmm) * (2.205E-09)(lb/ug) * 60(min/hr)

PAH Analyte	Sample Mass (ug)	Conc. (ug/dscm)	Emission Rate (lb/hr)
Acenaphthene	0.00000	0.00	0.00E+000
Acenaphthylene	0.00000	0.00	0.00E+000
Anthracene	0.00000	0.00	0.00E+000
Benzo(a)anthracene	0.17100	0.06	1.17E-006
Benzo(a)pyrene	0.07820	0.03	5.37E-007
Benzo(b)fluoranthene	0.00000	0.00	0.00E+000
Benzo(g,h,i)perylene	0.00000	0.00	0.00E+000
Benzo(k)fluoranthene	0.00000	0.00	0.00E+000
Bis(2-ethylhexyl)phthalate	27.80000	9.24	1.91E-004
Chrysene	0.00000	0.00	0.00E+000
Dibenzo(a,h)anthracene	0.00000	0.00	0.00E+000
Di-n-octylphthalate	0.00000	0.00	0.00E+000
Fluoranthene	0.14000	0.05	9.62E-007
Fluorene	0.00000	0.00	0.00E+000
Indeno(1,2,3-c,d)pyrene	0.00000	0.00	0.00E+000
1-Methylnaphthalene	0.00000	0.00	0.00E+000
2-Methylnaphthalene	0.00000	0.00	0.00E+000
Naphthalene	0.00000	0.00	0.00E+000
Phenanthrene	0.23400	0.08	1.61E-006
Pyrene	0.00000	0.00	0.00E+000
Total PAH Emission Rate (lb/hr)			1.95E-004

9) Isokinecity, I.

% I = [100*Ts*(K3*Vlc+(((Vm*Y)/Tm)*(Pb+(dH/13.6))))] / (60*t*Ps*Vs*An)
% I = 92.49

* - indicates that the values given on this row are the quantitative detection limit and should be viewed as nondetectable

** - this total reflects emissions from both nondetectable and detectable PAH's listed above

3033-27

AirNova, Inc.

EPA Methods 1,2,3A,4, Mod 5, 18, 23, 25A, and 29)
(Flows, O2/CO2, H2O, SVOCs, CH4, PCB's, PCDD/PCDF, VOCs, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Granulator Outlet
Test Run	One (During Run 1 Metals)
Test Date	05/16/07
Test Time	1153-1553

Emission Data

Vlc =	1719.1	cc	Vol. of H2O collected
Vm =	104.846	dcf	Dry gas meter reading
Pstatic =	NA	in. H2O	Static pressure
Pb =	29.7	in. Hg	Barometric pressure
Ps =	29.70	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	NA	in. H2O ^.5	Average sq.rt delta P
dH =	3.000	in. H2O	Average draft gauge reading
Tm =	551.7	R	Average meter temperature
Ts =	NA	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	NA	in.	Nozzle diameter
An =	NA	sq. ft.	Area of nozzle orifice
Y =	1.02		Meter calibration factor
t =	120	min.	Duration of sampling time
Ds =	NA	ft.	Diameter of stack
As =	NA	sq. ft.	Cross sectional area of stack
Cp =	NA		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	NA	%-dry	Oxygen concentration
[CO2]	NA	%-dry	Carbon Dioxide concentration
[N2]	100.00	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, V mstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 102.680 dscf
2.91 dscm

2) Volume of water vapor collected at standard conditions, V w(std).

Vw(std) = K2 * Vlc
Vw(std) = 81.224 scf

3) Decimal fraction of moisture by volume in stack gas, Bw s.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.442

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.58 lb/ lbmole

Calculations (cont.)

05a) Chlorinated Dibenzodioxins (CDD) Concentrations and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000
Total TCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-PeCDD	0.0000	0.0	1	0.00E+000
Total PeCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-HxCDD	0.0000	0.0	0.1	0.00E+000
Total HxCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-HpCDD	0.0000	0.0	0.01	0.00E+000
Total HpCDD	0.0000	0.0	0	0.00E+000
OCDD	0.0000	0.0	0.0003	0.00E+000
			CDD total	**0.00E+000**

05b) Chlorinated Dibenzofurans (CDF) Concentrations and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)
2,3,7,8-TCDF	0.0000	0.0	0.1	0.00E+000
Total TCDF	0.0000	0.0	0	0.00E+000
1,2,3,7,8-PeCDF	0.0000	0.0	0.03	0.00E+000
2,3,4,7,8-PeCDF	0.0000	0.0	0.30	0.00E+000
Total PeCDF	0.0000	0.0	0	0.00E+000
2,3,7,8-HxCDF	0.0000	0.0	0.1	0.00E+000
Total HxCDF	0.0000	0.0	0	0.00E+000
2,3,7,8-HpCDF	0.0000	0.0	0.01	0.00E+000
Total HpCDF	0.0000	0.0	0	0.00E+000
OCDF	0.0000	0.0	0.0003	0.00E+000
			CDF total	**0.00E+000**

Calculations (cont.)

05c) Non-ortho and Mono-ortho Substituted PCBs Concentrations and Equivalents

TEF Conc. = Conc. [PCB](ng/L or ppt) * TEF

Non-ortho Substituted PCBs

Compound	Conc. (ng/L or ppt)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/L or ppt)
PCB 77	0.1820	0.0001	1.82E-005
PCB 81	0.0000	0.0003	0.00E+000
PCB 126	0.0000	0.1	0.00E+000
PCB 169	0.0000	0.03	0.00E+000

Mono-ortho Substituted PCBs

PCB 105	0.4200	0.00003	1.26E-005
PCB 114	0.0216	0.00003	6.48E-007
PCB 118	1.2200	0.00003	3.66E-005
PCB 123	0.0309	0.00003	9.27E-007
PCB 156	0.1170	0.00003	3.51E-006
PCB 157	0.0000	0.00003	0.00E+000
PCB 167	0.0526	0.00003	1.58E-006
PCB 189	0.0085	0.00003	2.54E-007
		PCB total	**7.43E-005**
		CDD/CDF/PCB Total	**7.43E-005**

Client	GTI @ Indesco Site	**Test Location**	Granulator Outlet	**Page 4**
Project No.	3033	**Test Run**	One (During Run 1 Metals)	

6) PCBs Concentrations

C[PCB] = Taken from SGS Analysis (ng/L or ppt)

Analyte	Conc. (ng/L or ppt)
PCB 1	0.0768
PCB 2	0.2580
PCB 3	0.0000
PCB 4	0.1790
PCB 5	0.0367
PCB 6	0.1050
PCB 7	0.0226
PCB 8	0.2570
PCB 9	0.0450
PCB 10	0.0000
PCB 11	2.1700
PCB 12	0.2150
PCB 13	0.0000
PCB 14	0.0000
PCB 15	0.3910
PCB 16	0.2400
PCB 17	0.3850
PCB 18	0.7150
PCB 19	0.1490
PCB 20	1.4200
PCB 21	0.5840
PCB 22	0.4650
PCB 23	0.0000
PCB 24	0.0224
PCB 25	0.1600
PCB 26	0.2790
PCB 27	0.0000
PCB 28	0.0000
PCB 29	0.0000
PCB 30	0.0000
PCB 31	1.1200
PCB 32	0.3080
PCB 33	0.0000
PCB 34	0.0127
PCB 35	0.1470
PCB 36	0.0000
PCB 37	0.4830
PCB 38	0.0000
PCB 39	0.0182
PCB 40	0.9860
PCB 41	0.0000

Calculations (cont.)

PCB 42	0.4920
PCB 43	0.0704
PCB 44	2.3400
PCB 45	0.6730
PCB 46	0.0000
PCB 47	0.0000
PCB 48	0.3900
PCB 49	1.4100
PCB 50	0.3420
PCB 51	0.0000
PCB 52	2.2700
PCB 53	0.0000
PCB 54	0.0376
PCB 55	0.0443
PCB 56	0.6620
PCB 57	0.0000
PCB 58	0.0000
PCB 59	0.2190
PCB 60	0.1660
PCB 61	2.4900
PCB 62	0.0000
PCB 63	0.0000
PCB 64	0.7450
PCB 65	0.0000
PCB 66	1.5300
PCB 67	0.0799
PCB 68	0.0212
PCB 69	0.0000
PCB 70	0.0000
PCB 71	0.0000
PCB 72	0.0000
PCB 73	0.0467
PCB 74	0.0000
PCB 75	0.0000
PCB 76	0.0000
PCB 77	0.1820
PCB 78	0.0000
PCB 79	0.0242
PCB 80	0.0000
PCB 81	0.0000
PCB 82	0.2160
PCB 83	0.1160
PCB 84	0.5220
PCB 85	0.3210
PCB 86	1.2600
PCB 87	0.0000
PCB 88	0.4340

Calculations (cont.)

PCB 89	0.0408
PCB 90	2.0000
PCB 91	0.0000
PCB 92	0.4010
PCB 93	0.1730
PCB 94	0.0438
PCB 95	1.5200
PCB 96	0.0430
PCB 97	0.0000
PCB 98	0.1830
PCB 99	1.0700
PCB 100	0.0000
PCB 101	0.0000
PCB 102	0.0000
PCB 103	0.0679
PCB 104	0.0227
PCB 105	0.4200
PCB 106	0.0343
PCB 107	0.0601
PCB 108	0.0000
PCB 109	0.1270
PCB 110	1.8800
PCB 111	0.0000
PCB 112	0.0371
PCB 113	0.0000
PCB 114	0.0216
PCB 115	0.0000
PCB 116	0.0000
PCB 117	0.0000
PCB 118	1.2200
PCB 119	0.0000
PCB 120	0.0000
PCB 121	0.0000
PCB 122	0.0246
PCB 123	0.0309
PCB 124	0.0000
PCB 125	0.0000
PCB 126	0.0000
PCB 127	0.0000
PCB 128	0.1700
PCB 129	1.4900
PCB 130	0.1090
PCB 131	0.0273
PCB 132	0.5160
PCB 133	0.0363
PCB 134	0.1090
PCB 135	0.6620

Calculations (cont.)

PCB 136	0.2510
PCB 137	0.0000
PCB 138	0.0000
PCB 139	0.0396
PCB 140	0.0000
PCB 141	0.2960
PCB 142	0.0000
PCB 143	0.0000
PCB 144	0.0898
PCB 145	0.0000
PCB 146	0.3070
PCB 147	1.5800
PCB 148	0.0134
PCB 149	0.0000
PCB 150	0.0167
PCB 151	0.0000
PCB 152	0.0000
PCB 153	1.5300
PCB 154	0.0844
PCB 155	0.1000
PCB 156	0.1170
PCB 157	0.0000
PCB 158	0.1350
PCB 159	0.0237
PCB 160	0.0000
PCB 161	0.0000
PCB 162	0.0000
PCB 163	0.0000
PCB 164	0.1230
PCB 165	0.0000
PCB 166	0.0000
PCB 167	0.0526
PCB 168	0.0000
PCB 169	0.0000
PCB 170	0.2980
PCB 171	0.1480
PCB 172	0.0855
PCB 173	0.0000
PCB 174	0.5310
PCB 175	0.0000
PCB 176	0.0888
PCB 177	0.3400
PCB 178	0.1290
PCB 179	0.3070
PCB 180	0.8800
PCB 181	0.0046
PCB 182	0.0000

Calculations (cont.)

PCB 183	0.3750
PCB 184	0.0000
PCB 185	0.0000
PCB 186	0.0000
PCB 187	0.5850
PCB 188	0.0000
PCB 189	0.0085
PCB 190	0.0591
PCB 191	0.0172
PCB 192	0.0000
PCB 193	0.0000
PCB 194	0.1000
PCB 195	0.0497
PCB 196	0.0929
PCB 197	0.0475
PCB 198	0.2220
PCB 199	0.0000
PCB 200	0.0000
PCB 201	0.0000
PCB 202	0.0571
PCB 203	0.1110
PCB 204	0.0000
PCB 205	0.0000
PCB 206	0.0482
PCB 207	0.0000
PCB 208	0.0340
PCB 209	0.0626
Total PCBs	50.34

7) Trace metal concentrations

C[M] = From SGS analysis (reported as mg/L or ppm)

Element		Sample Conc. (mg/L or ppm)
Arsenic		0
Barium		0
Cadmium		0
Chromium		0
Cobalt		0
Copper		0
Lead		0
Manganese		0
Nickel		0
Selenium		0
Silver		0
Zinc		0
Mercury	<	2.85E-004

Calculations (cont.)

8) PAH Concentrations

C[PAH] = From SGS analysis (reported as ug/L or ppb)

PAH Analyte	Conc. (ug/L or ppb)
Acenaphthene	0.00000
Acenaphthylene	0.00000
Anthracene	0.00000
Benzo(a)anthracene	0.00000
Benzo(a)pyrene	0.00000
Benzo(b)fluoranthene	0.00000
Benzo(g,h,i)perylene	0.00000
Benzo(k)fluoranthene	0.00000
Bis(2-ethylhexyl)phthalate	5.00000
Chrysene	0.09710
Dibenzo(a,h)anthracene	0.00000
Di-n-octylphthalate	0.00000
Fluoranthene	0.18800
Fluorene	0.00000
Indeno(1,2,3-c,d)pyrene	0.00000
1-Methylnaphthalene	0.00000
2-Methylnaphthalene	0.00000
Naphthalene	0.00000
Phenanthrene	0.10500
Pyrene	0.18400
Total PAHs	5.57

9) Total Hydrocarbon concentrations

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

INPUT	C[THC] =	0.9	ppmVw		
	C[THC] =	1.6	ppmVd		
INPUT	C[CH4] =	0.0	ppmVd		
	C[VOC] =	1.6	ppmVd		
	C[VOC] =	1.0	ppmVd correcte	7	% O2

3033-28

AirNova, Inc.

EPA Methods 1,2,3A,4, Mod 5, 18, 23, 25A, and 29)
(Flows, O2/CO2, H2O, SVOCs, CH4, PCB's, PCDD/PCDF, VOCs, and Metals)

Client	GTI @ Indesco Site
Project No.	3033
Test Location	Granulator Outlet
Test Run	Two (During Run 2 Metals)
Test Date	05/17/07
Test Time	0831-1304

Emission Data

Vlc =	1770.1	cc	Vol. of H2O collected
Vm =	114.004	dcf	Dry gas meter reading
Pstatic =	NA	in. H2O	Static pressure
Pb =	30.05	in. Hg	Barometric pressure
Ps =	30.05	in. Hg	Stack pressure
Pstd =	29.92	in. Hg	EPA Standard pressure
dP =	NA	in. H2O ^.5	Average sq.rt delta P
dH =	3.000	in. H2O	Average draft gauge reading
Tm =	536.7	R	Average meter temperature
Ts =	NA	R	Average stack temperature
Tstd=	529.7	R	Standard temperature
Dn =	NA	in.	Nozzle diameter
An =	NA	sq. ft.	Area of nozzle orifice
Y =	1.02		Meter calibration factor
t =	120	min.	Duration of sampling time
Ds =	NA	ft.	Diameter of stack
As =	NA	sq. ft.	Cross sectional area of stack
Cp =	NA		Pitot tube coefficient
Kp =	85.49	ft[(lb/lbmol)*(inHg)]^.5}/[s*R*inH2O]	Pitot tube constant
K1 =	17.704	R/in.Hg	constant
K2 =	0.047248	cu.ft/ml	constant
K3 =	0.0026688	in.Hg-cf/ml-R	constant

Instrumental Data

[O2]	NA	%-dry	Oxygen concentration
[CO2]	NA	%-dry	Carbon Dioxide concentration
[N2]	100.00	%-dry	Nitrogen concentration

Calculations

1) Volume of gas sampled at standard conditions, V mstd.

Vmstd =K1* Y * Vm * (Pb + dH/13.6) / Tm
Vmstd = 116.112 dscf
3.29 dscm

2) Volume of water vapor collected at standard conditions, V w(std).

Vw(std) = K2 * Vlc
Vw(std) = 83.634 scf

3) Decimal fraction of moisture by volume in stack gas, Bw s.

Bws = Vwstd / (Vmstd+Vwstd)
Bws = 0.419

4) Molecular weight of the stack gas on a wet basis, Ms.

Ms = [((44*%CO2) + (32*%O2) + (28*%N2)) * (1-Bws)] + (18*Bws)
Ms = 23.81 lb/ lbmole

Calculations (cont.)

05a) Chlorinated Dibenzodioxins (CDD) Concentrations and Equivalents

Conc. [CDD] = Mass [CCD](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDD](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)
2,3,7,8-TCDD	0.0000	0.0	1	0.00E+000
Total TCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-PeCDD	0.0000	0.0	1	0.00E+000
Total PeCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-HxCDD	0.0000	0.0	0.1	0.00E+000
Total HxCDD	0.0000	0.0	0	0.00E+000
2,3,7,8-HpCDD	0.0000	0.0	0.01	0.00E+000
Total HpCDD	0.0000	0.0	0	0.00E+000
OCDD	0.0000	0.0	0.0003	0.00E+000
			CDD total	**0.00E+000**

05b) Chlorinated Dibenzofurans (CDF) Concentrations and Equivalents

Conc. [CDF] = Mass [CDF](ng) / Vmstd(dscm)
TEF Conc. = Conc. [CDF](ng/dscm) * TEF
TEF Emission Rate (lb/hr) = TEF Conc. (ng/dscm) * (1lb/453.6E+09 ng) * Qstd(dscmm) * 60 min/hr
TEF Emission Rate (ng TEQ/hr) = TEF Conc. (ng/dscm) * Qstd(dscmm) * 60 min/hr

Compound	Sample Mass (ng)	Conc. (ng/dscm)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/dscm)
2,3,7,8-TCDF	0.0000	0.0	0.1	0.00E+000
Total TCDF	0.0000	0.0	0	0.00E+000
1,2,3,7,8-PeCDF	0.0000	0.0	0.03	0.00E+000
2,3,4,7,8-PeCDF	0.0000	0.0	0.30	0.00E+000
Total PeCDF	0.0000	0.0	0	0.00E+000
2,3,7,8-HxCDF	0.0000	0.0	0.1	0.00E+000
Total HxCDF	0.0000	0.0	0	0.00E+000
2,3,7,8-HpCDF	0.0000	0.0	0.01	0.00E+000
Total HpCDF	0.0000	0.0	0	0.00E+000
OCDF	0.0000	0.0	0.0003	0.00E+000
			CDF total	**0.00E+000**

Calculations (cont.)

05c) Non-ortho and Mono-ortho Substituted PCBs Concentrations and Equivalents

TEF Conc. = Conc. [PCB](ng/L or ppt) * TEF

Non-ortho Substituted PCBs

Compound	Conc. (ng/L or ppt)	Toxic Equivalency Factor (TEF)	TEF Conc (ng/L or ppt)
PCB 77	0.0000	0.0001	0.00E+000
PCB 81	0.0000	0.0003	0.00E+000
PCB 126	0.0097	0.1	9.72E-004
PCB 169	0.0000	0.03	0.00E+000

Mono-ortho Substituted PCBs

PCB 105	0.1150	0.00003	3.45E-006
PCB 114	0.0000	0.00003	0.00E+000
PCB 118	0.2210	0.00003	6.63E-006
PCB 123	0.0000	0.00003	0.00E+000
PCB 156	0.0503	0.00003	1.51E-006
PCB 157	0.0000	0.00003	0.00E+000
PCB 167	0.0150	0.00003	4.50E-007
PCB 189	0.0000	0.00003	0.00E+000

PCB total **9.84E-004**

CDD/CDF/PCB Total **9.84E-004**

6) PCBs Concentrations

C[PCB] = Taken from SGS Analysis (ng/L or ppt)

Analyte	Conc. (ng/L or ppt)
PCB 1	0.0089
PCB 2	0.0000
PCB 3	0.0000
PCB 4	0.0000
PCB 5	0.0000
PCB 6	0.0000
PCB 7	0.0000
PCB 8	0.0152
PCB 9	0.0000
PCB 10	0.0000
PCB 11	0.0473
PCB 12	0.0000
PCB 13	0.0000
PCB 14	0.0000
PCB 15	0.0000
PCB 16	0.0137
PCB 17	0.0183
PCB 18	0.0341
PCB 19	0.0000
PCB 20	0.0409
PCB 21	0.0178
PCB 22	0.0163
PCB 23	0.0000
PCB 24	0.0000
PCB 25	0.0051
PCB 26	0.0099
PCB 27	0.0040
PCB 28	0.0000
PCB 29	0.0000
PCB 30	0.0000
PCB 31	0.0340
PCB 32	0.0104
PCB 33	0.0000
PCB 34	0.0000
PCB 35	0.0258
PCB 36	0.0000
PCB 37	0.0240
PCB 38	0.0000
PCB 39	0.0000
PCB 40	0.0351
PCB 41	0.0071

Calculations (cont.)

PCB 42	0.0155
PCB 43	0.0000
PCB 44	0.0887
PCB 45	0.0252
PCB 46	0.0064
PCB 47	0.0000
PCB 48	0.0000
PCB 49	0.0409
PCB 50	0.0000
PCB 51	0.0000
PCB 52	0.0756
PCB 53	0.0000
PCB 54	0.0000
PCB 55	0.0000
PCB 56	0.0330
PCB 57	0.0000
PCB 58	0.0000
PCB 59	0.0000
PCB 60	0.0116
PCB 61	0.1230
PCB 62	0.0000
PCB 63	0.0000
PCB 64	0.0296
PCB 65	0.0000
PCB 66	0.0648
PCB 67	0.0000
PCB 68	0.0000
PCB 69	0.0000
PCB 70	0.0000
PCB 71	0.0000
PCB 72	0.0000
PCB 73	0.0000
PCB 74	0.0000
PCB 75	0.0000
PCB 76	0.0000
PCB 77	0.0000
PCB 78	0.0000
PCB 79	0.0083
PCB 80	0.0000
PCB 81	0.0000
PCB 82	0.0497
PCB 83	0.0147
PCB 84	0.0637
PCB 85	0.0454
PCB 86	0.1920
PCB 87	0.0000
PCB 88	0.0264

Calculations (cont.)

PCB 89	0.0000
PCB 90	0.1910
PCB 91	0.0000
PCB 92	0.0327
PCB 93	0.0000
PCB 94	0.0021
PCB 95	0.1120
PCB 96	0.0000
PCB 97	0.0000
PCB 98	0.0000
PCB 99	0.0877
PCB 100	0.0000
PCB 101	0.0000
PCB 102	0.0000
PCB 103	0.0000
PCB 104	0.0000
PCB 105	0.1150
PCB 106	0.0000
PCB 107	0.0000
PCB 108	0.0000
PCB 109	0.0197
PCB 110	0.3410
PCB 111	0.0000
PCB 112	0.0000
PCB 113	0.0000
PCB 114	0.0000
PCB 115	0.0000
PCB 116	0.0000
PCB 117	0.0000
PCB 118	0.2210
PCB 119	0.0000
PCB 120	0.0000
PCB 121	0.0000
PCB 122	0.0000
PCB 123	0.0000
PCB 124	0.0000
PCB 125	0.0000
PCB 126	0.0097
PCB 127	0.0000
PCB 128	0.0704
PCB 129	0.4300
PCB 130	0.0316
PCB 131	0.0000
PCB 132	0.1560
PCB 133	0.0000
PCB 134	0.0000
PCB 135	0.0964

Calculations (cont.)

PCB 136	0.0396
PCB 137	0.0000
PCB 138	0.0000
PCB 139	0.0000
PCB 140	0.0000
PCB 141	0.0709
PCB 142	0.0000
PCB 143	0.0000
PCB 144	0.0149
PCB 145	0.0000
PCB 146	0.0524
PCB 147	0.2550
PCB 148	0.0000
PCB 149	0.0000
PCB 150	0.0000
PCB 151	0.0000
PCB 152	0.0000
PCB 153	0.2790
PCB 154	0.0049
PCB 155	0.0000
PCB 156	0.0503
PCB 157	0.0000
PCB 158	0.0430
PCB 159	0.0000
PCB 160	0.0000
PCB 161	0.0000
PCB 162	0.0000
PCB 163	0.0000
PCB 164	0.0308
PCB 165	0.0000
PCB 166	0.0000
PCB 167	0.0150
PCB 168	0.0000
PCB 169	0.0000
PCB 170	0.0849
PCB 171	0.0381
PCB 172	0.0214
PCB 173	0.0000
PCB 174	0.1100
PCB 175	0.0000
PCB 176	0.0000
PCB 177	0.0701
PCB 178	0.0214
PCB 179	0.0445
PCB 180	0.2020
PCB 181	0.0000
PCB 182	0.0000

Calculations (cont.)

PCB 183	0.0888
PCB 184	0.0000
PCB 185	0.0000
PCB 186	0.0000
PCB 187	0.0973
PCB 188	0.0000
PCB 189	0.0000
PCB 190	0.0188
PCB 191	0.0000
PCB 192	0.0000
PCB 193	0.0000
PCB 194	0.0275
PCB 195	0.0160
PCB 196	0.0299
PCB 197	0.0000
PCB 198	0.0000
PCB 199	0.0000
PCB 200	0.0000
PCB 201	0.0105
PCB 202	0.0000
PCB 203	0.0000
PCB 204	0.0000
PCB 205	0.0000
PCB 206	0.0226
PCB 207	0.0056
PCB 208	0.0107
PCB 209	0.0558
Total PCBs	5.03

7) Trace metal concentrations

C[M] = From SGS analysis (reported as mg/L or ppm)

Element		Sample Conc. (mg/L or ppm)
Arsenic		0
Barium		0
Cadmium		0
Chromium		0
Cobalt		0
Copper		0
Lead		0
Manganese		0
Nickel		0
Selenium		0
Silver		0
Zinc		0
Mercury	<	2.85E-004

Calculations (cont.)

8) PAH Concentrations

C[PAH] = From SGS analysis (reported as ug/L or ppb)

PAH Analyte	Conc. (ug/L or ppb)
Acenaphthene	0.00000
Acenaphthylene	0.00000
Anthracene	0.00000
Benzo(a)anthracene	0.00000
Benzo(a)pyrene	0.00000
Benzo(b)fluoranthene	0.00000
Benzo(g,h,i)perylene	0.00000
Benzo(k)fluoranthene	0.00000
Bis(2-ethylhexyl)phthalate	3.05000
Chrysene	0.00000
Dibenzo(a,h)anthracene	0.00000
Di-n-octylphthalate	0.00000
Fluoranthene	18.50000
Fluorene	0.00000
Indeno(1,2,3-c,d)pyrene	0.00000
1-Methylnaphthalene	0.00000
2-Methylnaphthalene	0.00000
Naphthalene	0.00000
Phenanthrene	0.25400
Pyrene	0.00000
Total PAHs	21.80

9) Total Hydrocarbon concentrations

C[THC] dry basis = C[THC] wet/(1-Bws)
C[VOC] dry basis = C[THC] - C[CH4]
Corr. C[CH4] = ((20.9-O2% corr. value)/(20.9-actual avg. O2% value))*VOC value
E[VOC] = (C[VOC]*Mol Wt[VOC equivalent]*60(min/hr)*Qstd(dscfm))/(Molar Vol. air*10^6)
E[VOC grams/BHP-hr] = (VOC (lb/hr) * 453.6 (grams/lb))/ BHP
E[VOC lb/MMBtu] = Cd * Fd * (20.9/(20.9-actual O2%))

INPUT	C[THC] =	1.5	ppmVw		
	C[THC] =	2.5	ppmVd		
INPUT	C[CH4] =	0.0	ppmVd		
	C[VOC] =	2.5	ppmVd		
	C[VOC] =	1.7	ppmVd correcte	7	% O2

Appendix C

Laboratory Data

G733-3

Condensate water

Cement Lock
Phase 3

Results for Metals

Client Sample ID:	RUN1 METALS	Analyzed By:	PSW
Client Project ID:	Cement Lock 3033	Date Collected:	5/16/07 0:00
Lab Sample ID:	G733-3-3	Date Received:	5/19/07
Lab Project ID:	G733-3	Matrix:	WATER
Batch ID:	8207		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.000285	1	MG/L	7470	5/22/07

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: [illegible]
MET_LIMS_4.2

Results for Metals

Client Sample ID:	RUN2 METALS	Analyzed By:	PSW
Client Project ID:	Cement Lock 3033	Date Collected:	5/16/07 0:00
Lab Sample ID:	G733-3-4	Date Received:	5/19/07
Lab Project ID:	G733-3	Matrix:	WATER
Batch ID:	8207		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.000285	1	MG/L	7470	5/22/07

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: RMW
MET_LIMS_4.2

Results for Metals

Client Sample ID:	Water Blank Metals, Diox, PAH	Analyzed By:	PSW
Client Project ID:	Cement Lock 3033	Date Collected:	5/17/07 0:00
Lab Sample ID:	G733-3-5	Date Received:	5/19/07
Lab Project ID:	G733-3	Matrix:	WATER
Batch ID:	8207		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.000285	1	MG/L	7470	5/22/07

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: [signature]
MET_LIMS_4.2

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: 8270 Sample One
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-6B
Lab Project ID: G733-3

Analyzed By: EAW
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Date Extracted: 5/22/2007
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.500	0.133	1	5/26/2007	
Acenaphthylene	BQL	0.500	0.121	1	5/26/2007	
Anthracene	BQL	0.500	0.0556	1	5/26/2007	
Benzo[a]anthracene	BQL	0.500	0.0209	1	5/26/2007	
Benzo[a]pyrene	BQL	0.500	0.0435	1	5/26/2007	
Benzo[b]fluoranthene	BQL	0.500	0.0912	1	5/26/2007	
Benzo[g,h,i]perylene	BQL	0.500	0.0918	1	5/26/2007	
Benzo[k]fluoranthene	BQL	0.500	0.0894	1	5/26/2007	
Bis(2-ethylhexyl) phthalate	**5.00** J	0.500	0.0711	1	5/26/2007	
Chrysene	**0.0971**	0.500	0.0711	1	5/26/2007	J
Dibenzo[a,h]anthracene	BQL	0.500	0.0741	1	5/26/2007	
Di-n-octylphthalate	BQL	0.500	0.0847	1	5/26/2007	
Fluoranthene	**0.188** J	0.500	0.0847	1	5/26/2007	J
Fluorene	BQL	0.500	0.126	1	5/26/2007	
Indeno(1,2,3-c,d)pyrene	BQL	0.500	0.121	1	5/26/2007	
1-Methylnaphthalene	BQL	0.500	0.148	1	5/26/2007	
2-Methylnaphthalene	BQL	0.500	0.135	1	5/26/2007	
Naphthalene	BQL	0.500	0.146	1	5/26/2007	
Phenanthrene	**0.105** J	0.500	0.0972	1	5/26/2007	J
Pyrene	**0.184** J	0.500	0.0554	1	5/26/2007	J

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1000	610	61
4-Terphenyl-d14	1000	958	96

HVE
18 June 07

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: RW

8270_sim.xls

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: 8270 Sample Two
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-7B
Lab Project ID: G733-3

Analyzed By: EAW
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Date Extracted: 5/22/2007
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL UJ	0.500	0.133	1	5/26/2007	
Acenaphthylene	BQL UJ	0.500	0.121	1	5/26/2007	
Anthracene	BQL	0.500	0.0556	1	5/26/2007	
Benzo[a]anthracene	BQL	0.500	0.0209	1	5/26/2007	
Benzo[a]pyrene	BQL	0.500	0.0435	1	5/26/2007	
Benzo[b]fluoranthene	BQL	0.500	0.0912	1	5/26/2007	
Benzo[g,h,i]perylene	BQL	0.500	0.0918	1	5/26/2007	
Benzo[k]fluoranthene	BQL	0.500	0.0894	1	5/26/2007	
Bis(2-ethylhexyl) phthalate	3.05 J	0.500	0.0711	1	5/26/2007	
Chrysene	BQL	0.500	0.0711	1	5/26/2007	
Dibenzo[a,h]anthracene	BQL	0.500	0.0741	1	5/26/2007	
Di-n-octylphthalate	BQL	0.500	0.0847	1	5/26/2007	
Fluoranthene	18.5 J	0.500	0.0847	1	5/26/2007	
Fluorene	BQL UJ	0.500	0.126	1	5/26/2007	
Indeno(1,2,3-c,d)pyrene	BQL	0.500	0.121	1	5/26/2007	
1-Methylnaphthalene	BQL	0.500	0.148	1	5/26/2007	
2-Methylnaphthalene	BQL	0.500	0.135	1	5/26/2007	
Naphthalene	BQL	0.500	0.146	1	5/26/2007	
Phenanthrene	0.254 J	0.500	0.0972	1	5/26/2007	J
Pyrene	BQL	0.500	0.0554	1	5/26/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1000	589	59
4-Terphenyl-d14	1000	834	83

Comments: HUG

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

18 Jun 07

Reviewed By: [illegible]

8270_sim.xls

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: Water Blank Metals, Diox, PAH
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-5F
Lab Project ID: G733-3

Analyzed By: EAW
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Date Extracted: 5/22/2007
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.556	0.147	1	5/26/2007	
Acenaphthylene	BQL	0.556	0.134	1	5/26/2007	
Anthracene	BQL	0.556	0.0618	1	5/26/2007	
Benzo[a]anthracene	BQL	0.556	0.0232	1	5/26/2007	
Benzo[a]pyrene	BQL	0.556	0.0483	1	5/26/2007	
Benzo[b]fluoranthene	BQL	0.556	0.101	1	5/26/2007	
Benzo[g,h,i]perylene	BQL	0.556	0.102	1	5/26/2007	
Benzo[k]fluoranthene	BQL	0.556	0.0993	1	5/26/2007	
Bis(2-ethylhexyl) phthalate	**0.0867** J	0.556	0.0790	1	5/26/2007	J
Chrysene	BQL	0.556	0.0790	1	5/26/2007	
Dibenzo[a,h]anthracene	BQL	0.556	0.0824	1	5/26/2007	
Di-n-octylphthalate	BQL	0.556	0.0941	1	5/26/2007	
Fluoranthene	BQL	0.556	0.0941	1	5/26/2007	
Fluorene	BQL	0.556	0.140	1	5/26/2007	
Indeno(1,2,3-c,d)pyrene	BQL	0.556	0.135	1	5/26/2007	
1-Methylnaphthalene	BQL	0.556	0.165	1	5/26/2007	
2-Methylnaphthalene	BQL	0.556	0.150	1	5/26/2007	
Naphthalene	BQL	0.556	0.163	1	5/26/2007	
Phenanthrene	BQL	0.556	0.108	1	5/26/2007	
Pyrene	BQL	0.556	0.0616	1	5/26/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1000	929	93
4-Terphenyl-d14	1000	1070	107

Comments: HVE

Flags: 18 ~~[illegible]~~ are φ7

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: [illegible]

8270_sim.xls

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: DRO Sample One
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-10
Lab Project ID: G733-3

Analyzed By: BWS
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Matrix: Water

Analyte	Result MG/L	RL MG/L	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	**0.873**	0.500	3510	1	05/30/07

Comments:

Flags:

Reviewed By: _____

Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID: DRO Sample Two
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-11
Lab Project ID: G733-3

Analyzed By: BWS
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Matrix: Water

Analyte	Result MG/L	RL MG/L	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	1.48	0.500	3510	1	05/30/07

Comments:

Flags:

Reviewed By: [signature]

Results for Total Petroleum Hydrocarbons
by GC/FID 8015

Client Sample ID: RUN1 DIOX
Client Project ID: Cement Lock 3033
Lab Sample ID: G733-3-1
Lab Project ID: G733-3

Analyzed By: RSB
Date Collected: 5/17/2007 0:00
Date Received: 5/19/2007
Matrix: Water

Analyte	Result MG/L	RL MG/L	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	0.500	5030	1	05/23/07

Comments:

Flags:

Reviewed By: TPH.XLS

PCB Congener Results by Method 1668A | EPA FORM 1 | SGS Environmental Services

Client Project ID: Cement Lock 3033

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Client Sample ID
8082 Sample One

Laboratory Information			Sample Information		
Lab Project ID:	G733-3		Matrix:	Water	
Lab Sample ID:	G733-3-8B		Amount:	978	mL
Dilution factor:	1		pH:	5	
Collection Date/Time:	17-May-07		Solids/Basis:	NA	/ NA
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14282 / 14282	
Extraction Date:	03-Jun-07		Filename:	b08jun07e-6	
Analysis Date/Time:	08-Jun-07	22:40	ConCal:	b08jun07e-1	
			RRT Std:	b08jun07e-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT #	Ratio #	Qualifier
1	2 -MoCB		76.8	4.97	6:43	3.05	
2	3 -MoCB		258	6.24	8:07	3.52	B
3	4 -MoCB		131 U	5.91	8:15	3.18	B
4	2,2' -DiCB		179	13.0	8:24	1.58	
5	2,3 -DiCB		36.7	12.7	10:25	1.74	
6	2,3' -DiCB		105	8.84	10:10	1.63	
7	2,4 -DiCB		22.6	9.49	9:59	1.43	
8	2,4' -DiCB		257	7.54	10:30	1.65	
9	2,5 -DiCB		45.0	12.7	9:52	1.63	
10	2,6 -DiCB		10.0 U	9.21	8:33	1.24 #	J K
11	3,3' -DiCB		2170	11.2	12:32	1.63	
12	3,4 -DiCB	C	215	10.3	12:47	1.69	
13	3,4' -DiCB	C12					
14	3,5 -DiCB		ND U	10.9			U
15	4,4' -DiCB		391	12.7	13:04	1.66	
16	2,2',3 -TrCB		240	2.45	13:02	1.10	
17	2,2',4 -TrCB		385	3.30	12:38	1.09	
18	2,2',5 -TrCB	C	715	2.84	12:16	1.10	
19	2,2',6 -TrCB		149	3.77	10:45	1.16	
20	2,3,3' -TrCB	C	1420	2.33	15:54	1.08	
21	2,3,4 -TrCB	C	584	2.13	16:08	1.05	
22	2,3,4' -TrCB		465	2.41	16:32	1.05	
23	2,3,5 -TrCB		ND U	2.05			U
24	2,3,6 -TrCB		22.4	2.62	12:55	1.17	
25	2,3',4 -TrCB		160	1.70	15:18	1.10	
26	2,3',5 -TrCB	C	279	2.30	15:04	1.02	
27	2,3',6 -TrCB		104 U	2.65	12:48	1.22 #	K
28	2,4,4' -TrCB	C20					
29	2,4,5 -TrCB	C26					
30	2,4,6 -TrCB	C18					
31	2,4',5 -TrCB		1120	2.19	15:35	1.07	
32	2,4',6 -TrCB		308	2.18	13:29	1.10	
33	2,3',4' -TrCB	C21					
34	2,3',5' -TrCB		12.7	2.73	14:37	0.97	
35	3,3',4 -TrCB		147	11.2	19:41	1.18	
36	3,3',5 -TrCB		ND U	11.0			U
37	3,4,4' -TrCB		483	12.1	20:09	1.05	
38	3,4,5 -TrCB		ND U	10.4			U
39	3,4',5 -TrCB		18.2	9.28	18:34	1.09	
40	2,2',3,3' -TeCB	C	986	4.19	19:58	0.81	
41	2,2',3,4 -TeCB		115 U	6.65	19:50	0.90 #	K
42	2,2',3,4' -TeCB		492	3.87	19:25	0.84	
43	2,2',3,5 -TeCB		70.4	4.54	18:02	0.77	
44	2,2',3,5' -TeCB	C	2340	4.35	18:51	0.80	

HVE
08 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033
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SGS Environmental Services

Client Sample ID
8082 Sample One

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT #	Ratio #	Qualifier
45	2,2',3,6 -TeCB	C	673	4.20	16:02	0.81	
46	2,2',3,6' -TeCB		138 Y	3.91	16:18	0.90 #	K
47	2,2',4,4' -TeCB	C44					
48	2,2',4,5 -TeCB		390	4.63	18:36	0.78	
49	2,2',4,5' -TeCB	C	1410	4.25	18:17	0.79	
50	2,2',4,6 -TeCB	C	342	3.77	15:20	0.78	
51	2,2',4,6' -TeCB	C45					
52	2,2',5,5' -TeCB		2270	5.09	17:45	0.79	
53	2,2',5,6' -TeCB	C50					
54	2,2',6,6' -TeCB		37.6	2.25	13:21	0.69	
55	2,3,3',4 -TeCB		44.3	5.14	23:50	0.71	
56	2,3,3',4' -TeCB		662	5.37	24:28	0.79	
57	2,3,3',5 -TeCB		11.7 Y	5.69	22:00	0.89 #	K
58	2,3,3',5' -TeCB		9.10 Y	5.00	22:19	0.53 #	J K
59	2,3,3',6 -TeCB	C	219	3.61	19:12	0.82	
60	2,3,4,4' -TeCB		166	4.94	24:45	0.83	
61	2,3,4,5 -TeCB	C	2490	5.22	23:16	0.79	
62	2,3,4,6 -TeCB	C59					
63	2,3,4',5 -TeCB		72.5 Y	5.72	22:51	0.92 #	K
64	2,3,4',6 -TeCB		745	3.24	20:13	0.80	
65	2,3,5,6 -TeCB	C44					
66	2,3',4,4' -TeCB		1530	5.61	23:39	0.80	
67	2,3',4,5 -TeCB		79.9	4.41	22:31	0.81	
68	2,3',4,5' -TeCB		21.2	4.88	21:32	0.78	
69	2,3',4,6 -TeCB	C49					
70	2,3',4',5 -TeCB	C61					
71	2,3',4',6 -TeCB	C40					
72	2,3',5,5' -TeCB		27.9 Y	5.42	21:11	0.90 #	K
73	2,3',5',6 -TeCB		46.7	3.48	17:55	0.87	
74	2,4,4',5 -TeCB	C61					
75	2,4,4',6 -TeCB	C59					
76	2,3',4',5' -TeCB	C61					
77	3,3',4,4' -TeCB		182	6.44	29:17	0.84	
78	3,3',4,5 -TeCB		ND Y	5.80			U
79	3,3',4,5' -TeCB		24.2	4.61	27:14	0.80	
80	3,3',5,5' -TeCB		ND Y	4.96			U
81	3,4,4',5 -TeCB		ND Y	5.81			U
82	2,2',3,3',4 -PeCB		216	2.26	28:49	1.48	
83	2,2',3,3',5 -PeCB		116	2.22	26:25	1.54	
84	2,2',3,3',6 -PeCB		522	1.89	23:29	1.59	
85	2,2',3,4,4' -PeCB	C	321	1.59	28:11	1.67	
86	2,2',3,4,5 -PeCB	C	1260	1.59	27:18	1.56	
87	2,2',3,4,5' -PeCB	C86					
88	2,2',3,4,6 -PeCB	C	434	1.80	23:14	1.60	
89	2,2',3,4,6' -PeCB		40.8	1.95	24:05	1.54	
90	2,2',3,4',5 -PeCB	C	2000	1.62	25:51	1.55	
91	2,2',3,4',6 -PeCB	C88					
92	2,2',3,5,5' -PeCB		401	1.90	25:05	1.54	
93	2,2',3,5,6 -PeCB	C	173	1.77	22:27	1.52	
94	2,2',3,5,6' -PeCB		43.8	1.63	21:39	1.43	
95	2,2',3,5',6 -PeCB		1520	1.71	22:10	1.57	
96	2,2',3,6,6' -PeCB		43.0	1.97	19:12	1.52	
97	2,2',3,4',5' -PeCB	C86					
98	2,2',3,4',6' -PeCB	C	183	1.59	22:38	1.73	
99	2,2',4,4',5 -PeCB		1070	1.59	26:35	1.56	

WVG
18 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033
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SGS Environmental Services

Client Sample ID
8082 Sample One

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT #	Ratio #	Qualifier
100	2,2',4,4',6 -PeCB	C93					
101	2,2',4,5,5' -PeCB	C90					
102	2,2',4,5,6' -PeCB	C98					
103	2,2',4,5',6 -PeCB		67.9	1.67	21:24	1.50	
104	2,2',4,6,6' -PeCB		22.7	1.52	18:49	1.77	
105	2,3,3',4,4' -PeCB		420	3.07	34:12	1.66	
106	2,3,3',4,5 -PeCB		34.3	2.87	32:06	1.53	
107	2,3,3',4',5 -PeCB	C	60.1	3.05	31:35	1.43	
108	2,3,3',4,5' -PeCB	C86					
109	2,3,3',4,6 -PeCB		127	2.77	31:55	1.68	
110	2,3,3',4',6 -PeCB	C	1880	1.38	28:25	1.59	
111	2,3,3',5,5' -PeCB		ND U	1.35			U
112	2,3,3',5,6 -PeCB		37.1	1.30	26:44	1.73	
113	2,3,3',5',6 -PeCB	C90					
114	2,3,4,4',5 -PeCB		21.6	2.94	33:17	1.66	
115	2,3,4,4',6 -PeCB	C110					
116	2,3,4,5,6 -PeCB	C85					
117	2,3,4',5,6 -PeCB	C85					
118	2,3',4,4',5 -PeCB		1220	2.88	32:33	1.61	
119	2,3',4,4',6 -PeCB	C86					
120	2,3',4,5,5' -PeCB		17.7 U	1.42	30:02	1.96 #	K
121	2,3',4,5',6 -PeCB		3.76 U	1.33	24:39	1.19 #	J K
122	2,3,3',4',5' -PeCB		24.6	3.34	33:01	1.39	
123	2,3',4,4',5' -PeCB		30.9	2.85	32:06	1.53	
124	2,3',4',5,5' -PeCB	C107					
125	2,3',4',5',6 -PeCB	C86					
126	3,3',4,4',5 -PeCB		10.4 U	3.26	38:43	2.62 #	K
127	3,3',4,5,5' -PeCB		ND U	3.33			U
128	2,2',3,3',4,4' -HxCB	C	170	6.31	38:53	1.27	
129	2,2',3,3',4,5 -HxCB	C	1490	6.91	37:03	1.28	
130	2,2',3,3',4,5' -HxCB		109	8.63	36:06	1.20	
131	2,2',3,3',4,6 -HxCB		27.3	7.75	32:03	1.12	
132	2,2',3,3',4,6' -HxCB		516	7.09	32:41	1.29	
133	2,2',3,3',5,5' -HxCB		36.3	7.34	33:27	1.06	
134	2,2',3,3',5,6 -HxCB		109	8.59	31:14	1.11	
135	2,2',3,3',5,6' -HxCB	C	662	4.30	29:41	1.29	
136	2,2',3,3',6,6' -HxCB		251	3.14	28:28	1.29	
137	2,2',3,4,4',5 -HxCB		ND U	7.17			U
138	2,2',3,4,4',5' -HxCB	C129					
139	2,2',3,4,4',6 -HxCB	C	39.6	6.39	31:47	1.35	
140	2,2',3,4,4',6' -HxCB	C139					
141	2,2',3,4,5,5' -HxCB		296	7.74	35:32	1.32	
142	2,2',3,4,5,6 -HxCB		ND U	7.62			U
143	2,2',3,4,5,6' -HxCB		ND U	6.56			U
144	2,2',3,4,5',6 -HxCB		89.8	4.30	30:27	1.16	
145	2,2',3,4,6,6' -HxCB		ND U	3.19			U
146	2,2',3,4',5,5' -HxCB		307	6.62	34:23	1.29	
147	2,2',3,4',5,6 -HxCB	C	1580	6.26	30:57	1.24	
148	2,2',3,4',5,6' -HxCB		13.4	4.50	28:54	1.27	
149	2,2',3,4',5',6 -HxCB	C147					
150	2,2',3,4',6,6' -HxCB		16.7	2.80	26:01	1.31	
151	2,2',3,5,5',6 -HxCB	C135					
152	2,2',3,5,6,6' -HxCB		ND U	3.10			U
153	2,2',4,4',5,5' -HxCB	C	1530	5.99	35:16	1.25	
154	2,2',4,4',5,6' -HxCB		84.4	3.75	30:03	1.08	

HVE
18Jun07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033

SGS Environmental Services

Client Sample ID
8082 Sample One

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		100	2.31	25:36		1.25		
156	2,3,3',4,4',5 -HxCB	C	117	6.61	43:15		1.30		
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		135	5.09	37:38		1.37		
159	2,3,3',4,5,5' -HxCB		23.7	5.80	40:21		1.18		
160	2,3,3',4,5,6 -HxCB		ND U	5.79					U
161	2,3,3',4,5',6 -HxCB		ND U	5.79					U
162	2,3,3',4',5,5' -HxCB		14.8 U	5.47	40:47		2.05	#	K
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		123	6.12	36:37		1.21		
165	2,3,3',5,5',6 -HxCB		ND U	5.93					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		52.6	5.25	41:34		1.13		
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND U	5.88					U
170	2,2',3,3',4,4',5 -HpCB		298	4.02	47:23		1.12		
171	2,2',3,3',4,4',6 -HpCB	C	148	4.26	41:56		1.18		
172	2,2',3,3',4,5,5' -HpCB		85.5	4.22	44:27		1.03		
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		531	3.90	40:20		1.05		
175	2,2',3,3',4,5',6 -HpCB		30.0 U	4.69	38:41		1.40	#	K
176	2,2',3,3',4,6,6' -HpCB		88.8	3.74	35:02		1.04		
177	2,2',3,3',4,5',6' -HpCB		340	4.39	40:59		1.16		
178	2,2',3,3',5,5',6 -HpCB		129	4.99	37:45		1.16		
179	2,2',3,3',5,6,6' -HpCB		307	3.68	33:46		1.08		
180	2,2',3,4,4',5,5' -HpCB	C	880	3.33	45:28		1.08		
181	2,2',3,4,4',5,6 -HpCB		4.58 J	3.75	41:37		1.04		J
182	2,2',3,4,4',5,6' -HpCB		ND U	4.85					U
183	2,2',3,4,4',5',6 -HpCB	C	375	3.69	40:01		1.08		
184	2,2',3,4,4',6,6' -HpCB		3.74 U	3.34	34:35		0.59	#	J K
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND U	3.57					U
187	2,2',3,4',5,5',6 -HpCB		585	3.56	39:06		1.05		
188	2,2',3,4',5,6,6' -HpCB		6.11 U	2.99	33:20		1.27	#	J K
189	2,3,3',4,4',5,5' -HpCB		8.47 J	2.37	52:18		0.92		J
190	2,3,3',4,4',5,6 -HpCB		59.1	3.01	48:12		1.05		
191	2,3,3',4,4',5',6 -HpCB		17.2	3.03	46:01		1.00		
192	2,3,3',4,5,5',6 -HpCB		ND U	2.75					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		100	3.48	65:39		0.85		
195	2,2',3,3',4,4',5,6 -OcCB		49.7	4.39	51:54		0.99		
196	2,2',3,3',4,4',5,6' -OcCB		92.9	3.37	49:34		0.84		
197	2,2',3,3',4,4',6,6' -OcCB	C	47.5	2.69	44:06		0.98		
198	2,2',3,3',4,5,5',6 -OcCB	C	222	3.42	48:33		0.96		
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		50.6 U	2.92	42:39		0.75	#	K
202	2,2',3,3',5,5',6,6' -OcCB		57.1	2.25	41:13		0.97		
203	2,2',3,4,4',5,5',6 -OcCB		111	3.01	49:53		0.92		
204	2,2',3,4,4',5,6,6' -OcCB		ND U	2.82					U
205	2,3,3',4,4',5,5',6 -OcCB		5.21 U	3.17	56:25		0.74	#	J K
206	2,2',3,3',4,4',5,5',6 -NoCB		48.2	3.87	59:13		0.78		
207	2,2',3,3',4,4',5,6,6' -NoCB		14.6 U	3.49	53:03		0.89	#	K
208	2,2',3,3',4,5,5',6,6' -NoCB		34.0	3.18	51:35		0.77		
209	2,2',3,3',4,4',5,5',6,6' -DeCB		62.6	3.34	61:49		1.04		

Analyzed By: LMP
Date: 12Jun07

HVE
18 Jun 07

Reviewed By: [illegible]
Date: 4/4/07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033
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EPA FORM 2

SGS Environmental Services

Client Sample ID
8082 Sample One

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		2.00	1.54	77.0	6:43	3.19	
3L	13C-4 -MoCB		2.00	1.64	81.8	8:14	3.08	
					(25-150%)			
4L	13C-2,2' -DICB		2.00	1.26	62.9	8:24	1.54	
15L	13C-4,4' -DICB		2.00	1.65	82.3	13:03	1.57	
19L	13C-2,2',6 -TrCB		2.00	1.36	68.1	10:44	1.03	
37L	13C-3,4,4' -TrCB		2.00	2.16	108	20:08	1.06	
54L	13C-2,2',6,6' -TeCB		2.00	1.51	75.4	13:20	0.81	
77L	13C-3,3',4,4' -TeCB		2.00	2.25	112	29:16	0.78	
81L	13C-3,4,4',5 -TeCB		2.00	2.26	113	28:31	0.79	
104L	13C-2,2',4,6,6' -PeCB		2.00	1.50	74.9	18:47	1.55	
105L	13C-2,3,3',4,4' -PeCB		2.00	1.94	97.1	34:10	1.63	
114L	13C-2,3,4,4',5 -PeCB		2.00	1.99	99.4	33:15	1.61	
118L	13C-2,3',4,4',5 -PeCB		2.00	1.92	95.8	32:31	1.65	
123L	13C-2,3',4,4',5' -PeCB		2.00	2.00	100	32:04	1.59	
126L	13C-3,3',4,4',5 -PeCB		2.00	2.16	108	38:40	1.59	
155L	13C-2,2',4,4',6,6' -HxCB		2.00	1.48	74.2	25:34	1.25	
156L	13C-2,3,3',4,4',5 -HxCB	C	4.00	4.17	104	43:15	1.28	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		2.00	2.02	101	41:32	1.27	
169L	13C-3,3',4,4',5,5' -HxCB		2.00	2.11	106	48:15	1.25	
188L	13C-2,2',3,4',5,6,6' -HpCB		2.00	1.13	56.7	33:18	1.03	
189L	13C-2,3,3',4,4',5,5' -HpCB		2.00	1.64	82.0	52:16	1.05	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		2.00	1.34	67.1	41:11	0.92	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		2.00	1.70	85.0	56:23	0.92	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		2.00	1.61	80.7	59:12	0.80	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		2.00	1.55	77.4	51:33	0.81	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		2.00	1.42	71.2	61:47	1.24	
Cleanup Standards					(30-135%)			
28L	13C-2,4,4' -TrCB		2.00	1.95	97.6	15:52	1.09	
111L	13C-2,3,3',5,5' -PeCB		2.00	2.05	103	29:23	1.60	
178L	13C-2,2',3,3',5,5',6 -HpCB		2.00	1.96	98.1	37:43	1.03	
Injection Standards								
9L	13C-2,5 -DICB		2.00			9:51	1.56	
52L	13C-2,2',5,5' -TeCB		2.00			17:44	0.78	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:49	1.56	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:01	1.23	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:38	0.90	

Analyzed By: HMP

Date: 12Jun07

Reviewed By: [illegible]

Date: 6/15/07

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Client Sample ID
8082 Sample Two

Laboratory Information			Sample Information		
Lab Project ID:	G733-3		Matrix:	Water	
Lab Sample ID:	G733-3-9B		Amount:	967	mL
Dilution factor:	1		pH:	4	
Collection Date/Time:	17-May-07		Solids/Basis:	NA	/ NA
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14282 / 14282	
Extraction Date:	03-Jun-07		Filename:	b08jun07e-7	
Analysis Date/Time:	08-Jun-07	23:44	ConCal:	b08jun07e-1	
			RRT Std:	b08jun07e-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT #	Ratio #	Qualifier
1	2 -MoCB		8.85 J	4.26	6:48	3.40	J
2	3 -MoCB		37.2 U	5.51	8:10	3.40	B
3	4 -MoCB		21.9 U	5.37	8:18	3.48	B
4	2,2' -DiCB		ND U	10.0			U
5	2,3 -DiCB		ND	15.7			U
6	2,3' -DiCB		ND	11.0			U
7	2,4 -DiCB		ND U	11.8			U
8	2,4' -DiCB		15.2	9.34	10:33	1.59	
9	2,5 -DiCB		ND U	15.7			U
10	2,6 -DiCB		ND U	7.44			U
11	3,3' -DiCB		47.3	13.9	12:34	1.57	
12	3,4 -DiCB	C	ND U	12.8			U
13	3,4' -DiCB	C12					
14	3,5 -DiCB		ND U	13.5			U
15	4,4' -DiCB		ND U	16.1			U
16	2,2',3 -TrCB		13.7	2.71	13:04	1.12	
17	2,2',4 -TrCB		18.3	3.65	12:40	0.98	
18	2,2',5 -TrCB	C	34.1	3.15	12:19	1.03	
19	2,2',6 -TrCB		10.4 U	3.94	10:48	0.79 #	K
20	2,3,3' -TrCB	C	40.9	2.58	15:56	1.13	
21	2,3,4 -TrCB	C	17.8 J	2.36	16:10	1.13	J
22	2,3,4' -TrCB		16.3	2.67	16:33	0.97	
23	2,3,5 -TrCB		ND U	2.26			U
24	2,3,6 -TrCB		ND U	2.90			U
25	2,3',4 -TrCB		5.11 J	1.88	15:20	1.12	J
26	2,3',5 -TrCB	C	9.93 J	2.55	15:06	1.10	J
27	2,3',6 -TrCB		3.97 J	2.93	12:51	1.05	J
28	2,4,4' -TrCB	C20					
29	2,4,5 -TrCB	C26					
30	2,4,6 -TrCB	C18					
31	2,4',5 -TrCB		34.0	2.42	15:37	0.91	
32	2,4',6 -TrCB		10.4	2.41	13:32	0.97	
33	2,3',4' -TrCB	C21					
34	2,3',5' -TrCB		ND U	3.02			U
35	3,3',4 -TrCB		25.8	6.59	19:43	1.10	
36	3,3',5 -TrCB		ND U	6.46			U
37	3,4,4' -TrCB		24.0	7.38	20:11	0.95	
38	3,4,5 -TrCB		ND U	6.07			U
39	3,4',5 -TrCB		ND U	5.44			U
40	2,2',3,3' -TeCB	C	35.1	4.18	20:00	0.88	
41	2,2',3,4 -TeCB		7.07 J	6.62	19:51	0.84	J
42	2,2',3,4' -TeCB		15.5	3.85	19:26	0.81	
43	2,2',3,5 -TeCB		ND U	4.52			U
44	2,2',3,5' -TeCB	C	88.7	4.34	18:52	0.88	

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PCB Congener Results by Method 1668A
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Client Sample ID
8082 Sample Two

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT	#	Ratio	#	Qualifier
45	2,2',3,6 -TeCB	C	25.2	5.19	16:04		0.85		
46	2,2',3,6' -TeCB		6.35 J	4.83	16:20		0.77		J
47	2,2',4,4' -TeCB	C44							
48	2,2',4,5 -TeCB		9.95 U	4.61	18:38		1.50	#	J K
49	2,2',4,5' -TeCB	C	40.9	4.23	18:19		0.77		
50	2,2',4,6 -TeCB	C	12.3 U	4.65	15:21		0.69	#	J K
51	2,2',4,6' -TeCB	C45							
52	2,2',5,5' -TeCB		75.6	5.07	17:47		0.81		
53	2,2',5,6' -TeCB	C50							
54	2,2',6,6' -TeCB		3.37 U	2.46	13:24		1.31	#	J K
55	2,3,3',4 -TeCB		2.87 U	2.60	23:53		0.50	#	J K
56	2,3,3',4' -TeCB		33.0	2.71	24:29		0.85		
57	2,3,3',5 -TeCB		ND U	2.87					U
58	2,3,3',5' -TeCB		ND U	2.53					U
59	2,3,3',6 -TeCB	C	6.49 U	3.59	19:13		1.76	#	J K
60	2,3,4,4' -TeCB		11.6	2.49	24:46		0.69		
61	2,3,4,5 -TeCB	C	123	2.64	23:16		0.83		
62	2,3,4,6 -TeCB	C59							
63	2,3,4',5 -TeCB		3.31 U	2.89	22:49		0.33	#	J K
64	2,3,4',6 -TeCB		29.6	3.22	20:14		0.78		
65	2,3,5,6 -TeCB	C44							
66	2,3',4,4' -TeCB		64.8	2.84	23:40		0.80		
67	2,3',4,5 -TeCB		ND U	2.23					U
68	2,3',4,5' -TeCB		2.67 U	2.47	21:35		0.47	#	J K
69	2,3',4,6 -TeCB	C49							
70	2,3',4',6 -TeCB	C61							
71	2,3',4',6 -TeCB	C40							
72	2,3',5,5' -TeCB		ND U	2.74					U
73	2,3',5',6 -TeCB		ND U	3.47					U
74	2,4,4',5 -TeCB	C61							
75	2,4,4',6 -TeCB	C59							
76	2,3',4',5' -TeCB	C61							
77	3,3',4,4' -TeCB		31.6 U	3.49	29:19		0.95	#	K
78	3,3',4,5 -TeCB		ND U	2.93					U
79	3,3',4,5' -TeCB		8.31 J	2.33	27:16		0.84		J
80	3,3',5,5' -TeCB		ND U	2.50					U
81	3,4,4',5 -TeCB		ND U	2.94					U
82	2,2',3,3',4 -PeCB		49.7	2.40	28:51		1.32		
83	2,2',3,3',5 -PeCB		14.7	2.36	26:26		1.46		
84	2,2',3,3',6 -PeCB		63.7	2.01	23:31		1.68		
85	2,2',3,4,4' -PeCB	C	45.4	1.69	28:11		1.62		
86	2,2',3,4,5 -PeCB	C	192	1.69	27:20		1.54		
87	2,2',3,4,5' -PeCB	C86							
88	2,2',3,4,6 -PeCB	C	26.4	1.92	23:15		1.57		
89	2,2',3,4,6' -PeCB		3.76 U	2.07	24:07		1.05	#	J K
90	2,2',3,4',5 -PeCB	C	191	1.72	25:52		1.56		
91	2,2',3,4',6 -PeCB	C88							
92	2,2',3,5,5' -PeCB		32.7	2.02	25:06		1.74		
93	2,2',3,5,6 -PeCB	C	10.9 U	1.88	22:28		0.97	#	J K
94	2,2',3,5,6' -PeCB		2.07 J	1.73	21:39		1.32		J
95	2,2',3,5',6 -PeCB		112	1.82	22:12		1.58		
96	2,2',3,6,6' -PeCB		ND U	1.49					U
97	2,2',3,4',5' -PeCB	C86							
98	2,2',3,4',6' -PeCB	C	9.02 U	1.69	22:38		1.23	#	J K
99	2,2',4,4',5 -PeCB		87.7	1.69	26:37		1.53		

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Client Sample ID
8082 Sample Two

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT #	Ratio #	Qualifier
100	2,2',4,4',6 -PeCB	C93					
101	2,2',4,5,5' -PeCB	C90					
102	2,2',4,5,6' -PeCB	C98					
103	2,2',4,5',6 -PeCB		ND U	1.78			U
104	2,2',4,6,6' -PeCB		2.50 U	1.09	18:48	0.42 #	J K
105	2,3,3',4,4' -PeCB		115	2.63	34:13	1.56	
106	2,3,3',4,5 -PeCB		ND U	2.33			U
107	2,3,3',4',5 -PeCB	C	9.64 U	2.47	31:36	1.05 #	J K
108	2,3,3',4,5' -PeCB	C86					
109	2,3,3',4,6 -PeCB		19.7	2.25	31:57	1.78	
110	2,3,3',4',6 -PeCB	C	341	1.46	28:26	1.52	
111	2,3,3',5,5' -PeCB		ND U	1.44			U
112	2,3,3',5,6 -PeCB		ND U	1.38			U
113	2,3,3',5',6 -PeCB	C90					
114	2,3,4,4',5 -PeCB		6.04 U	2.51	33:18	2.59 #	J K
115	2,3,4,4',6 -PeCB	C110					
116	2,3,4,5,6 -PeCB	C85					
117	2,3,4',5,6 -PeCB	C85					
118	2,3',4,4',5 -PeCB		221	2.29	32:34	1.57	
119	2,3',4,4',6 -PeCB	C86					
120	2,3',4,5,5' -PeCB		1.59 U	1.51	30:03	3.03 #	J K
121	2,3',4,5',6 -PeCB		ND	1.41			U
122	2,3,3',4',5' -PeCB		ND	2.71			U
123	2,3',4,4',5' -PeCB		ND U	2.32			U
124	2,3',4',5,5' -PeCB	C107					
125	2,3',4',5',6 -PeCB	C86					
126	3,3',4,4',5 -PeCB		9.72 J	2.86	38:43	1.59	J
127	3,3',4,5,5' -PeCB		ND U	2.70			U
128	2,2',3,3',4,4' -HxCB	C	70.4	11.0	38:54	1.15	
129	2,2',3,3',4,5 -HxCB	C	430	12.1	37:04	1.36	
130	2,2',3,3',4,5' -HxCB		31.6	15.1	36:08	1.31	
131	2,2',3,3',4,6 -HxCB		ND U	13.5			U
132	2,2',3,3',4,6' -HxCB		156	12.4	32:42	1.30	
133	2,2',3,3',5,5' -HxCB		ND U	12.8			U
134	2,2',3,3',5,6 -HxCB		28.3 U	15.0	31:14	0.95 #	K
135	2,2',3,3',5,6' -HxCB	C	96.4	3.69	29:43	1.22	
136	2,2',3,3',6,6' -HxCB		39.6	2.69	26:29	1.16	
137	2,2',3,4,4',5 -HxCB		ND U	12.5			U
138	2,2',3,4,4',5' -HxCB	C129					
139	2,2',3,4,4',6 -HxCB	C	ND U	11.2			U
140	2,2',3,4,4',6' -HxCB	C139					
141	2,2',3,4,5,5' -HxCB		70.9	13.5	35:33	1.13	
142	2,2',3,4,5,6 -HxCB		ND U	13.3			U
143	2,2',3,4,5,6' -HxCB		ND U	11.4			U
144	2,2',3,4,5',6 -HxCB		14.9	3.68	30:29	1.38	
145	2,2',3,4,6,6' -HxCB		ND U	2.73			U
146	2,2',3,4',5,5' -HxCB		52.4	11.6	34:24	1.18	
147	2,2',3,4',5,6 -HxCB	C	255	10.9	30:58	1.26	
148	2,2',3,4',5,6' -HxCB		ND U	3.86			U
149	2,2',3,4',5',6 -HxCB	C147					
150	2,2',3,4',6,6' -HxCB		ND U	2.40			U
151	2,2',3,5,5',6 -HxCB	C135					
152	2,2',3,5,6,6' -HxCB		ND U	2.66			U
153	2,2',4,4',5,5' -HxCB	C	279	10.4	35:18	1.29	
154	2,2',4,4',5,6' -HxCB		4.88 J	3.21	30:05	1.09	J

HUG
18 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033

SGS Environmental Services

Client Sample ID
8082 Sample Two

No.	Analyte Structure -LOC	CARP	Amount (pg/L)	EDL (pg/L)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		ND 4	2.09					U
156	2,3,3',4,4',5 -HxCB	C	50.3	7.81	43:17		1.07		
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		43.0	8.89	37:39		1.37		
159	2,3,3',4,5,5' -HxCB		ND 4	6.68					U
160	2,3,3',4,5,6 -HxCB		ND	10.1					U
161	2,3,3',4,5',6 -HxCB		ND	10.1					U
162	2,3,3',4',5,5' -HxCB		ND 4	6.30					U
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		30.8	10.7	36:39		1.21		
165	2,3,3',5,5',6 -HxCB		ND 4	10.3					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		15.0	5.97	41:35		1.11		
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND 4	6.34					U
170	2,2',3,3',4,4',5 -HpCB		84.9	3.70	47:25		1.10		
171	2,2',3,3',4,4',6 -HpCB	C	38.1	3.92	41:58		1.08		
172	2,2',3,3',4,5,5' -HpCB		21.4	3.88	44:30		1.07		
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		110	3.58	40:22		0.99		
175	2,2',3,3',4,5',6 -HpCB		5.38 4	3.89	38:45		2.36	#	J K
176	2,2',3,3',4,6,6' -HpCB		17.4 4	3.10	35:04		1.28	#	K
177	2,2',3,3',4,5',6' -HpCB		70.1	4.04	41:00		1.07		
178	2,2',3,3',5,5',6 -HpCB		21.4	4.14	37:46		0.96		
179	2,2',3,3',5,6,6' -HpCB		44.5	3.05	33:47		1.02		
180	2,2',3,4,4',5,5' -HpCB	C	202	3.07	45:30		1.11		
181	2,2',3,4,4',5,6 -HpCB		ND 4	3.45					U
182	2,2',3,4,4',5,6' -HpCB		ND 4	4.02					U
183	2,2',3,4,4',5',6 -HpCB	C	88.8	3.40	40:03		1.13		
184	2,2',3,4,4',6,6' -HpCB		ND 4	2.76					U
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND 4	2.96					U
187	2,2',3,4',5,5',6 -HpCB		97.3	2.95	39:08		1.02		
188	2,2',3,4',5,6,6' -HpCB		ND 4	2.49					U
189	2,3,3',4,4',5,5' -HpCB		ND 4	3.25					U
190	2,3,3',4,4',5,6 -HpCB		18.8	2.77	48:14		1.16		
191	2,3,3',4,4',5',6 -HpCB		5.01 4	2.79	46:03		0.71	#	J K
192	2,3,3',4,5,5',6 -HpCB		ND 4	2.53					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		27.5	5.71	55:42		0.82		
195	2,2',3,3',4,4',5,6 -OcCB		16.0	7.21	51:56		0.78		
196	2,2',3,3',4,4',5,6' -OcCB		28.9	4.57	49:36		0.83		
197	2,2',3,3',4,4',6,6' -OcCB	C	11.5 4	3.65	44:08		1.38	#	J K
198	2,2',3,3',4,5,5',6 -OcCB	C	ND 4	4.65					U
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		10.5	3.97	42:40		0.81		
202	2,2',3,3',5,5',6,6' -OcCB		13.5 4	3.25	41:15		0.69	#	K
203	2,2',3,4,4',5,5',6 -OcCB		32.5	4.09	49:55		0.70	#	K
204	2,2',3,4,4',5,6,6' -OcCB		ND	3.84					U
205	2,3,3',4,4',5,5',6 -OcCB		ND 4	4.89					U
206	2,2',3,3',4,4',5,5',6 -NoCB		22.6	3.51	59:16		0.67		
207	2,2',3,3',4,4',5,6,6' -NoCB		5.58 J	3.31	53:05		0.75		J
208	2,2',3,3',4,5,5',6,6' -NoCB		10.7	3.16	51:38		0.87		
209	2,2',3,3',4,4',5,5',6,6' -DeCB		55.8	3.28	61:51		1.05		

Analyzed By: LMP 12 Jun 07 18 Jun 07 Reviewed By: [illegible]

Date: 12 Jun 07 Date: 4/6/07

PCB Congener Results by Method 1668A
Client Project ID: Cement Lock 3033
Page 1 of 1

EPA FORM 2

SGS Environmental Services

Client Sample ID
8082 Sample Two

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		2.00	1.62	81.0	6:48	3.17	
3L	13C-4 -MoCB		2.00	1.64	82.1	8:18	3.18	
					(25-150%)			
4L	13C-2,2' -DiCB		2.00	1.35	67.3	8:28	1.58	
15L	13C-4,4' -DiCB		2.00	1.64	82.1	13:06	1.56	
19L	13C-2,2',6 -TrCB		2.00	1.42	71.2	10:47	1.06	
37L	13C-3,4,4' -TrCB		2.00	2.19	110	20:09	1.07	
54L	13C-2,2',6,6' -TeCB		2.00	1.64	82.1	13:23	0.78	
77L	13C-3,3',4,4' -TeCB		2.00	2.29	115	29:17	0.82	
81L	13C-3,4,4',5 -TeCB		2.00	2.41	120	28:32	0.78	
104L	13C-2,2',4,6,6' -PeCB		2.00	1.66	83.0	18:49	1.59	
105L	13C-2,3,3',4,4' -PeCB		2.00	2.12	106	34:11	1.58	
114L	13C-2,3,4,4',5 -PeCB		2.00	2.15	108	33:17	1.61	
118L	13C-2,3',4,4',5 -PeCB		2.00	2.14	107	32:33	1.63	
123L	13C-2,3',4,4',5' -PeCB		2.00	2.20	110	32:05	1.63	
126L	13C-3,3',4,4',5 -PeCB		2.00	2.21	111	38:41	1.63	
155L	13C-2,2',4,4',6,6' -HxCB		2.00	1.64	82.0	25:34	1.20	
156L	13C-2,3,3',4,4',5 -HxCB	C	4.00	4.28	107	43:16	1.27	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		2.00	2.14	107	41:34	1.35	
169L	13C-3,3',4,4',5,5' -HxCB		2.00	2.23	111	48:17	1.28	
188L	13C-2,2',3,4',5,6,6' -HpCB		2.00	1.37	68.4	33:19	1.04	
189L	13C-2,3,3',4,4',5,5' -HpCB		2.00	1.84	92.0	52:18	1.10	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		2.00	1.46	73.1	41:12	0.93	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		2.00	1.81	90.5	56:25	0.92	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		2.00	1.65	82.7	59:15	0.75	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		2.00	1.64	82.2	51:35	0.78	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		2.00	1.46	73.2	61:50	1.20	
Cleanup Standards					(30-135%)			
28L	13C-2,4,4' -TrCB		2.00	1.94	97.2	15:55	1.07	
111L	13C-2,3,3',5,5' -PeCB		2.00	2.07	104	29:24	1.60	
178L	13C-2,2',3,3',5,5',6 -HpCB		2.00	2.03	102	37:44	1.09	
Injection Standards								
9L	13C-2,5 -DiCB		2.00			9:54	1.54	
52L	13C-2,2',5,5' -TeCB		2.00			17:46	0.81	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:50	1.62	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:02	1.24	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:41	0.87	

Analyzed By: HMP
Date: 12Jun07

Reviewed By: [illegible]
Date: 6/13/07

Method 8290
Water Blank Metals, Diox, PAH
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND U	0.00488				
1,2,3,7,8-PeCDD	EMPC	0.0119	0.00444	33:55	1.26 *	A
1,2,3,4,7,8-HxCDD	EMPC	0.0119	0.00305	36:28	1.56 *	A
1,2,3,6,7,8-HxCDD	EMPC	0.0119	0.00305	36:33	0.97 *	A
1,2,3,7,8,9-HxCDD	EMPC	0.0119	0.00286	36:46	1.01 *	A
1,2,3,4,6,7,8-HpCDD	ND	0.0119				
OCDD	EMPC	0.0239	0.00988	43:57	1.08 *	A
2,3,7,8-TCDF	ND	0.00386				
1,2,3,7,8-PeCDF	EMPC	0.0119	0.00453	33:07	1.31 *	A
2,3,4,7,8-PeCDF	0.00363 U			33:43	1.51	A
1,2,3,4,7,8-HxCDF	EMPC	0.0119	0.00372	35:46	1.50 *	A
1,2,3,6,7,8-HxCDF	EMPC	0.0119	0.00315	35:52	1.58 *	A
2,3,4,6,7,8-HxCDF	EMPC	0.0119	0.00282	36:21	1.59 *	A
1,2,3,7,8,9-HxCDF	ND	0.0119				
1,2,3,4,6,7,8-HpCDF	0.00597 U			38:34	0.91	A
1,2,3,4,7,8,9-HpCDF	ND U	0.0119				
OCDF	0.0125 U			44:13	0.91	A
Total TCDDs	ND U	0.00488	0.0289			
Total PeCDDs	ND U	0.0119	0.00444			
Total HxCDDs	0.00897 U					
Total HpCDDs	ND U	0.0119				
Total TCDFs	ND U	0.00386	0.00415			
Total PeCDFs	0.00363 U		0.00816			
Total HxCDFs	0.00282 U		0.00969			
Total HpCDFs	0.00597 U					
WHO-2005 TEQ (ND=0)	0.00115		0.00760			
WHO-2005 TEQ (ND=½)	0.0142		0.0109			

HJE 19 Jun 07

Client Information			**Sample Information**	
Project Name:	Cement Lock 3033			
			Matrix:	Water
Sample ID:	Water Blank Metals, Diox, PAH		Weight / Volume:	419 mL
			Solids / Lipids:	NA %
			Original pH :	5
Laboratory Information			Batch ID:	WG14275
Project ID:	G733-3		Instrument:	HRMS1
Sample ID:	G733-3-5G		Filename:	a30may07b_2-11
Collection Date/Time:	05/17/07		Retchk:	a30may07b-15
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a30may07b-15
Extraction Date:	05/29/07		End ConCal:	a30may07b_2-14
Analysis Date/Time:	05/31/07	7:02	Initial Cal:	m8290-071006e

Method 8290
Water Blank Metals, Diox, PAH
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	2.0	1.66	83.1	30:57	0.78	
13C12-1,2,3,7,8-PeCDD	2.0	1.78	89.0	33:55	1.58	
13C12-1,2,3,6,7,8-HxCDD	2.0	1.90	94.8	36:31	1.26	
13C12-1,2,3,4,6,7,8-HpCDD	2.0	1.82	91.1	39:46	1.05	
13C12-OCDD	4.0	3.24	81.1	43:57	0.89	
13C12-2,3,7,8-TCDF	2.0	2.12	106	30:07	0.79	
13C12-1,2,3,7,8-PeCDF	2.0	1.86	93.0	33:07	1.58	
13C12-1,2,3,6,7,8-HxCDF	2.0	1.87	93.5	35:52	0.52	
13C12-1,2,3,4,6,7,8-HpCDF	2.0	1.86	92.9	38:34	0.44	
Cleanup Standards						
37Cl4-2,3,7,8-TCDD	0.4	0.375	93.7	30:58	-	
13C12-2,3,4,7,8-PeCDF	0.4	0.392	98.1	33:43	1.58	
13C12-1,2,3,4,7,8-HxCDD	0.4	0.333	83.3	36:27	1.25	
13C12-1,2,3,4,7,8-HxCDF	0.4	0.367	91.9	35:46	0.51	
13C12-1,2,3,4,7,8,9-HpCDF	0.4	0.381	95.2	40:25	0.44	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	30:18	0.79	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:46	1.26	

Client Information			**Sample Information**	
Project Name:	Cement Lock 3033			
			Matrix:	Water
Sample ID:	Water Blank Metals, Diox, PAH		Weight / Volume:	419 mL
			Solids / Lipids:	NA %
			Original pH :	5
Laboratory Information			Batch ID:	WG14275
Project ID:	G733-3		Instrument:	HRMS1
Sample ID:	G733-3-5G		Filename:	a30may07b_2-11
Collection Date/Time:	05/17/07		Retchk:	a30may07b-15
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a30may07b-15
Extraction Date:	05/29/07		End ConCal:	a30may07b_2-14
Analysis Date/Time:	05/31/07	7:02	Initial Cal:	m8290-071006e

Form Version:[8290_DB_2.14]Report

Analyzed by: JMP
Date: 06-06-07

Reviewed by: CW
Date: 4/4/07

SPG No. 733-4

Air Samples

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: Inlet Run 1-EPA 23 MM5-SVOC
Client Project ID: 3033Cement Lok
Lab Sample ID: G733-4-34B
Lab Project ID: G733-4

Analyzed By: EAW
Date Collected: 5/17/2007
Date Received: 5/19/2007
Date Extracted: 6/12/2007
Matrix: Air

Compound	Result ng/train	Quantitation Limit ng/train	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	169 J	200	133	1	6/18/2007	J
Acenaphthylene	BQL UJ	200	121	1	6/18/2007	
Anthracene	63.8 J	200	55.6	1	6/18/2007	J
Benzo[a]anthracene	359	200	20.9	1	6/18/2007	
Benzo[a]pyrene	~~448~~ ~~bt~~	200 UJ	43.5	1	6/18/2007	J
Benzo[b]fluoranthene	396 J	200	91.2	1	6/18/2007	
Benzo[g,h,i]perylene	249	200	91.8	1	6/18/2007	
Benzo[k]fluoranthene	BQL	200	89.4	1	6/18/2007	
Bis(2-ethylhexyl)phthalate	5970	200	1.33	1	6/18/2007	
Chrysene	BQL	200	71.1	1	6/18/2007	
Dibenzo[a,h]anthracene	BQL	200	74.1	1	6/18/2007	
Di-n-octylphthalate	485 J	200	1.16	1	6/18/2007	
Fluoranthene	400	200	84.7	1	6/18/2007	
Fluorene	223	200	126	1	6/18/2007	
Indeno(1,2,3-c,d)pyrene	331	200	121	1	6/18/2007	
1-Methylnaphthalene	BQL	200	148	1	6/18/2007	
2-Methylnaphthalene	BQL	200	135	1	6/18/2007	
Naphthalene	2330 U	200	146	1	6/18/2007	
Phenanthrene	357	200	97.2	1	6/18/2007	
Pyrene	BQL	200	55.4	1	6/18/2007	

		Spike Added (mg)	Spike Result (mg)	Percent Recovered
2-Fluorobiphenyl (Surrogate Standard)		10000	6044.2	60.4
4-Terphenyl-d14 (Sampling Standard)	HOE	10000	1436.2	14.4

Comments: 27 Jan 07

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: lm

8270_LIMS_V1.04_sim in air.xls

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: Inlet Run 2-EPA 23 MM5-SVOC
Client Project ID: 3033Cement Lok
Lab Sample ID: G733-4-39B
Lab Project ID: G733-4

Analyzed By: EAW
Date Collected: 5/18/2007
Date Received: 5/19/2007
Date Extracted: 6/12/2007
Matrix: Air

Compound	Result ng/train	Quantitation Limit ng/train	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	200	133	1	6/18/2007	
Acenaphthylene	BQL	200 ND	121	1	6/18/2007	
Anthracene	BQL	200 ND	55.6	1	6/18/2007	
Benzo[a]anthracene	183 J	200	20.9	1	6/18/2007	J
Benzo[a]pyrene	~~94.1~~ J	200 4J	43.5	1	6/18/2007	J
Benzo[b]fluoranthene	BQL	200	91.2	1	6/18/2007	
Benzo[g,h,i]perylene	BQL	200	91.8	1	6/18/2007	
Benzo[k]fluoranthene	BQL	200	89.4	1	6/18/2007	
Bis(2-ethylhexyl)phthalate	10600	200	1.33	1	6/18/2007	
Chrysene	BQL	200	71.1	1	6/18/2007	
Dibenzo[a,h]anthracene	BQL	200	74.1	1	6/18/2007	
Di-n-octylphthalate	576 J	200	1.16	1	6/18/2007	
Fluoranthene	131 J	200	84.7	1	6/18/2007	J
Fluorene	132 J	200	126	1	6/18/2007	J
Indeno(1,2,3-c,d)pyrene	BQL	200	121	1	6/18/2007	
1-Methylnaphthalene	BQL	200	148	1	6/18/2007	
2-Methylnaphthalene	BQL	200	135	1	6/18/2007	
Naphthalene	2290 4	200	146	1	6/18/2007	
Phenanthrene	263	200	97.2	1	6/18/2007	
Pyrene	BQL	200	55.4	1	6/18/2007	

	Spike Added (mg)	Spike Result (mg)	Percent Recovered
2-Fluorobiphenyl (Surrogate Standard) HOE	10000	5824.0	58.2
4-Terphenyl-d14 (Sampling Standard)	10000	1479.2	14.8

Comments:

27 Jan 07

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: EW

8270_LIMS_V1.94_sim in air.xls

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: Outlet Run 1-EPA 23 MM5-SVOC
Client Project ID: 3033Cement Lok
Lab Sample ID: G733-4-44B
Lab Project ID: G733-4

Analyzed By: EAW
Date Collected: 5/17/2007
Date Received: 5/19/2007
Date Extracted: 6/12/2007
Matrix: Air

Compound	Result ng/train	Quantitation Limit ng/train	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	200	133	1	6/18/2007	
Acenaphthylene	BQL	200 UJ	121	1	6/18/2007	
Anthracene	BQL	200 UJ	55.6	1	6/18/2007	
Benzo[a]anthracene	BQL	200	20.9	1	6/18/2007	
Benzo[a]pyrene	~~72.6~~	200 UJ	43.5	1	6/18/2007	J
Benzo[b]fluoranthene	BQL	200	91.2	1	6/18/2007	
Benzo[g,h,i]perylene	BQL	200	91.8	1	6/18/2007	
Benzo[k]fluoranthene	BQL	200	89.4	1	6/18/2007	
Bis(2-ethylhexyl)phthalate	**9150**	200	1.33	1	6/18/2007	
Chrysene	BQL	200	71.1	1	6/18/2007	
Dibenzo[a,h]anthracene	BQL	200	74.1	1	6/18/2007	
Di-n-octylphthalate	**304** J	200	1.16	1	6/18/2007	
Fluoranthene	**134** J	200	84.7	1	6/18/2007	J
Fluorene	**175** J	200	126	1	6/18/2007	J
Indeno(1,2,3-c,d)pyrene	BQL	200	121	1	6/18/2007	
1-Methylnaphthalene	BQL	200	148	1	6/18/2007	
2-Methylnaphthalene	BQL	200	135	1	6/18/2007	
Naphthalene	**1860** UJ	200	146	1	6/18/2007	
Phenanthrene	**356**	200	97.2	1	6/18/2007	
Pyrene	BQL	200	55.4	1	6/18/2007	

	Spike Added (mg)	Spike Result (mg)	Percent Recovered
2-Fluorobiphenyl (Surrogate Standard)	10000	5965.3	59.7
4-Terphenyl-d14 (Sampling Standard) HUG	10000	1636.1	16.4

Comments:

27 Jun 07

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: [illegible]

8270_LIMS_V1.94_slm in air.xls

Results for Semivolatiles
by GCMS 8270-SIM

Client Sample ID: Outlet Run 2-EPA 23 MM5-SVOC
Client Project ID: 3033Cement Lok
Lab Sample ID: G733-4-49B
Lab Project ID: G733-4

Analyzed By: EAW
Date Collected: 5/18/2007
Date Received: 5/19/2007
Date Extracted: 6/12/2007
Matrix: Air

Compound	Result ng/train	Quantitation Limit ng/train	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	200	133	1	6/18/2007	
Acenaphthylene	BQL	200 UJ	121	1	6/18/2007	
Anthracene	BQL	200 UJ	55.6	1	6/18/2007	
Benzo[a]anthracene	**171** J	200	20.9	1	6/18/2007	J
Benzo[a]pyrene	~~**78.2**~~	200 UJ	43.5	1	6/18/2007	J
Benzo[b]fluoranthene	BQL	200	91.2	1	6/18/2007	
Benzo[g,h,i]perylene	BQL	200	91.8	1	6/18/2007	
Benzo[k]fluoranthene	BQL	200	89.4	1	6/18/2007	
Bis(2-ethylhexyl)phthalate	**27800**	200	1.33	1	6/18/2007	
Chrysene	BQL	200	71.1	1	6/18/2007	
Dibenzo[a,h]anthracene	BQL	200	74.1	1	6/18/2007	
Di-n-octylphthalate	BQL	200 UJ	1.16	1	6/18/2007	
Fluoranthene	**140**	200	84.7	1	6/18/2007	J
Fluorene	BQL	200	126	1	6/18/2007	
Indeno(1,2,3-c,d)pyrene	BQL	200	121	1	6/18/2007	
1-Methylnaphthalene	BQL	200	148	1	6/18/2007	
2-Methylnaphthalene	BQL	200	135	1	6/18/2007	
Naphthalene	**1550** J	200	146	1	6/18/2007	
Phenanthrene	**234**	200	97.2	1	6/18/2007	
Pyrene	BQL	200	55.4	1	6/18/2007	

	Spike Added (mg)	Spike Result (mg)	Percent Recovered
2-Fluorobiphenyl (Surrogate Standard)	10000	5001.8	50.0
4-Terphenyl-d14 (Sampling Standard) HJG	10000	1521.9	15.2

Comments: 27 June

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: RW

8270_LIMS_V1.94_sim in air.xls

Results for Semivolatiles
by GCMS 8270-SIM

(Field Blank)

Client Sample ID: EPA 23 MM5-SVOC Blank
Client Project ID: 3033Cement Lok
Lab Sample ID: G733-4-53B
Lab Project ID: G733-4

Analyzed By: EAW
Date Collected: 5/17/2007
Date Received: 5/19/2007
Date Extracted: 6/12/2007
Matrix: Air

Compound	Result ng/train	Quantitation Limit ng/train	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	200	133	1	6/19/2007	
Acenaphthylene	BQL	200 U	121	1	6/19/2007	
Anthracene	BQL	200 U	55.6	1	6/19/2007	
Benzo[a]anthracene	BQL	200	20.9	1	6/19/2007	
Benzo[a]pyrene	BQL	200 U	43.5	1	6/19/2007	
Benzo[b]fluoranthene	BQL	200	91.2	1	6/19/2007	
Benzo[g,h,i]perylene	BQL	200	91.8	1	6/19/2007	
Benzo[k]fluoranthene	BQL	200	89.4	1	6/19/2007	
Bis(2-ethylhexyl)phthalate	1360	200	1.33	1	6/19/2007	
Chrysene	BQL	200	71.1	1	6/19/2007	
Dibenzo[a,h]anthracene	BQL	200	74.1	1	6/19/2007	
Di-n-octylphthalate	BQL	200 U	1.16	1	6/19/2007	
Fluoranthene	BQL	200	84.7	1	6/19/2007	
Fluorene	BQL	200	126	1	6/19/2007	
Indeno(1,2,3-c,d)pyrene	BQL	200	121	1	6/19/2007	
1-Methylnaphthalene	BQL	200	148	1	6/19/2007	
2-Methylnaphthalene	BQL	200	135	1	6/19/2007	
Naphthalene	BQL	200	146	1	6/19/2007	
Phenanthrene	BQL	200	97.2	1	6/19/2007	
Pyrene	BQL	200	55.4	1	6/19/2007	

	Spike Added (mg)	Spike Result (mg)	Percent Recovered
2-Fluorobiphenyl (Surrogate Standard)	10000	5577.0	55.8
4-Terphenyl-d14 (Sampling Standard)	10000	36.3	0.4

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: [illegible]

8270_LIMS_V1.94_sim in air.xls

PCB Congener Results by Method 1668A

EPA FORM 1

SGS Environmental Services

Client Project ID: 3033Cement Lok

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Client Sample ID
Inlet Run 1 EPA 23-Dioxin

Laboratory Information			Sample Information		
Lab Project ID:	G733-4		Matrix:	Air	
Lab Sample ID:	G733-4-6D		Amount:	1	Trap
Dilution factor:	1		pH:	NA	
Collection Date/Time:	17-May-07		Solids/Basis:	NA	/
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14291 / 14291	
Extraction Date:	07-Jun-07		Filename:	b11jun07d-6	
Analysis Date/Time:	11-Jun-07	16:45	ConCal:	b11jun07d-1	
			RRT Std:	b11jun07d-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
1	2 -MoCB		82200 J	31.5	6:54	3.31	Q
2	3 -MoCB		65800	32.2	8:15	3.34	
3	4 -MoCB		41500	25.0	8:23	3.39	
4	2,2' -DiCB		2890 J	57.1	8:34	1.60	Q
5	2,3 -DICB		1390 J	44.0	10:32	1.41	Q
6	2,3' -DICB		2040	35.0	10:17	1.71	
7	2,4 -DICB		1150	32.5	10:07	1.67	
8	2,4' -DICB		2020 J	30.2	10:38	1.68	Q
9	2,5 -DICB		1600	43.8	10:00	1.57	
10	2,6 -DICB		270	34.1	8:41	1.50	
11	3,3' -DICB		7890	38.0	12:39	1.67	B
12	3,4 -DICB	C	5260	35.0	12:54	1.67	
13	3,4' -DICB	C12					
14	3,5 -DICB		351	37.6	11:56	1.75	
15	4,4' -DICB		6220	47.6	13:11	1.64	
16	2,2',3 -TrCB		916	12.5	13:08	1.04	
17	2,2',4 -TrCB		1470	15.2	12:44	1.07	
18	2,2',5 -TrCB	C	2810	12.8	12:23	1.05	
19	2,2',6 -TrCB		298	16.9	10:51	1.08	
20	2,3,3' -TrCB	C	6670	9.95	16:00	1.07	
21	2,3,4 -TrCB	C	4020	10.1	16:13	1.04	
22	2,3,4' -TrCB		2320	10.4	16:37	1.03	B
23	2,3,5 -TrCB		192	10.2	14:53	1.05	
24	2,3,6 -TrCB		291	11.8	13:02	0.98	
25	2,3',4 -TrCB		497	8.72	15:24	0.97	
26	2,3',5 -TrCB	C	1230	10.6	15:11	1.07	
27	2,3',6 -TrCB		261	11.4	12:54	1.18	
28	2,4,4' -TrCB	C20					
29	2,4,5 -TrCB	C26					
30	2,4,6 -TrCB	C18					
31	2,4',5 -TrCB		7210	10.4	15:42	1.05	
32	2,4',6 -TrCB		986	10.5	13:36	1.02	
33	2,3',4' -TrCB	C21					
34	2,3',5' -TrCB		42.7 U	11.6	14:44	1.24 #	K
35	3,3',4 -TrCB		538	140	19:47	1.07	
36	3,3',5 -TrCB		ND U	129			U
37	3,4,4' -TrCB		3480	159	20:14	1.11	
38	3,4,5 -TrCB		179	131	19:17	0.91	
39	3,4',5 -TrCB		ND U	117			U
40	2,2',3,3' -TeCB	C	1810	195	20:02	0.81	
41	2,2',3,4 -TeCB		647	284	19:55	0.87	
42	2,2',3,4' -TeCB		1070	213	19:30	0.76	
43	2,2',3,5 -TeCB		ND U	221			U
44	2,2',3,5' -TeCB	C	5970	203	18:56	0.79	

HVE
27 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok
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SGS Environmental Services

Client Sample ID
Inlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
45	2,2',3,6 -TeCB	C	816	60.6	16:08	0.83	
46	2,2',3,6' -TeCB		252	65.5	16:25	0.77	
47	2,2',4,4' -TeCB	C44					
48	2,2',4,5 -TeCB		991	210	18:41	0.74	
49	2,2',4,5' -TeCB	C	3070	189	18:22	0.79	
50	2,2',4,6 -TeCB	C	436	58.5	15:27	0.83	
51	2,2',4,6' -TeCB	C45					
52	2,2',5,5' -TeCB		7910	229	17:51	0.81	
53	2,2',5,6' -TeCB	C50					
54	2,2',6,6' -TeCB		ND U	J 32.6			U Q
55	2,3,3',4 -TeCB		155	46.7	23:54	0.71	
56	2,3,3',4' -TeCB		1870	47.9	24:32	0.78	
57	2,3,3',5 -TeCB		ND U	49.8			U
58	2,3,3',5' -TeCB		332	49.0	22:15	0.88	
59	2,3,3',6 -TeCB	C	778	165	19:17	0.79	
60	2,3,4,4' -TeCB		1150	45.4	24:48	0.81	
61	2,3,4,5 -TeCB	C	8660	46.4	23:19	0.82	
62	2,3,4,6 -TeCB	C59					
63	2,3,4',5 -TeCB		204	46.5	22:54	0.80	
64	2,3,4',6 -TeCB		2080	157	20:18	0.81	
65	2,3,5,6 -TeCB	C44					
66	2,3',4,4' -TeCB		3620	46.8	23:42	0.80	
67	2,3',4,5 -TeCB		183	40.9	22:35	0.82	
68	2,3',4,5' -TeCB		172	43.9	21:36	0.81	
69	2,3',4,6 -TeCB	C49					
70	2,3',4',5 -TeCB	C61					
71	2,3',4',6 -TeCB	C40					
72	2,3',5,5' -TeCB		ND U	48.0			U
73	2,3',5',6 -TeCB		ND U	171			U
74	2,4,4',5 -TeCB	C61					
75	2,4,4',6 -TeCB	C59					
76	2,3',4',5' -TeCB	C61					
77	3,3',4,4' -TeCB		890	55.7	29:21	0.87	
78	3,3',4,5 -TeCB		ND U	46.6			U
79	3,3',4,5' -TeCB		95.5	40.4	27:17	0.83	
80	3,3',5,5' -TeCB		ND U	41.5			U
81	3,4,4',5 -TeCB		ND U	49.0			U
82	2,2',3,3',4 -PeCB		668	52.3	28:52	1.57	
83	2,2',3,3',5 -PeCB		657	61.6	26:27	1.50	
84	2,2',3,3',6 -PeCB		1720	53.4	23:32	1.51	
85	2,2',3,4,4' -PeCB	C	1060	38.9	28:13	1.60	
86	2,2',3,4,5 -PeCB	C	4600	40.8	27:21	1.67	
87	2,2',3,4,5' -PeCB	C86					
88	2,2',3,4,6 -PeCB	C	917	49.1	23:17	1.59	
89	2,2',3,4,6' -PeCB		71.4	54.0	24:09	1.38	
90	2,2',3,4',5 -PeCB	C	7010	41.7	25:54	1.61	
91	2,2',3,4',6 -PeCB	C88					
92	2,2',3,5,5' -PeCB		1160	49.8	25:09	1.51	
93	2,2',3,5,6 -PeCB	C	ND U	46.9			U
94	2,2',3,5,6' -PeCB		ND U	50.1			U
95	2,2',3,5',6 -PeCB		6500	54.7	22:15	1.60	
96	2,2',3,6,6' -PeCB		51.3	41.6	19:17	1.78	
97	2,2',3,4',5' -PeCB	C86					
98	2,2',3,4',6' -PeCB	C	171 U	47.0	22:41	1.81 #	K
99	2,2',4,4',5 -PeCB		2430	37.9	26:39	1.58	

HVG
22 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Inlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
100	2,2',4,4',6 -PeCB	C93							
101	2,2',4,5,5' -PeCB	C90							
102	2,2',4,5,6' -PeCB	C98							
103	2,2',4,5',6 -PeCB		46.3 U	45.8	21:29		1.15	#	K
104	2,2',4,6,6' -PeCB		ND U	28.2					U
105	2,3,3',4,4' -PeCB		1590 U	39.4	34:14		1.87	#	K
106	2,3,3',4,5 -PeCB		ND U	32.4					U
107	2,3,3',4',5 -PeCB	C	216 U	33.7	31:38		1.29	#	K
108	2,3,3',4,5' -PeCB	C86							
109	2,3,3',4,6 -PeCB		281	30.5	31:58		1.78		
110	2,3,3',4',6 -PeCB	C	5800	34.1	28:27		1.60		
111	2,3,3',5,5' -PeCB		ND U	32.7					U
112	2,3,3',5,6 -PeCB		ND U	33.8					U
113	2,3,3',5',6 -PeCB	C90							
114	2,3,4,4',5 -PeCB		114	35.1	33:19		1.77		
115	2,3,4,4',6 -PeCB	C110							
116	2,3,4,5,6 -PeCB	C85							
117	2,3,4',5,6 -PeCB	C85							
118	2,3',4,4',5 -PeCB		3810	34.3	32:36		1.63		
119	2,3',4,4',6 -PeCB	C86							
120	2,3',4,5,5' -PeCB		ND U	33.2					U
121	2,3',4,5',6 -PeCB		ND U	34.6					U
122	2,3,3',4',5' -PeCB		55.6	35.7	33:04		1.45		
123	2,3',4,4',5' -PeCB		94.6	35.0	32:10		1.33		
124	2,3',4',5,5' -PeCB	C107							
125	2,3',4',5',6 -PeCB	C86							
126	3,3',4,4',5 -PeCB		ND U	40.0					U
127	3,3',4,5,5' -PeCB		ND U	31.0					U
128	2,2',3,3',4,4' -HxCB	C	462	77.9	38:55		1.41		
129	2,2',3,3',4,5 -HxCB	C	3820	82.5	37:05		1.28		
130	2,2',3,3',4,5' -HxCB		268 U	99.4	36:08		1.56	#	K
131	2,2',3,3',4,6 -HxCB		118 U	102	32:05		0.77	#	K
132	2,2',3,3',4,6' -HxCB		1490	94.8	32:42		1.25		
133	2,2',3,3',5,5' -HxCB		ND	92.7					U
134	2,2',3,3',5,6 -HxCB		329	106	31:16		1.14		
135	2,2',3,3',5,6' -HxCB	C	1950	34.0	29:44		1.28		
136	2,2',3,3',6,6' -HxCB		960	28.3	26:30		1.37		
137	2,2',3,4,4',5 -HxCB		177	85.8	36:27		1.30		
138	2,2',3,4,4',5' -HxCB	C129							
139	2,2',3,4,4',6 -HxCB	C	85.8	85.3	31:49		1.12		
140	2,2',3,4,4',6' -HxCB	C139							
141	2,2',3,4,5,5' -HxCB		865	86.8	35:33		1.31		
142	2,2',3,4,5,6 -HxCB		ND U	99.9					U
143	2,2',3,4,5,6' -HxCB		ND U	91.8					U
144	2,2',3,4,5',6 -HxCB		326	33.8	30:30		1.41		
145	2,2',3,4,6,6' -HxCB		31.6 U	27.0	28:54		0.67	#	J K
146	2,2',3,4',5,5' -HxCB		546	80.6	34:24		1.14		
147	2,2',3,4',5,6 -HxCB	C	4480	84.4	30:59		1.27		
148	2,2',3,4',5,6' -HxCB		ND U	35.0					U
149	2,2',3,4',5',6 -HxCB	C147							
150	2,2',3,4',6,6' -HxCB		ND U	24.8					U
151	2,2',3,5,5',6 -HxCB	C135							
152	2,2',3,5,6,6' -HxCB		58.2 U	25.7	25:54		0.91	#	K
153	2,2',4,4',5,5' -HxCB	C	4080	70.7	35:18		1.24		
154	2,2',4,4',5,6' -HxCB		50.9 U	29.2	30:08		1.92	#	K

HJG
22 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Inlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		ND U	18.0					U
156	2,3,3',4,4',5 -HxCB	C	223	34.8	43:16		1.23		
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		383	59.7	37:39		1.29		
159	2,3,3',4,5,5' -HxCB		ND U	30.0					U
160	2,3,3',4,5,6 -HxCB		ND U	67.2					U
161	2,3,3',4,5',6 -HxCB		ND U	67.5					U
162	2,3,3',4',5,5' -HxCB		50.4 U	29.0	40:51		2.42	#	K
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		251	65.3	36:37		1.18		
165	2,3,3',5,5',6 -HxCB		ND U	71.0					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		85.8	30.4	41:36		1.21		
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND U	30.4					U
170	2,2',3,3',4,4',5 -HpCB		262	63.0	47:24		1.05		
171	2,2',3,3',4,4',6 -HpCB	C	167	63.9	41:57		1.18		
172	2,2',3,3',4,5,5' -HpCB		72.4 U	62.9	44:30		1.23	#	K
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		626	59.5	40:21		1.06		
175	2,2',3,3',4,5',6 -HpCB		ND U	18.4					U
176	2,2',3,3',4,6,6' -HpCB		144	15.1	36:05		0.93		
177	2,2',3,3',4,5',6' -HpCB		305	66.4	41:01		0.97		
178	2,2',3,3',5,5',6 -HpCB		155	19.0	37:47		1.16		
179	2,2',3,3',5,6,6' -HpCB		534	14.9	33:48		1.06		
180	2,2',3,4,4',5,5' -HpCB	C	836	49.8	45:30		1.02		
181	2,2',3,4,4',5,6 -HpCB		ND U	57.5					U
182	2,2',3,4,4',5,6' -HpCB		ND U	17.7					U
183	2,2',3,4,4',5',6 -HpCB	C	512	58.8	40:02		0.98		
184	2,2',3,4,4',6,6' -HpCB		ND U	13.2					U
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND U	14.5					U
187	2,2',3,4',5,5',6 -HpCB		871	16.8	39:08		1.09		
188	2,2',3,4',5,6,6' -HpCB		ND U	13.9					U
189	2,3,3',4,4',5,5' -HpCB		ND U	18.4					U
190	2,3,3',4,4',5,6 -HpCB		67.8 U	46.4	48:14		0.87	#	K
191	2,3,3',4,4',5',6 -HpCB		ND U	46.5					U
192	2,3,3',4,5,5',6 -HpCB		ND U	46.6					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		82.2 U	42.1	55:41		1.29	#	K
195	2,2',3,3',4,4',5,6 -OcCB		ND U	47.0					U
196	2,2',3,3',4,4',5,6' -OcCB		69.8	15.9	49:35		0.90		
197	2,2',3,3',4,4',6,6' -OcCB	C	56.6 U	12.3	44:06		0.73	#	J K
198	2,2',3,3',4,5,5',6 -OcCB	C	162	15.8	48:33		0.95		
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		67.8 U	13.1	42:38		0.73	#	K
202	2,2',3,3',5,5',6,6' -OcCB		94.8	12.8	41:14		0.78		
203	2,2',3,4,4',5,5',6 -OcCB		102	14.1	49:54		0.91		
204	2,2',3,4,4',5,6,6' -OcCB		ND U	13.0					U
205	2,3,3',4,4',5,5',6 -OcCB		ND U	31.2					U
206	2,2',3,3',4,4',5,5',6 -NoCB		28.8 U	12.9	59:16		0.63	#	J K
207	2,2',3,3',4,4',5,6,6' -NoCB		ND U	11.7					U
208	2,2',3,3',4,5,5',6,6' -NoCB		23.8 U	10.9	51:37		0.97	#	J K
209	2,2',3,3',4,4',5,5',6,6' -DeCB		32.5 J	16.3	61:50		1.16		J

Analyzed By: HMP 11 Jun 07 Reviewed By: [illegible]

Date: 13 Jun 07 22 Jun 07 Date: 10/12/07

PCB Congener Results by Method 1668A
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EPA FORM 2

SGS Environmental Services

Client Sample ID
Inlet Run 1 EPA 23-Dioxin

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		8.00	3.72	46.4	6:53	3.59	Q
3L	13C-4 -MoCB		8.00	5.34	66.7	8:22	3.19	
					(25-150%)			
4L	13C-2,2' -DiCB		8.00	2.80	35.0	8:33	1.53	Q
15L	13C-4,4' -DiCB		8.00	5.56	69.6	13:10	1.61	
19L	13C-2,2',6 -TrCB		8.00	4.84	60.5	10:51	1.06	
37L	13C-3,4,4' -TrCB		8.00	7.89	98.7	20:13	1.06	
54L	13C-2,2',6,6' -TeCB		8.00	4.86	60.8	13:26	0.80	Q
77L	13C-3,3',4,4' -TeCB		8.00	9.98	125	29:19	0.76	
81L	13C-3,4,4',5 -TeCB		8.00	10.6	132	28:35	0.78	
104L	13C-2,2',4,6,6' -PeCB		8.00	4.15	51.9	18:52	1.62	
105L	13C-2,3,3',4,4' -PeCB		8.00	8.29	104	34:12	1.60	
114L	13C-2,3,4,4',5 -PeCB		8.00	8.68	109	33:18	1.61	
118L	13C-2,3',4,4',5 -PeCB		8.00	8.45	106	32:33	1.61	
123L	13C-2,3',4,4',5' -PeCB		8.00	8.75	109	32:06	1.65	
126L	13C-3,3',4,4',5 -PeCB		8.00	9.54	119	38:42	1.65	
155L	13C-2,2',4,4',6,6' -HxCB		8.00	4.85	60.6	25:37	1.25	
156L	13C-2,3,3',4,4',5 -HxCB	C	16.0	17.8	111	43:16	1.29	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		8.00	8.70	109	41:33	1.29	
169L	13C-3,3',4,4',5,5' -HxCB		8.00	9.66	121	48:17	1.30	
188L	13C-2,2',3,4',5,6,6' -HpCB		8.00	3.88	48.5	33:19	1.06	
189L	13C-2,3,3',4,4',5,5' -HpCB		8.00	6.56	82.0	52:18	1.09	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		8.00	4.42	55.2	41:12	0.94	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		8.00	6.77	84.6	56:24	0.95	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		8.00	5.96	74.5	59:13	0.82	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		8.00	5.44	68.0	51:35	0.78	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		8.00	4.74	59.2	61:49	1.22	
Injection Standards								
9L	13C-2,5 -DiCB		2.00			9:58	1.62	
52L	13C-2,2',5,5' -TeCB		2.00			17:50	0.79	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:53	1.63	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:02	1.27	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:40	0.89	

Analyzed By: HMP
Date: 13Jun07

Reviewed By: [illegible]
Date: 6/19/07

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Client Sample ID
Inlet Run 2 EPA 23-Dioxin

Laboratory Information			Sample Information		
Lab Project ID:	G733-4		Matrix:	Air	
Lab Sample ID:	G733-4-12D		Amount:	1	Trap
Dilution factor:	1		pH:	NA	
Collection Date/Time:	18-May-07		Solids/Basis:	NA	/
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14291 / 14291	
Extraction Date:	07-Jun-07		Filename:	b11jun07d-7	
Analysis Date/Time:	11-Jun-07	17:50	ConCal:	b11jun07d-1	
			RRT Std:	b11jun07d-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
1	2 -MoCB		56100	29.5	6:47	3.37	
2	3 -MoCB		54000	35.6	8:11	3.34	
3	4 -MoCB		37900	31.5	8:19	3.32	
4	2,2' -DICB		1520	41.1	8:29	1.57	
5	2,3 -DICB		770	39.7	10:29	1.66	
6	2,3' -DICB		1340	31.6	10:14	1.65	
7	2,4 -DICB		848	29.3	10:03	1.58	
8	2,4' -DICB		1340	27.3	10:34	1.66	
9	2,5 -DICB		1140	39.5	9:55	1.62	
10	2,6 -DICB		178	29.2	8:36	1.73	
11	3,3' -DICB		3540	34.3	12:35	1.64	B
12	3,4 -DICB	C	3110	31.6	12:52	1.58	
13	3,4' -DICB	C12					
14	3,5 -DICB		ND U	34.0			U
15	4,4' -DICB		1940	45.9	13:09	1.69	
16	2,2',3 -TrCB		276 U	27.7	13:06	1.07	
17	2,2',4 -TrCB		467 U	33.6	12:41	1.19	
18	2,2',5 -TrCB	C	887 U	28.3	12:19	1.19	
19	2,2',6 -TrCB		137 U	38.4	10:48	0.94	
20	2,3,3' -TrCB	C	1600 U	22.0	15:57	1.02	B
21	2,3,4 -TrCB	C	1130 U	22.3	16:11	1.06	
22	2,3,4' -TrCB		668 U	22.9	16:36	1.06	B
23	2,3,5 -TrCB		141 U	22.6	14:51	0.82 #	K
24	2,3,6 -TrCB		190	26.1	13:01	1.03	
25	2,3',4 -TrCB		183 U	19.3	15:21	0.85 #	K
26	2,3',5 -TrCB	C	440	23.4	15:09	1.08	
27	2,3',6 -TrCB		87.0	25.1	12:52	1.08	
28	2,4,4' -TrCB	C20					
29	2,4,5 -TrCB	C26					
30	2,4,6 -TrCB	C18					
31	2,4',5 -TrCB		2740	22.9	15:40	1.07	B
32	2,4',6 -TrCB		297 U	23.1	13:33	0.98	
33	2,3',4' -TrCB	C21					
34	2,3',5' -TrCB		ND U	25.7			U
35	3,3',4 -TrCB		194	37.4	19:45	0.96	
36	3,3',5 -TrCB		ND U	34.5			U
37	3,4,4' -TrCB		677	42.1	20:13	1.09	B
38	3,4,5 -TrCB		72.0 U	35.0	19:15	1.36 #	K
39	3,4',5 -TrCB		ND U	31.4			U
40	2,2',3,3' -TeCB	C	366 U	27.6	20:01	0.94 #	K
41	2,2',3,4 -TeCB		146	40.1	19:53	0.70	
42	2,2',3,4' -TeCB		251 U	30.1	19:28	0.77	
43	2,2',3,5 -TeCB		47.1	31.1	18:05	0.75	
44	2,2',3,5' -TeCB	C	1410	28.7	18:54	0.81	

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PCB Congener Results by Method 1668A
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Client Sample ID
Inlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	Ratio #	#	Qualifier
45	2,2',3,6 -TeCB	C	214 U	24.3	16:05	0.79		
46	2,2',3,6' -TeCB		74.5	26.3	16:22	0.87		
47	2,2',4,4' -TeCB	C44						
48	2,2',4,5 -TeCB		218	29.6	18:39	0.78		
49	2,2',4,5' -TeCB	C	639	26.7	18:20	0.74		
50	2,2',4,6 -TeCB	C	108 U	23.5	15:24	0.97	#	K
51	2,2',4,6' -TeCB	C45						
52	2,2',5,5' -TeCB		1710	32.3	17:49	0.78		
53	2,2',5,6' -TeCB	C50						
54	2,2',6,6' -TeCB		ND U	13.9				U
55	2,3,3',4 -TeCB		56.6 U	19.0	23:52	1.56	#	K
56	2,3,3',4' -TeCB		330 U	19.4	24:30	0.88		
57	2,3,3',5 -TeCB		ND U	20.2				U
58	2,3,3',5' -TeCB		ND U	19.9				U
59	2,3,3',6 -TeCB	C	342	23.2	19:15	0.73		
60	2,3,4,4' -TeCB		225 U	18.4	24:47	0.89	#	K
61	2,3,4,5 -TeCB	C	1750	18.9	23:18	0.79		
62	2,3,4,6 -TeCB	C59						
63	2,3,4',5 -TeCB		49.1 U	18.9	22:53	0.90	#	K
64	2,3,4',6 -TeCB		458	22.1	20:16	0.76		
65	2,3,5,6 -TeCB	C44						
66	2,3',4,4' -TeCB		735 U	19.0	23:40	0.89	#	K B
67	2,3',4,5 -TeCB		34.9 U	16.6	22:34	0.93	#	J K
68	2,3',4,5' -TeCB		36.6 U	17.8	21:35	0.95	#	J K
69	2,3',4,6 -TeCB	C49						
70	2,3',4',5 -TeCB	C61						
71	2,3',4',6 -TeCB	C40						
72	2,3',5,5' -TeCB		ND U	19.5				U
73	2,3',5',6 -TeCB		46.8	24.1	17:58	0.79		
74	2,4,4',5 -TeCB	C61						
75	2,4,4',6 -TeCB	C59						
76	2,3',4',5' -TeCB	C61						
77	3,3',4,4' -TeCB		142 U	21.1	29:20	1.10	#	K
78	3,3',4,5 -TeCB		ND U	18.9				U
79	3,3',4,5' -TeCB		24.8 U	16.4	27:17	1.23	#	J K
80	3,3',5,5' -TeCB		ND U	16.8				U
81	3,4,4',5 -TeCB		ND U	20.9				U
82	2,2',3,3',4 -PeCB		86.0 U	71.0	28:52	0.94	#	K
83	2,2',3,3',5 -PeCB		ND U	83.7				U
84	2,2',3,3',6 -PeCB		341 U	72.5	23:31	1.29	#	K
85	2,2',3,4,4' -PeCB	C	269	52.9	28:13	1.41		
86	2,2',3,4,5 -PeCB	C	975	55.4	27:19	1.55		
87	2,2',3,4,5' -PeCB	C86						
88	2,2',3,4,6 -PeCB	C	198 U	66.7	23:16	1.19	#	K
89	2,2',3,4,6' -PeCB		ND U	73.4				U
90	2,2',3,4',5 -PeCB	C	1220	56.7	25:54	1.72		
91	2,2',3,4',6 -PeCB	C88						
92	2,2',3,5,5' -PeCB		214	67.6	25:08	1.41		
93	2,2',3,5,6 -PeCB	C	ND U	63.8				U
94	2,2',3,5,6' -PeCB		ND U	68.1				U
95	2,2',3,5',6 -PeCB		1060	74.4	22:14	1.51		B
96	2,2',3,6,6' -PeCB		ND U	64.0				U
97	2,2',3,4',5' -PeCB	C86						
98	2,2',3,4',6' -PeCB	C	ND U	63.9				U
99	2,2',4,4',5 -PeCB		432	51.4	26:38	1.75		

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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Inlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
100	2,2',4,4',6 -PeCB	C93					
101	2,2',4,5,5' -PeCB	C90					
102	2,2',4,5,6' -PeCB	C98					
103	2,2',4,5',6 -PeCB		ND U	62.2			U
104	2,2',4,6,6' -PeCB		ND U	47.0			U
105	2,3,3',4,4' -PeCB		333 U	34.7	34:14	2.07 #	K
106	2,3,3',4,5 -PeCB		ND U	30.8			U
107	2,3,3',4',5 -PeCB	C	44.3 U	32.0	31:36	2.02 #	J K
108	2,3,3',4,5' -PeCB	C86					
109	2,3,3',4,6 -PeCB		52.8	28.9	31:58	1.33	
110	2,3,3',4',6 -PeCB	C	1090	46.4	28:27	1.54	
111	2,3,3',5,5' -PeCB		ND U	44.5			U
112	2,3,3',5,6 -PeCB		ND U	46.0			U
113	2,3,3',5',6 -PeCB	C90					
114	2,3,4,4',5 -PeCB		38.9 J	33.7	33:19	1.63	J
115	2,3,4,4',6 -PeCB	C110					
116	2,3,4,5,6 -PeCB	C85					
117	2,3,4',5,6 -PeCB	C85					
118	2,3',4,4',5 -PeCB		702	32.6	32:36	1.63	
119	2,3',4,4',6 -PeCB	C86					
120	2,3',4,5,5' -PeCB		ND U	45.0			U
121	2,3',4,5',6 -PeCB		ND U	47.0			U
122	2,3,3',4',5' -PeCB		ND U	33.9			U
123	2,3',4,4',5' -PeCB		ND U	31.0			U
124	2,3',4',5,5' -PeCB	C107					
125	2,3',4',5',6 -PeCB	C86					
126	3,3',4,4',5 -PeCB		ND U	36.7			U
127	3,3',4,5,5' -PeCB		ND U	29.4			U
128	2,2',3,3',4,4' -HxCB	C	115	66.2	38:55	1.17	
129	2,2',3,3',4,5 -HxCB	C	587	70.1	37:05	1.15	
130	2,2',3,3',4,5' -HxCB		ND U	84.5			U
131	2,2',3,3',4,6 -HxCB		ND U	86.5			U
132	2,2',3,3',4,6' -HxCB		239	80.6	32:42	1.24	
133	2,2',3,3',5,5' -HxCB		ND U	78.9			U
134	2,2',3,3',5,6 -HxCB		ND U	89.8			U
135	2,2',3,3',5,6' -HxCB	C	227	15.1	29:43	1.23	
136	2,2',3,3',6,6' -HxCB		120	12.5	26:29	1.37	
137	2,2',3,4,4',5 -HxCB		ND U	73.0			U
138	2,2',3,4,4',5' -HxCB	C129					
139	2,2',3,4,4',6 -HxCB	C	ND U	72.5			U
140	2,2',3,4,4',6' -HxCB	C139					
141	2,2',3,4,5,5' -HxCB		138	73.8	35:34	1.25	
142	2,2',3,4,5,6 -HxCB		ND U	85.0			U
143	2,2',3,4,5,6' -HxCB		ND U	78.0			U
144	2,2',3,4,5',6 -HxCB		38.2 J	14.9	30:29	1.36	J
145	2,2',3,4,6,6' -HxCB		20.2 J	12.0	26:55	0.72 #	J K
146	2,2',3,4',5,5' -HxCB		79.9 U	68.6	34:25	0.96 #	K
147	2,2',3,4',5,6 -HxCB	C	572	71.8	30:59	1.13	
148	2,2',3,4',5,6' -HxCB		ND U	15.5			U
149	2,2',3,4',5',6 -HxCB	C147					
150	2,2',3,4',6,6' -HxCB		ND U	11.0			U
151	2,2',3,5,5',6 -HxCB	C135					
152	2,2',3,5,6,6' -HxCB		21.2 U	11.4	25:53	0.59 #	J K
153	2,2',4,4',5,5' -HxCB	C	537	60.1	35:18	1.19	
154	2,2',4,4',5,6' -HxCB		ND U	12.9			U

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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Inlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		ND U	8.17					U
156	2,3,3',4,4',5 -HxCB	C	51.1 U	19.4	43:17		1.05	#	JK
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		68.2 U	50.7	37:40		1.12		
159	2,3,3',4,5,5' -HxCB		ND	15.8					U
160	2,3,3',4,5,6 -HxCB		ND	57.1					U
161	2,3,3',4,5',6 -HxCB		ND	57.4					U
162	2,3,3',4',5,5' -HxCB		ND U	15.3					U
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		ND U	55.5					U
165	2,3,3',5,5',6 -HxCB		ND U	60.4					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		24.8 J	15.0	41:34		1.22		J
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND U	15.8					U
170	2,2',3,3',4,4',5 -HpCB		47.8	32.6	47:26		0.92		
171	2,2',3,3',4,4',6 -HpCB	C	ND U	33.1					U
172	2,2',3,3',4,5,5' -HpCB		ND U	32.6					U
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		80.0 U	30.8	40:22		1.32	#	K
175	2,2',3,3',4,5',6 -HpCB		ND	18.4					U
176	2,2',3,3',4,6,6' -HpCB		15.8	15.1	35:06		0.78	#	JK
177	2,2',3,3',4,5',6' -HpCB		ND	34.4					U
178	2,2',3,3',5,5',6 -HpCB		ND	19.0					U
179	2,2',3,3',5,6,6' -HpCB		41.3 U	14.9	33:47		1.66	#	K
180	2,2',3,4,4',5,5' -HpCB	C	142	25.8	45:32		1.10		
181	2,2',3,4,4',5,6 -HpCB		ND U	29.8					U
182	2,2',3,4,4',5,6' -HpCB		ND U	17.7					U
183	2,2',3,4,4',5',6 -HpCB	C	85.9	30.4	40:06		1.05		
184	2,2',3,4,4',6,6' -HpCB		ND U	13.2					U
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND U	14.4					U
187	2,2',3,4',5,5',6 -HpCB		111	16.8	39:08		1.36	#	K
188	2,2',3,4',5,6,6' -HpCB		ND	14.6					U
189	2,3,3',4,4',5,5' -HpCB		ND	32.8					U
190	2,3,3',4,4',5,6 -HpCB		ND	24.0					U
191	2,3,3',4,4',5',6 -HpCB		ND	24.1					U
192	2,3,3',4,5,5',6 -HpCB		ND U	24.1					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		ND U	21.8					U
195	2,2',3,3',4,4',5,6 -OcCB		ND	24.3					U
196	2,2',3,3',4,4',5,6' -OcCB		ND	26.7					U
197	2,2',3,3',4,4',6,6' -OcCB	C	ND	20.7					U
198	2,2',3,3',4,5,5',6 -OcCB	C	ND U	26.6					U
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		ND U	21.9					U
202	2,2',3,3',5,5',6,6' -OcCB		ND	20.5					U
203	2,2',3,4,4',5,5',6 -OcCB		ND	23.7					U
204	2,2',3,4,4',5,6,6' -OcCB		ND	21.8					U
205	2,3,3',4,4',5,5',6 -OcCB		ND	17.0					U
206	2,2',3,3',4,4',5,5',6 -NoCB		20.6	16.6	59:14		0.63	#	JK
207	2,2',3,3',4,4',5,6,6' -NoCB		ND	15.2					U
208	2,2',3,3',4,5,5',6,6' -NoCB		ND	14.4					U
209	2,2',3,3',4,4',5,5',6,6' -DeCB		ND U	18.1					U

Analyzed By: HMP HJG Reviewed By: [illegible]
Date: 13Jun07 13 Jun 07 Date: 6/13/07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok
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EPA FORM 2

SGS Environmental Services

Client Sample ID
Inlet Run 2 EPA 23-Dioxin

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		8.00	4.31	53.9	6:46	3.07	
3L	13C-4 -MoCB		8.00	4.86	60.8	8:18	3.01	
					(25-150%)			
4L	13C-2,2' -DiCB		8.00	3.40	42.5	8:28	1.59	
15L	13C-4,4' -DiCB		8.00	5.38	67.3	13:08	1.66	
19L	13C-2,2',6 -TrCB		8.00	4.39	54.9	10:48	1.08	
37L	13C-3,4,4' -TrCB		8.00	7.56	94.5	20:11	1.02	
54L	13C-2,2',6,6' -TeCB		8.00	5.14	64.3	13:24	0.78	
77L	13C-3,3',4,4' -TeCB		8.00	9.77	122	29:19	0.77	
81L	13C-3,4,4',5 -TeCB		8.00	9.88	123	28:34	0.80	
104L	13C-2,2',4,6,6' -PeCB		8.00	4.77	59.6	18:50	1.67	
105L	13C-2,3,3',4,4' -PeCB		8.00	8.55	107	34:12	1.60	
114L	13C-2,3,4,4',5 -PeCB		8.00	8.88	111	33:18	1.61	
118L	13C-2,3',4,4',5 -PeCB		8.00	8.40	105	32:33	1.61	
123L	13C-2,3',4,4',5' -PeCB		8.00	9.07	113	32:06	1.62	
126L	13C-3,3',4,4',5 -PeCB		8.00	9.56	119	38:43	1.63	
155L	13C-2,2',4,4',6,6' -HxCB		8.00	4.87	60.9	25:36	1.29	
156L	13C-2,3,3',4,4',5 -HxCB	C	16.0	17.6	110	43:17	1.31	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		8.00	8.66	108	41:34	1.30	
169L	13C-3,3',4,4',5,5' -HxCB		8.00	9.62	120	48:18	1.29	
188L	13C-2,2',3,4',5,6,6' -HpCB		8.00	3.58	44.7	33:19	1.02	
189L	13C-2,3,3',4,4',5,5' -HpCB		8.00	6.50	81.3	52:19	1.12	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		8.00	4.05	50.6	41:13	0.87	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		8.00	6.47	80.8	56:25	0.93	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		8.00	5.57	69.6	59:14	0.83	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		8.00	5.09	63.6	51:35	0.77	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		8.00	4.65	58.1	61:49	1.22	
Injection Standards								
9L	13C-2,5 -DiCB		2.00			9:54	1.64	
52L	13C-2,2',5,5' -TeCB		2.00			17:48	0.80	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:52	1.62	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:03	1.26	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:40	0.94	

Analyzed By: HMP Reviewed By: CRB

Date: 13Jun07 Date: 4/13/07

PCB Congener Results by Method 1668A | EPA FORM 1 | SGS Environmental Services

Client Project ID: 3033Cement Lok

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Client Sample ID
Outlet Run 1 EPA 23-Dioxin

Laboratory Information			Sample Information		
Lab Project ID:	G733-4		Matrix:	Air	
Lab Sample ID:	G733-4-18D		Amount:	1	Trap
Dilution factor:	1		pH:	NA	
Collection Date/Time:	17-May-07		Solids/Basis:	NA	/
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14291 / 14291	
Extraction Date:	07-Jun-07		Filename:	b11jun07d-8	
Analysis Date/Time:	11-Jun-07	18:55	ConCal:	b11jun07d-1	
			RRT Std:	b11jun07d-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	Ratio #	#	Qualifier
1	2 -MoCB		242	35.7	6:47	3.07		Q
2	3 -MoCB		306	34.0	8:11	2.78		
3	4 -MoCB		347	24.9	8:18	2.92		
4	2,2' -DICB		780	128	8:29	1.51		Q
5	2,3 -DICB		ND U	80.6				U
6	2,3' -DICB		564	64.2	10:14	1.64		
7	2,4 -DICB		160	59.5	10:03	1.63		
8	2,4' -DICB		1990	55.5	10:34	1.70		Q
9	2,5 -DICB		272 U	80.3	9:55	0.84	#	K
10	2,6 -DICB		ND	55.2				U
11	3,3' -DICB		9080	69.7	12:37	1.64		
12	3,4 -DICB	C	1620	64.2	12:52	1.89		
13	3,4' -DICB	C12						
14	3,5 -DICB		ND	69.0				U
15	4,4' -DICB		6430	73.7	13:09	1.64		
16	2,2',3 -TrCB		1270	14.9	13:07	1.02		
17	2,2',4 -TrCB		1790	18.1	12:42	1.07		
18	2,2',5 -TrCB	C	3130	15.2	12:20	1.09		
19	2,2',6 -TrCB		267	20.2	10:50	1.09		
20	2,3,3' -TrCB	C	8820	11.8	16:00	1.04		
21	2,3,4 -TrCB	C	5070	12.0	16:13	1.06		
22	2,3,4' -TrCB		3070	12.3	16:37	1.06		
23	2,3,5 -TrCB		16.1 J	12.2	14:53	0.91		J
24	2,3,6 -TrCB		122	14.0	13:01	1.17		
25	2,3',4 -TrCB		602 U	10.4	15:22	1.20	#	K
26	2,3',5 -TrCB	C	1280	12.6	15:08	1.06		
27	2,3',6 -TrCB		303	13.5	12:53	0.89		
28	2,4,4' -TrCB	C20						
29	2,4,5 -TrCB	C26						
30	2,4,6 -TrCB	C18						
31	2,4',5 -TrCB		7510	12.3	15:41	1.07		
32	2,4',6 -TrCB		1290	12.4	13:35	1.05		
33	2,3',4' -TrCB	C21						
34	2,3',5' -TrCB		34.4 U	13.8	14:43	1.87	#	J K
35	3,3',4 -TrCB		563	58.9	19:48	1.12		
36	3,3',5 -TrCB		ND U	54.4				U
37	3,4,4' -TrCB		4160	67.3	20:15	1.13		
38	3,4,5 -TrCB		ND U	55.0				U
39	3,4',5 -TrCB		ND U	49.5				U
40	2,2',3,3' -TeCB	C	2260	43.5	20:03	0.76		
41	2,2',3,4 -TeCB		644	63.2	19:54	0.75		
42	2,2',3,4' -TeCB		1370	47.4	19:30	0.81		
43	2,2',3,5 -TeCB		190 U	49.1	18:06	0.90	#	K
44	2,2',3,5' -TeCB	C	7310	45.2	18:56	0.79		

HJC
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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok
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SGS Environmental Services

Client Sample ID
Outlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
45	2,2',3,6 -TeCB	C	979	12.8	16:06	0.73	
46	2,2',3,6' -TeCB		281	13.9	16:24	0.86	
47	2,2',4,4' -TeCB	C44					
48	2,2',4,5 -TeCB		1320	46.7	18:41	0.78	
49	2,2',4,5' -TeCB	C	3580	42.1	18:22	0.77	
50	2,2',4,6 -TeCB	C	547	12.4	15:25	0.70	
51	2,2',4,6' -TeCB	C45					
52	2,2',5,5' -TeCB		9880	50.9	17:51	0.82	
53	2,2',5,6' -TeCB	C50					
54	2,2',6,6' -TeCB		9.20 U	J 8.42	13:25	1.40 #	J K Q
55	2,3,3',4 -TeCB		185	34.3	23:55	0.72	
56	2,3,3',4' -TeCB		2300	35.1	24:33	0.83	
57	2,3,3',5 -TeCB		ND U	36.6			U
58	2,3,3',5' -TeCB		370	35.9	22:16	0.72	
59	2,3,3',6 -TeCB	C	526	36.6	19:17	0.78	
60	2,3,4,4' -TeCB		1360	33.3	24:49	0.75	
61	2,3,4,5 -TeCB	C	10300	34.1	23:20	0.80	
62	2,3,4,6 -TeCB	C59					
63	2,3,4',5 -TeCB		221	34.1	22:55	0.80	
64	2,3,4',6 -TeCB		2550	34.8	20:19	0.77	
65	2,3,5,6 -TeCB	C44					
66	2,3',4,4' -TeCB		4460	34.3	23:43	0.81	
67	2,3',4,5 -TeCB		203	30.0	22:37	0.75	
68	2,3',4,5' -TeCB		202	32.2	21:37	0.84	
69	2,3',4,6 -TeCB	C49					
70	2,3',4',5 -TeCB	C61					
71	2,3',4',6 -TeCB	C40					
72	2,3',5,5' -TeCB		38.2 J	35.2	21:17	0.88	J
73	2,3',5',6 -TeCB		219	38.0	17:59	0.80	
74	2,4,4',5 -TeCB	C61					
75	2,4,4',6 -TeCB	C59					
76	2,3',4',5' -TeCB	C61					
77	3,3',4,4' -TeCB		1080	36.5	29:22	0.82	
78	3,3',4,5 -TeCB		ND U	34.2			U
79	3,3',4,5' -TeCB		83.0 U	29.6	27:18	0.65 #	K
80	3,3',5,5' -TeCB		ND U	30.4			U
81	3,4,4',5 -TeCB		71.4	36.4	28:37	0.77	
82	2,2',3,3',4 -PeCB		815	15.9	28:53	1.72	
83	2,2',3,3',5 -PeCB		501 U	18.7	26:30	1.88 #	K
84	2,2',3,3',6 -PeCB		2080	16.2	23:33	1.55	
85	2,2',3,4,4' -PeCB	C	1220	11.8	28:15	1.44	
86	2,2',3,4,5 -PeCB	C	5810	12.4	27:22	1.56	
87	2,2',3,4,5' -PeCB	C86					
88	2,2',3,4,6 -PeCB	C	1140	14.9	23:18	1.54	
89	2,2',3,4,6' -PeCB		109 U	16.4	24:10	1.17 #	K
90	2,2',3,4',5 -PeCB	C	8740	12.6	25:56	1.52	
91	2,2',3,4',6 -PeCB	C88					
92	2,2',3,5,5' -PeCB		1460	15.1	25:10	1.56	
93	2,2',3,5,6 -PeCB	C	97.9	14.2	22:32	1.77	
94	2,2',3,5,6' -PeCB		38.0 U	15.2	21:45	2.29 #	J K
95	2,2',3,5',6 -PeCB		7920	16.6	22:16	1.55	
96	2,2',3,6,6' -PeCB		52.3 U	12.6	19:18	1.90 #	K
97	2,2',3,4',5' -PeCB	C86					
98	2,2',3,4',6' -PeCB	C	233	14.3	22:43	1.91 #	K
99	2,2',4,4',5 -PeCB		2910 U	11.5	26:41	1.63	

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22 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Outlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	Ratio	#	Qualifier
100	2,2',4,4',6 -PeCB	C93						
101	2,2',4,5,5' -PeCB	C90						
102	2,2',4,5,6' -PeCB	C98						
103	2,2',4,5',6 -PeCB		65.2	13.9	21:30	1.35		
104	2,2',4,6,6' -PeCB		ND U	10.3				U
105	2,3,3',4,4' -PeCB		1880	51.6	34:15	1.67		
106	2,3,3',4,5 -PeCB		ND U	45.7				U
107	2,3,3',4',5 -PeCB	C	243	47.6	31:40	1.73		
108	2,3,3',4,5' -PeCB	C86						
109	2,3,3',4,6 -PeCB		372 U	43.0	31:59	1.83	#	K
110	2,3,3',4',6 -PeCB	C	7500	10.4	28:29	1.62		
111	2,3,3',5,5' -PeCB		ND U	9.93				U
112	2,3,3',5,6 -PeCB		152 U	10.3	26:47	1.83	#	K
113	2,3,3',5',6 -PeCB	C90						
114	2,3,4,4',5 -PeCB		136	47.3	33:21	1.66		
115	2,3,4,4',6 -PeCB	C110						
116	2,3,4,5,6 -PeCB	C85						
117	2,3,4',5,6 -PeCB	C85						
118	2,3',4,4',5 -PeCB		5040	47.6	32:38	1.58		
119	2,3',4,4',6 -PeCB	C86						
120	2,3',4,5,5' -PeCB		ND U	10.1				U
121	2,3',4,5',6 -PeCB		ND U	10.5				U
122	2,3,3',4',5' -PeCB		79.1	50.4	33:04	1.65		
123	2,3',4,4',5' -PeCB		117	46.9	32:10	1.48		
124	2,3',4',5,5' -PeCB	C107						
125	2,3',4',5',6 -PeCB	C86						
126	3,3',4,4',5 -PeCB		ND U	53.7				U
127	3,3',4,5,5' -PeCB		ND U	43.7				U
128	2,2',3,3',4,4' -HxCB	C	557	32.0	38:56	1.42		
129	2,2',3,3',4,5 -HxCB	C	4860	33.9	37:06	1.30		
130	2,2',3,3',4,5' -HxCB		292	40.9	36:09	1.10		
131	2,2',3,3',4,6 -HxCB		97.1	41.8	32:06	1.39		
132	2,2',3,3',4,6' -HxCB		1900	39.0	32:44	1.30		
133	2,2',3,3',5,5' -HxCB		72.1 U	38.2	33:30	1.04	#	K
134	2,2',3,3',5,6 -HxCB		349	43.4	31:16	1.30		
135	2,2',3,3',5,6' -HxCB	C	2590	38.3	29:45	1.27		
136	2,2',3,3',6,6' -HxCB		1110	31.9	26:32	1.26		
137	2,2',3,4,4',5 -HxCB		257	35.3	36:29	1.16		
138	2,2',3,4,4',5' -HxCB	C129						
139	2,2',3,4,4',6 -HxCB	C	113 U	35.1	31:51	1.68	#	K
140	2,2',3,4,4',6' -HxCB	C139						
141	2,2',3,4,5,5' -HxCB		1080	35.7	35:35	1.08		
142	2,2',3,4,5,6 -HxCB		ND U	41.1				U
143	2,2',3,4,5,6' -HxCB		39.2 J	37.8	31:24	1.11		J
144	2,2',3,4,5',6 -HxCB		398	38.0	30:32	1.39		
145	2,2',3,4,6,6' -HxCB		ND U	30.5				U
146	2,2',3,4',5,5' -HxCB		668	33.2	34:26	1.21		
147	2,2',3,4',5,6 -HxCB	C	5540	34.7	31:01	1.33		
148	2,2',3,4',5,6' -HxCB		ND U	39.4				U
149	2,2',3,4',5',6 -HxCB	C147						
150	2,2',3,4',6,6' -HxCB		ND U	27.9				U
151	2,2',3,5,5',6 -HxCB	C135						
152	2,2',3,5,6,6' -HxCB		ND U	29.0				U
153	2,2',4,4',5,5' -HxCB	C	5170	29.1	35:20	1.28		
154	2,2',4,4',5,6' -HxCB		37.3 J	32.8	30:09	1.12		J

JVE
29 Jun 09

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Outlet Run 1 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		ND U	23.2					U
156	2,3,3',4,4',5 -HxCB	C	288	25.4	43:19		1.22		
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		488	24.6	37:41		1.23		
159	2,3,3',4,5,5' -HxCB		ND U	21.9					U
160	2,3,3',4,5,6 -HxCB		ND	27.6					U
161	2,3,3',4,5',6 -HxCB		ND	27.8					U
162	2,3,3',4',5,5' -HxCB		ND U	21.2					U
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		287	26.9	36:40		1.22		
165	2,3,3',5,5',6 -HxCB		ND U	29.2					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		114	21.0	41:38		1.20		
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND U	21.7					U
170	2,2',3,3',4,4',5 -HpCB		311	25.5	47:26		1.19		
171	2,2',3,3',4,4',6 -HpCB	C	197	25.8	42:00		0.94		
172	2,2',3,3',4,5,5' -HpCB		72.2	25.4	44:31		0.92		
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		754	24.0	40:23		1.09		
175	2,2',3,3',4,5',6 -HpCB		29.6 U	21.1	38:44		1.53	#	J K
176	2,2',3,3',4,6,6' -HpCB		182	17.2	35:06		1.02		
177	2,2',3,3',4,5',6' -HpCB		382	26.8	41:03		1.05		
178	2,2',3,3',5,5',6 -HpCB		170	21.8	37:48		1.02		
179	2,2',3,3',5,6,6' -HpCB		623	17.1	33:49		1.11		
180	2,2',3,4,4',5,5' -HpCB	C	1050	20.1	45:31		1.10		
181	2,2',3,4,4',5,6 -HpCB		ND U	23.2					U
182	2,2',3,4,4',5,6' -HpCB		ND U	20.2					U
183	2,2',3,4,4',5',6 -HpCB	C	680	23.7	40:06		1.11		
184	2,2',3,4,4',6,6' -HpCB		ND U	15.1					U
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND U	16.5					U
187	2,2',3,4',5,5',6 -HpCB		1110	19.2	39:09		1.13		
188	2,2',3,4',5,6,6' -HpCB		ND U	16.5					U
189	2,3,3',4,4',5,5' -HpCB		ND U	22.9					U
190	2,3,3',4,4',5,6 -HpCB		67.7	18.8	48:15		1.10		
191	2,3,3',4,4',5',6 -HpCB		ND U	18.8					U
192	2,3,3',4,5,5',6 -HpCB		ND U	18.8					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		84.9	18.6	55:43		0.79		
195	2,2',3,3',4,4',5,6 -OcCB		40.2 U	20.7	51:58		1.04	#	K
196	2,2',3,3',4,4',5,6' -OcCB		99.7	16.4	49:36		0.81		
197	2,2',3,3',4,4',6,6' -OcCB	C	75.3 U	12.7	44:09		1.09	#	J K
198	2,2',3,3',4,5,5',6 -OcCB	C	203	16.3	48:34		1.00		
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		70.4 U	13.4	42:40		1.19	#	K
202	2,2',3,3',5,5',6,6' -OcCB		117	13.0	41:16		0.88		
203	2,2',3,4,4',5,5',6 -OcCB		122	14.6	49:55		0.84		
204	2,2',3,4,4',5,6,6' -OcCB		ND U	13.4					U
205	2,3,3',4,4',5,5',6 -OcCB		ND U	13.9					U
206	2,2',3,3',4,4',5,5',6 -NoCB		ND U	19.2					U
207	2,2',3,3',4,4',5,6,6' -NoCB		ND U	18.3					U
208	2,2',3,3',4,5,5',6,6' -NoCB		25.3 J	18.2	51:39		0.84		J
209	2,2',3,3',4,4',5,5',6,6' -DeCB		20.0 U	19.2	61:51		0.48	#	J K

Analyzed By: LMP
Date: 13Jun07

HVG
27 Jun 07

Reviewed By: [illegible]
Date: 6/18/07

PCB Congener Results by Method 1668A
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EPA FORM 2

SGS Environmental Services

Client Sample ID
Outlet Run 1 EPA 23-Dioxin

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		8.00	3.71	46.3 J	6:46	3.28	Q
3L	13C-4 -MoCB		8.00	5.42	67.8	8:17	3.26	
					(25-150%)			
4L	13C-2,2' -DICB		8.00	2.60	32.5 J	8:28	1.52	Q
15L	13C-4,4' -DICB		8.00	5.95	74.3	13:09	1.62	
19L	13C-2,2',6 -TrCB		8.00	4.71	58.9	10:49	1.09	
37L	13C-3,4,4' -TrCB		8.00	7.69	96.1	20:14	1.05	
54L	13C-2,2',6,6' -TeCB		8.00	4.80	60.0 J	13:25	0.81	Q
77L	13C-3,3',4,4' -TeCB		8.00	10.3	128	29:21	0.76	
81L	13C-3,4,4',5 -TeCB		8.00	10.1	126	28:36	0.80	
104L	13C-2,2',4,6,6' -PeCB		8.00	4.17	52.1	18:52	1.57	
105L	13C-2,3,3',4,4' -PeCB		8.00	8.24	103	34:13	1.69	
114L	13C-2,3,4,4',5 -PeCB		8.00	8.55	107	33:19	1.56	
118L	13C-2,3',4,4',5 -PeCB		8.00	8.01	100	32:36	1.59	
123L	13C-2,3',4,4',5' -PeCB		8.00	8.36	104	32:08	1.63	
126L	13C-3,3',4,4',5 -PeCB		8.00	9.31	116	38:44	1.63	
155L	13C-2,2',4,4',6,6' -HxCB		8.00	4.57	57.2	25:38	1.24	
156L	13C-2,3,3',4,4',5 -HxCB	C	16.0	17.0	106	43:18	1.33	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		8.00	8.21	103	41:36	1.35	
169L	13C-3,3',4,4',5,5' -HxCB		8.00	9.00	113	48:19	1.29	
188L	13C-2,2',3,4',5,6,6' -HpCB		8.00	3.47	43.4	33:21	1.09	
189L	13C-2,3,3',4,4',5,5' -HpCB		8.00	6.23	77.8	52:20	1.08	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		8.00	4.09	51.2	41:14	0.91	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		8.00	6.22	77.7	56:26	0.93	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		8.00	5.49	68.7	59:15	0.80	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		8.00	5.04	63.1	51:37	0.78	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		8.00	4.40	55.1	61:50	1.21	
					HVG			
Injection Standards								
9L	13C-2,5 -DICB		2.00		Jun 07	9:55	1.62	
52L	13C-2,2',5,5' -TeCB		2.00			17:50	0.81	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:54	1.63	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:04	1.34	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:41	0.93	

Analyzed By: HMP Reviewed By: [illegible]

Date: 13jun07 Date: 6/13/07

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Client Sample ID
Outlet Run 2 EPA 23-Dioxin

Laboratory Information			Sample Information		
Lab Project ID:	G733-4		Matrix:	Air	
Lab Sample ID:	G733-4-24D		Amount:	1	Trap
Dilution factor:	1		pH:	NA	
Collection Date/Time:	18-May-07		Solids/Basis:	NA	/
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14291 / 14291	
Extraction Date:	07-Jun-07		Filename:	b11jun07d-9	
Analysis Date/Time:	11-Jun-07	19:59	ConCal:	b11jun07d-1	
			RRT Std:	b11jun07d-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
1	2 -MoCB		206	39.6	6:47	3.60	Q
2	3 -MoCB		227	40.4	8:11	2.93	
3	4 -MoCB		297 U	31.2	8:18	3.71 #	K Q
4	2,2' -DiCB		629	74.8	8:29	1.66	Q
5	2,3 -DiCB		194 U	60.5	10:29	0.73 #	K
6	2,3' -DiCB		455	48.2	10:14	1.58	
7	2,4 -DiCB		121 U	44.7	10:03	2.45 #	K
8	2,4' -DiCB		1730	41.6	10:35	1.68	Q
9	2,5 -DiCB		175	60.3	9:55	1.54	
10	2,6 -DiCB		ND	42.2			U
11	3,3' -DiCB		7780	52.3	12:37	1.67	B
12	3,4 -DiCB	C	1360	48.2	12:52	1.76	
13	3,4' -DiCB	C12					
14	3,5 -DiCB		ND U	51.8			U
15	4,4' -DiCB		5740	64.4	13:10	1.62	
16	2,2',3 -TrCB		1070	9.39	13:07	1.12	
17	2,2',4 -TrCB		1630	11.4	12:42	1.08	
18	2,2',5 -TrCB	C	2710	9.62	12:21	1.03	
19	2,2',6 -TrCB		273	13.0	10:50	1.01	
20	2,3,3' -TrCB	C	7750	7.46	15:59	1.07	
21	2,3,4 -TrCB	C	4370	7.55	16:13	1.06	
22	2,3,4' -TrCB		2660	7.78	16:37	1.10	
23	2,3,5 -TrCB		17.8 U	7.68	14:52	1.47 #	J K
24	2,3,6 -TrCB		78.2	8.86	13:01	0.90	
25	2,3',4 -TrCB		507	6.54	15:24	1.07	
26	2,3',5 -TrCB	C	1170	7.93	15:10	1.10	
27	2,3',6 -TrCB		242 U	8.52	12:53	1.22 #	K
28	2,4,4' -TrCB	C20					
29	2,4,5 -TrCB	C26					
30	2,4,6 -TrCB	C18					
31	2,4',5 -TrCB		6660	7.77	15:41	1.06	
32	2,4',6 -TrCB		1100	7.85	13:34	0.98	
33	2,3',4' -TrCB	C21					
34	2,3',5' -TrCB		33.3 J	8.74	14:43	0.93	J
35	3,3',4 -TrCB		369	106	19:48	1.04	
36	3,3',5 -TrCB		ND U	97.9			U
37	3,4,4' -TrCB		3690	119	20:15	1.07	
38	3,4,5 -TrCB		ND U	99.1			U
39	3,4',5 -TrCB		ND U	89.1			U
40	2,2',3,3' -TeCB	C	2050	161	20:03	0.82	
41	2,2',3,4 -TeCB		746	234	19:56	0.81	
42	2,2',3,4' -TeCB		1240	175	19:30	0.86	
43	2,2',3,5 -TeCB		ND U	181			U
44	2,2',3,5' -TeCB	C	6720	167	18:56	0.81	

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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Outlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
45	2,2',3,6 -TeCB	C	935	15.2	16:08		0.84		
46	2,2',3,6' -TeCB		219	16.5	16:24		0.82		
47	2,2',4,4' -TeCB	C44							
48	2,2',4,5 -TeCB		1130	173	18:42		0.85		
49	2,2',4,5' -TeCB	C	3420	156	18:24		0.82		
50	2,2',4,6 -TeCB	C	555	14.7	15:26		0.82		
51	2,2',4,6' -TeCB	C45							
52	2,2',5,5' -TeCB		9120	188	17:52		0.80		
53	2,2',5,6' -TeCB	C50							
54	2,2',6,6' -TeCB		ND U	9.67					U Q
55	2,3,3',4 -TeCB		141	26.2	23:55		0.77		
56	2,3,3',4' -TeCB		2090	26.9	24:33		0.79		
57	2,3,3',5 -TeCB		ND U	28.0					U
58	2,3,3',5' -TeCB		348	27.5	22:17		0.78		
59	2,3,3',6 -TeCB	C	434 U	135	19:17		0.94	#	K
60	2,3,4,4' -TeCB		1250	25.5	24:49		0.83		
61	2,3,4,5 -TeCB	C	10000	26.0	23:20		0.83		
62	2,3,4,6 -TeCB	C59							
63	2,3,4',5 -TeCB		203	26.1	22:56		0.79		
64	2,3,4',6 -TeCB		2560	129	20:19		0.78		
65	2,3,5,6 -TeCB	C44							
66	2,3',4,4' -TeCB		4170	26.3	23:43		0.81		
67	2,3',4,5 -TeCB		192	23.0	22:36		0.68		
68	2,3',4,5' -TeCB		205	24.6	21:38		0.74		
69	2,3',4,6 -TeCB	C49							
70	2,3',4',5 -TeCB	C61							
71	2,3',4',6 -TeCB	C40							
72	2,3',5,5' -TeCB		ND U	27.0					U
73	2,3',5',6 -TeCB		ND U	141					U
74	2,4,4',5 -TeCB	C61							
75	2,4,4',6 -TeCB	C59							
76	2,3',4',5' -TeCB	C61							
77	3,3',4,4' -TeCB		979	28.1	29:23		0.79		
78	3,3',4,5 -TeCB		ND U	26.2					U
79	3,3',4,5' -TeCB		ND U	22.7					U
80	3,3',5,5' -TeCB		ND U	23.3					U
81	3,4,4',5 -TeCB		68.2 U	28.2	28:39		0.63	#	K
82	2,2',3,3',4 -PeCB		751	16.3	28:54		1.61		
83	2,2',3,3',5 -PeCB		411 U	19.2	26:29		2.05	#	K
84	2,2',3,3',6 -PeCB		1940	16.6	23:35		1.62		
85	2,2',3,4,4' -PeCB	C	1120	12.2	28:15		1.65		
86	2,2',3,4,5 -PeCB	C	5370	12.7	27:22		1.59		
87	2,2',3,4,5' -PeCB	C86							
88	2,2',3,4,6 -PeCB	C	1030	15.3	23:18		1.62		
89	2,2',3,4,6' -PeCB		73.6 U	16.9	24:11		1.86	#	K
90	2,2',3,4',5 -PeCB	C	8410	13.0	25:56		1.60		
91	2,2',3,4',6 -PeCB	C88							
92	2,2',3,5,5' -PeCB		1340	15.5	25:10		1.67		
93	2,2',3,5,6 -PeCB	C	62.0 U	14.6	22:33		1.02	#	J K
94	2,2',3,5,6' -PeCB		32.3 U	15.6	21:44		2.03	#	J K
95	2,2',3,5',6 -PeCB		7450	17.1	22:16		1.48		
96	2,2',3,6,6' -PeCB		62.1 U	13.9	19:17		2.48	#	K
97	2,2',3,4',5' -PeCB	C86							
98	2,2',3,4',6' -PeCB	C	225 U	14.7	22:42		1.29	#	K
99	2,2',4,4',5 -PeCB		2930	11.8	26:41		1.51		

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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Outlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	Ratio	#	Qualifier
100	2,2',4,4',6 -PeCB	C93						
101	2,2',4,5,5' -PeCB	C90						
102	2,2',4,5,6' -PeCB	C98						
103	2,2',4,5',6 -PeCB		55.0 U	14.3	21:30	1.15	#	K
104	2,2',4,6,6' -PeCB		ND U	11.4				U
105	2,3,3',4,4' -PeCB		1800	42.8	34:16	1.54		
106	2,3,3',4,5 -PeCB		ND U	35.4				U
107	2,3,3',4',5 -PeCB	C	231	36.8	31:41	1.53		
108	2,3,3',4,5' -PeCB	C86						
109	2,3,3',4,6 -PeCB		332	33.3	32:01	1.59		
110	2,3,3',4',6 -PeCB	C	6910	10.6	28:29	1.53		
111	2,3,3',5,5' -PeCB		ND U	10.2				U
112	2,3,3',5,6 -PeCB		ND U	10.6				U
113	2,3,3',5',6 -PeCB	C90						
114	2,3,4,4',5 -PeCB		116	38.4	33:22	1.32		
115	2,3,4,4',6 -PeCB	C110						
116	2,3,4,5,6 -PeCB	C85						
117	2,3,4',5,6 -PeCB	C85						
118	2,3',4,4',5 -PeCB		4710	37.2	32:38	1.62		
119	2,3',4,4',6 -PeCB	C86						
120	2,3',4,5,5' -PeCB		ND U	10.3				U
121	2,3',4,5',6 -PeCB		ND U	10.8				U
122	2,3,3',4',5' -PeCB		75.5 U	39.0	33:05	1.06	#	K
123	2,3',4,4',5' -PeCB		120	34.1	32:11	1.54		
124	2,3',4',5,5' -PeCB	C107						
125	2,3',4',5',6 -PeCB	C86						
126	3,3',4,4',5 -PeCB		ND U	39.6				U
127	3,3',4,5,5' -PeCB		ND U	33.8				U
128	2,2',3,3',4,4' -HxCB	C	465	27.8	38:57	1.14		
129	2,2',3,3',4,6 -HxCB	C	4500	29.4	37:08	1.23		
130	2,2',3,3',4,5' -HxCB		290 U	35.5	36:10	1.03	#	K
131	2,2',3,3',4,6 -HxCB		85.4 U	36.3	32:07	1.46	#	K
132	2,2',3,3',4,6' -HxCB		1760	33.8	32:45	1.31		
133	2,2',3,3',5,5' -HxCB		63.4	33.1	33:31	1.10		
134	2,2',3,3',5,6 -HxCB		314	37.7	31:18	1.22		
135	2,2',3,3',5,6' -HxCB	C	2370	29.8	29:46	1.27		
136	2,2',3,3',6,6' -HxCB		1040	24.8	26:32	1.32		
137	2,2',3,4,4',5 -HxCB		254	30.6	36:31	1.25		
138	2,2',3,4,4',5' -HxCB	C129						
139	2,2',3,4,4',6 -HxCB	C	104	30.4	31:52	1.26		
140	2,2',3,4,4',6' -HxCB	C139						
141	2,2',3,4,5,5' -HxCB		1020	31.0	35:36	1.24		
142	2,2',3,4,5,6 -HxCB		ND U	35.7				U
143	2,2',3,4,5,6' -HxCB		ND U	32.8				U
144	2,2',3,4,5',6 -HxCB		374	29.5	30:33	1.29		
145	2,2',3,4,6,6' -HxCB		ND U	23.7				U
146	2,2',3,4',5,5' -HxCB		630	28.8	34:27	1.24		
147	2,2',3,4',5,6 -HxCB	C	5050	30.1	31:01	1.32		
148	2,2',3,4',5,6' -HxCB		ND U	30.6				U
149	2,2',3,4',5',6 -HxCB	C147						
150	2,2',3,4',6,6' -HxCB		ND U	21.7				U
151	2,2',3,5,5',6 -HxCB	C135						
152	2,2',3,5,6,6' -HxCB		ND U	22.5				U
153	2,2',4,4',5,5' -HxCB	C	4680	25.2	35:21	1.26		
154	2,2',4,4',5,6' -HxCB		47.4 U	25.5	30:09	1.06	#	K

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27 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
Outlet Run 2 EPA 23-Dioxin

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
155	2,2',4,4',6,6' -HxCB		ND U	16.9					U
156	2,3,3',4,4',5 -HxCB	C	255	29.6	43:20		1.29		
157	2,3,3',4,4',5' -HxCB	C156							
158	2,3,3',4,4',6 -HxCB		419	21.3	37:42		1.32		
159	2,3,3',4,5,5' -HxCB		34.1 U	24.7	40:27		2.55	#	J K
160	2,3,3',4,5,6 -HxCB		ND U	24.0					U
161	2,3,3',4,5',6 -HxCB		ND U	24.1					U
162	2,3,3',4',5,5' -HxCB		ND U	23.9					U
163	2,3,3',4',5,6 -HxCB	C129							
164	2,3,3',4',5',6 -HxCB		240	23.3	36:42		1.25		
165	2,3,3',5,5',6 -HxCB		ND U	25.3					U
166	2,3,4,4',5,6 -HxCB	C128							
167	2,3',4,4',5,5' -HxCB		106	23.9	41:39		1.09		
168	2,3',4,4',5',6 -HxCB	C153							
169	3,3',4,4',5,5' -HxCB		ND U	24.2					U
170	2,2',3,3',4,4',5 -HpCB		285 U	26.1	47:27		1.24	#	K
171	2,2',3,3',4,4',6 -HpCB	C	166	26.4	42:01		1.00		
172	2,2',3,3',4,5,5' -HpCB		83.3	26.0	44:33		1.07		
173	2,2',3,3',4,5,6 -HpCB	C171							
174	2,2',3,3',4,5,6' -HpCB		735	24.6	40:24		1.08		
175	2,2',3,3',4,5',6 -HpCB		ND U	16.9					U
176	2,2',3,3',4,6,6' -HpCB		173	13.8	35:07		1.00		
177	2,2',3,3',4,5',6' -HpCB		354	27.5	41:04		1.03		
178	2,2',3,3',5,5',6 -HpCB		168	17.4	37:49		1.18		
179	2,2',3,3',5,6,6' -HpCB		624	13.7	33:50		1.08		
180	2,2',3,4,4',5,5' -HpCB	C	974	20.6	45:33		1.14		
181	2,2',3,4,4',5,6 -HpCB		ND U	23.8					U
182	2,2',3,4,4',5,6' -HpCB		ND U	16.2					U
183	2,2',3,4,4',5',6 -HpCB	C	620	24.3	40:07		1.13		
184	2,2',3,4,4',6,6' -HpCB		ND U	12.1					U
185	2,2',3,4,5,5',6 -HpCB	C183							
186	2,2',3,4,5,6,6' -HpCB		ND U	13.2					U
187	2,2',3,4',5,5',6 -HpCB		1130	15.4	39:11		1.03		
188	2,2',3,4',5,6,6' -HpCB		ND U	13.7					U
189	2,3,3',4,4',5,5' -HpCB		ND	7.18					U
190	2,3,3',4,4',5,6 -HpCB		ND	19.2					U
191	2,3,3',4,4',5',6 -HpCB		ND	19.2					U
192	2,3,3',4,5,5',6 -HpCB		ND U	19.3					U
193	2,3,3',4',5,5',6 -HpCB	C180							
194	2,2',3,3',4,4',5,5' -OcCB		79.2	17.3	55:44		0.96		
195	2,2',3,3',4,4',5,6 -OcCB		44.1	19.3	52:00		0.77		
196	2,2',3,3',4,4',5,6' -OcCB		79.6 U	14.1	49:39		1.03	#	K
197	2,2',3,3',4,4',6,6' -OcCB	C	ND U	10.9					U
198	2,2',3,3',4,5,5',6 -OcCB	C	192	14.0	48:36		0.97		
199	2,2',3,3',4,5,5',6' -OcCB	C198							
200	2,2',3,3',4,5,6,6' -OcCB	C197							
201	2,2',3,3',4,5',6,6' -OcCB		62.6	11.5	42:41		0.77		
202	2,2',3,3',5,5',6,6' -OcCB		107 U	11.4	41:18		1.49	#	K
203	2,2',3,4,4',5,5',6 -OcCB		109	12.5	49:57		0.90		
204	2,2',3,4,4',5,6,6' -OcCB		ND U	11.5					U
205	2,3,3',4,4',5,5',6 -OcCB		ND U	12.7					U
206	2,2',3,3',4,4',5,5',6 -NoCB		ND U	14.3					U
207	2,2',3,3',4,4',5,6,6' -NoCB		ND U	13.3					U
208	2,2',3,3',4,5,5',6,6' -NoCB		23.8 J	12.8	51:41		0.72		J
209	2,2',3,3',4,4',5,5',6,6' -DeCB		26.3 J	14.6	61:53		0.99		J

Analyzed By: HMP
Date: 13Jun07

HVG
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Reviewed By: _____
Date: _____

PCB Congener Results by Method 1668A
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EPA FORM 2

SGS Environmental Services

Client Sample ID
Outlet Run 2 EPA 23-Dioxin

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		8.00	3.69	46.2 J	6:46	3.59	Q
3L	13C-4 -MoCB		8.00	4.88	61.1 J	8:18	3.38	Q
					(25-150%)			
4L	13C-2,2' -DiCB		8.00	2.64	33.0 J	8:29	1.51	Q
15L	13C-4,4' -DiCB		8.00	5.60	69.9	13:09	1.62	
19L	13C-2,2',6 -TrCB		8.00	4.65	58.1	10:49	1.08	
37L	13C-3,4,4' -TrCB		8.00	7.75	96.9	20:14	1.10	
54L	13C-2,2',6,6' -TeCB		8.00	4.65	58.1 J	13:25	0.84	Q
77L	13C-3,3',4,4' -TeCB		8.00	9.96	124	29:21	0.79	
81L	13C-3,4,4',5 -TeCB		8.00	9.69	121	28:37	0.79	
104L	13C-2,2',4,6,6' -PeCB		8.00	4.21	52.6	18:53	1.67	
105L	13C-2,3,3',4,4' -PeCB		8.00	8.02	100	34:14	1.60	
114L	13C-2,3,4,4',5 -PeCB		8.00	8.20	103	33:20	1.66	
118L	13C-2,3',4,4',5 -PeCB		8.00	7.98	99.8	32:36	1.64	
123L	13C-2,3',4,4',5' -PeCB		8.00	8.42	105	32:08	1.59	
126L	13C-3,3',4,4',5 -PeCB		8.00	9.16	114	38:45	1.69	
155L	13C-2,2',4,4',6,6' -HxCB		8.00	4.67	58.3	25:38	1.29	
156L	13C-2,3,3',4,4',5 -HxCB	C	16.0	17.2	108	43:20	1.32	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		8.00	8.44	105	41:37	1.35	
169L	13C-3,3',4,4',5,5' -HxCB		8.00	9.18	115	48:21	1.31	
188L	13C-2,2',3,4',5,6,6' -HpCB		8.00	3.58	44.8	33:22	1.08	
189L	13C-2,3,3',4,4',5,5' -HpCB		8.00	6.44	80.6	52:22	1.10	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		8.00	4.23	52.8	41:15	0.91	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		8.00	6.61	82.6	56:28	0.94	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		8.00	5.70	71.2	59:16	0.80	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		8.00	5.20	65.0	51:38	0.76	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		8.00	4.64	57.9	61:51	1.21	
					1+SB 27 Jan 07			
Injection Standards								
9L	13C-2,5 -DiCB		2.00			9:55	1.56	
52L	13C-2,2',5,5' -TeCB		2.00			17:50	0.84	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:54	1.61	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:05	1.26	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:43	0.94	

Analyzed By: HMP

Date: 13Jun07

Reviewed By: [signature]

Date: 6/19/07

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PCB Congener Results by Method 1668A

EPA FORM 1

SGS Environmental Services

Client Project ID: 3033Cement Lok

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Client Sample ID
EPA 23-Dioxin Blank

Laboratory Information			Sample Information		
Lab Project ID:	G733-4		Matrix:	Air	
Lab Sample ID:	G733-4-29D		Amount:	1	Trap
Dilution factor:	1		pH:	NA	
Collection Date/Time:	17-May-07		Solids/Basis:	NA	/
Receipt Date/Time:	19-May-07	14:49	QC Batch ID:	WG14291 / 14291	
Extraction Date:	07-Jun-07		Filename:	b11jun07d-10	
Analysis Date/Time:	11-Jun-07	21:04	ConCal:	b11jun07d-1	
			RRT Std:	b11jun07d-2	
			Initial Cal:	m1668a-b032707c	

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	#	Ratio	#	Qualifier
1	2 -MoCB		ND U	15.5					U
2	3 -MoCB		ND	18.0					U
3	4 -MoCB		36.3	15.4	8:20		2.30	#	J K
4	2,2' -DiCB		88.4	41.2	8:31		1.53		
5	2,3 -DiCB		ND	43.4					U
6	2,3' -DiCB		ND	34.6					U
7	2,4 -DiCB		ND	32.1					U
8	2,4' -DiCB		177	29.9	10:36		1.71		
9	2,5 -DiCB		ND	43.2					U
10	2,6 -DiCB		ND	29.2					U
11	3,3' -DiCB		1080	37.5	12:37		1.65		B
12	3,4 -DiCB	C	ND U	34.6					U
13	3,4' -DiCB	C12							
14	3,5 -DiCB		ND U	37.2					U
15	4,4' -DiCB		214	49.6	13:09		1.71		
16	2,2',3 -TrCB		126	13.1	13:07		1.36	#	K
17	2,2',4 -TrCB		219	15.9	12:42		1.14		
18	2,2',5 -TrCB	C	299	13.4	12:20		1.08		
19	2,2',6 -TrCB		67.6	16.8	10:51		1.53	#	K
20	2,3,3' -TrCB	C	804	10.4	15:58		1.06		B
21	2,3,4 -TrCB	C	440	10.5	16:12		1.00		
22	2,3,4' -TrCB		334	10.8	16:35		1.12		B
23	2,3,5 -TrCB		ND	10.7					U
24	2,3,6 -TrCB		20.9	12.3	13:00		0.56	#	J K
25	2,3',4 -TrCB		67.8	9.10	15:22		0.86	#	K
26	2,3',5 -TrCB	C	122	11.0	15:08		0.86	#	K
27	2,3',6 -TrCB		62.3 U	11.8	12:53		0.71	#	K
28	2,4,4' -TrCB	C20							
29	2,4,5 -TrCB	C26							
30	2,4,6 -TrCB	C18							
31	2,4',5 -TrCB		664 U	10.8	15:41		1.18		B
32	2,4',6 -TrCB		150 U	10.9	13:33		0.95		
33	2,3',4' -TrCB	C21							
34	2,3',5' -TrCB		ND U	12.2					U
35	3,3',4 -TrCB		ND	14.1					U
36	3,3',5 -TrCB		ND	13.1					U
37	3,4,4' -TrCB		317	16.9	20:13		0.91		B
38	3,4,5 -TrCB		ND	13.2					U
39	3,4',5 -TrCB		ND	11.9					U
40	2,2',3,3' -TeCB	C	197	11.2	20:02		0.86		
41	2,2',3,4 -TeCB		55.0	16.3	19:53		0.65	#	K
42	2,2',3,4' -TeCB		157	12.2	19:29		0.73		
43	2,2',3,5 -TeCB		44.0	12.7	18:04		0.57	#	K
44	2,2',3,5' -TeCB	C	590 U	11.7	18:55		0.74		

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PCB Congener Results by Method 1668A
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SGS Environmental Services

Client Sample ID
EPA 23-Dioxin Blank

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT	Ratio	#	Qualifier
45	2,2',3,6 -TeCB	C	139 U	13.7	16:07	0.99	#	K
46	2,2',3,6' -TeCB		43.0	14.8	16:24	0.83		
47	2,2',4,4' -TeCB	C44						
48	2,2',4,5 -TeCB		94.3 U	12.1	18:41	0.92	#	K
49	2,2',4,5' -TeCB	C	329	10.9	18:21	0.81		
50	2,2',4,6 -TeCB	C	97.3 U	13.2	15:25	0.75		
51	2,2',4,6' -TeCB	C45						
52	2,2',5,5' -TeCB		811 U	13.1	17:50	0.78		
53	2,2',5,6' -TeCB	C50						
54	2,2',6,6' -TeCB		ND U	7.45				U
55	2,3,3',4 -TeCB		ND	25.4				U
56	2,3,3',4' -TeCB		182	26.0	24:30	0.69		
57	2,3,3',5 -TeCB		ND	27.1				U
58	2,3,3',5' -TeCB		ND U	26.6				U
59	2,3,3',6 -TeCB	C	54.6	9.46	19:17	1.00	#	J K
60	2,3,4,4' -TeCB		131 U	24.7	24:47	0.87		
61	2,3,4,5 -TeCB	C	723 U	25.2	23:19	0.80		
62	2,3,4,6 -TeCB	C59						
63	2,3,4',5 -TeCB		ND U	25.3				U
64	2,3,4',6 -TeCB		238	8.98	20:17	0.80		
65	2,3,5,6 -TeCB	C44						
66	2,3',4,4' -TeCB		387 U	25.5	23:41	0.76		B
67	2,3',4,5 -TeCB		ND U	22.3				U
68	2,3',4,5' -TeCB		ND U	23.9				U
69	2,3',4,6 -TeCB	C49						
70	2,3',4',5 -TeCB	C61						
71	2,3',4',6 -TeCB	C40						
72	2,3',5,5' -TeCB		ND U	26.1				U
73	2,3',5',6 -TeCB		18.2 U	9.82	17:58	1.00	#	J K
74	2,4,4',5 -TeCB	C61						
75	2,4,4',6 -TeCB	C59						
76	2,3',4',5' -TeCB	C61						
77	3,3',4,4' -TeCB		38.1 U	28.9	29:21	0.63	#	J K
78	3,3',4,5 -TeCB		ND	25.4				U
79	3,3',4,5' -TeCB		ND	22.0				U
80	3,3',5,5' -TeCB		ND	22.6				U
81	3,4,4',5 -TeCB		ND U	28.2				U
82	2,2',3,3',4 -PeCB		54.0 U	14.5	28:52	1.99	#	K
83	2,2',3,3',5 -PeCB		26.2 U	17.1	26:29	2.05	#	J K
84	2,2',3,3',6 -PeCB		136 U	14.8	23:31	1.21	#	K
85	2,2',3,4,4' -PeCB	C	52.2 J	10.8	28:12	1.37		J
86	2,2',3,4,5 -PeCB	C	285 U	11.3	27:20	1.63		
87	2,2',3,4,5' -PeCB	C86						
88	2,2',3,4,6 -PeCB	C	84.4 U	13.6	23:16	1.80	#	K
89	2,2',3,4,6' -PeCB		ND U	15.0				U
90	2,2',3,4',5 -PeCB	C	332 U	11.6	25:53	1.71		
91	2,2',3,4',6 -PeCB	C88						
92	2,2',3,5,5' -PeCB		67.1 U	13.8	25:08	1.82	#	K
93	2,2',3,5,6 -PeCB	C	ND	13.0				U
94	2,2',3,5,6' -PeCB		ND	13.9				U
95	2,2',3,5',6 -PeCB		446	15.2	22:14	1.64		B
96	2,2',3,6,6' -PeCB		15.0 U	11.8	19:16	2.04	#	J K
97	2,2',3,4',5' -PeCB	C86						
98	2,2',3,4',6' -PeCB	C	20.8 J	13.0	22:40	1.54		J
99	2,2',4,4',5 -PeCB		145 U	10.5	26:39	1.27	#	K

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PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
EPA 23-Dioxin Blank

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
100	2,2',4,4',6 -PeCB	C93					
101	2,2',4,5,5' -PeCB	C90					
102	2,2',4,5,6' -PeCB	C98					
103	2,2',4,5',6 -PeCB		ND	12.7			U
104	2,2',4,6,6' -PeCB		ND	8.19			U
105	2,3,3',4,4' -PeCB		111	36.5	34:14	1.41	
106	2,3,3',4,5 -PeCB		ND	31.4			U
107	2,3,3',4',5 -PeCB	C	ND	32.7			U
108	2,3,3',4,5' -PeCB	C86					
109	2,3,3',4,6 -PeCB		ND	29.5			U
110	2,3,3',4',6 -PeCB	C	330	9.46	28:27	1.74	
111	2,3,3',5,5' -PeCB		ND	9.06			U
112	2,3,3',5,6 -PeCB		ND	9.38			U
113	2,3,3',5',6 -PeCB	C90					
114	2,3,4,4',5 -PeCB		ND	34.9			U
115	2,3,4,4',6 -PeCB	C110					
116	2,3,4,5,6 -PeCB	C85					
117	2,3,4',5,6 -PeCB	C85					
118	2,3',4,4',5 -PeCB		244	32.9	32:36	1.76	
119	2,3',4,4',6 -PeCB	C86					
120	2,3',4,5,5' -PeCB		ND	9.18			U
121	2,3',4,5',6 -PeCB		ND	9.58			U
122	2,3,3',4',5' -PeCB		ND	34.6			U
123	2,3',4,4',5' -PeCB		ND	32.5			U
124	2,3',4',5,5' -PeCB	C107					
125	2,3',4',5',6 -PeCB	C86					
126	3,3',4,4',5 -PeCB		ND	36.3			U
127	3,3',4,5,5' -PeCB		ND	30.0			U
128	2,2',3,3',4,4' -HxCB	C	34.7	21.1	38:56	1.23	J
129	2,2',3,3',4,5 -HxCB	C	260	22.3	37:05	1.33	
130	2,2',3,3',4,5' -HxCB		ND	26.9			U
131	2,2',3,3',4,6 -HxCB		ND	27.5			U
132	2,2',3,3',4,6' -HxCB		99.8	25.7	32:42	1.45 #	K
133	2,2',3,3',5,5' -HxCB		ND	25.1			U
134	2,2',3,3',5,6 -HxCB		ND	28.6			U
135	2,2',3,3',5,6' -HxCB	C	109	31.6	29:45	1.41	
136	2,2',3,3',6,6' -HxCB		43.8	26.3	26:30	1.70 #	K
137	2,2',3,4,4',5 -HxCB		ND	23.2			U
138	2,2',3,4,4',5' -HxCB	C129					
139	2,2',3,4,4',6 -HxCB	C	ND	23.1			U
140	2,2',3,4,4',6' -HxCB	C139					
141	2,2',3,4,5,5' -HxCB		55.4	23.5	35:32	1.48 #	K
142	2,2',3,4,5,6 -HxCB		ND	27.0			U
143	2,2',3,4,5,6' -HxCB		ND	24.8			U
144	2,2',3,4,5',6 -HxCB		ND	31.4			U
145	2,2',3,4,6,6' -HxCB		ND	25.1			U
146	2,2',3,4',5,5' -HxCB		44.2	21.8	34:24	1.19	
147	2,2',3,4',5,6 -HxCB	C	205	22.9	30:59	1.25	
148	2,2',3,4',5,6' -HxCB		ND	32.5			U
149	2,2',3,4',5',6 -HxCB	C147					
150	2,2',3,4',6,6' -HxCB		ND	23.0			U
151	2,2',3,5,5',6 -HxCB	C135					
152	2,2',3,5,6,6' -HxCB		ND	23.9			U
153	2,2',4,4',5,5' -HxCB	C	200	19.1	35:18	1.34	
154	2,2',4,4',5,6' -HxCB		ND	27.1			U

NVG
27 Jun 07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok

SGS Environmental Services

Client Sample ID
EPA 23-Dioxin Blank

No.	Analyte Structure -LOC	CARP	Amount (pg)	EDL (pg)	RT #	Ratio #	Qualifier
155	2,2',4,4',6,6' -HxCB		ND	18.6			U
156	2,3,3',4,4',5 -HxCB	C	ND	24.6			U
157	2,3,3',4,4',5' -HxCB	C156					
158	2,3,3',4,4',6 -HxCB		ND	16.2			U
159	2,3,3',4,5,5' -HxCB		ND	20.7			U
160	2,3,3',4,5,6 -HxCB		ND	18.2			U
161	2,3,3',4,5',6 -HxCB		ND	18.3			U
162	2,3,3',4',5,5' -HxCB		ND	20.0			U
163	2,3,3',4',5,6 -HxCB	C129					
164	2,3,3',4',5',6 -HxCB		20.5	17.7	36:39	0.63 #	JK
165	2,3,3',5,5',6 -HxCB		ND	19.2			U
166	2,3,4,4',5,6 -HxCB	C128					
167	2,3',4,4',5,5' -HxCB		ND	18.9			U
168	2,3',4,4',5',6 -HxCB	C153					
169	3,3',4,4',5,5' -HxCB		ND	21.1			U
170	2,2',3,3',4,4',5 -HpCB		ND	28.5			U
171	2,2',3,3',4,4',6 -HpCB	C	ND	28.9			U
172	2,2',3,3',4,5,5' -HpCB		ND	28.5			U
173	2,2',3,3',4,5,6 -HpCB	C171					
174	2,2',3,3',4,5,6' -HpCB		33.8 J	26.9	40:21	1.11	J
175	2,2',3,3',4,5',6 -HpCB		ND	17.3			U
176	2,2',3,3',4,6,6' -HpCB		ND	14.1			U
177	2,2',3,3',4,5',6' -HpCB		ND	30.1			U
178	2,2',3,3',5,5',6 -HpCB		ND	17.8			U
179	2,2',3,3',5,6,6' -HpCB		28.6	14.0	33:48	0.76 #	JK
180	2,2',3,4,4',5,5' -HpCB	C	62.1	22.5	45:30	1.22 #	JK
181	2,2',3,4,4',5,6 -HpCB		ND	26.0			U
182	2,2',3,4,4',5,6' -HpCB		ND	16.6			U
183	2,2',3,4,4',5',6 -HpCB	C	29.0	26.6	40:05	1.43 #	JK
184	2,2',3,4,4',6,6' -HpCB		ND	12.4			U
185	2,2',3,4,5,5',6 -HpCB	C183					
186	2,2',3,4,5,6,6' -HpCB		ND	13.5			U
187	2,2',3,4',5,5',6 -HpCB		51.8	15.7	39:09	0.92	
188	2,2',3,4',5,6,6' -HpCB		ND	13.2			U
189	2,3,3',4,4',5,5' -HpCB		ND	15.8			U
190	2,3,3',4,4',5,6 -HpCB		ND	21.0			U
191	2,3,3',4,4',5',6 -HpCB		ND	21.0			U
192	2,3,3',4,5,5',6 -HpCB		ND	21.1			U
193	2,3,3',4',5,5',6 -HpCB	C180					
194	2,2',3,3',4,4',5,5' -OcCB		ND	15.1			U
195	2,2',3,3',4,4',5,6 -OcCB		ND	16.9			U
196	2,2',3,3',4,4',5,6' -OcCB		ND	17.4			U
197	2,2',3,3',4,4',6,6' -OcCB	C	ND	13.5			U
198	2,2',3,3',4,5,5',6 -OcCB	C	ND	17.3			U
199	2,2',3,3',4,5,5',6' -OcCB	C198					
200	2,2',3,3',4,5,6,6' -OcCB	C197					
201	2,2',3,3',4,5',6,6' -OcCB		ND	14.3			U
202	2,2',3,3',5,5',6,6' -OcCB		ND	13.4			U
203	2,2',3,4,4',5,5',6 -OcCB		ND	15.5			U
204	2,2',3,4,4',5,6,6' -OcCB		ND	14.2			U
205	2,3,3',4,4',5,5',6 -OcCB		ND	11.8			U
206	2,2',3,3',4,4',5,5',6 -NoCB		ND	14.7			U
207	2,2',3,3',4,4',5,6,6' -NoCB		ND	13.2			U
208	2,2',3,3',4,5,5',6,6' -NoCB		ND	12.2			U
209	2,2',3,3',4,4',5,5',6,6' -DeCB		ND	15.6			U

Analyzed By: HMP
Date: 13Jun07

KUG
13 Jun 07

Reviewed By: [illegible]
Date: 6/13/07

PCB Congener Results by Method 1668A
Client Project ID: 3033Cement Lok
Page 1 of 1

EPA FORM 2

SGS Environmental Services

Client Sample ID
EPA 23-Dioxin Blank

Recovery Information

No.	Labeled Standards Structure -LOC	CARP	Amount Spiked (ng)	Measured Amount (ng)	Percent Recovery (%) #	RT (min.) #	Ratio #	Qualifier
Extraction Standards					(15-150%)			
1L	13C-2 -MoCB		8.00	5.07	63.4	6:49	2.96	
3L	13C-4 -MoCB		8.00	5.26	65.7	8:20	3.16	
					(25-150%)			
4L	13C-2,2' -DiCB		8.00	3.86	48.2	8:30	1.55	
15L	13C-4,4' -DiCB		8.00	5.32	66.6	13:09	1.61	
19L	13C-2,2',6 -TrCB		8.00	4.31	53.8	10:50	1.08	
37L	13C-3,4,4' -TrCB		8.00	7.23	90.4	20:12	1.08	
54L	13C-2,2',6,6' -TeCB		8.00	5.24	65.5	13:25	0.82	
77L	13C-3,3',4,4' -TeCB		8.00	9.72	121	29:19	0.78	
81L	13C-3,4,4',5 -TeCB		8.00	9.24	116	28:35	0.78	
104L	13C-2,2',4,6,6' -PeCB		8.00	4.29	53.6	18:51	1.60	
105L	13C-2,3,3',4,4' -PeCB		8.00	7.53	94.1	34:12	1.56	
114L	13C-2,3,4,4',5 -PeCB		8.00	7.71	96.4	33:18	1.65	
118L	13C-2,3',4,4',5 -PeCB		8.00	7.50	93.8	32:34	1.62	
123L	13C-2,3',4,4',5' -PeCB		8.00	7.93	99.1	32:06	1.59	
126L	13C-3,3',4,4',5 -PeCB		8.00	8.48	106	38:43	1.58	
155L	13C-2,2',4,4',6,6' -HxCB		8.00	4.32	54.0	25:36	1.25	
156L	13C-2,3,3',4,4',5 -HxCB	C	16.0	16.0	100	43:16	1.30	
157L	13C-2,3,3',4,4',5' -HxCB	C156L						
167L	13C-2,3',4,4',5,5' -HxCB		8.00	7.79	97.4	41:34	1.26	
169L	13C-3,3',4,4',5,5' -HxCB		8.00	8.48	106	48:17	1.32	
188L	13C-2,2',3,4',5,6,6' -HpCB		8.00	3.28	41.1	33:19	1.07	
189L	13C-2,3,3',4,4',5,5' -HpCB		8.00	6.05	75.7	52:18	1.09	
202L	13C-2,2',3,3',5,5',6,6' -OcCB		8.00	3.78	47.3	41:13	0.93	
205L	13C-2,3,3',4,4',5,5',6 -OcCB		8.00	6.07	75.8	56:24	0.94	
206L	13C-2,2',3,3',4,4',5,5',6 -NoCB		8.00	5.19	64.9	59:13	0.74	
208L	13C-2,2',3,3',4,5,5',6,6' -NoCB		8.00	4.69	58.6	51:34	0.81	
209L	13C-2,2',3,3',4,4',5,5',6,6' -DeCB		8.00	4.36	54.5	61:48	1.24	
Injection Standards								
9L	13C-2,5 -DiCB		2.00			9:56	1.63	
52L	13C-2,2',5,5' -TeCB		2.00			17:49	0.82	
101L	13C-2,2',4,5,5' -PeCB		2.00			25:52	1.58	
138L	13C-2,2',3,4,4',5' -HxCB		2.00			37:03	1.27	
194L	13C-2,2',3,3',4,4',5,5' -OcCB		2.00			55:39	0.92	

Analyzed By: HMP

Reviewed By: [illegible]

Date: 13Jun07

Date: 4/13/07

Method M23
Inlet Run 1 EPA 23-Dioxin
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng)	EDL (ng)	EMPC (ng)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00891				
1,2,3,7,8-PeCDD	0.0326 J			33:39	1.46	A
1,2,3,4,7,8-HxCDD	0.0307 J			36:07	1.24	A
1,2,3,6,7,8-HxCDD	0.103 J			36:13	1.31	A
1,2,3,7,8,9-HxCDD	0.0713 J			36:27	1.14	A
1,2,3,4,6,7,8-HpCDD	0.393			39:22	1.04	
OCDD	0.232 J			43:22	0.87	A
2,3,7,8-TCDF	0.0194 J			29:34	0.68	A
1,2,3,7,8-PeCDF	0.0295 J			32:52	1.36	DPE A
2,3,4,7,8-PeCDF	0.0410 J			33:28	1.51	A
1,2,3,4,7,8-HxCDF	0.0210 J			35:28	1.40	DPE A
1,2,3,6,7,8-HxCDF	0.0243 J			35:34	1.32	DPE A
2,3,4,6,7,8-HxCDF	EMPC J	0.00565	0.0350	36:01	1.46 *	A
1,2,3,7,8,9-HxCDF	ND	0.00641				
1,2,3,4,6,7,8-HpCDF	0.0362 J			38:10	0.91	A
1,2,3,4,7,8,9-HpCDF	ND	0.00658				
OCDF	ND	0.0134				
Total TCDDs	5.55		5.64			
Total PeCDDs	3.65		3.69			
Total HxCDDs	3.38		3.42			
Total HpCDDs	0.724					
Total TCDFs	0.879		0.901			
Total PeCDFs	0.690 J		0.720			DPE
Total HxCDFs	0.307 J		0.342			DPE
Total HpCDFs	0.0785 J					
WHO-2005 TEQ (ND=0)	0.0771		0.0806			
WHO-2005 TEQ (ND=½)	0.0822		0.0854			

HJG 28 Jun 07

Client Information			**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Inlet Run 1 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-6C		Filename:	a07jun07a_3-4
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	11:25	Initial Cal:	m8290-071006e

Method M23
Inlet Run 1 EPA 23-Dioxin
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	8.0	6.06	75.8	30:30	0.78	
13C12-1,2,3,7,8-PeCDD	8.0	7.26	90.7	33:39	1.45	
13C12-1,2,3,6,7,8-HxCDD	8.0	7.49	93.6	36:13	1.26	
13C12-1,2,3,4,6,7,8-HpCDD	8.0	6.03	75.3	39:21	1.06	
13C12-OCDD	16.0	9.66	60.4	43:22	0.90	
13C12-2,3,7,8-TCDF	8.0	8.22	103	29:34	0.79	
13C12-1,2,3,7,8-PeCDF	8.0	7.60	95.0	32:52	1.57	
13C12-1,2,3,6,7,8-HxCDF	8.0	7.71	96.4	35:34	0.53	
13C12-1,2,3,4,6,7,8-HpCDF	8.0	6.52	81.5	38:10	0.45	
Sampling Standards						
37Cl4-2,3,7,8-TCDD	8.0	8.25	103	30:31	-	
13C12-2,3,4,7,8-PeCDF	8.0	7.40	92.5	33:28	1.59	
13C12-1,2,3,4,7,8-HxCDD	8.0	6.43	80.4	36:07	1.26	
13C12-1,2,3,4,7,8-HxCDF	8.0	7.11	88.8	35:28	0.52	
13C12-1,2,3,4,7,8,9-HpCDF	8.0	7.06	88.3	39:58	0.45	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	29:45	0.80	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:27	1.25	

Client Information			**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Inlet Run 1 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-6C		Filename:	a07jun07a_3-4
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	11:25	Initial Cal:	m8290-071006e

Form Version:[8290_DB_2.14]Report

Analyzed by: JW
Date: 06-11-07

Reviewed by: CM
Date: 6/11/07

Method M23
Inlet Run 2 EPA 23-Dioxin
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng)	EDL (ng)	EMPC (ng)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00925				
1,2,3,7,8-PeCDD	0.0202 J			33:40	1.51	A
1,2,3,4,7,8-HxCDD	ND	0.00531				
1,2,3,6,7,8-HxCDD	0.0463 J			36:13	1.20	A
1,2,3,7,8,9-HxCDD	0.0310 J			36:28	1.23	A
1,2,3,4,6,7,8-HpCDD	0.177 J			39:22	1.00	A
OCDD	0.100 J			43:22	0.92	A
2,3,7,8-TCDF	ND	0.00450				
1,2,3,7,8-PeCDF	0.0123 J			32:52	1.40	A
2,3,4,7,8-PeCDF	0.0150 J			33:28	1.51	A
1,2,3,4,7,8-HxCDF	0.0110 U			35:28	1.34	A
1,2,3,6,7,8-HxCDF	0.00792 J			35:33	1.18	A
2,3,4,6,7,8-HxCDF	0.0158 J			36:01	1.30	A
1,2,3,7,8,9-HxCDF	ND	0.00529				
1,2,3,4,6,7,8-HpCDF	0.0162 J			38:10	1.13	A
1,2,3,4,7,8,9-HpCDF	ND	0.00650				
OCDF	ND	0.0176				
Total TCDDs	2.56		2.65			
Total PeCDDs	1.62					
Total HxCDDs	1.48					
Total HpCDDs	0.333					
Total TCDFs	0.336					
Total PeCDFs	0.289					
Total HxCDFs	0.117		0.143			
Total HpCDFs	0.0162					
WHO-2005 TEQ (ND=0)	0.0382		0.0382			
WHO-2005 TEQ (ND=½)	0.0437		0.0437			

HVE

Client Information	28 Jun 07		**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Inlet Run 2 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-12C		Filename:	a07jun07a_3-5
Collection Date/Time:	05/18/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	12:13	Initial Cal:	m8290-071006e

Method M23
Inlet Run 2 EPA 23-Dioxin
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	8.0	6.26	78.3	30:30	0.79	
13C12-1,2,3,7,8-PeCDD	8.0	7.99	99.9	33:39	1.42	
13C12-1,2,3,6,7,8-HxCDD	8.0	7.99	99.8	36:13	1.27	
13C12-1,2,3,4,6,7,8-HpCDD	8.0	6.48	80.9	39:21	1.06	
13C12-OCDD	16.0	10.5	65.9	43:22	0.91	
13C12-2,3,7,8-TCDF	8.0	8.45	106	29:34	0.79	
13C12-1,2,3,7,8-PeCDF	8.0	8.30	104	32:52	1.58	
13C12-1,2,3,6,7,8-HxCDF	8.0	8.13	102	35:34	0.53	
13C12-1,2,3,4,6,7,8-HpCDF	8.0	6.93	86.6	38:10	0.45	
Sampling Standards						
37Cl4-2,3,7,8-TCDD	8.0	7.90	98.7	30:31	-	
13C12-2,3,4,7,8-PeCDF	8.0	6.88	86.0	33:28	1.59	
13C12-1,2,3,4,7,8-HxCDD	8.0	6.17	77.1	36:07	1.27	
13C12-1,2,3,4,7,8-HxCDF	8.0	6.85	85.7	35:28	0.52	
13C12-1,2,3,4,7,8,9-HpCDF	8.0	7.01	87.6	39:58	0.45	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	29:45	0.80	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:27	1.25	

Client Information			**Sample Information**		
Project Name:	3033Cement Lok		Report Basis:	Wet	
			Matrix:	Air	
Sample ID:	Inlet Run 2 EPA 23-Dioxin		Weight / Volume:	1 train	
			Solids / Lipids:	NA	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG14289	
Project ID:	G733-4		Instrument:	HRMS1	
Sample ID:	G733-4-12C		Filename:	a07jun07a_3-5	
Collection Date/Time:	05/18/07		Retchk:	a07jun07a_2-14	
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14	
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14	
Analysis Date/Time:	06/08/07	12:13	Initial Cal:	m8290-071006c	

Form Version:[8290_DB_2.14]Report

Analyzed by: [signature]
Date: 06-11-07

Reviewed by: [signature]
Date: 4/11/07

Method M23
Outlet Run 1 EPA 23-Dioxin
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng)	EDL (ng)	EMPC (ng)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00720				
1,2,3,7,8-PeCDD	ND	0.00500				
1,2,3,4,7,8-HxCDD	ND	0.00500				
1,2,3,6,7,8-HxCDD	ND	0.00500				
1,2,3,7,8,9-HxCDD	ND	0.00500				
1,2,3,4,6,7,8-HpCDD	ND	0.00877				
OCDD	ND	0.0176				
2,3,7,8-TCDF	ND	0.00434				
1,2,3,7,8-PeCDF	ND	0.00500				
2,3,4,7,8-PeCDF	ND	0.00500				
1,2,3,4,7,8-HxCDF	ND	0.00500				
1,2,3,6,7,8-HxCDF	ND	0.00500				
2,3,4,6,7,8-HxCDF	ND	0.00500				
1,2,3,7,8,9-HxCDF	ND	0.00500				
1,2,3,4,6,7,8-HpCDF	0.0182 J			38:10	1.11	A
1,2,3,4,7,8,9-HpCDF	ND	0.00671				
OCDF	ND	0.0156				
Total TCDDs	ND	0.00720				
Total PeCDDs	ND	0.00500				
Total HxCDDs	ND	0.00500				
Total HpCDDs	ND	0.00877				
Total TCDFs	ND	0.00434				
Total PeCDFs	ND	0.00500				
Total HxCDFs	ND	0.00500				
Total HpCDFs	0.0182					
WHO-2005 TEQ (ND=0)	0.000182		0.000182			
WHO-2005 TEQ (ND=½)	0.00916		0.00916			

HVE

Client Information	28 Jun 07		**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Outlet Run 1 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-18C		Filename:	a07jun07a_3-6
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	13:00	Initial Cal:	m8290-071006e

Method M23
Outlet Run 1 EPA 23-Dioxin
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	8.0	6.48	81.0	30:30	0.79	
13C12-1,2,3,7,8-PeCDD	8.0	7.75	96.8	33:39	1.45	
13C12-1,2,3,6,7,8-HxCDD	8.0	7.92	99.0	36:13	1.26	
13C12-1,2,3,4,6,7,8-HpCDD	8.0	6.27	78.4	39:21	1.04	
13C12-OCDD	16.0	10.1	63.1	43:22	0.90	
13C12-2,3,7,8-TCDF	8.0	8.60	108	29:34	0.80	
13C12-1,2,3,7,8-PeCDF	8.0	8.44	106	32:52	1.60	
13C12-1,2,3,6,7,8-HxCDF	8.0	8.06	101	35:34	0.53	
13C12-1,2,3,4,6,7,8-HpCDF	8.0	6.62	82.7	38:10	0.45	
Sampling Standards						
37Cl4-2,3,7,8-TCDD	8.0	8.57	107	30:31	-	
13C12-2,3,4,7,8-PeCDF	8.0	7.47	93.4	33:28	1.59	
13C12-1,2,3,4,7,8-HxCDD	8.0	6.54	81.8	36:07	1.27	
13C12-1,2,3,4,7,8-HxCDF	8.0	7.30	91.2	35:28	0.52	
13C12-1,2,3,4,7,8,9-HpCDF	8.0	7.46	93.2	39:58	0.45	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	29:45	0.80	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:27	1.25	

Client Information			**Sample Information**		
Project Name:	3033Cement Lok		Report Basis:	Wet	
			Matrix:	Air	
Sample ID:	Outlet Run 1 EPA 23-Dioxin		Weight / Volume:	1 train	
			Solids / Lipids:	NA	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG14289	
Project ID:	G733-4		Instrument:	HRMS1	
Sample ID:	G733-4-18C		Filename:	a07jun07a_3-6	
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14	
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14	
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14	
Analysis Date/Time:	06/08/07	13:00	Initial Cal:	m8290-071006e	

Form Version:[8290_DB_2.14]Report

Analyzed by: JWP
Date: 06-11-07

Reviewed by: [illegible]
Date: 6/11/07

Method M23
Outlet Run 2 EPA 23-Dioxin
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng)	EDL (ng)	EMPC (ng)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00647				
1,2,3,7,8-PeCDD	ND	0.00500				
1,2,3,4,7,8-HxCDD	ND	0.00500				
1,2,3,6,7,8-HxCDD	ND	0.00500				
1,2,3,7,8,9-HxCDD	ND	0.00500				
1,2,3,4,6,7,8-HpCDD	ND	0.00809				
OCDD	ND	0.0175				
2,3,7,8-TCDF	ND	0.00381				
1,2,3,7,8-PeCDF	ND	0.00500				
2,3,4,7,8-PeCDF	ND	0.00500				
1,2,3,4,7,8-HxCDF	ND	0.00500				
1,2,3,6,7,8-HxCDF	ND	0.00500				
2,3,4,6,7,8-HxCDF	ND	0.00500				
1,2,3,7,8,9-HxCDF	ND	0.00500				
1,2,3,4,6,7,8-HpCDF	0.0177 J			38:10	1.11	A
1,2,3,4,7,8,9-HpCDF	ND	0.00521				
OCDF	ND	0.0159				
Total TCDDs	ND	0.00647				
Total PeCDDs	ND	0.00500				
Total HxCDDs	ND	0.00500				
Total HpCDDs	ND	0.00809				
Total TCDFs	ND	0.00381				
Total PeCDFs	ND	0.00500				
Total HxCDFs	ND	0.00500				
Total HpCDFs	0.0177					
WHO-2005 TEQ (ND=0)	0.000177		0.000177			
WHO-2005 TEQ (ND=½)	0.00875		0.00875			

HUG

Client Information	28 Jun 07		**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Outlet Run 2 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-24C		Filename:	a07jun07a_3-7
Collection Date/Time:	05/18/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	13:48	Initial Cal:	m8290-071006e

Method M23
Outlet Run 2 EPA 23-Dioxin
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	8.0	6.96	87.0	30:30	0.78	
13C12-1,2,3,7,8-PeCDD	8.0	9.15	114	33:37	1.40	
13C12-1,2,3,6,7,8-HxCDD	8.0	8.66	108	36:13	1.27	
13C12-1,2,3,4,6,7,8-HpCDD	8.0	6.57	82.2	39:21	1.05	
13C12-OCDD	16.0	10.3	64.3	43:22	0.90	
13C12-2,3,7,8-TCDF	8.0	9.51	119	29:34	0.79	
13C12-1,2,3,7,8-PeCDF	8.0	9.64	121	32:52	1.59	
13C12-1,2,3,6,7,8-HxCDF	8.0	8.80	110	35:34	0.53	
13C12-1,2,3,4,6,7,8-HpCDF	8.0	7.50	93.8	38:10	0.45	
Sampling Standards						
37Cl4-2,3,7,8-TCDD	8.0	7.74	96.8	30:31	-	
13C12-2,3,4,7,8-PeCDF	8.0	6.53	81.6	33:28	1.58	
13C12-1,2,3,4,7,8-HxCDD	8.0	6.00	74.9	36:07	1.27	
13C12-1,2,3,4,7,8-HxCDF	8.0	6.85	85.6	35:28	0.52	
13C12-1,2,3,4,7,8,9-HpCDF	8.0	6.18	77.3	39:58	0.45	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	29:45	0.79	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:27	1.26	

Client Information			**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	Outlet Run 2 EPA 23-Dioxin		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-24C		Filename:	a07jun07a_3-7
Collection Date/Time:	05/18/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	13:48	Initial Cal:	m8290-071006e

Form Version:[8290_DB_2.14]Report

Analyzed by: JWP
Date: 06-11-07

Reviewed by: BW
Date: 6/14/07

(Field Blank)

Method M23
EPA 23-Dioxin Blank
Gas Technology Institute

Analytical Data Summary Sheet

Analyte	Amount (ng)	EDL (ng)	EMPC (ng)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00891				
1,2,3,7,8-PeCDD	ND	0.00500				
1,2,3,4,7,8-HxCDD	ND	0.00500				
1,2,3,6,7,8-HxCDD	ND	0.00500				
1,2,3,7,8,9-HxCDD	ND	0.00500				
1,2,3,4,6,7,8-HpCDD	ND	0.00957				
OCDD	ND	0.0168				
2,3,7,8-TCDF	ND	0.00426				
1,2,3,7,8-PeCDF	ND	0.00500				
2,3,4,7,8-PeCDF	ND	0.00500				
1,2,3,4,7,8-HxCDF	ND	0.00500				
1,2,3,6,7,8-HxCDF	ND	0.00500				
2,3,4,6,7,8-HxCDF	ND	0.00500				
1,2,3,7,8,9-HxCDF	ND	0.00500				
1,2,3,4,6,7,8-HpCDF	ND	0.00500				
1,2,3,4,7,8,9-HpCDF	ND	0.00560				
OCDF	ND	0.0109				
Total TCDDs	ND	0.00891				
Total PeCDDs	ND	0.00500				
Total HxCDDs	ND	0.00500				
Total HpCDDs	ND	0.00957				
Total TCDFs	ND	0.00426				
Total PeCDFs	ND	0.00500				
Total HxCDFs	ND	0.00500				
Total HpCDFs	ND	0.00560				
WHO-2005 TEQ (ND=0)	ND		ND			
WHO-2005 TEQ (ND=½)	0.00985		0.00985			

Client Information			**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	EPA 23-Dioxin Blank		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-29C		Filename:	a07jun07a_3-8
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	14:35	Initial Cal:	m8290-071006e

Method M23
EPA 23-Dioxin Blank
Gas Technology Institute

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	8.0	6.06	75.8	30:30	0.79	
13C12-1,2,3,7,8-PeCDD	8.0	7.97	99.6	33:39	1.43	
13C12-1,2,3,6,7,8-HxCDD	8.0	6.81	85.2	36:13	1.26	
13C12-1,2,3,4,6,7,8-HpCDD	8.0	5.98	74.8	39:22	1.05	
13C12-OCDD	16.0	10.1	63.0	43:22	0.90	
13C12-2,3,7,8-TCDF	8.0	8.16	102	29:34	0.79	
13C12-1,2,3,7,8-PeCDF	8.0	8.59	107	32:52	1.58	
13C12-1,2,3,6,7,8-HxCDF	8.0	7.08	88.6	35:34	0.53	
13C12-1,2,3,4,6,7,8-HpCDF	8.0	6.35	79.3	38:10	0.45	
Injection Standards						
13C12-1,2,3,4-TCDD	2.0	-	-	29:45	0.79	
13C12-1,2,3,7,8,9-HxCDD	2.0	-	-	36:28	1.26	

Client Information			**Sample Information**	
Project Name:	3033Cement Lok		Report Basis:	Wet
			Matrix:	Air
Sample ID:	EPA 23-Dioxin Blank		Weight / Volume:	1 train
			Solids / Lipids:	NA %
			Original pH :	NA
Laboratory Information			Batch ID:	WG14289
Project ID:	G733-4		Instrument:	HRMS1
Sample ID:	G733-4-29C		Filename:	a07jun07a_3-8
Collection Date/Time:	05/17/07		Retchk:	a07jun07a_2-14
Receipt Date/Time:	05/19/07	14:49	Begin ConCal:	a07jun07a_2-14
Extraction Date:	06/06/07		End ConCal:	a07jun07a_3-14
Analysis Date/Time:	06/08/07	14:35	Initial Cal:	m8290-071006e

Form Version:[8290_DB_2.14]Report

Analyzed by: [illegible]
Date: [illegible]

Reviewed by: [illegible]
Date: 6/11/07

Airnova

5845 Clayton Avenue
Pennsauken, NJ 08109

Project ID: GTI Cement Lock

Sulfuric Acid, Sulfur Dioxide
And Particulates

EPA Methods 8, 5 & 202 Analysis

Analytical Report
9181

el1

Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 9181
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:

Shalee Wilcox, Analyst
June 27, 2007

Report Reviewed and Finalized By:

Ken Smith, Laboratory Director
June 27, 2007

SUMMARY OF RESULTS

Summary of Analysis

Summary of Method 8 Analysis

E1 ID#	M8-Inlet-Run-1 9181-14	M8-Inlet-Run-2 9181-15	M8-Outlet-Run 1 9181-16	M8-Outlet-Run 2 9181-17
Assay	Total mg	Total mg	Total mg	Total mg
Sulfuric Acid	36.7	4.82	2.66	58.8
Sulfur Dioxide	345	764	1.92	5.15
Duplicate RPD, %	0%	0%	0%	4.1%

Summary of Method 8 Analysis

E1 ID#	M8-Reagent Blank 9181-18
Assay	Total mg
Sulfuric Acid	0.15
Sulfur Dioxide	0.13
Duplicate RPD, %	0%

Summary of Analysis

Summary of Method 5 Particulate Analysis

Fraction	M5-Outlet-Run 1 e9181-11 Catch, mg	M5-Outlet-Run 2 e9181-12 Catch, mg	M5-Reagent Blank e9181-13 Catch, mg
Filter	239.2	18.0	<0.1
Rinse	17.0	7.7	0.1
Total PM	256.2	25.7	0.1

Summary of Analysis

Summary of Method 202 Particulate Analysis

Fraction	M202-Outlet-Run 1 e9181-11 Catch, mg	M202-Outlet-Run 2 e9181-12 Catch, mg	M202-Reagent Blank e9181-13 Catch, mg
Inorganic CPM	459.5	199.3	1.9
Organic CPM	2.3	0.3	0.3
Total CPM	461.8	199.6	2.2

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	AIRNOVA	Element One #:	9181
Client ID:	GTI Cement Lock	Analyst:	SW
Method:	M8, M5 & M202	Dates Received:	05/19/07
Analytes:	H2SO4, SO2 & Particulates	Dates Analyzed:	06/20-22/07

Summary of Analysis

The samples were prepared according to Method 8 protocol. The samples were analyzed for sulfuric acid and sulfur dioxide by barium-thorin titration.

The Method 5 particulate samples were analyzed in accordance with EPA Method 5 guidelines.

The Method 202 samples were prepared, extracted and measured according to method protocol.

Detection Limits

The method 8 detection limit was 0.2mg for sulfuric acid and sulfur dioxide.

Analysis QA/QC

All Laboratory QA/QC guidelines were followed in the analysis of the samples. Duplicate analyses relative percent difference (RPD) data is summarized in the quality control data. All QA/QC data was within the criteria of the method. All Laboratory QA/QC guidelines were followed in the analysis of the samples.

Additional Comments

The Method 8 and Method 202 reported results have not been corrected for any blank or spike recovery values. The Method 5 blank correction factor has been implemented. Nothing unusual was noticed with any of the samples or analyses.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Duplicate Analysis RPD

(Laboratory QC limits: :< 10% for RPD)

	M8-Inlet-Run-1	M8-Inlet-Run-2	M8-Outlet-Run 1	M8-Outlet-Run 2
E1 ID#	9181-14	9181-15	9181-16	9181-17
Assay	RPD	RPD	RPD	RPD
Sulfuric Acid	0%	0%	0%	4.1%
Sulfur Dioxide	0%	0%	0%	0%

Duplicate Analysis RPD

(Laboratory QC limits: :< 10% for RPD)

	M8-Reagent Blank
E1 ID#	9181-18
Assay	RPD
Sulfuric Acid	0%
Sulfur Dioxide	0%

SAMPLE CUSTODY

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AirNova, Inc.

5845 Clayton Avenue, Pennsauken, New Jersey 08109
(856) 486-1500 • FAX 486-9896

COC DOCUMENTATION# —
PAGE 1 OF 1

e9181

CHAIN OF CUSTODY DOCUMENTATION FORM

PROJECT NUMBER 3033
PLANT GTI @ Cement Lock, Bayonne NJ
SAMPLE LOCATION Carbon BED

SAMPLE DATE 5-18-07
RECOVERY DATE 5-18-07
SAMPLE RECOVERED BY AIRNOVA

TEST SET	COLLECTION METHOD	RUN#	SAMPLE MATRIX (INDICATE # OF SAMPLES): SILICA GEL	QUARTZ FILTER	OTHER FILTER (SPECIFY)	ACETONE	WATER	IPA	H2O2	H2SO4	HYDROXIDE NaOH	SPECIFY OTHER GAIN mls	CONTAINER: HDPE BOTTLE	GLASS BOT	PETRI DISH	TEDLAR BAG	SPECIFY OTHER	PRESERVATION: ICE	SPECIFY OTHER	SAFETY SEAL INTACT (Y/N)	PRIORITY RESULTS (X) FOR YES
let	EPA26A	1		Q3479			3			1		+860mls	3	1	1						
↓	"	2		Q3515			3			1		+995mls	3	1	1						
Tlet	"	1		Q3508			3			1		+910mls	3	1	1						
↓	"	2		Q3513			3			1		+935mls	3	1	1						
	BLANKS	Blank								1	1		2								
let	EPA8-SOx	1		Q3509			1	2	1				3	1	1						
↓	"	2		Q3514			1	2	1				3	1	1			X			
Tlet	"	1		Q3337			1	2	1				3	1	1						
↓	"	2		Q3512			1	2	1				3	1	1						
	BLANK	Blank						1	1				2								

RELINQUISHED BY: Kenneth E. [illegible] DATE: 5/19/07 RELINQUISHED BY: _____ DATE: _____ RELINQUISHED BY: _____ DATE: _____

RECEIVED BY: Paul Smith TIME: 1330 RECEIVED BY: Paul Smith TIME: RECEIVED BY: TIME:

COPY

AirNova, Inc.

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(856) 486-1500 • FAX 486-9896

COC DOCUMENTATION# ____
PAGE 1 OF 1

e9181

CHAIN OF CUSTODY DOCUMENTATION FORM

PROJECT NUMBER 3033
PLANT GTI @ Cement Lock, Bayonne, NJ
SAMPLE LOCATION Carbon BED

SAMPLE DATE 5-16, 17-07
RECOVERY DATE 5-16, 17-07
SAMPLE RECOVERED BY AIRNOVA

TEST SET	COLLECTION METHOD	RUN#	SAMPLE MATRIX (INDICATE # OF SAMPLES) SILICA GEL	QUARTZ FILTER	ACETONE OTHER	FRONT HNO3	WATER		H2O2/HNO3	H2SO4/KMnO4	3rd Imp rinse container SA	SPECIFY OTHER	CONTAINER HDPE BOTTLE	GLASS BOT	PETRI DISH	TEDLAR BAG	SPECIFY OTHER	PRESERVATION ICE	SPECIFY OTHER	SAFETY SEAL INTACT (Y/N)	PRIORITY RESULTS (X) FOR YES
let	EPA29	1		Q3466		1			3	1	1	HCl(1)		7	1						
"	"	2		Q3504		1			3	1	1	HCl(1)		7	1						
	EPA29	Blanks		Q3507		1			1	1	1	HCl(1)		5	1						
tlet	EPA29	1		Q3467		1			3	1	1	HCl(1)		7	1						
"	"	2		Q3500		1			3	1	1	HCl(1)		7	1						
let	EPA5/EPA202	1		Q3370	1		3					1-MeCl2		5	1						
"	"	2		Q3371	1		3					1-MeCl2		5	1						
"	"	Blanks		Q3505	1		1					1-MeCl2		3	1						

RELINQUISHED BY: Joe Jackson DATE: 5/18/07
RECEIVED BY: Kenneth Ellis TIME: 10pm

RELINQUISHED BY: Kenneth Ellis DATE: 5-19-07
RECEIVED BY: Dan L Smith TIME: 1330

RELINQUISHED BY: ____ DATE: ____
RECEIVED BY: ____ TIME: ____

ANALYTICAL DATA

One **AIR TESTING SAMPLE SUBMISSION FORM** **Lab ID 9181**

Analysis Due Date 06.25.07
QA/QC/Report Due Date 06.26.07

Client	AIRNOVA
Project No	3033
Project ID	GTI @ Cement Lock Bayonne NJ

Bill to
SGS / Paradigm

Date Rec	05.19.07
Time Rec	1330
Rec by	PDS

HNO_3 Lot:	HF Lot:	HCl Lot:	**Ref. Method:**
Volume Marked Y / N	Volume Loss Y / N / ?	pH < 2.0 Y / N	**8**

Sample Identification

14	M8-Inlet-Run 1	16	M8-Outlet-Run 1	18	M8-Reagent Blank
15	M8-Inlet-Run 2	17	M8-Outlet-Run 2		

Analyses Requested: Samples 14-18 H2SO4 (including H2SO4 mist plus SO3) and SO4

Runs/FB	Front Half					Back Half			
Lab ID	Quartz Filter	IPA Catch		IPA Wash		H2O2 Catch		Water Wash	
	ID	BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml
14	Q3509	780		218		440		176	
15	Q3514	850		132		420		176	
16	Q3337	830		254		420		178	
17	Q3512	840		138		430		104	

Reagent Blanks

Lab ID	Fractions	BV, ml	FV, ml	Notes
18	IPA	296		
	H_2O_2	198		

Lab Communications Received Analytical Parameters 05.23.07 PDS

Proceed with M29 & M26A Analyses Hold M5/202 & M8 until further verification (per C. Cornwell-SGS-05.23.07 via phone

Archive m5/202 & m8 via phone verification C. Cornwell 06.06.07 SW

Analyse m8 per Jo Jackson phone verification 06.11.07 SW

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SS by Paula Sim
5/25/2007 12:14:46 PM

M26A Imp 1&2Prep By / Date
M26A Imp 3&4 Prep By/Date
M8 Prep By/Date 06.20.07 SW
ID Verification By / Date 05.29.07 SW

01

One **AIR TESTING SAMPLE SUBMISSION FORM** **Lab ID 9181**

Analysis Due Date 06·25·07
QA/QC/Report Due Date 06·26·07

Client	AIRNOVA
Project No	3033
Project ID	GTI @ Cement Lock Bayonne NJ

Bill to
SGS / Paradigm

Date Rec	05.19.07
Time Rec	1330
Rec by	PDS

HNO_3 Lot:	HF Lot:	HCl Lot:	**Ref. Method:**
Volume Marked Y / N	Volume Loss Y / N / ?	pH < 2.0 Y / N	**5/202**

Sample Identification

11	M5/202-Outlet-Run 1	13	M5/202-Reagent BLank		
12	M5/202-Outlet-Run 2				

Analyses Requested	Samples 11-13	PM / Condensibles

Runs / FB	Quartz Filter	FH Acetone Rinse	Imp. + H_2O Rinse	Imp. $MeCl_2$ Rinse
Lab ID.	~~0~~ SW	BV, ml	BV, ml	BV, ml
11	Q3310	280	2390	180
12	Q3311	198	2225	60
13	Q3505	200	305	220

Lab Communications Received Analytical Parameters 05.23.07 PDS

Proceed with M29 & M26A Analyses Hold M5/202 & M8 until further verification (per C. Cornwell-SGS-05.23.07 via phone

Archive M5/202 + M8 via phone C. Cornwell 06·06·07 SW

Analyze M5/202 per Jo Jackson phone verification 06·11·07 SW

SS Page 3 of 4
SS by Paul Smith
5/25/2007 12:14:58 PM

FH Prep By/Date _____ A Prep By/Date _____
BH Prep By/Date _____ B Prep By/Date _____
BH/FH Prep By/Date _____ C Prep By/Date _____
M5 Prep By/Date 06·20·07 M202 Prep By/Date 06·20·07 SW
ID Verification By / Date 05·29·07 SW

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Method 8 Calculation Sheet

Ref Method: EPA Methods 6 & 8

Client: Airnova
Analyst: Shalee Wilcox

Date	06.20.07		
Time analysis begun	12:00		
Time analysis finish	16:00		
Sulfuric Acid Lot #	6345	Normality:	0.0025
Barium Chloride Std(0.01) Lot#	101106-1	C_{H2SO4}=(49.04*N*Vt*Final Vol.)/Alq.	
Thorin Indicater Lot #	100406-1	Minimum Titrant Vol. ml =	0.05

Lab #: 9181

Duplicate All Samples

Duplicates must Agree By 1% or +/- 0.2ml

C_{SO2}=(32.03*N*Vt*Final Vol.)/Alq.

Sample Number	Sample Final Volume, ml	Sample Volume, ml	Starting Titrant Vol, ml (S)	Final Titrant Vol, ml (F)	Titrant Vol, ml	Dilution (V)	Total SO_2 mg	Total H2SO4 (SO3) mg	% RPD	Comments
*Standardization		1	0.00	4.00	4.00	BaCl Normality (N)=		0.0100	To be used in All Calculatio	
9181-14 FH	998	20	0.00	1.50	1.50	1		36.7		
9181-14 dup	998	20	1.50	3.00	1.50	1		36.7	0%	
9181-15 FH	982	30	3.00	3.30	0.30	1		4.82		
9181-15 dup	982	30	3.30	3.60	0.30	1		4.82	0%	
9181-16 FH	1084	20	4.00	4.10	0.10	1		2.66		
9181-16 dup	1084	20	4.10	4.20	0.10	1		2.66	0%	
9181-17 FH	978	20	4.20	6.70	2.50	1		60.0		
9181-17 dup	978	20	6.70	9.10	2.40	1		57.6	4.1%	
9181-18 FH	296	100	9.10	9.20	0.10	1		0.15		
9181-18dup	296	100	9.20	9.30	0.10	1		0.15	0%	
9181-14 BH	616	10	0.00	17.50	17.50	1	345			
9181-14dup	616	10	17.50	35.00	17.50	1	345		0%	
9181-15 BH	596	10	0.00	40.00	40.00	1	764			
9181-15dup	596	10	0.00	40.00	40.00	1	764		0%	
9181-16 BH	598	10	4.00	4.10	0.10	1	1.92			
9181-16dup	598	10	4.10	4.20	0.10	1	1.92		0%	
9181-17 BH	536	10	4.50	4.80	0.30	1	5.15			
9181-17dup	536	10	4.80	5.10	0.30	1	5.15		0%	
9181-18 BH	198	50	5.10	5.20	0.10	1	0.13			
9181-18dup	198	50	5.20	5.30	0.10	1	0.13		0%	
H2SO4 DL	100	100			0.05	1	0.02	0.02		
SO2 DL	100	100			0.05	1	0.02	0.02		

Submitted for QA/QC - Date: 06.21.07 By: (Print) Shalee Wilcox (sign): Shalee Wilcox

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Client

Method 5 Particulate

Lab # **e 9181**

Balance checks

Date: 06.21.07	2 g =	1.9999
Date: 06.22.07		1.9999
Date:		

Acetone Concentration 7.91E-06 mg/mg

Filters

Sample ID #	Filter ID	Bag ID	A	B		B		B		
			Bag Tare, g	Date 06.12.07 Initals SW		Date 06.21-22.07 Initals SW		Date Initals		Catch Description and Loading
				Time	Bag & Filter Weight, g	Time	Bag & Filter Weight, g	Time	Bag & Filter Weight, g	
9181-11	Q3370	84	4.2916	10:50	5.0940	13:31	5.0943			
9181-12	Q3371	2368	3.2838	10:49	3.8542	7:26	3.8539			
Client Blk HERE	Q3505	744	3.5273	18:28	4.0324	7:27	4.0326			
E1 Blank										

Acetone Rinses

Sample ID #	Sample Volume, ml	Bag ID	C	D		D		D		
			Bag Tare, g	Date 06.21.07 Initals SW		Date 06.21.07 Initals SW		Date Initals		Catch Description and Loading
				Time	Bag & Sample Weight, g	Time	Bag & Sample Weight, g	Time	Bag & Sample Weight, g	
9181-11	280	A44	3.4044	10:54	3.4218	18:30	3.4217			
9181-12	198	229	4.1134	10:50	4.1213	18:26	4.1214			
Client Acet Blk HERE	100	233	4.0365	10:55	4.0366	18:26	4.0370			
E1 Acetone Blank	100	2364	3.6568	10:52	3.6570	18:25	3.6573			

Total Catches

Sample ID #	Filter ID	Filter Tare, g	Final Filter + Catch, g	**Filter Catch, mg**	Acetone Bag ID	Bag Tare, g	Final Bag + Acetone Weight, g	Acetone blank, mg	**Acetone Catch, mg**	**Total Catch, mg**
9181-11	Q3370	0.5632	5.0940	239.2	A44	3.4044	3.4217	0.3	17.0	256.2
9181-12	Q3371	0.5521	3.8539	18.0	229	4.1134	4.1213	0.2	7.7	25.7
0	0	0	0.0000	0.0	0	0	0	0.0	0.0	0.0
	0	0	0.0000	0.0	0	0	0	0.0	0.0	0.0
	0	0	0.0000	0.0	0	0	0	0.0	0.0	0.0
	0	0	0.0000	0.0	0	0	0	0.0	0.0	0.0
Client Ace Blk	Q3505	0.5052	4.0324	-0.1	233	4.0365	4.0366	0.0	0.1	0.0
e1 Ace Blk	0	0	0.0000	0.0	2364	3.6568	3.6570	0.0	0.2	0.2

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Method 202 Particulate

Lab # **e9181**

Client

Balance checks Date: 06.21.07 2 g = 1.9999 Date:
Date: 06.22.07 1.9999 Date:
Date: Date:

Impinger Water

Sample ID #	Sample Water Volume, ml	Beaker ID	Beaker Tare, g	Date 06.21.07 Initials SW		Date 06.21-22.07 Initials SW		Date Initials		Concen-tration SO4 in sample, mg/ml	Catch Description and Loading
				Time	Beaker & Sample Wt., g	Time	Beaker & Sample Wt., g	Time	Beaker & Sample Wt., g		
9181-11	2385	2201	3.8083	10:44	4.2678	13:35	4.2674				
9181-12	2220	2221	3.7936	10:45	3.9929	18:20	3.9933				
Client Water Blk	300	2211	3.8070	10:46	3.8089	18:20	3.8086				
Element 1 Water Blk	300	2251	3.7967	10:45	3.7970	18:19	3.7975				

Methylene Chloride Extract

Sample ID #	Sample MeCl2 Volume, ml	Baggie ID	Baggie Tare, g	Date 06.21.07 Initials SW		Date 06.21-22.07 Initials SW		Date Initials		Total Extraction MeCl2 Volume, ml	Catch Description and Loading
				Time	Baggie & Sample Wt., g	Time	Baggie & Sample Wt., g	Time	Baggie & Sample Wt., g		
9181-11	180	13	4.4523	18:23	4.4546	13:30	4.4550				
9181-12	60	600	4.1761	10:51	4.1769	18:25	4.1764				
Client MeCl2 Blk	220	2036	3.3127	10:53	3.3130	7:27	3.3131				
Element 1 MeCl2 Blk	100	42	4.2258	10:53	4.2261	18:23	4.2263				

Total Catches

Sample ID #	NH4 added, mg	Beaker Tare, g	Beaker + Water Catch, g	Water blank, mg	**Inorganic Catch, mg**	MeCl2 Bag ID	Baggie Tare, g	Baggie + MeCl2 Weight, g	MeCl2 blank, mg	**Organic Catch, mg**	**Total CPM Catch, mg**
9181-11	0.0	3.8083	4.2678	0.0	459.5	13	4.4523	4.4546	0.0	2.3	461.8
9181-12	0.0	3.7936	3.9929	0.0	199.3	600	4.1761	4.1764	0.0	0.3	199.6
0	0.0	0.0000	0.0000	0.0	0.0	0	0.0000	0	0.0	0.0	0.0
0	0.0	0.0000	0.0000	0.0	0.0	0	0.0000	0	0.0	0.0	0.0
0	0.0	0.0000	0.0000	0.0	0.0	0	0.0000	0	0.0	0.0	0.0
0	0.0	0.0000	0.0000	0.0	0.0	0	0.0000	0	0.0	0.0	0.0
Client Water Blk	0.0	3.8070	3.8089	0.0	1.9	2036	3.3127	3.313	0.0	0.3	2.2
ement 1 Water B	0.0	3.7967	3.7970	0.0	0.3	42	4.2258	4.2261	0.0	0.3	0.6

AirNova, Inc.
5845 Clayton Avenue, Pennsauken, New Jersey 08109
(856) 486-1500 • FAX 486-9896 • www.airnova.com

Multimetals EPA Method 29 (40 CFR Pt.60, App. A-8 7-06 Ed.)
AirNova Project # 3033
GTI @ Cement-Lock
Project ID: SGS/Element One

Dates Sampled:
May 2007 - Inlet

For blank corrections, the total mass of a metal collected is M(t) where
M(t)=[M(fh)-M(fhb)] + [M(bh)-M(bhb)].
For Mercury, M(t)=[M(fh)-M(fhb)] + [M(bh)-M(bhb)] + [M(bh3)-M(bhb3)].

Inlet **Run # 1 (Blank Corrections)**

	M	M(b)	M(bh)	M(bhb)	M(bh3)	M(bhb3)	**Total Mass M(t)**
	ug	ug	ug	ug	ug	ug	ug
As	10.70	0.00					**10.7**
Ba	17.5	7.31					**10.2**
Cd	4.73	2.51					**2.22**
Cr	7.11	0.93					**6.2**
Co	0.46	0.00					**0.46**
Cu	12.2	0.823					**11.4**
Pb	40.1	0.559					**39.5**
Mn	25.3	1.02					**24.3**
Ni	3.96	0.664					**3.3**
Se	10.800	0.00					**10.8**
Ag	2.18	0.353					**1.83**
Zn	112.0	6.74					**105**
Hg	0.00	0.00	182.0	0.00	16.9	0.0	**199**

Inlet **Run # 2 (Blank Corrections)**

	M	M(b)	M(bh)	M(bhb)	M(bh3)	M(bhb3)	**Total Mass M(t)**
	ug	ug	ug	ug	ug	ug	ug
As	3.67	0.00					**3.67**
Ba	20.2	7.31					**12.9**
Cd	32.10	2.51					**29.6**
Cr	7.55	0.93					**6.6**
Co	2.75	0.00					**2.75**
Cu	11.60	0.82					**10.8**
Pb	45.90	0.56					**45.3**
Mn	5.23	1.02					**4.2**
Ni	8.07	0.66					**7.4**
Se	5.21	0.00					**< 0.2**
Ag	1.48	0.35					**1.13**
Zn	198.0	6.74					**191**
Hg	0.00	0.00	178.0	0.00	6.0	0.0	**184**

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AirNova Project # 3033
GTI @ Cement-Lock
Project ID: SGS/Element One

Dates Sampled:
May 2007 - Outlet

For blank corrections, the total mass of a metal collected is M(t) where
M(t)=[M(fh)-M(fhb)] + [M(bh)-M(bhb)].
For Mercury, M(t)=[M(fh)-M(fhb)] + [M(bh)-M(bhb)] + [M(bh3)-M(bhb3)].

Outlet **Run # 1 (Blank Corrections)**

	M	M(b)	M(bh)	M(bhb)	M(bh3)	M(bhb3)	**Total Mass M(t)**
	ug	ug	ug	ug	ug	ug	ug
As	2.05	0.00					**2.1**
Ba	22.3	7.31					**15.0**
Cd	7.61	2.51					**5.10**
Cr	16.50	0.93					**15.6**
Co	1.14	0.00					**1.14**
Cu	25.8	0.823					**25.0**
Pb	37.8	0.559					**37.2**
Mn	129	1.02					**128**
Ni	13.50	0.664					**12.8**
Se	0.225	0.00					**0.23**
Ag	2.18	0.353					**1.83**
Zn	89.6	6.74					**82.9**
Hg	0.00	0.00	0.0	0.00	0.0	0.0	**< 3.5**

Outlet **Run # 2 (Blank Corrections)**

	M	M(b)	M(bh)	M(bhb)	M(bh3)	M(bhb3)	**Total Mass M(t)**
	ug	ug	ug	ug	ug	ug	ug
As	2.33	0.00					**2.33**
Ba	18.6	7.31					**11.3**
Cd	6.59	2.51					**4.08**
Cr	10.30	0.93					**9.4**
Co	1.07	0.00					**1.07**
Cu	29.40	0.82					**28.6**
Pb	38.50	0.56					**37.9**
Mn	119	1.02					**118.0**
Ni	8.35	0.66					**7.7**
Se	0.00	0.00					**< 0.2**
Ag	2.86	0.35					**2.51**
Zn	98.0	6.74					**91.3**
Hg	0.00	0.00	0.0	0.00	1.3	0.0	**< 4.21**

Air Nova

5845 Clayton Ave
Pennsauken, NJ 08109

Project Number: 3033

Arsenic, Barium,
Cadmium, Chromium, Cobalt,
Copper, Lead, Manganese,
Nickel, Selenium, Silver,
Zinc and Mercury

EPA Method 29 Analysis

Analytical Report
9181-M29

el1

Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 9181-M29
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:

Daphne Woodman, Chemist
June 18, 2007

Report Reviewed and Finalized By:

Ken Smith, Laboratory Director
June 18, 2007

SUMMARY OF RESULTS

Summary of Analysis

Summary of Method 29 Mercury Analysis

Run Number		Average Total Catch, µg	Front half µg	H_2O_2 /HNO_3 µg	Empty Impinger µg	$KMnO_4$ µg	HCl µg
U1 Inlet R1	#1	198	< 0.1	181	1.29	< 0.5	15.4
	#2		< 0.1	182	1.31	< 0.5	15.6
U1 Inlet R2	#1	183	< 0.1	177	< 0.2	< 0.5	5.91
	#2		< 0.1	178	< 0.2	< 0.5	6.00
U1 Outlet R1	#1	< 0.5	< 0.1	< 2.3	< 0.2	< 0.5	< 0.4
	#2		< 0.1	< 2.3	< 0.2	< 0.5	< 0.4
U1 Outlet R2	#1	1.29	< 0.1	< 2.2	< 0.2	1.27	< 0.4
	#2		< 0.1	< 2.2	< 0.2	1.31	< 0.4
Reagent Blank	#1	< 0.5	< 0.1	< 0.3	< 0.2	< 0.5	< 0.4
	#2		< 0.1	< 0.3	< 0.2	< 0.5	< 0.4

Summary of Analysis

Summary of Method 29 Metals Analysis

Element	Arsenic Total µg	Barium Total µg	Cadmium Total µg	Chromium Total µg	Cobalt Total µg
M29-I-Run 1	10.7	17.3	4.73	7.07	0.450
M29-I-Run 1 dup	10.6	17.5	4.73	7.11	0.455
M29-I-Run 2	3.67	20.2	32.1	7.55	2.75

Summary of Method 29 Metals Analysis

Element	Copper Total µg	Lead Total µg	Manganese Total µg	Nickel Total µg	Selenium Total µg
M29-I-Run 1	12.0	40.1	25.2	3.94	10.8
M29-I-Run 1 dup	12.2	40.1	25.3	3.96	10.6
M29-I-Run 2	11.6	45.9	5.23	8.07	5.21

Summary of Method 29 Metals Analysis

Element	Silver Total µg	Zinc Total µg
M29-I-Run 1	2.18	112
M29-I-Run 1 dup	1.95	112
M29-I-Run 2	1.48	198

Summary of Analysis

Summary of Method 29 Metals Analysis

Element	Arsenic Total µg	Barium Total µg	Cadmium Total µg	Chromium Total µg	Cobalt Total µg
M29-O-Run 1	2.05	22.3	7.61	16.5	1.14
M29-O-Run 1 dup	2.02	22.2	7.61	16.5	1.14
M29-O-Run 2	2.33	18.6	6.59	10.3	1.07
M29-Reagent Blank	< 0.2	7.31	2.51	0.930	< 0.2

Summary of Method 29 Metals Analysis

Element	Copper Total µg	Lead Total µg	Manganese Total µg	Nickel Total µg	Selenium Total µg
M29-O-Run 1	25.8	37.8	129	13.5	0.225
M29-O-Run 1 dup	25.8	37.3	128	13.4	0.215
M29-O-Run 2	29.4	38.5	119	8.35	< 0.2
M29-Reagent Blank	0.823	0.559	1.02	0.664	< 0.2

Summary of Method 29 Metals Analysis

Element	Silver Total µg	Zinc Total µg
M29-O-Run 1	2.17	89.6
M29-O-Run 1 dup	2.18	88.5
M29-O-Run 2	2.86	98.0
M29-Reagent Blank	0.353	6.74

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	Air Nova, Inc	Element One #:	9181-M29
Client ID:	GTI @ Cement Lock Bayonne NJ	Analyst:	CMS, DBW
Method:	M29	Dates Received:	05/19/07
Analytes:	As, Ba, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Zn, & Hg	Dates Analyzed:	06/05-08/07, 06/15/07

Summary of Analysis

The Method 29 samples were digested, prepared, and analyzed according to Method 29 protocol. Samples were analyzed for mercury on a PerkinElmer FIMS-100 CVAA mercury analyzer. The other metals were analyzed on a PerkinElmer ELAN 6100 ICP-MS.

Detection Limits

The FIMS-100 CVAA instrument reporting limit for mercury was 0.004 µg per aliquot analyzed. The ICP-MS instrument reporting limits were 1.0µg/L for the other metals.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD), spike sample recovery, and second source calibration verification data are summarized in the Quality Control Section. All QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. The ICP analysis of the blank samples revealed detectable concentrations of metals. Subsequent analysis produced equivalent results. Nothing unusual was noticed with any of the other samples or analyses.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Mercury Duplicate Analysis RPD

(Method 29 QC limits: <10% for RPD)

Run Number	Front half	H_2O_2/HNO_3	Empty Imp	$KMnO_4$	HCl
U1 Inlet R1	NA	0.7%	1.5%	NA	1.4%
U1 Inlet R2	NA	0.3%	NA	NA	1.6%
U1 Outlet R1	NA	NA	NA	NA	NA
U1 Outlet R2	NA	NA	NA	3.2%	NA
Reagent Blank	NA	NA	NA	NA	NA

Mercury Spike Recoveries

(Method 29 QC limits: ±25% for Spike Recoveries)

Run Number		Front half	H2O2/HNO4	Empty Imp	KMnO4	HCl
U1 Inlet R2	#1	118%	87%	97%	91%	91%
	#2	118%	88%	99%	92%	92%
U1 Outlet R2	#1	117%	100%	101%	82%	88%
	#2	117%	102%	103%	84%	89%

Summary of Quality Control Data

Metals Duplicate Analysis RPD

(Method 29 QC limits: < 20% for RPD.)

Element	M29-I-Run 1 RPD	M29-O-Run 1 RPD
Arsenic	1.3%	1.2%
Barium	0.7%	1.1%
Cadmium	0.0%	0.0%
Chromium	0.0%	0.5%
Cobalt	0.1%	1.1%
Copper	0.1%	1.0%
Lead	1.1%	0.0%
Manganese	1.1%	0.3%
Nickel	0.8%	0.4%
Selenium	4.4%	1.9%
Silver	0.6%	10.9%
Zinc	1.2%	0.1%

Metals Duplicate Analysis RPD and Spike Recoveries

(Method 29 QC limits: < 20% for RPD and ±25% for Spike Recoveries.)

Element	M29-I-Run 2 Recovery	M29-O-Run 2 Recovery
Arsenic	113%	111%
Barium	98%	91%
Cadmium	113%	87%
Chromium	100%	94%
Cobalt	83%	100%
Copper	96%	75%
Lead	118%	87%
Manganese	86%	93%
Nickel	87%	90%
Selenium	96%	85%
Silver	93%	91%
Zinc	83%	97%

Summary of Quality Control Data

Second Source Calibration Check Recoveries

(Method 29 QC limits: ±10% for Second Source Continuing Check Standard)*

Element	1 ppb	100 ppb*	250 ppb
Arsenic	111%	102%	100%
Barium	106%	102%	100%
Cadmium	104%	101%	101%
Chromium	98%	101%	99%
Cobalt	91%	96%	97%
Copper	122%	101%	101%
Lead	104%	102%	99%
Manganese	86%	97%	95%
Nickel	109%	99%	98%
Selenium	88%	101%	97%
Silver	112%	101%	96%
Zinc	98%	100%	98%

SAMPLE CUSTODY

COPY

AirNova, Inc.

5845 Clayton Avenue, Pennsauken, New Jersey 08109
(856) 486-1500 • FAX 486-9896

COC DOCUMENTATION# ____
PAGE 1 OF 1

e9181

CHAIN OF CUSTODY DOCUMENTATION FORM

PROJECT NUMBER 3033
PLANT GTI @ Cement Lock, Bayonne, NJ
SAMPLE LOCATION Carbon BED

SAMPLE DATE 5-16, 17-07
RECOVERY DATE 5-16, 17-07
SAMPLE RECOVERED BY AIRNOVA

TEST SET	COLLECTION METHOD	RUN#	SAMPLE MATRIX (INDICATE # OF SAMPLES) SILICA GEL	QUARTZ FILTER	ACETONE OTHER FILTER	ACETONE FRONT HNO3	WATER	IPA	H2O2/HNO3	H2SO4/KMnO4	HYDROXIDE 3rd Imp Rinse container 5A	SPECIFY OTHER	CONTAINER HDPE BOTTLE	GLASS BOT	PETRI DISH	TEDLAR BAG	SPECIFY OTHER	PRESERVATION ICE	SPECIFY OTHER	SAFETY SEAL INTACT (Y/N)	PRIORITY RESULTS (X) FOR YES
Inlet	EPA29	1		Q3466		1			3	1	1	HCl(1)		7	1						
"	"	2		Q3504		1			3	1	1	HCl(1)		7	1						
	EPA29	Blanks		Q3507		1			1	1	1	HCl(1)		5	1						
Outlet	EPA29	1		Q3467		1			3	1	1	HCl(1)		7	1						
"	"	2		Q3500		1			3	1	1	HCl(1)		7	1						
Inlet	EPA5/EPA202	1		Q3370	1		3					1-MeCl2		5	1						
"	"	2		Q3371	1		3					1-MeCl2		5	1						
"	"	Blanks		Q3505	1		1					1-MeCl2		3	1						

RELINQUISHED BY: Joe Parkson DATE: 5/18/07
RECEIVED BY: Kenneth E. [illegible] TIME: 10pm

RELINQUISHED BY: Kenneth E. [illegible] DATE: 5-19-07
RECEIVED BY: Paul Smith TIME: 1330

RELINQUISHED BY: ____ DATE: ____
RECEIVED BY: ____ TIME: ____

ANALYTICAL DATA

Analytical Calculations

Metals-

Element Results (µg) =ICP Results (µg/L)*Dilution*Final Volume (L)

Where-

ICP Results= Raw sample concentration (ppb)--*ICP-Data Sheet*

Dilution= Diluted Volume--*ICP-MS Run Sheet*
Aliquot

Final Volume=FH=Final Volume (FV)--*Sample Submission*
BH=Received Volume (BV).*Final Volume (FV)--*Sample Submission*
Aliquot (Used)
Combined Results=FH+BH

Mercury-

Mercury Results (µg) =CVAA Results (µg) *Final Volume (ml)
Aliquot (ml)

Where-

CVAA Results= Raw sample reading (µg)--*Hg-Data Sheet*

Aliquot= Sample Aliquot (Alq.)--*Hg-Data Sheet*

Final Volume=Final Volume (FV)*--*Sample Submission*
* With the exception of the BH fraction where-
=Received Volume (BV)--*Sample Submission*

elementOne **AIR TESTING SAMPLE SUBMISSION FORM** **Lab ID** 9181

Combined Analysis per C. Cornwell via phone 05.23.07 See additional info in Lab Communications

Analysis Due Date 06.05.07
QA/QC/Report Due Date 06.06.07 6.25.07

Client	AIRNOVA
Project No	3033
Project ID	GTI @ Cement Lock Bayonne NJ

Bill to
SGS / Paradigm

Date Rec	05.19.07
Time Rec	1330
Rec by	PDS

HNO_3 Lot:	HF Lot:	HCl Lot:	**Ref. Method:**
Volume Marked Y / N	Volume Loss Y / N / ?		**29**

Sample Identification

1	M29-Inlet-Run 1 M29-Inlet-Run 1 Duplicate	3	M29-Outlet-Run 1 M29-Outlet-Run 1 Duplicate	5	M29-Reagent Blank
2	M29-Inlet-Run 2 M29-Inlet-Run 2 Spike	4	M29-Outlet-Run 2 M29-Outlet-Run 2 Spike		

Analyses Requested: Samples 1-5 Hg
Samples 3-5 As, Ba, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag & Zn

Run / FB	Front Half		Back Half			HNO_3 (A)		$KMnO_4$ (B)		HCl (C)	
	pH <2.0 Y / N		pH <2.0 Y / N			pH <2.0 Y / N		pH <2.0 Y / N		pH <2.0 Y / N	
Lab ID	BV, ml	FV, ml	BV, ml	Used	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml
1.D	100	100	2200	1100	~~100~~	128	200	410	500	40	400
2.S	95	↓	2155	~~1078~~	100	90	↓	430	↓	235	↓
3.D	94	↓	2320	1160	50	130	↓	400	↓	35	↓
4.S	90	↓	2215	1108	↓	102	↓	405	↓	225	↓
						~~100~~ KLS					

Reagent Blank

Lab ID	Fraction			SV, ml	BV, ml	Used	FV, ml	pH	Prep By / Date
5									
	C-8	FH	0.1N HNO_3	105	105	—	100		
	C-8	A	0.1N HNO_3	102	102	102	200		
	C-9	BH	5% HNO_3/10% H_2O_2	300	300	50	50		
	C-10	B	4% $KMnO_4$/10%H_2SO_4	390	390	390	500		
	C-11	C	8N HCl & DI	225	225		400		
	C-12	FH	Filter						

Lab Communications Received Analytical Parameters 05.23.07 PDS

Proceed with M29 & M26A Analyses Hold M5/202 & M8 until further verification (per C. Cornwell-SGS-05.23.07 via phone

#1 BH C1=980mL C2=890mL C3=~~520mL~~ 330mL
#2 BH C1=945mL C2=985 C3=225
#3 BH C1=930mL C2=870mL C3=520mL
#4 BH C1=940mL C2=935mL C3=340mL

Analyze metals for inlets per JoJackson phone verification 06.11.07 SW X1

SS Page 1 of 4
SS by Paul Smith
5/23/2007 6:31:02 PM

FH Prep By/Date _____ A Prep By/Date KLS 5.29.07
BH Prep By/Date _____ B Prep By/Date KLS 5-30-07
BH/FH Prep By/Date CMP 5/24/07 C Prep By/Date KLS 5-31-07
M5 Prep By/Date _____ M202 Prep By/Date _____
ID Verification By / Date 05.29.07 SW

017

One

Method 29 Microwave Worksheet

Lab ID # e 9181

Client:

Date Digested: 06/04/07 Initials: CMR Worksheet Prepared by CMR

Auto Sample Loc.	Sample Lab ID	Sample Weight (g)	# of filters digested	Spike	Prep Volume (ml)	Weight In Micro / Weight Out Micro	Units
1	Blank				100ml		
4	9181-1		1				
6	-2		1				
9	-3		1				
12	-4		1				
14	-5		1				

Element One, Inc. Form 104 - Revision 1.0

Sample/Batch Report

User Name: daphne.woodman
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\x1.sam
Report Date/Time: Tuesday, June 05, 2007 17:02:50

Daph 6/5/07

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
14		9181-3	AIRNOVA						
15	D	9181-3	AIRNOVA	QC Duplicate					
16		9181-4	AIRNOVA						
17	S	9181-4	AIRNOVA	Spike - 1					
18		9181-5	AIRNOVA						
5		qc std #2							
12		lrb							
13	s	lrb		Spike - 1					
19		9181-3	AIRNOVA						
19		9181-3	AIRNOVA						
20	D	9181-3	AIRNOVA	QC Duplicate					
21	x5	9181-3	AIRNOVA						
22	x5d	9181-3	AIRNOVA	QC Duplicate					
16		9181-4	AIRNOVA						
17	S	9181-4	AIRNOVA	Spike - 1					
23	x5	9181-4	AIRNOVA						
24	x5s	9181-4	AIRNOVA	Spike - 1					
18		9181-5	AIRNOVA						
5		qc std #2							
14		9181-3	AIRNOVA						
14	D	9181-3	AIRNOVA	QC Duplicate					
25	x10	9181-4	AIRNOVA						
26	x10s	9181-4	AIRNOVA	Spike - 1					

019

Dataset Report

User Name: daphne.woodman
Computer Name: ICPMS1
Dataset File Path: c:\elandata\dataset\060507-3\
Report Date/Time: Tuesday, June 05, 2007 17:02:23

Daph W 6/5/07

Autosampler Position:

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Dilute
14:10:25 Tue 05-Jun-07	Blank		Blank					
14:13:09 Tue 05-Jun-07	Standard 1		Standard #1					
14:15:54 Tue 05-Jun-07	Standard 2		Standard #2					
14:18:40 Tue 05-Jun-07	Standard 3		Standard #3					
14:21:25 Tue 05-Jun-07	QC Std 1		QC Std #1					
14:24:10 Tue 05-Jun-07	QC Std 2		QC Std #2					
14:26:56 Tue 05-Jun-07	QC Std 3		QC Std #3					
14:29:40 Tue 05-Jun-07	QC Std 4		QC Std #4					
14:32:26 Tue 05-Jun-07	QC Std 6		QC Std #6					
14:35:12 Tue 05-Jun-07	QC Std 7		QC Std #7					
14:37:58 Tue 05-Jun-07	QC Std 9		QC Std #9					
14:40:45 Tue 05-Jun-07	QC Std 10		QC Std #10					
14:43:31 Tue 05-Jun-07	9181-3		Sample	AIRNOVA				
14:46:15 Tue 05-Jun-07	9181-3	D	QC Duplicate	AIRNOVA				
14:48:58 Tue 05-Jun-07	9181-4		Sample	AIRNOVA				
14:51:42 Tue 05-Jun-07	9181-4	S	Spike - 1	AIRNOVA				
14:54:26 Tue 05-Jun-07	9181-5		Sample	AIRNOVA				
14:57:10 Tue 05-Jun-07	QC Std 1		QC Std #1					
14:59:55 Tue 05-Jun-07	QC Std 4		QC Std #4					
15:27:27 Tue 05-Jun-07	qc std #2		QC Std #2					
15:30:14 Tue 05-Jun-07	lrb		Sample					
15:33:01 Tue 05-Jun-07	lrb	s	Spike - 1					
15:35:47 Tue 05-Jun-07	9181-3		Sample	AIRNOVA				
15:38:31 Tue 05-Jun-07	9181-3		Sample	AIRNOVA				
15:41:16 Tue 05-Jun-07	9181-3	D	QC Duplicate	AIRNOVA				
15:44:02 Tue 05-Jun-07	9181-3	x5	Sample	AIRNOVA				
15:46:47 Tue 05-Jun-07	9181-3	x5d	QC Duplicate	AIRNOVA				
15:49:32 Tue 05-Jun-07	9181-4		Sample	AIRNOVA				
15:52:16 Tue 05-Jun-07	9181-4	S	Spike - 1	AIRNOVA				
15:55:00 Tue 05-Jun-07	QC Std 1		QC Std #1					
15:57:44 Tue 05-Jun-07	QC Std 4		QC Std #4					
16:00:30 Tue 05-Jun-07	9181-4	x5	Sample	AIRNOVA				
16:03:17 Tue 05-Jun-07	9181-4	x5s	Spike - 1	AIRNOVA				
16:06:02 Tue 05-Jun-07	9181-5		Sample	AIRNOVA				
16:08:46 Tue 05-Jun-07	QC Std 1		QC Std #1					
16:11:31 Tue 05-Jun-07	QC Std 4		QC Std #4					
16:27:22 Tue 05-Jun-07	Blank		Blank					
16:30:08 Tue 05-Jun-07	qc std #2		QC Std #2					
16:32:53 Tue 05-Jun-07	9181-3		Sample	AIRNOVA				
16:35:37 Tue 05-Jun-07	9181-3	D	QC Duplicate	AIRNOVA				
16:41:07 Tue 05-Jun-07	9181-4	x10	Sample	AIRNOVA				
16:43:53 Tue 05-Jun-07	9181-4	x10s	Spike - 1	AIRNOVA				
16:46:36 Tue 05-Jun-07	QC Std 1		QC Std #1					

020

elementOne **ICP-MS RUN SHEET** **9181**

Analyst: __DBW____ Date: 6-5-07 **Solid Samples** ☐ / *Liquid Samples*

Daph W 6/5/07

A/S Loc	Batch # for sample sets	Sample Lab ID	Sample Description	Type Sample QC Spike QC Dup QC Reg Blank	Spike concentration	Prep Volume (ml)	Weight (g)	Aliquot (ml)	Diluted to Volume (ml)
12			LRB	S		100			
13			LRB	SS	Table #1	100			
14			9181-3	S		100X2			
15			9181-3	SD		100X2			
16			9181-4	S		100X2			
17			9181-4	SS	Table #1	100X2			
18			9181-5	S		100X2			
DILUTIONS AND RECHECKS									
12			LRB	S		100			
13			LRB	SS	Table #1	100			
19			9181-3	S		100X2			
20			9181-3	SD		100X2			
21			9181-3	S		100X2		2.0	10
22			9181-3	SD		100X2		2.0	10
23			9181-4	S		100X2		2.0	10
24			9181-4	SS	Table #1	100X2		2.0	10
18			9181-5	S		100X2			
14			9181-3	S		100X2			
14			9181-3	S		100X2			
19			9181-3	SD		100X2			
25			9181-4	S		100X2		1.0	10

elementOne **ICP-MS RUN SHEET** **9181**

Analyst: __DBW____ Date: 6-5-07 **Solid Samples** ☐ / *Liquid Samples*

26			9181-4	SS	Table #1	100X2		1.0	10

Spikes are post at 0.02 mL of 25ppm spiking solutions lot 021407-AB & C in a final volume of 10ml.

Submitted for QC:	Date: 6/5/07	Time: 17:05	By: DW	QC Review:	Date: 6/6/07	Time: 0943	By: DBW
Re-Test Required:	No:	Yes:	Comments:				
Resubmitted for QC:	Date:	Time:	By:	QC Review:	Date:	Time:	By:

Sample/Batch Report

Daph Wd
6/15/07

User Name: daphne.woodman
Computer Name: ICPMS1
Sample File: C:\elandata\Sample\MMTL.sam
Report Date/Time: Friday, June 15, 2007 12:45:17

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
14		9181-1	AirNova						
15	d	9181-1	AirNova	QC Duplicate					
16		9181-2	AirNova						
17	s	9181-2	AirNova	Spike - 1					
5		QC STD #2							
18	X5	9181-1	AirNova						
19	X5D	9181-1	AirNova	QC Duplicate					
20	X5	9181-2	AirNova						
21	X5S	9181-2	AirNova	Spike - 1					

024

Dataset Report

User Name: daphne.woodman
Computer Name: ICPMS1
Dataset File Path: c:\elandata\dataset\061507-1\
Report Date/Time: Friday, June 15, 2007 12:45:12

Daph W 6/15/07

Autosampler Position: 3

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Dilutec
11:20:19 Fri 15-Jun-07	Blank		Blank					
11:23:03 Fri 15-Jun-07	Standard 1		Standard #1					
11:25:49 Fri 15-Jun-07	Standard 2		Standard #2					
11:28:35 Fri 15-Jun-07	Standard 3		Standard #3					
11:31:19 Fri 15-Jun-07	QC Std 1		QC Std #1					
11:34:05 Fri 15-Jun-07	QC Std 2		QC Std #2					
11:36:50 Fri 15-Jun-07	QC Std 3		QC Std #3					
11:39:35 Fri 15-Jun-07	QC Std 4		QC Std #4					
11:42:21 Fri 15-Jun-07	QC Std 6		QC Std #6					
11:45:06 Fri 15-Jun-07	QC Std 7		QC Std #7					
11:47:52 Fri 15-Jun-07	9181-1		Sample	AirNova				
11:50:35 Fri 15-Jun-07	9181-1	d	QC Duplicate	AirNova				
11:53:19 Fri 15-Jun-07	9181-2		Sample	AirNova				
11:56:03 Fri 15-Jun-07	9181-2	s	Spike - 1	AirNova				
11:58:47 Fri 15-Jun-07	QC Std 1		QC Std #1					
12:01:32 Fri 15-Jun-07	QC Std 4		QC Std #4					
12:19:30 Fri 15-Jun-07	QC STD #2		QC Std #2					
12:22:16 Fri 15-Jun-07	9181-1	X5	Sample	AirNova				
12:25:00 Fri 15-Jun-07	9181-1	X5D	QC Duplicate	AirNova				
12:27:45 Fri 15-Jun-07	9181-2	X5	Sample	AirNova				
12:30:30 Fri 15-Jun-07	9181-2	X5S	Spike - 1	AirNova				
12:33:15 Fri 15-Jun-07	QC Std 1		QC Std #1					
12:36:00 Fri 15-Jun-07	QC Std 4		QC Std #4					

025

elementOne **ICP-MS RUN SHEET** **9181 Inlets**

Analyst: __DBW____ Date: 6-15-07 **Solid Samples** ☐ / *Liquid Samples*

Dapl Wl 6/15/07

A/S Loc	Batch # for sample sets	Sample Lab ID	Sample Description	Type Sample QC Spike QC Dup QC Reg Blank	Spike concentration	Prep Volume (ml)	Weight (g)	Aliquot (ml)	Diluted to Volume (ml)
14			9181-1	S		100X2			
15			9181-1	SD		100X2			
16			9181-2	S		100X2			
17			9181-2	SS	Table #1	100X2			
DILUTIONS AND RECHECKS									
18			9181-1	S		100X2		2.0	10
19			9181-1	SD		100X2		2.0	10
20			9181-2	S		100X2		2.0	10
21			9181-2	SS	Table #1	100X2		2.0	10

Spikes are post at 0.02 mL of 25ppm spiking solutions lot 021407-AB & C in a final volume of 10ml.

Submitted for QC:	Date: 6/15/07	Time: 12:47	By: DBW	QC Review:	Date: 6/15/07	Time: 16:20	By: DBW
Re-Test Required:	No:	Yes:	Comments:				
Resubmitted for QC:	Date:	Time:	By:	QC Review:	Date:	Time:	By:

GRO

ELAN Instrument Control Session - [Quantitative Analysis Method - [Untitled][Modified]]

File Edit Analysis Options Window Help

Timing | Processing | Equation | Calibration | Sampling | Devices | QC...

	Analyte	Mass (amu)	Spike Table 1 (Conc.)	Spike Table 1 Det. Limit (Conc.)	Spike Table 2 (Conc.)	Spike Table 2 Det. Limit (Conc.)	Spike Table 3 (Conc.)	Spike Table 3 Det. Limit (Conc.)	Spike Table 4 (Conc.)	D
1	Li	6.0151								
2	Sc	44.9559	50	1	25	1	100	1		
3	Cr	51.9405	50	1	25	1	100	1		
4	Cr	52.9407	50	1	25	1	100	1		
5	Mn	54.9381	50	1	25	1	100	1		
6	Co	58.9332	50	1	25	1	100	1		
7	Ni	59.9332	50	1	25	1	100	1		
8	Cu	62.9298	50	1	25	1	100	1		
9	Cu	64.9278	50	1	25	1	100	1		
10	Zn	65.926	50	1	25	1	100	1		
11	Zn	66.9271	50	1	25	1	100	1		
12	Zn	67.9249	50	1	25	1	100	1		
13	As	74.9216	50	1	25	1	100	1		
14	Se	76.9199	50	1	25	1	100	1		
15	Se	81.9167	50	1	25	1	100	1		
16	Ag	106.905	50	1	25	1	100	1		
17	Ag	108.905	50	1	25	1	100	1		
18	Cd	110.904	50	1	25	1	100	1		
19	Cd	113.904	50	1	25	1	100	1		
20	Ba	134.906	50	1	25	1	100	1		
21	Ba	136.905	50	1	25	1	100	1		
22	Pb	207.977	50	1	25	1	100	1		
23	Kr	82.9141	50	1	25	1	100	1		

Report | Notes

Frequency | QC Std Int Stds | Calibration Stds | Sample Int Stds | Sample | Spike | Dilution | Duplicate | Spike Tables | QC Action Controls | Autosampler

help: Press F1 NUM CAP LOG

Start | GoibManager | ELAN Instrument Con... | Microsoft Word

ICP Standards and QC Standards Values Table

Element or Test	Mass	Symbol	Std.#1 ppb	Std.#2 ppb	Std.#3 ppb	QC #1	QC #2	QC #3	QC #4	QC #6 A	QC #7 AB	QC #8 .25	QC #9 LRB	QC #10 LRB+	QC #11 LRB+
Lithium	6	*Li*													
Lithium	7	Li	1	100	500	0	1	250	100				0	50	100
Beryllium	9	Be	1	100	500	0	1	250	100			0.25	0	50	100
Boron	10	*B*	1	50	100	0	1	250	100				0	50	100
Boron	11	B	1	50	100	0	1	250	100				0	50	100
Sodium	23	Na	20	1100	5500	0	21	2500	1100				0	718	
Magnesium	24	Mg	20	1100	5500	0	21	2500	1100				0	550	
Magnesium	25	*Mg*	20	1100	5500	0	21	2500	1100				0	550	
Aluminum	27	Al	1	100	500	0	1	250	100				0	50	100
Phosphorus	31	P	20	1000	5000	0	20	2500	1000				0	200	
Potassium	39	K	20	1100	5500	0	21	2500	1100				0	500	
Calcium	44	Ca	50	1100	5500	0	21	2500	1100				0	550	
Scandium	45														
Titanium	47	Ti	1	100	500	0	1	250	100				0	50	100
Titanium	49	Ti	1	100	500	0	1	250	100				0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Chromium	52	Cr	1	100	500	0	1	250	100		10		0	50	100
Chromium	53	*Cr*	1	100	500	0	1	250	100		10		0	50	100
Iron	54	*Fe*	20	1100	5500	0	21	2500	1100	0			0		
Manganese	55	Mn	1	100	500	0	1	250	100	0	10		0	50	100
Iron	57	Fe	20	1100	5500	0	21	2500	1100	0			0		
Cobalt	59	Co	1	100	500	0	1	250	100	0	20		0	50	100
Nickel	60	Ni	1	100	500	0	1	250	100	0	20		0	50	100
Copper	63	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Copper	65	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	66	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	67	*Zn*	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	68	*Zn*	1	100	500	0	1	250	100	0	10		0	50	100
Germanium	72	Ge	1	100	500	0	1	250	100				0	50	100
Arsenic	75	As	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	77	*Se*	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	82	Se	1	100	500	0	1	250	100	0	10		0	50	100
Strontium	88	Sr	1	100	500	0	1	250	100	0			0	50	100
Molybdenum	95	*Mo*	1	100	500	0	1	250	100				0	50	100
Molybdenum	97	*Mo*	1	100	500	0	1	250	100				0	50	100
Molybdenum	98	Mo	1	100	500	0	1	200	100				0	50	100
Rhodium	103														
Silver	107	Ag	1	100	500	0	1	250	100	0	10		0	50	100
Silver	109	*Ag*	1	100	500	0	1	250	100	0	10		0	50	100
Cadmium	111	Cd	1	100	500	0	1	250	100	0	5		0	50	100
Cadmium	114	*Cd*	1	100	500	0	1	250	100	0	5		0	50	100
Tin	118	Sn	1	100	500	0	1	250	100	0			0	50	100
Antimony	121	*Sb*	1	100	500	0	1	250	100	0			0	50	100
Antimony	123	Sb	1	100	500	0	1	250	100	0			0	50	100
Tellurium	128	Te	1	100	500	0	1	250	100				0	50	100
Cesium	133														
Barium	135	*Ba*	1	100	500	0	1	250	100	0			0	50	100
Barium	137	Ba	1	100	500	0	1	250	100	0			0	50	100
Lanthanum	139	La	1	100	500	0	1	250	100				0	50	100
Tantalum	159	Ta	1	100	500	0	1	250	100				0	50	100
Platinum	195	Pt	1	100	500	0	1	250	100				0	50	100
Gold	181	Au	1	100	500	0	1	250	100				0	50	100
Thallium	205	Tl	1	100	500	0	1	250	100	0			0	50	100
Lead	208	Pb	1	100	500	0	1	250	100	0			0	50	100
Bismuth	209	Bi	1	100	500	0	1	250	100				0	50	100
Thorium	232	Th	1	100	500	0	1	250	100				0	50	100
Uranium	238	U	1	100	500	0	1	250	100				0	50	100
Krypton	83														

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Method 6020 & 200.8 Metals Summary Report
Sample ID: Blank
Sample Da: Tuesday, June 05, 2007 14:10:25
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	11847.8		ppb
|-	Sc	45	80987.2		ppb
|	Cr	52	3560.1		ppb
|	Cr	53	9875.3		ppb
|	Mn	55	1211.1		ppb
|	Co	59	152		ppb
|	Ni	60	169.7		ppb
|	Cu	63	1375.5		ppb
|	Cu	65	710.7		ppb
|	Zn	66	2059.3		ppb
|	Zn	67	1009.7		ppb
|	Zn	68	1527.8		ppb
|	As	75	102.8		ppb
|	Se	77	597.7		ppb
|	Se	82	4.7		ppb
|>	Rh	103	180616.7		ppb
|	Ag	107	1502.2		ppb
|	Ag	109	1446.8		ppb
|	Cd	111	33.8		ppb
|-	Cd	114	55.9		ppb
|-	Ba	135	151.7		ppb
|	Ba	137	255		ppb
|>	Ho	165	321725.3		ppb
|-	Pb	208	1133.7		ppb
	Kr	83	77.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 1
Sample Da: Tuesday, June 05, 2007 14:13:09
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	12161.2		ppb
|-	Sc	45	81158.7		ppb
|	Cr	52	6755.5	0.97648	ppb
|	Cr	53	10479	1.37528	ppb
|	Mn	55	5785.1	0.90919	ppb
|	Co	59	4497.9	0.98059	ppb
|	Ni	60	999.1	0.87951	ppb
|	Cu	63	2404	0.48779	ppb
|	Cu	65	1200.4	0.48235	ppb
|	Zn	66	1150.1	-1.65237	ppb
|	Zn	67	873.7	-1.53935	ppb
|	Zn	68	858.1	-1.63643	ppb
|	As	75	780.7	0.90447	ppb
|	Se	77	678.7	1.42291	ppb
|	Se	82	69.3	0.91326	ppb
|>	Rh	103	181884.1		ppb
|	Ag	107	4768.7	0.83693	ppb
|	Ag	109	4498.3	0.82707	ppb
|	Cd	111	862.7	0.96787	ppb
|-	Cd	114	1983.1	0.99064	ppb
|-	Ba	135	1117.8	0.98017	ppb
|	Ba	137	1951.6	0.98859	ppb
|>	Ho	165	323665.7		ppb
|-	Pb	208	12165.2	0.90222	ppb
	Kr	83	76.3		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 2
Sample Da Tuesday, June 05, 2007 14:15:54
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	11999.6		ppb
|-	Sc	45	80933.5		ppb
|	Cr	52	334825.6	102.32163	ppb
|	Cr	53	50126.2	101.65452	ppb
|	Mn	55	504143.5	100.46706	ppb
|	Co	59	434862.1	98.44348	ppb
|	Ni	60	96040.5	102.06186	ppb
|	Cu	63	217090	103.57471	ppb
|	Cu	65	103687	102.83123	ppb
|	Zn	66	57695.3	99.93651	ppb
|	Zn	67	10109.2	98.32585	ppb
|	Zn	68	43531.6	101.32881	ppb
|	As	75	75960.1	101.31993	ppb
|	Se	77	6112	102.28553	ppb
|	Se	82	7246.9	102.90975	ppb
|>	Rh	103	181287.5		ppb
|	Ag	107	388996.4	100.00163	ppb
|	Ag	109	367417	100.00173	ppb
|	Cd	111	85662.8	100.37455	ppb
|-	Cd	114	196952.7	101.55442	ppb
|-	Ba	135	102085.5	102.18266	ppb
|	Ba	137	178433.5	102.74051	ppb
|>	Ho	165	327600.6		ppb
|-	Pb	208	1218129	98.44089	ppb
	Kr	83	89.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 3
Sample Da Tuesday, June 05, 2007 14:18:40
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	11220.9		ppb
|-	Sc	45	77056.5		ppb
|	Cr	52	1549014.5	499.53572	ppb
|	Cr	53	198405.2	499.66835	ppb
|	Mn	55	2392545.5	499.90677	ppb
|	Co	59	2111609.4	500.31134	ppb
|	Ni	60	448618.8	499.58787	ppb
|	Cu	63	995020.4	499.28608	ppb
|	Cu	65	478640	499.43479	ppb
|	Zn	66	267960.5	500.018	ppb
|	Zn	67	45191.3	500.33991	ppb
|	Zn	68	199401.8	499.73951	ppb
|	As	75	357604.2	499.73621	ppb
|	Se	77	26303.4	499.54205	ppb
|	Se	82	33592.5	499.41822	ppb
|>	Rh	103	173264.8		ppb
|	Ag	107	1667759.9	450.02698	ppb
|	Ag	109	1602009.9	457.57145	ppb
|	Cd	111	407643	499.92516	ppb
|-	Cd	114	925988.8	499.68913	ppb
|-	Ba	135	487878.3	499.56351	ppb
|	Ba	137	848164.8	499.45192	ppb
|>	Ho	165	320592.3		ppb
|-	Pb	208	6055727.7	500.31202	ppb
	Kr	83	98		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da: Tuesday, June 05, 2007 14:21:25
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	10940.3		ppb
|-	Sc	45	74338.1		ppb
|	Cr	52	4013.3	0.21714	ppb
|	Cr	53	10493.4	3.20863	ppb
|	Mn	55	1552.5	0.08787	ppb
|	Co	59	417.3	0.06645	ppb
|	Ni	60	195	0.04038	ppb
|	Cu	63	1541.5	0.12611	ppb
|	Cu	65	815	0.15497	ppb
|	Zn	66	1990.3	0.09613	ppb
|	Zn	67	1020.4	0.80494	ppb
|	Zn	68	1499.8	0.15439	ppb
|	As	75	546.9	0.64236	ppb
|	Se	77	792	4.53105	ppb
|	Se	82	112.6	1.64407	ppb
|>	Rh	103	170213.7		ppb
|	Ag	107	41316.3	10.95276	ppb
|	Ag	109	38724.3	10.85237	ppb
|	Cd	111	85.9	0.06782	ppb
|-	Cd	114	153.7	0.05586	ppb
|-	Ba	135	215.3	0.07287	ppb
|	Ba	137	408.3	0.09886	ppb
|>	Ho	165	310888.2		ppb
|-	Pb	208	6345.1	0.44955	ppb
	Kr	83	87.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 2
Sample Da: Tuesday, June 05, 2007 14:24:10
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	11142.9		ppb
|-	Sc	45	74122.1		ppb
|	Cr	52	6724.8	1.10015	ppb
|	Cr	53	11026.1	4.53938	ppb
|	Mn	55	5417.1	0.9055	ppb
|	Co	59	4204.4	0.9759	ppb
|	Ni	60	1083.1	1.04196	ppb
|	Cu	63	2734.8	0.72994	ppb
|	Cu	65	1373.5	0.74239	ppb
|	Zn	66	1075.1	-1.6643	ppb
|	Zn	67	886.7	-0.77722	ppb
|	Zn	68	837.4	-1.55629	ppb
|	As	75	994.9	1.26951	ppb
|	Se	77	769.7	4.03467	ppb
|	Se	82	79	1.12246	ppb
|>	Rh	103	170860.3		ppb
|	Ag	107	29981	7.80925	ppb
|	Ag	109	28317.8	7.79924	ppb
|	Cd	111	837.5	1.00088	ppb
|-	Cd	114	1863.6	0.99115	ppb
|-	Ba	135	1099.8	0.98994	ppb
|	Ba	137	1948.2	1.01715	ppb
|>	Ho	165	315318.7		ppb
|-	Pb	208	12935	0.99348	ppb
	Kr	83	77		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 3
Sample Da Tuesday, June 05, 2007 14:26:56
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	10536		ppb
|-	Sc	45	70976.4		ppb
|	Cr	52	724766.3	246.91391	ppb
|	Cr	53	98094.8	249.5974	ppb
|	Mn	55	1078712.1	238.4761	ppb
|	Co	59	961727	241.24261	ppb
|	Ni	60	207453.5	244.4657	ppb
|	Cu	63	476149.7	252.64427	ppb
|	Cu	65	227429.8	250.87829	ppb
|	Zn	66	125226.6	245.5102	ppb
|	Zn	67	21699.8	248.95047	ppb
|	Zn	68	95022.4	250.27776	ppb
|	As	75	168236.8	248.84199	ppb
|	Se	77	12329.6	242.29806	ppb
|	Se	82	15453.5	243.1894	ppb
|>	Rh	103	163660.4		ppb
|	Ag	107	844254.9	241.03432	ppb
|	Ag	109	830204.1	250.89248	ppb
|	Cd	111	193825	251.65535	ppb
|-	Cd	114	439917	251.33067	ppb
|-	Ba	135	230494.7	249.04831	ppb
|	Ba	137	402353	250.02187	ppb
|>	Ho	165	303725.8		ppb
|-	Pb	208	2843190	247.91299	ppb
	Kr	83	88		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Tuesday, June 05, 2007 14:29:40
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	10742.5		ppb
|-	Sc	45	70799.2		ppb
|	Cr	52	299493.6	100.83278	ppb
|	Cr	53	46867.6	105.47896	ppb
|	Mn	55	442569	97.18665	ppb
|	Co	59	385051.6	96.05317	ppb
|	Ni	60	84876.4	99.39015	ppb
|	Cu	63	191336.9	100.57652	ppb
|	Cu	65	92325.1	100.88006	ppb
|	Zn	66	52303.9	99.81866	ppb
|	Zn	67	9436.1	101.46564	ppb
|	Zn	68	39272.4	100.71178	ppb
|	As	75	69112.9	101.59452	ppb
|	Se	77	5678.7	104.97053	ppb
|	Se	82	6475	101.31068	ppb
|>	Rh	103	164514		ppb
|	Ag	107	356139	100.90472	ppb
|	Ag	109	332260.4	99.63417	ppb
|	Cd	111	78462.8	101.30418	ppb
|-	Cd	114	181171.2	102.93665	ppb
|-	Ba	135	94489.7	101.36194	ppb
|	Ba	137	165974.2	102.40023	ppb
|>	Ho	165	305635.7		ppb
|-	Pb	208	1172390.5	101.52657	ppb
	Kr	83	78		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 6
Sample Da: Tuesday, June 05, 2007 14:32:26
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	11131		ppb
|-	Sc	45	75573.3		ppb
|	Cr	52	6499.9	1.12546	ppb
|	Cr	53	13730.5	13.47928	ppb
|	Mn	55	23184.8	4.89918	ppb
|	Co	59	4671.7	1.14001	ppb
|	Ni	60	1388.8	1.45997	ppb
|	Cu	63	2405.4	0.61918	ppb
|	Cu	65	1403.8	0.84331	ppb
|	Zn	66	1815.9	-0.09074	ppb
|	Zn	67	1156.4	2.92651	ppb
|	Zn	68	987.1	-1.05547	ppb
|	As	75	238.1	0.21492	ppb
|	Se	77	1432.8	18.39791	ppb
|	Se	82	24.4	0.32116	ppb
|>	Rh	103	163301.7		ppb
|	Ag	107	40695.7	11.26412	ppb
|	Ag	109	38975.2	11.417	ppb
|	Cd	111	256.1	0.29351	ppb
|-	Cd	114	1545.6	0.8559	ppb
|-	Ba	135	380	0.23658	ppb
|	Ba	137	640	0.22938	ppb
|>	Ho	165	318838.5		ppb
|-	Pb	208	10769.2	0.80208	ppb
	Kr	83	102.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 7
Sample Da: Tuesday, June 05, 2007 14:35:12
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9537.4		ppb
|-	Sc	45	63174.3		ppb
|	Cr	52	34227.2	12.67205	ppb
|	Cr	53	19074.3	37.76685	ppb
|	Mn	55	68140.5	17.49579	ppb
|	Co	59	71569.4	21.08515	ppb
|	Ni	60	15927.7	21.91584	ppb
|	Cu	63	18597.9	10.97461	ppb
|	Cu	65	9365.4	11.47491	ppb
|	Zn	66	5862.8	10.01088	ppb
|	Zn	67	1844.2	15.02812	ppb
|	Zn	68	3795.2	8.23452	ppb
|	As	75	6320	10.86661	ppb
|	Se	77	2320	44.95672	ppb
|	Se	82	526.9	9.6895	ppb
|>	Rh	103	139123.5		ppb
|	Ag	107	48489.6	15.9182	ppb
|	Ag	109	45904.1	15.94213	ppb
|	Cd	111	3374.3	5.11395	ppb
|-	Cd	114	9289.9	6.21469	ppb
|-	Ba	135	269.7	0.17574	ppb
|	Ba	137	475.4	0.18533	ppb
|>	Ho	165	268076.2		ppb
|-	Pb	208	7112.6	0.60959	ppb
	Kr	83	92		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 9
Sample Da: Tuesday, June 05, 2007 14:37:58
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9846.6		ppb
|-	Sc	45	58444		ppb
|	Cr	52	5473.9	1.05768	ppb
|	Cr	53	7069.8	-2.11035	ppb
|	Mn	55	10059.8	2.32454	ppb
|	Co	59	269.3	0.04327	ppb
|	Ni	60	6154	8.19022	ppb
|	Cu	63	777.7	-0.18554	ppb
|	Cu	65	400.3	-0.2014	ppb
|	Zn	66	3624.8	4.60936	ppb
|	Zn	67	1134.1	4.72691	ppb
|	Zn	68	2708.1	4.64841	ppb
|	As	75	149.3	0.11377	ppb
|	Se	77	293	-4.13924	ppb
|	Se	82	4.2	0.0022	ppb
|>	Rh	103	141953		ppb
|	Ag	107	29176.8	9.27149	ppb
|	Ag	109	27600.4	9.27923	ppb
|	Cd	111	55.9	0.04405	ppb
|-	Cd	114	175.2	0.08701	ppb
|-	Ba	135	220.3	0.12356	ppb
|	Ba	137	345.7	0.10099	ppb
|>	Ho	165	260410.8		ppb
|-	Pb	208	9086	0.83126	ppb
	Kr	83	51.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 10
Sample Da: Tuesday, June 05, 2007 14:40:45
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	7855.2		ppb
|-	Sc	45	48707.5		ppb
|	Cr	52	114084.9	51.34198	ppb
|	Cr	53	19344	47.73355	ppb
|	Mn	55	166990	49.40145	ppb
|	Co	59	152146.9	51.23842	ppb
|	Ni	60	33103.3	52.25911	ppb
|	Cu	63	70066.8	49.40286	ppb
|	Cu	65	33898.5	49.6622	ppb
|	Zn	66	19651.7	48.81887	ppb
|	Zn	67	3881.3	51.49969	ppb
|	Zn	68	15009.7	50.19401	ppb
|	As	75	26564.8	52.67143	ppb
|	Se	77	1935.6	42.31993	ppb
|	Se	82	2261.5	47.77012	ppb
|>	Rh	103	121820.3		ppb
|	Ag	107	127193.3	48.45633	ppb
|	Ag	109	120930.5	48.75482	ppb
|	Cd	111	29596.8	51.58383	ppb
|-	Cd	114	67639	51.88706	ppb
|-	Ba	135	37515.7	56.95098	ppb
|	Ba	137	65276	57.00311	ppb
|>	Ho	165	215702.3		ppb
|-	Pb	208	477367.3	58.54057	ppb
	Kr	83	54		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-4
Sample Da: Tuesday, June 05, 2007 14:48:58
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8763.4		ppb
|-	Sc	45	135889.5		ppb
|	Cr	52	154623	72.83829	ppb
|	Cr	53	21516	59.14003	ppb
|	Mn	55	2688267.1	831.26829	ppb
|	Co	59	15330.9	5.34044	ppb
|	Ni	60	32809.5	53.89546	ppb
|	Cu	63	244268.8	180.94496	ppb
|	Cu	65	118295.2	182.19857	ppb
|	Zn	66	178640.2	493.15308	ppb
|	Zn	67	28167.5	460.56957	ppb
|	Zn	68	134180	497.56718	ppb
|	As	75	6071.9	12.42108	ppb
|	Se	77	225.7	-4.64946	ppb
|	Se	82	-167.1	-3.73784	ppb
|>	Rh	103	117097.5		ppb
|	Ag	107	36757.1	14.30087	ppb
|	Ag	109	34263.8	14.09651	ppb
|	Cd	111	20684.2	37.49987	ppb
|-	Cd	114	45175.5	36.04428	ppb
|-	Ba	135	78692.6	111.00361	ppb
|	Ba	137	138895.5	112.6748	ppb
|>	Ho	165	232492.2		ppb
|-	Pb	208	2007525	228.67354	ppb
	Kr	83	388.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-4
Sample Da: Tuesday, June 05, 2007 14:51:42
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	10609		ppb
|-	Sc	45	132721.6		ppb
|	Cr	52	257960	102.96315	ppb
|	Cr	53	34125.7	87.61211	ppb
|	Mn	55	2572873.9	671.0507	ppb
|	Co	59	145043	42.85758	ppb
|	Ni	60	57348.6	79.55647	ppb
|	Cu	63	298543.9	186.54725	ppb
|	Cu	65	144889.3	188.24922	ppb
|	Zn	66	178327.3	414.70375	ppb
|	Zn	67	28547.8	392.22877	ppb
|	Zn	68	135049.7	421.85681	ppb
|	As	75	30602.4	53.25332	ppb
|	Se	77	1414.1	23.14358	ppb
|	Se	82	1533.1	28.38469	ppb
|>	Rh	103	138821.6		ppb
|	Ag	107	178143.9	59.65607	ppb
|	Ag	109	168783.8	59.82252	ppb
|	Cd	111	49034.6	75.02327	ppb
|-	Cd	114	111219.4	74.88302	ppb
|-	Ba	135	113568.3	131.35016	ppb
|	Ba	137	199132.7	132.47145	ppb
|>	Ho	165	283595.2		ppb
|-	Pb	208	2506816.1	234.08953	ppb
	Kr	83	278		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da Tuesday, June 05, 2007 14:57:10
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9347.9		ppb
|-	Sc	45	50433.4		ppb
|	Cr	52	2700.8	0.07488	ppb
|	Cr	53	7299.6	1.01224	ppb
|	Mn	55	873.7	0.00384	ppb
|	Co	59	135	0.00869	ppb
|	Ni	60	123	0.0037	ppb
|	Cu	63	1012.1	0.0236	ppb
|	Cu	65	532	0.03843	ppb
|	Zn	66	1460.5	-0.0062	ppb
|	Zn	67	734.4	0.25707	ppb
|	Zn	68	1080.7	-0.01665	ppb
|	As	75	119.8	0.08825	ppb
|	Se	77	502	2.02747	ppb
|	Se	82	-10.5	-0.27853	ppb
|>	Rh	103	128326.3		ppb
|	Ag	107	1642.5	0.2091	ppb
|	Ag	109	1577.5	0.21159	ppb
|	Cd	111	33.2	0.0152	ppb
|-	Cd	114	70.7	0.02261	ppb
|-	Ba	135	146	0.04215	ppb
|	Ba	137	212.3	0.01495	ppb
|>	Ho	165	243536.9		ppb
|-	Pb	208	1511.7	0.07115	ppb
	Kr	83	60.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Tuesday, June 05, 2007 14:59:55
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9230.1		ppb
|-	Sc	45	51646.5		ppb
|	Cr	52	221152.5	95.56761	ppb
|	Cr	53	34163.9	97.14539	ppb
|	Mn	55	313581.8	88.40699	ppb
|	Co	59	290770.5	93.14427	ppb
|	Ni	60	64664.9	97.26088	ppb
|	Cu	63	147977.7	99.90396	ppb
|	Cu	65	72386.6	101.58691	ppb
|	Zn	66	38909.7	95.21148	ppb
|	Zn	67	7105.8	97.77596	ppb
|	Zn	68	29698.1	97.72483	ppb
|	As	75	51900.5	97.98452	ppb
|	Se	77	4076.4	95.90897	ppb
|	Se	82	4705.1	94.54883	ppb
|>	Rh	103	128098.6		ppb
|	Ag	107	273567.7	99.56406	ppb
|	Ag	109	269670.4	103.86704	ppb
|	Cd	111	60271.6	99.94632	ppb
|-	Cd	114	137577.2	100.38525	ppb
|-	Ba	135	74787.9	99.99278	ppb
|	Ba	137	131763	101.32186	ppb
|>	Ho	165	245226.9		ppb
|-	Pb	208	989815.9	106.83794	ppb
	Kr	83	69		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-3
Sample Da: Tuesday, June 05, 2007 15:44:02
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9530.8		ppb
|-	Sc	45	56380		ppb
|	Cr	52	43188.7	17.15246	ppb
|	Cr	53	11027.4	13.09512	ppb
|	Mn	55	473301.1	129.13716	ppb
|	Co	59	4014.7	1.20986	ppb
|	Ni	60	9962.4	14.33043	ppb
|	Cu	63	42947.9	27.55458	ppb
|	Cu	65	20976.6	27.95299	ppb
|	Zn	66	43437.4	103.07722	ppb
|	Zn	67	7170.5	95.12178	ppb
|	Zn	68	32112.4	102.33369	ppb
|	As	75	1319.8	2.2767	ppb
|	Se	77	436.3	-0.05122	ppb
|	Se	82	39.4	0.6956	ppb
|>	Rh	103	132504.9		ppb
|	Ag	107	7331.6	2.19965	ppb
|	Ag	109	6779.5	2.13589	ppb
|	Cd	111	5022.7	8.01437	ppb
|-	Cd	114	11081.3	7.79071	ppb
|-	Ba	135	19796.7	24.57041	ppb
|	Ba	137	34485.6	24.6162	ppb
|>	Ho	165	262974.8		ppb
|-	Pb	208	389457	39.13984	ppb
	Kr	83	67.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-3
Sample Da: Tuesday, June 05, 2007 15:46:47
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9425.9		ppb
|-	Sc	45	53999		ppb
|	Cr	52	41774.9	17.14145	ppb
|	Cr	53	11173.3	14.89693	ppb
|	Mn	55	453017.2	127.71957	ppb
|	Co	59	3700.9	1.1505	ppb
|	Ni	60	9426.8	14.00945	ppb
|	Cu	63	41772.6	27.6952	ppb
|	Cu	65	20480.4	28.20419	ppb
|	Zn	66	41631.9	102.03215	ppb
|	Zn	67	7016.7	96.32869	ppb
|	Zn	68	31005.6	102.07323	ppb
|	As	75	1265.9	2.251	ppb
|	Se	77	418.3	-0.14088	ppb
|	Se	82	40.4	0.74156	ppb
|>	Rh	103	128217.8		ppb
|	Ag	107	7008.7	2.16779	ppb
|	Ag	109	6426.9	2.08465	ppb
|	Cd	111	4968.5	8.19262	ppb
|-	Cd	114	10833.8	7.87295	ppb
|-	Ba	135	19031.2	24.41478	ppb
|	Ba	137	33517	24.73619	ppb
|>	Ho	165	254385.3		ppb
|-	Pb	208	377704.6	39.24954	ppb
	Kr	83	65.3		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da Tuesday, June 05, 2007 15:55:00
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8916.5		ppb
|-	Sc	45	47158.9		ppb
|	Cr	52	2456.7	0.01895	ppb
|	Cr	53	6620	-0.29654	ppb
|	Mn	55	1281.8	0.13607	ppb
|	Co	59	125.3	0.00743	ppb
|	Ni	60	128.3	0.02093	ppb
|	Cu	63	967.7	0.02456	ppb
|	Cu	65	522.4	0.05941	ppb
|	Zn	66	1430.8	0.09028	ppb
|	Zn	67	703.7	0.30123	ppb
|	Zn	68	1068.4	0.1137	ppb
|	As	75	80.8	0.02206	ppb
|	Se	77	441.7	0.99585	ppb
|	Se	82	6.9	0.07918	ppb
|>	Rh	103	122535.6		ppb
|	Ag	107	1597.5	0.22075	ppb
|	Ag	109	1583.8	0.2433	ppb
|	Cd	111	43.4	0.03543	ppb
|-	Cd	114	71.3	0.0255	ppb
|-	Ba	135	144	0.04109	ppb
|	Ba	137	249.7	0.04561	ppb
|>	Ho	165	241554.1		ppb
|-	Pb	208	2843.9	0.21915	ppb
	Kr	83	49		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Tuesday, June 05, 2007 15:57:44
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8818.1		ppb
|-	Sc	45	46406.8		ppb
|	Cr	52	201158.8	91.08429	ppb
|	Cr	53	31016.6	91.27107	ppb
|	Mn	55	288023.4	85.12881	ppb
|	Co	59	265478	89.17556	ppb
|	Ni	60	58732.2	92.6023	ppb
|	Cu	63	135284.4	95.72032	ppb
|	Cu	65	66773.9	98.2286	ppb
|	Zn	66	36022.7	92.30051	ppb
|	Zn	67	6558	94.26277	ppb
|	Zn	68	27475.2	94.6881	ppb
|	As	75	48203.6	95.41704	ppb
|	Se	77	3778.2	92.88988	ppb
|	Se	82	4359.7	91.88619	ppb
|>	Rh	103	122187.8		ppb
|	Ag	107	262486.1	100.11618	ppb
|	Ag	109	244456.1	98.68389	ppb
|	Cd	111	57104.9	99.26644	ppb
|-	Cd	114	130579	99.90802	ppb
|-	Ba	135	71805.8	98.15326	ppb
|	Ba	137	126063	99.10842	ppb
|>	Ho	165	239854.5		ppb
|-	Pb	208	981176.3	108.28003	ppb
	Kr	83	62.7		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-5
Sample Da: Tuesday, June 05, 2007 16:06:02
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	10459.1		ppb
|-	Sc	45	175881.7		ppb
|	Cr	52	14125.4	4.65229	ppb
|	Cr	53	5218.7	-7.63942	ppb
|	Mn	55	20299.2	5.10715	ppb
|	Co	59	1167.8	0.31423	ppb
|	Ni	60	2493.1	3.31939	ppb
|	Cu	63	7541.5	4.11375	ppb
|	Cu	65	3690.9	4.1509	ppb
|	Zn	66	15789.4	33.70401	ppb
|	Zn	67	3168.3	34.24241	ppb
|	Zn	68	15665.2	46.1622	ppb
|	As	75	645.1	0.99812	ppb
|	Se	77	153.3	-7.37574	ppb
|	Se	82	-98.3	-1.90591	ppb
|>	Rh	103	137426.7		ppb
|	Ag	107	6337.2	1.7654	ppb
|	Ag	109	5890.5	1.72294	ppb
|	Cd	111	8148.6	12.55825	ppb
|-	Cd	114	18412	12.49918	ppb
|-	Ba	135	30712.8	36.13606	ppb
|	Ba	137	54031.1	36.56741	ppb
|>	Ho	165	277899.3		ppb
|-	Pb	208	30303.5	2.79611	ppb
	Kr	83	264.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da: Tuesday, June 05, 2007 16:08:46
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8971.9		ppb
|-	Sc	45	46119.2		ppb
|	Cr	52	2511.1	0.07438	ppb
|	Cr	53	6940.6	1.59322	ppb
|	Mn	55	869.4	0.02119	ppb
|	Co	59	119.3	0.00647	ppb
|	Ni	60	124.7	0.01988	ppb
|	Cu	63	891.1	-0.01375	ppb
|	Cu	65	501.4	0.04808	ppb
|	Zn	66	1274.1	-0.23627	ppb
|	Zn	67	729.7	1.02612	ppb
|	Zn	68	975.7	-0.12224	ppb
|	As	75	98.4	0.06246	ppb
|	Se	77	462.4	1.88576	ppb
|	Se	82	15.6	0.27195	ppb
|>	Rh	103	119395.7		ppb
|	Ag	107	1567.2	0.22429	ppb
|	Ag	109	1501.2	0.22517	ppb
|	Cd	111	43.3	0.03741	ppb
|-	Cd	114	57.8	0.01637	ppb
|-	Ba	135	131.3	0.03186	ppb
|	Ba	137	224.7	0.03395	ppb
|>	Ho	165	231038.6		ppb
|-	Pb	208	1497.4	0.07839	ppb
	Kr	83	46.7		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Tuesday, June 05, 2007 16:11:31
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8789.2		ppb
|-	Sc	45	46933		ppb
|	Cr	52	199986.2	91.39548	ppb
|	Cr	53	31522.5	94.25697	ppb
|	Mn	55	285126	85.04714	ppb
|	Co	59	265494.9	89.98074	ppb
|	Ni	60	58976.3	93.82264	ppb
|	Cu	63	136235.1	97.29459	ppb
|	Cu	65	66135.1	98.18379	ppb
|	Zn	66	35979.5	93.07112	ppb
|	Zn	67	6586.7	95.68536	ppb
|	Zn	68	27377.9	95.21461	ppb
|	As	75	48226.9	96.3216	ppb
|	Se	77	3741.2	92.81587	ppb
|	Se	82	4361.3	92.72138	ppb
|>	Rh	103	121074.9		ppb
|	Ag	107	258190.3	99.4194	ppb
|	Ag	109	245766.9	100.16001	ppb
|	Cd	111	56352.3	98.86905	ppb
|-	Cd	114	130367.6	100.64724	ppb
|-	Ba	135	70588.5	100.50654	ppb
|	Ba	137	123030.2	100.72126	ppb
|>	Ho	165	230338.1		ppb
|-	Pb	208	945597.1	108.67937	ppb
	Kr	83	69.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: Blank
Sample Da Tuesday, June 05, 2007 16:27:22
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8979.2		ppb
|-	Sc	45	46758		ppb
|	Cr	52	2373.4		ppb
|	Cr	53	8084.7		ppb
|	Mn	55	466.4		ppb
|	Co	59	45.3		ppb
|	Ni	60	41.7		ppb
|	Cu	63	136		ppb
|	Cu	65	116.7		ppb
|	Zn	66	361.7		ppb
|	Zn	67	619.7		ppb
|	Zn	68	293.7		ppb
|	As	75	38.3		ppb
|	Se	77	475.7		ppb
|	Se	82	2.5		ppb
|>	Rh	103	120569.3		ppb
|	Ag	107	1218.8		ppb
|	Ag	109	1154.1		ppb
|	Cd	111	6.7		ppb
|-	Cd	114	16.6		ppb
|-	Ba	135	67.3		ppb
|	Ba	137	101.3		ppb
|>	Ho	165	227983.2		ppb
|-	Pb	208	389		ppb
	Kr	83	54.7		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: qc std #2
Sample Da Tuesday, June 05, 2007 16:30:08
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8924.8		ppb
|-	Sc	45	46234.1		ppb
|	Cr	52	4470.9	0.97767	ppb
|	Cr	53	8556.5	1.86786	ppb
|	Mn	55	3338.4	0.86454	ppb
|	Co	59	2702.1	0.90624	ppb
|	Ni	60	724.4	1.09469	ppb
|	Cu	63	1816.5	1.21547	ppb
|	Cu	65	939.1	1.23712	ppb
|	Zn	66	721.7	0.97524	ppb
|	Zn	67	716	1.59156	ppb
|	Zn	68	564	0.98519	ppb
|	As	75	589.6	1.1072	ppb
|	Se	77	521.4	1.3085	ppb
|	Se	82	43.5	0.87721	ppb
|>	Rh	103	120375.6		ppb
|	Ag	107	4104.7	1.12142	ppb
|	Ag	109	3889.3	1.12516	ppb
|	Cd	111	594.5	1.03782	ppb
|-	Cd	114	1310.3	1.00517	ppb
|-	Ba	135	771.7	1.01794	ppb
|	Ba	137	1371.1	1.0558	ppb
|>	Ho	165	227244.6		ppb
|-	Pb	208	9349.1	1.04467	ppb
	Kr	83	53.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-3
Sample Da Tuesday, June 05, 2007 16:32:53
Sample De AIRNCVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9212.6		ppb
|-	Sc	45	58130.8		ppb
|	Cr	52	168676.9	82.50672	ppb
|	Cr	53	23075.1	62.88306	ppb
|	Mn	55	1952067.8	625.54527	ppb
|	Co	59	15732	5.70091	ppb
|	Ni	60	39583.2	67.55574	ppb
|	Cu	63	167505.4	128.97031	ppb
|	Cu	65	81276.1	130.07517	ppb
|	Zn	66	155783.1	448.12527	ppb
|	Zn	67	24456.8	414.26736	ppb
|	Zn	68	113992.7	440.2738	ppb
|	As	75	4817.6	10.25252	ppb
|	Se	77	249.7	-5.82864	ppb
|	Se	82	50.8	1.12527	ppb
|>	Rh	103	112973.4		ppb
|	Ag	107	27340.4	10.84921	ppb
|	Ag	109	25536.7	10.72113	ppb
|	Cd	111	20245.7	38.07063	ppb
|-	Cd	114	45173.9	37.37425	ppb
|-	Ba	135	81047.5	110.17612	ppb
|	Ba	137	142905.1	111.7369	ppb
|>	Ho	165	241471.5		ppb
|-	Pb	208	1721121.3	188.89665	ppb
	Kr	83	172.3		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-3
Sample Da: Tuesday, June 05, 2007 16:35:37
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9163.2		ppb
|-	Sc	45	58673.1		ppb
|	Cr	52	169924.2	82.48618	ppb
|	Cr	53	22907.7	61.54388	ppb
|	Mn	55	1941653.7	617.81363	ppb
|	Co	59	15856.2	5.70395	ppb
|	Ni	60	39548.4	67.00826	ppb
|	Cu	63	168601	128.85968	ppb
|	Cu	65	82169.6	130.54113	ppb
|	Zn	66	154998.9	442.61115	ppb
|	Zn	67	24487.2	411.76253	ppb
|	Zn	68	113266.2	434.33191	ppb
|	As	75	4794.1	10.12323	ppb
|	Se	77	226	-6.57567	ppb
|	Se	82	49.7	1.07646	ppb
|>	Rh	103	113792.9		ppb
|	Ag	107	27695.9	10.91542	ppb
|	Ag	109	25806.2	10.75358	ppb
|	Cd	111	20394.4	38.07276	ppb
|-	Cd	114	44495.9	36.54703	ppb
|-	Ba	135	82483.5	110.94361	ppb
|	Ba	137	143460.5	110.97449	ppb
|>	Ho	165	243949.2		ppb
|-	Pb	208	1719906.7	186.74371	ppb
	Kr	83	149		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-4
Sample Da: Tuesday, June 05, 2007 16:41:07
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9703.8		ppb
|-	Sc	45	57433.9		ppb
|	Cr	52	14323.1	5.16413	ppb
|	Cr	53	7349	-4.40777	ppb
|	Mn	55	210632.9	59.4618	ppb
|	Co	59	1274.4	0.39354	ppb
|	Ni	60	2813.5	4.17623	ppb
|	Cu	63	21787.3	14.7237	ppb
|	Cu	65	10759	15.04525	ppb
|	Zn	66	19629.6	48.97813	ppb
|	Zn	67	3476.4	43.17218	ppb
|	Zn	68	14535.5	48.61647	ppb
|	As	75	655.7	1.16295	ppb
|	Se	77	406.7	-2.57951	ppb
|	Se	82	-31	-0.67113	ppb
|>	Rh	103	127991.7		ppb
|	Ag	107	3367	0.75712	ppb
|	Ag	109	3156.6	0.74647	ppb
|	Cd	111	1991.6	3.29391	ppb
|-	Cd	114	4294	3.12496	ppb
|-	Ba	135	7344	9.35827	ppb
|	Ba	137	12687.4	9.30842	ppb
|>	Ho	165	255177.7		ppb
|-	Pb	208	186015.5	19.26901	ppb
	Kr	83	117		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-4
Sample Da: Tuesday, June 05, 2007 16:43:53
Sample De: AIRNOVA
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	9519		ppb
|-	Sc	45	56081		ppb
|	Cr	52	116116.7	50.27586	ppb
|	Cr	53	19853.2	41.16912	ppb
|	Mn	55	356514.7	101.89076	ppb
|	Co	59	138213.9	44.82132	ppb
|	Ni	60	32608.7	49.66303	ppb
|	Cu	63	91702.2	62.98428	ppb
|	Cu	65	44660.1	63.72082	ppb
|	Zn	66	36339.8	92.54909	ppb
|	Zn	67	6294.4	87.42659	ppb
|	Zn	68	27075.5	92.52978	ppb
|	As	75	25294.7	48.3342	ppb
|	Se	77	1997.3	39.81334	ppb
|	Se	82	2128.7	43.28355	ppb
|>	Rh	103	126552.2		ppb
|	Ag	107	138639.7	50.7929	ppb
|	Ag	109	131465.4	50.97738	ppb
|	Cd	111	31808	53.39134	ppb
|-	Cd	114	73511	54.29799	ppb
|-	Ba	135	43740.6	55.46435	ppb
|	Ba	137	76558.6	55.84185	ppb
|>	Ho	165	258504.2		ppb
|-	Pb	208	730574.8	74.82097	ppb
	Kr	83	109.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da: Tuesday, June 05, 2007 16:46:36
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8800.4		ppb
|-	Sc	45	43404.9		ppb
|	Cr	52	2162.6	-0.06177	ppb
|	Cr	53	6517.9	-5.06069	ppb
|	Mn	55	516.4	0.02061	ppb
|	Co	59	50.7	0.00245	ppb
|	Ni	60	45.3	0.0085	ppb
|	Cu	63	184.7	0.03994	ppb
|	Cu	65	142.3	0.04636	ppb
|	Zn	66	379.3	0.08433	ppb
|	Zn	67	573	-0.42276	ppb
|	Zn	68	302.3	0.07092	ppb
|	As	75	49.9	0.0276	ppb
|	Se	77	406.7	-1.52031	ppb
|	Se	82	2.2	-0.00519	ppb
|>	Rh	103	116391.7		ppb
|	Ag	107	1184.4	0.00282	ppb
|	Ag	109	1064.7	-0.02137	ppb
|	Cd	111	5.9	-0.00107	ppb
|-	Cd	114	22.1	0.00489	ppb
|-	Ba	135	66	-0.00678	ppb
|	Ba	137	118.7	0.00943	ppb
|>	Ho	165	240060.8		ppb
|-	Pb	208	1813.4	0.15507	ppb
	Kr	83	55		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da: Tuesday, June 05, 2007 16:49:21
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	8447		ppb
|-	Sc	45	42438.3		ppb
|	Cr	52	185032.3	90.28056	ppb
|	Cr	53	29038.5	86.65242	ppb
|	Mn	55	268457	85.61479	ppb
|	Co	59	245631.6	88.93524	ppb
|	Ni	60	54766.3	93.17286	ppb
|	Cu	63	126061.5	96.70117	ppb
|	Cu	65	61212.3	97.57404	ppb
|	Zn	66	34097.6	96.98098	ppb
|	Zn	67	6268.8	98.31911	ppb
|	Zn	68	26056	99.46032	ppb
|	As	75	45012.1	96.07192	ppb
|	Se	77	3601.1	93.5762	ppb
|	Se	82	4269.7	96.96199	ppb
|>	Rh	103	113371.6		ppb
|	Ag	107	242752.9	99.74114	ppb
|	Ag	109	232272.6	100.98736	ppb
|	Cd	111	54324.9	101.80768	ppb
|-	Cd	114	125834.5	103.77612	ppb
|-	Ba	135	68408.4	96.36195	ppb
|	Ba	137	119566.2	96.86047	ppb
|>	Ho	165	232904.2		ppb
|-	Pb	208	966627.4	109.91382	ppb
	Kr	83	54.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: Blank
Sample Da: Friday, June 15, 2007 11:20:19
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	21509.8		ppb
|-	Sc	45	116600.4		ppb
|	Cr	52	4576.6		ppb
|	Cr	53	11314.5		ppb
|	Mn	55	1348.8		ppb
|	Co	59	105		ppb
|	Ni	60	120.3		ppb
|	Cu	63	230.7		ppb
|	Cu	65	183.3		ppb
|	Zn	66	478.7		ppb
|	Zn	67	657		ppb
|	Zn	68	371.3		ppb
|	As	75	43.1		ppb
|	Se	77	1198.1		ppb
|	Se	82	19		ppb
|>	Rh	103	237943.4		ppb
|	Ag	107	69		ppb
|	Ag	109	89		ppb
|	Cd	111	16		ppb
|-	Cd	114	35.1		ppb
|-	Ba	135	89.7		ppb
|	Ba	137	157.7		ppb
|>	Ho	165	418379.2		ppb
|-	Pb	208	726.4		ppb
	Kr	83	156.3		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 1
Sample Da: Friday, June 15, 2007 11:23:03
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	21498.1		ppb
|-	Sc	45	116854.2		ppb
|	Cr	52	8657.2	0.9547	ppb
|	Cr	53	12278.5	2.31568	ppb
|	Mn	55	8581.8	0.91977	ppb
|	Co	59	5937.2	0.95892	ppb
|	Ni	60	1416.5	1.07841	ppb
|	Cu	63	3238.7	1.09654	ppb
|	Cu	65	1578.8	1.07889	ppb
|	Zn	66	1397.5	1.14919	ppb
|	Zn	67	841.1	1.56395	ppb
|	Zn	68	1004.4	1.11389	ppb
|	As	75	1135.6	1.09171	ppb
|	Se	77	1285.4	1.50343	ppb
|	Se	82	136.7	1.17662	ppb
|>	Rh	103	234262.9		ppb
|	Ag	107	5363.8	1.03257	ppb
|	Ag	109	5092.9	1.01497	ppb
|	Cd	111	1238.8	0.97558	ppb
|-	Cd	114	2868	0.99018	ppb
|-	Ba	135	1230.8	1.04143	ppb
|	Ba	137	2149.6	1.04152	ppb
|>	Ho	165	418232.2		ppb
|-	Pb	208	16085	0.93211	ppb
	Kr	83	152		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 2
Sample Da: Friday, June 15, 2007 11:25:49
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	21790		ppb
|-	Sc	45	117560		ppb
|	Cr	52	420715.4	94.58823	ppb
|	Cr	53	61957.1	101.23425	ppb
|	Mn	55	748813	93.69805	ppb
|	Co	59	584908.8	95.0422	ppb
|	Ni	60	123524.9	101.39477	ppb
|	Cu	63	283116.7	101.83786	ppb
|	Cu	65	134273.6	102.26038	ppb
|	Zn	66	84170.5	102.6773	ppb
|	Zn	67	13665.7	103.20069	ppb
|	Zn	68	60091.2	102.92574	ppb
|	As	75	102712.5	101.33898	ppb
|	Se	77	8422.7	100.83333	ppb
|	Se	82	10112	99.4377	ppb
|>	Rh	103	236913.5		ppb
|	Ag	107	554764.4	106.90609	ppb
|	Ag	109	518728.5	104.00347	ppb
|	Cd	111	124450.8	98.13852	ppb
|-	Cd	114	287529.9	99.32246	ppb
|-	Ba	135	112363.1	101.61225	ppb
|	Ba	137	195586.9	101.36734	ppb
|>	Ho	165	421609.5		ppb
|-	Pb	208	1607679.4	96.74174	ppb
	Kr	83	166		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: Standard 3
Sample Da Friday, June 15, 2007 11:28:35
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	20927.1		ppb
|-	Sc	45	117527.5		ppb
|	Cr	52	2172802.4	501.08244	ppb
|	Cr	53	257202.4	499.75052	ppb
|	Mn	55	3934372.9	501.26055	ppb
|	Co	59	3032194.5	500.99164	ppb
|	Ni	60	598272.8	499.72089	ppb
|	Cu	63	1365234.8	499.63223	ppb
|	Cu	65	644433.3	499.54777	ppb
|	Zn	66	400898.2	499.46424	ppb
|	Zn	67	62570	499.35873	ppb
|	Zn	68	285368.2	499.41462	ppb
|	As	75	498011.8	499.73202	ppb
|	Se	77	36419.8	499.83233	ppb
|	Se	82	49946.7	500.11211	ppb
|>	Rh	103	233019		ppb
|	Ag	107	2544680.4	498.61872	ppb
|	Ag	109	2448635.9	499.19928	ppb
|	Cd	111	623984.3	500.37234	ppb
|-	Cd	114	1423867.2	500.13553	ppb
|-	Ba	135	558349.9	499.67747	ppb
|	Ba	137	974301.7	499.72645	ppb
|>	Ho	165	426345.7		ppb
|-	Pb	208	8409685.3	500.65179	ppb
	Kr	83	273.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da Friday, June 15, 2007 11:31:19
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	20895.9		ppb
|-	Sc	45	113411		ppb
|	Cr	52	4999.9	0.13903	ppb
|	Cr	53	11211.7	0.65034	ppb
|	Mn	55	1715.5	0.05414	ppb
|	Co	59	398	0.05013	ppb
|	Ni	60	160.3	0.03784	ppb
|	Cu	63	443.4	0.08257	ppb
|	Cu	65	271.7	0.07524	ppb
|	Zn	66	501	0.05108	ppb
|	Zn	67	735.7	0.8438	ppb
|	Zn	68	417.3	0.10626	ppb
|	As	75	793.2	0.76726	ppb
|	Se	77	1362.5	3.00867	ppb
|	Se	82	251.8	2.38184	ppb
|>	Rh	103	229298.3		ppb
|	Ag	107	74934.5	14.90526	ppb
|	Ag	109	72724.3	15.05047	ppb
|	Cd	111	81.2	0.05389	ppb
|-	Cd	114	167.4	0.04793	ppb
|-	Ba	135	151.3	0.0562	ppb
|	Ba	137	277.3	0.06254	ppb
|>	Ho	165	418480.2		ppb
|-	Pb	208	6575.5	0.35479	ppb
	Kr	83	173		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 2
Sample Da Friday, June 15, 2007 11:34:05
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	21294.1		ppb
|-	Sc	45	112448.5		ppb
|	Cr	52	8619.9	0.96205	ppb
|	Cr	53	11734	1.40567	ppb
|	Mn	55	8440.4	0.91048	ppb
|	Co	59	5731	0.93256	ppb
|	Ni	60	1287.4	0.981	ppb
|	Cu	63	2998.6	1.01732	ppb
|	Cu	65	1483.5	1.01461	ppb
|	Zn	66	1289.1	1.02789	ppb
|	Zn	67	893.7	2.04352	ppb
|	Zn	68	928.7	0.99479	ppb
|	As	75	1215.5	1.17853	ppb
|	Se	77	1272.1	1.46405	ppb
|	Se	82	132.6	1.14435	ppb
|>	Rh	103	232394.4		ppb
|	Ag	107	43426.2	8.51413	ppb
|	Ag	109	42105.4	8.58351	ppb
|	Cd	111	1270.9	1.00924	ppb
|-	Cd	114	2835.4	0.98679	ppb
|-	Ba	135	1202.1	1.01554	ppb
|	Ba	137	2169	1.05209	ppb
|>	Ho	165	418126.5		ppb
|-	Pb	208	17357.3	1.00955	ppb
	Kr	83	158.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 3
Sample Da Friday, June 15, 2007 11:36:50
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	19855.5		ppb
|-	Sc	45	109232.4		ppb
|	Cr	52	927892.6	228.16812	ppb
|	Cr	53	124610	247.96375	ppb
|	Mn	55	1685902.3	229.50481	ppb
|	Co	59	1329604.6	234.80847	ppb
|	Ni	60	277056.8	247.30795	ppb
|	Cu	63	649146.1	253.87529	ppb
|	Cu	65	306284.9	253.70018	ppb
|	Zn	66	189473.7	252.02416	ppb
|	Zn	67	30387.6	256.74969	ppb
|	Zn	68	136360	254.7562	ppb
|	As	75	232667.7	249.53881	ppb
|	Se	77	17572.7	249.72219	ppb
|	Se	82	23031.5	246.41808	ppb
|>	Rh	103	218000.7		ppb
|	Ag	107	1382959.4	289.64883	ppb
|	Ag	109	1336326.4	291.22154	ppb
|	Cd	111	292686	250.85382	ppb
|-	Cd	114	668466.5	250.96061	ppb
|-	Ba	135	260711.4	248.89409	ppb
|	Ba	137	457366.5	250.23184	ppb
|>	Ho	165	399592.1		ppb
|-	Pb	208	3774866	239.74703	ppb
	Kr	83	192.7		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da: Friday, June 15, 2007 11:39:35
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	20896.4		ppb
|-	Sc	45	113938.4		ppb
|	Cr	52	400466.7	92.91379	ppb
|	Cr	53	60179.1	101.57447	ppb
|	Mn	55	721121.1	93.15054	ppb
|	Co	59	559980.6	93.92426	ppb
|	Ni	60	118422.5	100.34066	ppb
|	Cu	63	272090	101.02084	ppb
|	Cu	65	129275.6	101.62044	ppb
|	Zn	66	80804.8	101.74056	ppb
|	Zn	67	13198.2	102.86771	ppb
|	Zn	68	57857.1	102.30544	ppb
|	As	75	99998	101.83708	ppb
|	Se	77	8356.9	103.68313	ppb
|	Se	82	10140.6	102.93508	ppb
|>	Rh	103	229527.4		ppb
|	Ag	107	552785.8	109.90198	ppb
|	Ag	109	520756.6	107.83623	ppb
|	Cd	111	122000.3	99.32144	ppb
|-	Cd	114	281452.8	100.35885	ppb
|-	Ba	135	110503.1	99.21865	ppb
|	Ba	137	194323.2	99.99377	ppb
|>	Ho	165	424632.8		ppb
|-	Pb	208	1589503.2	94.96941	ppb
	Kr	83	183		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 6
Sample Da: Friday, June 15, 2007 11:42:21
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	22359.1		ppb
|-	Sc	45	117409.5		ppb
|	Cr	52	8396	0.97736	ppb
|	Cr	53	15829.8	10.84833	ppb
|	Mn	55	44085.4	5.66016	ppb
|	Co	59	6321.5	1.06613	ppb
|	Ni	60	1738.9	1.40778	ppb
|	Cu	63	3365.4	1.19498	ppb
|	Cu	65	1489.8	1.05938	ppb
|	Zn	66	2435	2.56523	ppb
|	Zn	67	1477.8	7.17874	ppb
|	Zn	68	1368.8	1.85082	ppb
|	As	75	179.2	0.14286	ppb
|	Se	77	2140	14.86367	ppb
|	Se	82	47.2	0.30093	ppb
|>	Rh	103	224631.1		ppb
|	Ag	107	53356.1	10.816	ppb
|	Ag	109	51548.2	10.8674	ppb
|	Cd	111	177.4	0.13533	ppb
|-	Cd	114	1820.9	0.65151	ppb
|-	Ba	135	360.7	0.23169	ppb
|	Ba	137	653	0.24284	ppb
|>	Ho	165	439161.8		ppb
|-	Pb	208	14046.1	0.7679	ppb
	Kr	83	169		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 7
Sample Da: Friday, June 15, 2007 11:45:06
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	21722.1		ppb
|-	Sc	45	105315.7		ppb
|	Cr	52	45844.2	10.38062	ppb
|	Cr	53	20630	22.65121	ppb
|	Mn	55	118417.6	16.097	ppb
|	Co	59	101432	18.04504	ppb
|	Ni	60	21714.1	19.45319	ppb
|	Cu	63	25845.6	10.11316	ppb
|	Cu	65	12080.5	9.95672	ppb
|	Zn	66	8741.7	11.16647	ppb
|	Zn	67	2409	15.7498	ppb
|	Zn	68	5916.8	10.53748	ppb
|	As	75	8920.2	9.60772	ppb
|	Se	77	2894.2	27.58432	ppb
|	Se	82	868.8	9.1984	ppb
|>	Rh	103	216228.8		ppb
|	Ag	107	54814.3	11.56363	ppb
|	Ag	109	52163.3	11.44495	ppb
|	Cd	111	5341.4	4.60447	ppb
|-	Cd	114	13848.8	5.23054	ppb
|-	Ba	135	585	0.42829	ppb
|	Ba	137	1016.4	0.42533	ppb
|>	Ho	165	437707.5		ppb
|-	Pb	208	11496.8	0.62263	ppb
	Kr	83	141		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-1
Sample Da: Friday, June 15, 2007 11:47:52
Sample De: AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17284		ppb
|-	Sc	45	81895.9		ppb
|	Cr	52	121367	35.34196	ppb
|	Cr	53	21095	33.03786	ppb
|	Mn	55	763159.8	125.9929	ppb
|	Co	59	10574.8	2.24946	ppb
|	Ni	60	18289.6	19.71981	ppb
|	Cu	63	126924.6	60.17412	ppb
|	Cu	65	70246.9	70.5188	ppb
|	Zn	66	327554.7	529.3642	ppb
|	Zn	67	51538.1	533.90894	ppb
|	Zn	68	247507.7	561.93728	ppb
|	As	75	41292.4	53.70284	ppb
|	Se	77	3674.8	50.94021	ppb
|	Se	82	4185	54.186	ppb
|>	Rh	103	179656.2		ppb
|	Ag	107	42902	10.88484	ppb
|	Ag	109	40201.1	10.60749	ppb
|	Cd	111	22732.2	23.6294	ppb
|-	Cd	114	49154.8	22.38222	ppb
|-	Ba	135	89301.8	85.18693	ppb
|	Ba	137	158198.8	86.48602	ppb
|>	Ho	165	399669.6		ppb
|-	Pb	208	3158164.7	200.53792	ppb
	Kr	83	538		ppb

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Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-1
Sample Da: Friday, June 15, 2007 11:50:35
Sample De: AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17528.8		ppb
|-	Sc	45	81745.1		ppb
|	Cr	52	120593.2	35.52601	ppb
|	Cr	53	18904.3	27.86645	ppb
|	Mn	55	756656.5	126.35784	ppb
|	Co	59	10571.1	2.27479	ppb
|	Ni	60	18152.9	19.79815	ppb
|	Cu	63	126767.9	60.79141	ppb
|	Cu	65	70719.9	71.80059	ppb
|	Zn	66	325235.3	531.63909	ppb
|	Zn	67	50294.8	526.93878	ppb
|	Zn	68	244900.9	562.3789	ppb
|	As	75	40334.1	53.06213	ppb
|	Se	77	3529.1	49.01313	ppb
|	Se	82	4060.9	53.18067	ppb
|>	Rh	103	177608.5		ppb
|	Ag	107	38026.9	9.76351	ppb
|	Ag	109	35591.5	9.5027	ppb
|	Cd	111	22472	23.62957	ppb
|-	Cd	114	48708.1	22.43439	ppb
|-	Ba	135	89443.3	87.23456	ppb
|	Ba	137	156449.9	87.44568	ppb
|>	Ho	165	390890.2		ppb
|-	Pb	208	3088958.8	200.53201	ppb
	Kr	83	540		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-2
Sample Da: Friday, June 15, 2007 11:53:19
Sample De: AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17422.9		ppb
|-	Sc	45	123796.2		ppb
|	Cr	52	117766.9	37.77255	ppb
|	Cr	53	17389	27.85777	ppb
|	Mn	55	143988.8	26.00027	ppb
|	Co	59	57248.2	13.47093	ppb
|	Ni	60	33367	39.64498	ppb
|	Cu	63	111273.4	57.99219	ppb
|	Cu	65	57512	63.45049	ppb
|	Zn	66	508900	904.55886	ppb
|	Zn	67	79692.4	911.16266	ppb
|	Zn	68	392091.7	979.04047	ppb
|	As	75	12867.5	18.37205	ppb
|	Se	77	1951.2	22.82472	ppb
|	Se	82	1835.4	26.03515	ppb
|>	Rh	103	163419.8		ppb
|	Ag	107	26484.3	7.3876	ppb
|	Ag	109	24744.3	7.17593	ppb
|	Cd	111	140546.4	160.68506	ppb
|-	Cd	114	324035.9	162.28592	ppb
|-	Ba	135	95874.9	99.8803	ppb
|	Ba	137	169351	101.11212	ppb
|>	Ho	165	365953.5		ppb
|-	Pb	208	3151234.2	218.50979	ppb
	Kr	83	644		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-2
Sample Da: Friday, June 15, 2007 11:56:03
Sample De: AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17213		ppb
|-	Sc	45	121313.7		ppb
|	Cr	52	264199.8	87.72525	ppb
|	Cr	53	34636.5	79.75225	ppb
|	Mn	55	337058.3	62.28336	ppb
|	Co	59	198057.8	47.56567	ppb
|	Ni	60	62323.5	75.59228	ppb
|	Cu	63	199600.5	106.13005	ppb
|	Cu	65	99151.7	111.6301	ppb
|	Zn	66	533912.1	967.61399	ppb
|	Zn	67	82793.8	965.43555	ppb
|	Zn	68	410872.5	1046.0111	ppb
|	As	75	51459.1	75.02829	ppb
|	Se	77	4218.8	70.33254	ppb
|	Se	82	5080.3	73.77249	ppb
|>	Rh	103	160289.9		ppb
|	Ag	107	188353.2	53.64668	ppb
|	Ag	109	178478.6	52.88649	ppb
|	Cd	111	186479.5	217.36931	ppb
|-	Cd	114	432513.6	220.8433	ppb
|-	Ba	135	141249.8	149.31152	ppb
|	Ba	137	247843.4	150.14978	ppb
|>	Ho	165	360802.8		ppb
|-	Pb	208	4324136.8	304.14148	ppb
	Kr	83	619.7		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da: Friday, June 15, 2007 11:58:47
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	18602		ppb
|-	Sc	45	74960		ppb
|	Cr	52	3001.9	-0.10352	ppb
|	Cr	53	5271.1	-8.12004	ppb
|	Mn	55	993.1	0.00167	ppb
|	Co	59	102.3	0.00575	ppb
|	Ni	60	80.7	-0.00795	ppb
|	Cu	63	187.3	0.00969	ppb
|	Cu	65	220.7	0.09077	ppb
|	Zn	66	365	0.02721	ppb
|	Zn	67	477.7	-0.01556	ppb
|	Zn	68	274.7	0.00954	ppb
|	As	75	213.1	0.24459	ppb
|	Se	77	571.4	-5.75585	ppb
|	Se	82	41.8	0.37685	ppb
|>	Rh	103	173501.1		ppb
|	Ag	107	311.7	0.06888	ppb
|	Ag	109	307	0.06636	ppb
|	Cd	111	43.2	0.0341	ppb
|-	Cd	114	103.5	0.03686	ppb
|-	Ba	135	99.7	0.02304	ppb
|	Ba	137	176.3	0.02386	ppb
|>	Ho	165	363072.3		ppb
|-	Pb	208	2702.5	0.14524	ppb
	Kr	83	101.3		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Friday, June 15, 2007 12:01:32
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	19374		ppb
|-	Sc	45	80965.6		ppb
|	Cr	52	317821.9	92.85321	ppb
|	Cr	53	45050.9	94.43162	ppb
|	Mn	55	553081.5	89.93166	ppb
|	Co	59	417096.9	88.06965	ppb
|	Ni	60	87003.9	92.79831	ppb
|	Cu	63	197882.7	92.51	ppb
|	Cu	65	93739.6	92.78113	ppb
|	Zn	66	58215.9	92.23765	ppb
|	Zn	67	9637.7	94.16355	ppb
|	Zn	68	43111.7	95.94356	ppb
|	As	75	75528.1	96.85173	ppb
|	Se	77	5777.4	88.1096	ppb
|	Se	82	7059.7	90.21136	ppb
|>	Rh	103	182313.2		ppb
|	Ag	107	410323.6	102.76616	ppb
|	Ag	109	387687.3	101.13188	ppb
|	Cd	111	94375.8	96.72524	ppb
|-	Cd	114	219333.1	98.46731	ppb
|-	Ba	135	90739	92.64752	ppb
|	Ba	137	158853.4	92.95899	ppb
|>	Ho	165	373426.3		ppb
|-	Pb	208	1604911.5	109.04984	ppb
	Kr	83	134		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC STD #2
Sample Da Friday, June 15, 2007 12:19:30
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	19523.1		ppb
|-	Sc	45	81274.7		ppb
|	Cr	52	6434.9	0.82741	ppb
|	Cr	53	7683.3	-2.942	ppb
|	Mn	55	6457.2	0.86261	ppb
|	Co	59	4351.2	0.88356	ppb
|	Ni	60	942.1	0.88755	ppb
|	Cu	63	2195.6	0.92408	ppb
|	Cu	65	1085.1	0.91513	ppb
|	Zn	66	932.7	0.87247	ppb
|	Zn	67	734.4	2.23438	ppb
|	Zn	68	736.7	0.97932	ppb
|	As	75	995.1	1.20558	ppb
|	Se	77	705	-4.11722	ppb
|	Se	82	87.7	0.90838	ppb
|>	Rh	103	186075.6		ppb
|	Ag	107	4389.9	1.06409	ppb
|	Ag	109	4076.7	1.02316	ppb
|	Cd	111	977.6	0.96899	ppb
|-	Cd	114	2263	0.98335	ppb
|-	Ba	135	1023.7	0.95086	ppb
|	Ba	137	1808.2	0.96269	ppb
|>	Ho	165	378372.3		ppb
|-	Pb	208	17068.3	1.10089	ppb
	Kr	83	109		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-1
Sample Da Friday, June 15, 2007 12:22:16
Sample De AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	18568		ppb
|-	Sc	45	73643.4		ppb
|	Cr	52	26728.1	6.83102	ppb
|	Cr	53	9616	2.36861	ppb
|	Mn	55	157734.5	25.43491	ppb
|	Co	59	2256	0.4577	ppb
|	Ni	60	3898.3	4.04835	ppb
|	Cu	63	26662.2	12.34565	ppb
|	Cu	65	14210.2	13.894	ppb
|	Zn	66	70956.9	112.13868	ppb
|	Zn	67	11374.5	111.63101	ppb
|	Zn	68	53311.2	118.32113	ppb
|	As	75	7289.5	9.27363	ppb
|	Se	77	1006.4	1.53275	ppb
|	Se	82	618.1	7.70029	ppb
|>	Rh	103	182979		ppb
|	Ag	107	7971.2	1.97619	ppb
|	Ag	109	7481.4	1.92488	ppb
|	Cd	111	4930.5	5.02259	ppb
|-	Cd	114	10546.3	4.70529	ppb
|-	Ba	135	18294.9	17.96819	ppb
|	Ba	137	32434.7	18.25775	ppb
|>	Ho	165	386807		ppb
|-	Pb	208	639955.9	41.95468	ppb
	Kr	83	228.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-1
Sample Da Friday, June 15, 2007 12:25:00
Sample De AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	18245.9		ppb
|-	Sc	45	73931.6		ppb
|	Cr	52	26039.9	6.90749	ppb
|	Cr	53	9048	1.75255	ppb
|	Mn	55	152022.3	25.40652	ppb
|	Co	59	2168.6	0.45599	ppb
|	Ni	60	3703.2	3.98507	ppb
|	Cu	63	25705.8	12.33701	ppb
|	Cu	65	13732.1	13.91518	ppb
|	Zn	66	68527.6	112.24379	ppb
|	Zn	67	10983	111.72059	ppb
|	Zn	68	51016.9	117.35825	ppb
|	As	75	7037.2	9.27877	ppb
|	Se	77	1003.1	2.13867	ppb
|	Se	82	587.8	7.58327	ppb
|>	Rh	103	176532.3		ppb
|	Ag	107	7661.6	1.96845	ppb
|	Ag	109	7172.5	1.91256	ppb
|	Cd	111	4599.6	4.85557	ppb
|-	Cd	114	10039	4.64255	ppb
|-	Ba	135	17876	17.79541	ppb
|	Ba	137	31266.9	17.83763	ppb
|>	Ho	165	381560.3		ppb
|-	Pb	208	625070.1	41.53587	ppb
	Kr	83	218.3		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-2
Sample Da Friday, June 15, 2007 12:27:45
Sample De AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17962		ppb
|-	Sc	45	82065.9		ppb
|	Cr	52	26952.5	7.36099	ppb
|	Cr	53	8489.7	0.7366	ppb
|	Mn	55	31436.5	5.23319	ppb
|	Co	59	12399.3	2.74513	ppb
|	Ni	60	7254.9	8.07189	ppb
|	Cu	63	24556.1	12.03375	ppb
|	Cu	65	12700.5	13.13741	ppb
|	Zn	66	118328.9	198.39593	ppb
|	Zn	67	18799	199.20491	ppb
|	Zn	68	89779.3	211.45793	ppb
|	As	75	2948.8	3.94781	ppb
|	Se	77	807.4	-1.19741	ppb
|	Se	82	308.1	3.97445	ppb
|>	Rh	103	172835.1		ppb
|	Ag	107	5704.7	1.49393	ppb
|	Ag	109	5461.8	1.48336	ppb
|	Cd	111	32201	34.80031	ppb
|-	Cd	114	74684.3	35.35621	ppb
|-	Ba	135	21488.9	21.06022	ppb
|	Ba	137	37612.4	21.12464	ppb
|>	Ho	165	387849.5		ppb
|-	Pb	208	702595.1	45.93539	ppb
	Kr	83	259.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: 9181-2
Sample Da Friday, June 15, 2007 12:30:30
Sample De AirNova
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17120.9		ppb
|-	Sc	45	76901		ppb
|	Cr	52	168613.6	54.15418	ppb
|	Cr	53	25399.2	50.55625	ppb
|	Mn	55	268260.3	48.25914	ppb
|	Co	59	188624.5	44.13127	ppb
|	Ni	60	43553.6	51.43712	ppb
|	Cu	63	112613.9	58.30052	ppb
|	Cu	65	54588.4	59.81464	ppb
|	Zn	66	135995.1	239.69387	ppb
|	Zn	67	21761.3	243.37036	ppb
|	Zn	68	104217.4	258.02511	ppb
|	As	75	39072.5	55.503	ppb
|	Se	77	3204.6	47.73444	ppb
|	Se	82	3498.9	49.46346	ppb
|>	Rh	103	164518.2		ppb
|	Ag	107	190394.4	52.83455	ppb
|	Ag	109	180028.5	51.96802	ppb
|	Cd	111	76008.9	86.31674	ppb
|-	Cd	114	175110.8	87.11464	ppb
|-	Ba	135	64150.6	65.16826	ppb
|	Ba	137	113434	66.03338	ppb
|>	Ho	165	375220.1		ppb
|-	Pb	208	1553335	105.03509	ppb
	Kr	83	227.7		ppb

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 1
Sample Da Friday, June 15, 2007 12:33:15
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17603.1		ppb
|-	Sc	45	68603.4		ppb
|	Cr	52	2856.5	-0.12688	ppb
|	Cr	53	6150.3	-5.29932	ppb
|	Mn	55	830.4	-0.02265	ppb
|	Co	59	108.3	0.00772	ppb
|	Ni	60	70.3	-0.01755	ppb
|	Cu	63	158.7	-0.00272	ppb
|	Cu	65	183.7	0.05702	ppb
|	Zn	66	305.3	-0.06052	ppb
|	Zn	67	540	0.80933	ppb
|	Zn	68	227	-0.08904	ppb
|	As	75	287.2	0.35543	ppb
|	Se	77	575	-5.40871	ppb
|	Se	82	6.1	-0.10217	ppb
|>	Rh	103	169286		ppb
|	Ag	107	298.3	0.06733	ppb
|	Ag	109	300	0.06651	ppb
|	Cd	111	38.1	0.02964	ppb
|-	Cd	114	65.2	0.01949	ppb
|-	Ba	135	93	0.01384	ppb
|	Ba	137	166	0.01557	ppb
|>	Ho	165	370734.7		ppb
|-	Pb	208	2692.2	0.14041	ppb
	Kr	83	102.3		ppb

Method 6020 & 200.8 Metals Summary Report
Sample ID: QC Std 4
Sample Da Friday, June 15, 2007 12:36:00
Sample Description:
Concentration Results

	Analyte	Mass	Meas. Intens	Conc. Mear	Report Unit
	Li	6	17841.5		ppb
|-	Sc	45	72993.8		ppb
|	Cr	52	292904	90.11686	ppb
|	Cr	53	42337.4	93.28339	ppb
|	Mn	55	510706	87.50204	ppb
|	Co	59	381770.8	84.94295	ppb
|	Ni	60	80188.8	90.12051	ppb
|	Cu	63	183606.9	90.42968	ppb
|	Cu	65	86491.8	90.18352	ppb
|	Zn	66	55042.5	91.87137	ppb
|	Zn	67	9149.1	94.1791	ppb
|	Zn	68	40982.9	96.0819	ppb
|	As	75	70577.8	95.35146	ppb
|	Se	77	5528.6	88.96721	ppb
|	Se	82	6654.4	89.58256	ppb
|>	Rh	103	173024		ppb
|	Ag	107	392404	103.57306	ppb
|	Ag	109	361153.9	99.15912	ppb
|	Cd	111	90894	98.14096	ppb
|-	Cd	114	209310.7	98.99801	ppb
|-	Ba	135	90137.9	91.11867	ppb
|	Ba	137	157596.9	91.30351	ppb
|>	Ho	165	377122.3		ppb
|-	Pb	208	1644346.9	110.62843	ppb
	Kr	83	122		ppb

PerkinElmer FIMS-100 CVAA Mercury Analyzer

Sample_ID	Date	Time	Mean_Sig	Mean_Rd	Mean_Rt	Units	Alq.	Vol.	Sig 1	Reading-1	Result-1	Sig 2	Reading-2	Result-2
Calib Blank	6/6/2007	22:10:50	0.00222993			µg			0.00222993					
STD1=.004ug	6/6/2007	22:12:04	0.00142783			µg			0.00142783					
STD2=.04ug	6/6/2007	22:13:19	0.01291074			µg			0.01291074					
STD3=.08ug	6/6/2007	22:14:35	0.02593178			µg			0.02593178					
STD4=.16ug	6/6/2007	22:15:52	0.05118261			µg			0.05118261					
STD5=.2ug	6/6/2007	22:17:11	0.06324758			µg			0.06324758					
0.004ug = DL	6/6/2007	22:20:25	0.00137502	0.00400945	0.00400945	µg			0.00137502	0.00400945	0.00400945			
0.080ug = STD.2	6/6/2007	22:21:42	0.02764567	0.08379794	0.08379794	µg			0.02764567	0.08379794	0.08379794			
0.080ug = QC STD 3	6/6/2007	22:23:01	0.02733631	0.08282169	0.08282169	µg			0.02733631	0.08282169	0.08282169			
9181-1 fh	6/6/2007	22:29:32	0.00009455	0.0002752	0.00688021	µg	4	100	0.00009918	0.00028867	0.00721697	0.00008992	0.00026173	0.00654344
9181-1 fh dup	6/6/2007	22:31:18	0.00017978	0.00052333	0.01308333	µg	4	100	0.00018287	0.00053232	0.01330822	0.00017669	0.00051433	0.01285845
9181-2 fh	6/6/2007	22:33:05	0.00074524	0.00217108	0.05427703	µg	4	100	0.0007222	0.00210388	0.05259718	0.00076828	0.00223827	0.05595688
9181-2 fh spk	6/6/2007	22:34:53	0.03092972	0.09421785	2.35544633	µg	4	100	0.03099123	0.09441398	2.3603495	0.03086821	0.09402172	2.35054316
9181-3 fh	6/6/2007	22:36:43	-0.0000229	-0.0000668	-0.0016713	µg	4	100	-0.0000323	-0.0000941	-0.0023529	-0.0000136	-0.0000395	-0.0009898
9181-3 fh dup	6/6/2007	22:38:33	0.0000149	0.00004336	0.00108411	µg	4	100	0.0000188	0.00005471	0.0013679	0.000011	0.00003201	0.00080031
9181-4 fh	6/6/2007	22:40:20	0.00030558	0.00088968	0.0222422	µg	4	100	0.00029764	0.00086655	0.02166386	0.00031352	0.00091282	0.02282053
9181-4 fh spk	6/6/2007	22:42:04	0.03071884	0.09354565	2.33864128	µg	4	100	0.03065869	0.09335397	2.3338494	0.03077899	0.09373732	2.34343315
0.004ug = DL	6/6/2007	22:44:30	0.00123653	0.0036049	0.0036049	µg	4	100	0.00123653	0.0036049	0.0036049			
0.080ug = STD.2	6/6/2007	22:45:46	0.02740695	0.08304454	0.08304454	µg	4	100	0.02740695	0.08304454	0.08304454			
REAGENT BLANK	6/6/2007	22:47:02	-0.0000319	-0.0000929	-0.0000929	µg	4	100	-0.0000319	-0.0000929	-0.0000929			
9181-5 fh	6/6/2007	22:48:46	-0.0021428	-0.0062167	-0.1554177	µg	4	100	-0.0020377	-0.0059128	-0.1478202	-0.0022479	-0.0065206	-0.1630153
0.004ug = DL	6/6/2007	23:00:46	0.00139786	0.00407616	0.00407616	µg	4	2155	0.00139786	0.00407616	0.00407616			
0.080ug = STD.2	6/6/2007	23:02:03	0.02765431	0.08382522	0.08382522	µg	4	2155	0.02765431	0.08382522	0.08382522			
0.080ug = QC STD 3	6/6/2007	23:03:22	0.02777195	0.08419671	0.08419671	µg	4	2155	0.02777195	0.08419671	0.08419671			
Calib Blank	6/6/2007	23:50:37	0.00246258			µg	4	200	0.00246258					
STD1=.004ug	6/6/2007	23:51:51	0.00145413			µg	4	200	0.00145413					
STD2=.04ug	6/6/2007	23:53:07	0.01348048			µg	4	200	0.01348048					
STD3=.08ug	6/6/2007	23:54:24	0.02697315			µg	4	200	0.02697315					
STD4=.16ug	6/6/2007	23:55:41	0.05315932			µg	4	200	0.05315932					
STD5=.2ug	6/6/2007	23:56:59	0.06583597			µg	4	200	0.06583597					
Reagent Blank	6/6/2007	23:58:45	-0.0000381	-0.000108	-0.000108	µg	4	200	-0.000052	-0.0001473	-0.0001473	-0.0000242	-0.0000686	-0.0000686
0.004ug = DL	6/6/2007	23:59:58	0.00144412	0.00409374	0.00409374	µg	4	200	0.00144412	0.00409374	0.00409374			
REAGENT BLANK	6/7/2007	0:01:11	-0.0000673	-0.0001907	-0.0001907	µg	4	200	-0.0000673	-0.0001907	-0.0001907			
0.080ug = STD.2	6/7/2007	0:02:27	0.02844076	0.08327352	0.08327352	µg	4	200	0.02844076	0.08327352	0.08327352			
REAGENT BLANK	6/7/2007	0:03:43	-0.0000719	-0.0002035	-0.0002035	µg	4	200	-0.0000719	-0.0002035	-0.0002035			
9181-3 bh	6/7/2007	0:14:14	0.00038961	0.00110308	0.63978755	µg	4	2320	0.00036902	0.00104478	0.60597512	0.00041019	0.00116137	0.67359998
9181-3 bh dup	6/7/2007	0:16:02	0.00080102	0.002269	1.31602487	µg	4	2320	0.00077449	0.00219377	1.27239147	0.00082756	0.00234423	1.35965828
9181-4 bh	6/7/2007	0:17:50	0.00011665	0.00033016	0.18282875	µg	4	2215	0.00008671	0.00024541	0.13589617	0.00014659	0.00041491	0.22976133
9181-4 bh spk	6/7/2007	0:19:38	0.02759173	0.08070437	44.6900468	µg	4	2215	0.0273464	0.07996271	44.2793519	0.02783706	0.08144603	45.1007416
9181-5 bh	6/7/2007	0:21:26	-0.0001435	-0.0004063	-0.0304727	µg	4	300	-0.0001797	-0.0005086	-0.0381484	-0.0001074	-0.0003039	-0.0227971
0.004ug = DL	6/7/2007	0:22:41	0.00135975	0.0038542	0.0038542	µg	4	300	0.00135975	0.0038542	0.0038542			
0.080ug = STD.2	6/7/2007	0:24:02	0.02839507	0.08313514	0.08313514	µg	4	300	0.02839507	0.08313514	0.08313514			
REAGENT BLANK	6/7/2007	0:25:39	-0.0001387	-0.0003926	-0.0003926	µg	4	300	-0.0001387	-0.0003926	-0.0003926			
9181-1 a	6/7/2007	0:27:24	0.00907221	0.02595097	1.29754892	µg	4	200	0.00900584	0.02575906	1.28795301	0.00913859	0.02614289	1.30714482
9181-1 a dup	6/7/2007	0:29:14	0.00919481	0.0263055	1.31527525	µg	4	200	0.0091132	0.02606948	1.30347448	0.00927641	0.02654152	1.32707602
9181-2 a	6/7/2007	0:31:04	0.00043085	0.0012199	0.06099536	µg	4	200	0.00041162	0.00116544	0.05827223	0.00045007	0.00127436	0.06371849
9181-2 a spk	6/7/2007	0:32:50	0.0267476	0.0781551	3.90775518	µg	4	200	0.02649823	0.07740276	3.87013805	0.02699698	0.07890744	3.94537232
9181-3 a	6/7/2007	0:34:33	-0.0000638	-0.0001807	-0.0090362	µg	4	200	-0.0000809	-0.000229	-0.0114506	-0.0000468	-0.0001324	-0.0066217
9181-3 a dup	6/7/2007	0:36:17	-0.0000796	-0.0002254	-0.0112742	µg	4	200	-0.0001029	-0.0002912	-0.0145628	-0.0000564	-0.0001597	-0.0079856
9181-4 a	6/7/2007	0:38:01	-0.0001619	-0.0004583	-0.0229161	µg	4	200	-0.0001735	-0.0004911	-0.0245578	-0.0001503	-0.0004254	-0.0212743
9181-4 a spk	6/7/2007	0:39:46	0.0279463	0.08177673	4.08883682	µg	4	200	0.02771388	0.08107347	4.0536736	0.02817873	0.08248	4.12400005
9181-5 a	6/7/2007	0:41:31	-0.0001261	-0.0003568	-0.0178401	µg	4	200	-0.0001317	-0.0003727	-0.0186369	-0.0001204	-0.0003408	-0.0170433
9181-1 b	6/7/2007	0:43:16	0.00037071	0.00104956	0.13119571	µg	4	500	0.00034953	0.00098957	0.12369656	0.00039189	0.00110955	0.13869486
0.004ug = DL	6/7/2007	0:45:57	0.00133326	0.00377898	0.00377898	µg	4	500	0.00133326	0.00377898	0.00377898			
0.080ug = STD.2	6/7/2007	0:47:14	0.02802992	0.08202957	0.08202957	µg	4	500	0.02802992	0.08202957	0.08202957			
REAGENT BLANK	6/7/2007	0:48:30	-0.0001887	-0.0005339	-0.0005339	µg	4	500	-0.0001887	-0.0005339	-0.0005339			
9181-1 b dup	6/7/2007	0:50:16	0.00049848	0.0014115	0.17643868	µg	4	500	0.00047709	0.00135089	0.16886232	0.00051987	0.00147212	0.18401504
9181-2 b	6/7/2007	0:52:02	0.00014164	0.00040092	0.05011525	µg	4	500	0.00012522	0.00035442	0.04430324	0.00015807	0.00044741	0.05592726
9181-2 b spk	6/7/2007	0:53:48	0.02505473	0.07305811	9.13226408	µg	4	500	0.02494049	0.07271487	9.08935952	0.02516896	0.07340134	9.17516863
9181-3 b	6/7/2007	0:55:34	-0.0002259	-0.0006392	-0.0799102	µg	4	500	-0.0002588	-0.0007322	-0.0915333	-0.000193	-0.0005462	-0.068287
9181-3 b dup	6/7/2007	0:57:22	-0.0006464	-0.0018279	-0.2284963	µg	4	500	-0.0006641	-0.001878	-0.2347574	-0.0006287	-0.0017778	-0.2222352
9181-4 b	6/7/2007	0:59:11	0.00362712	0.01030857	1.28857148	µg	4	500	0.0035697	0.01014469	1.26808644	0.00368454	0.01047245	1.30905653
9181-4 b spk	6/7/2007	1:00:59	0.02625795	0.07667861	9.58482721	µg	4	500	0.02607687	0.07613295	9.5166196	0.02643903	0.07722427	9.65303482
9181-5 b	6/7/2007	1:02:48	-0.0001489	-0.0004215	-0.0526904	µg	4	500	-0.0001839	-0.0005204	-0.0650585	-0.000114	-0.0003225	-0.0403224
9181-1 c	6/7/2007	1:04:38	0.05130903	0.1545358	15.4535806	µg	4	400	0.0508732	0.15313875	15.3138759	0.05174487	0.15593285	15.5932853
9181-1 c dup	6/7/2007	1:06:24	0.05138411	0.15477617	15.477617	µg	4	400	0.05105065	0.15370709	15.3707097	0.05171756	0.15584524	15.5845243
0.004ug = DL	6/7/2007	1:07:36	0.00138844	0.00393564	0.00393564	µg	4	400	0.00138844	0.00393564	0.00393564			
0.080ug = STD.2	6/7/2007	1:08:53	0.02763257	0.08082762	0.08082762	µg	4	400	0.02763257	0.08082762	0.08082762			
REAGENT BLANK	6/7/2007	1:10:09	-0.0000936	-0.000265	-0.000265	µg	4	400	-0.0000936	-0.000265	-0.000265			
9181-2 c	6/7/2007	1:11:53	0.02053565	0.05955437	5.95543785	µg	4	400	0.02037371	0.05907311	5.90731165	0.02069759	0.06003564	6.00356405
9181-2 c spk	6/7/2007	1:13:35	0.04446197	0.13277394	13.2773944	µg	4	400	0.04426437	0.13215127	13.2151273	0.04465957	0.13339661	13.3396614
9181-3 c	6/7/2007	1:15:19	-0.0000764	-0.0002162	-0.021624	µg	4	400	-0.0000932	-0.0002637	-0.0263768	-0.0000596	-0.0001687	-0.0168712
9181-3 c dup	6/7/2007	1:17:04	-0.0001924	-0.0005444	-0.0544427	µg	4	400	-0.0002044	-0.0005784	-0.0578461	-0.0001803	-0.0005103	-0.0510394
9181-4 c	6/7/2007	1:18:54	0.00040915	0.00115843	0.11584396	µg	4	400	0.00037233	0.00105414	0.10541412	0.00044597	0.00126273	0.1262738
9181-4 c spk	6/7/2007	1:20:43	0.0242807	0.07073473	7.07347302	µg	4	400	0.0241182	0.07024741	7.02474173	0.02444319	0.07122204	7.12220431
9181-5 c	6/7/2007	1:22:32	-0.0001764	-0.0004991	-0.0499135	µg	4	400	-0.0002337	-0.0006611	-0.0661191	-0.0001191	-0.000337	-0.0337079

PerkinElmer FIMS-100 CVAA Mercury Analyzer

Sample_ID	Date	Time	Mean_Sig	Mean_Rd	Mean_Rt	Units	Alq.	Vol.	Sig 1	Reading-1	Result-1	Sig 2	Reading-2	Result-2
0.004ug = DL	6/7/2007	1:30:35	0.00133509	0.00378418	0.00378418	µg	1.6	100	0.00133509	0.00378418	0.00378418			
0.080ug = STD.2	6/7/2007	1:31:53	0.02773335	0.08113235	0.08113235	µg	1.6	100	0.02773335	0.08113235	0.08113235			
REAGENT BLANK	6/7/2007	1:33:08	-0.0000699	-0.0001979	-0.0001979	µg	1.6	100	-0.0000699	-0.0001979	-0.0001979			
Calib Blank	6/9/2007	1:13:31	0.00256884			µg	4	100	0.00256884					
STD1=.004ug	6/9/2007	1:14:44	0.00123014			µg	4	100	0.00123014					
STD2=.04ug	6/9/2007	1:15:59	0.01337025			µg	4	100	0.01337025					
STD3=.08ug	6/9/2007	1:17:15	0.02669358			µg	4	100	0.02669358					
STD4=.16ug	6/9/2007	1:18:32	0.05416859			µg	4	100	0.05416859					
STD5=.2ug	6/9/2007	1:19:50	0.06747305			µg	4	100	0.06747305					
Reagent Blank	6/9/2007	1:21:37	-0.0000712	-0.0002227	-0.0002227	µg	4	100	-0.0001055	-0.00033	-0.00033	-0.0000369	-0.0001155	-0.0001155
0.004ug = DL	6/9/2007	1:22:50	0.00124732	0.00389606	0.00389606	µg	4	100	0.00124732	0.00389606	0.00389606			
0.080ug = STD.2	6/9/2007	1:24:07	0.02807406	0.08533569	0.08533569	µg	4	100	0.02807406	0.08533569	0.08533569			
0.080ug = QC STD 3	6/9/2007	1:25:26	0.02796629	0.08501728	0.08501728	µg	4	100	0.02796629	0.08501728	0.08501728			
9181-1 bh	6/9/2007	1:31:54	0.02327635	0.07109358	195.507357	µg	0.8	2200	0.02309971	0.0705667	194.05844	0.02345299	0.07162046	196.956273
9181-1 bh dup	6/9/2007	1:33:41	0.02159195	0.06606086	181.667364	µg	0.8	2200	0.02151212	0.06582193	181.010318	0.02167178	0.06629978	182.324409
9181-2 bh	6/9/2007	1:35:28	0.02153148	0.06587988	177.463926	µg	0.8	2155	0.02149353	0.06576628	177.157921	0.02156943	0.06599347	177.76993
9181-2 bh spk	6/9/2007	1:37:16	0.04549684	0.13592453	366.146708	µg	0.8	2155	0.04531582	0.13540794	364.755159	0.04567785	0.13644111	367.538257
0.004ug = DL	6/9/2007	1:48:04	0.00127819	0.00399237	0.00399237	µg	4	100	0.00127819	0.00399237	0.00399237			
0.080ug = STD.2	6/9/2007	1:49:20	0.02839513	0.08628388	0.08628388	µg	4	100	0.02839513	0.08628388	0.08628388			
0.080ug = QC STD 3	6/9/2007	1:50:39	0.02846385	0.08648678	0.08648678	µg	4	100	0.02846385	0.08648678	0.08648678			
0.004ug = DL	6/9/2007	4:44:56	0.00136835	0.00427357	0.00427357	µg	4	300	0.00136835	0.00427357	0.00427357			
0.080ug = STD.2	6/9/2007	4:46:13	0.02776067	0.08440955	0.08440955	µg	4	300	0.02776067	0.08440955	0.08440955			
0.080ug = QC STD 3	6/9/2007	4:47:33	0.02755212	0.08379293	0.08379293	µg	4	300	0.02755212	0.08379293	0.08379293			
REAGENT BLANK	6/9/2007	4:48:49	-0.0001181	-0.0003694	-0.0003694	µg	4	300	-0.0001181	-0.0003694	-0.0003694			
9181-lrb	6/9/2007	4:50:33	0.00064741	0.00202348	0.05058702	µg	4	100	0.00061358	0.00191779	0.0479448	0.00068125	0.00212916	0.05322924
9181-lrb spk	6/9/2007	4:52:17	0.02540171	0.07741974	4.83873391	µg	1.6	100	0.02540787	0.07743801	4.83987564	0.02539556	0.07740147	4.83759219
0.004ug = DL	6/9/2007	4:53:31	0.00126408	0.00394834	0.00394834	µg	1.6	100	0.00126408	0.00394834	0.00394834			
0.080ug = QC STD 3	6/9/2007	4:54:47	0.02716998	0.08266239	0.08266239	µg	1.6	100	0.02716998	0.08266239	0.08266239			
REAGENT BLANK	6/9/2007	4:56:02	-0.0001597	-0.0004998	-0.0004998	µg	1.6	100	-0.0001597	-0.0004998	-0.0004998			

AirNova, Inc.

5845 Clayton Ave
Pennsauken, NJ 08109

Project No: 3033

Hydrogen Chloride
And Chlorine

EPA Method 26A Analysis

Analytical Report
9181-M26A

el1

Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 9181-M26A
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:

Daphne Woodman, Chemist
June 8, 2007

Report Reviewed and Finalized By:

Ken Smith, Laboratory Director
June 8, 2007

SUMMARY OF RESULTS

Summary of Analysis

Summary of Method 26A Analysis

Element	M26A-Inlet-Run 1 e9181-6 Total mg	M26A-Inlet-Run 2 e9181-7 Total mg
HCl	15.2	29.0
Cl_2	1.94	1.96

Summary of Method 26A Analysis

Element	M26A-Outlet-Run 1 e9181-8 Total mg	M26A-Outlet-Run 2 e9181-9 Total mg	Reagent Blank e9181-10 Total mg
HCl	10.5	14.8	< 0.02
Cl_2	2.11	2.23	1.99

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	AirNova, Inc.	Element One #:	9181-M26A
Client ID:	GTI-Cement Lock Bayonne NJ	Analyst:	EMM, CMR
Method:	M26	Dates Received:	05/19/07
Analytes:	HCl & Cl_2	Dates Analyzed:	06/04-07/07

Summary of Analysis

The samples were prepared and analyzed according to Method 26A protocol. The samples were analyzed for chloride on a Metrohm 761/788 ion chromatograph system.

Detection Limits

The Metrohm reporting limit was 0.1µg/mL for chloride.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD) and spike recovery data are summarized in the Quality Control section. All QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. Due to the nature of the sample matrix, it was necessary to analyze all samples at a minimum 2-fold dilution to reduce interferences and to preserve the anion column. The IC analysis of the 0.1N NaOH Reagent Blank sample revealed notably elevated chloride concentrations. Subsequent analysis produced equivalent results. Nothing unusual was noticed with any of the samples or analyses.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Method 26A Duplicate Analysis RPD

(Method 26A QC limits: :< 10% for RPD)

Element	M26A-Inlet-Run 1 RPD	M26A-Inlet-Run 2 RPD
HCl	3.3%	2.0%
Cl_2	2.2%	3.6%

Method 26A Duplicate Analysis RPD

(Method 26A QC limits: :< 10% for RPD)

Element	M26A-Outlet-Run 1 RPD	M26A-Outlet-Run 2 RPD	Reagent Blank RPD
HCl	0.8%	3.9%	NA
Cl_2	0.3%	0.2%	1.2%

Method 26A Spike Recoveries

(Laboratory QC limits: ±10% for Spike Recoveries)

Element	M26A-Inlet-Run 2 Recovery	M26A-Outlet-Run 2 Recovery
HCl	93%	90%
Cl_2	105%	110%

SAMPLE CUSTODY

COPY

AirNova, Inc.

5845 Clayton Avenue, Pennsauken, New Jersey 08109
(856) 486-1500 • FAX 486-9896

COC DOCUMENTATION# 7
PAGE 1 OF 1

C9181

CHAIN OF CUSTODY DOCUMENTATION FORM

PROJECT NUMBER 3033
PLANT GTI @ Cement Lock, Bayonne NJ
SAMPLE LOCATION Carbon BED

SAMPLE DATE 5-18-07
RECOVERY DATE 5-18-07
SAMPLE RECOVERED BY AIRNOVA

TEST SET	COLLECTION METHOD	RUN#	SAMPLE MATRIX (INDICATE # OF SAMPLES): SILICA GEL	QUARTZ FILTER	OTHER FILTER (SPECIFY)	ACETONE	WATER	IPA	H2O2	H2SO4	HYDROXIDE NaOH	SPECIFY OTHER GAIN mLs	CONTAINER: HDPE BOTTLE	GLASS BOT	PETRI DISH	TEDLAR BAG	SPECIFY OTHER	PRESERVATION: ICE	SPECIFY OTHER	SAFETY SEAL INTACT (Y/N)	PRIORITY RESULTS (X) FOR YES
Inlet	EPA26A	1		Q3479			3			1		+860mLs	3	1	1						
↓	"	2		Q3515			3			1		+995mLs	3	1	1						
Outlet	"	1		Q3508			3			1		+910mLs	3	1	1						
↓	"	2		Q3513			3			1		+935mLs	3	1	1						
	BLANKS	Blank								1	1		2								
Inlet	EPA8-SOx	1		Q3509			1	2	1				3	1	1						
↓	"	2		Q3514			1	2	1				3	1	1			X			
Outlet	"	1		Q3337			1	2	1				3	1	1						
↓	"	2		Q3512			1	2	1				3	1	1						
	BLANK	Blank						1	1				2								

RELINQUISHED BY: Kenneth E. Gill DATE: 5/19/07
RECEIVED BY: Paul Smith TIME: 1330

RELINQUISHED BY: _____ DATE: _____
RECEIVED BY: Paul Smith TIME: _____

RELINQUISHED BY: _____ DATE: _____
RECEIVED BY: _____ TIME: _____

ANALYTICAL DATA

One **AIR TESTING SAMPLE SUBMISSION FORM** **Lab ID 9181**

Combined Analysis per C. Cornwell via phone 05.23.07 See additional info in Lab Communications

Analysis Due Date 06.05.07
QA/QC/Report Due Date 06.06.07

Client	AIRNOVA
Project No	3033
Project ID	GTI @ Cement Lock Bayonne NJ

Bill to
SGS / Paradigm

Date Rec	05.19.07
Time Rec	1330
Rec by	PDS

HNO_3 Lot:	HF Lot:	HCl Lot:	**Ref. Method:**
Volume Marked Y / N	Volume Loss Y / N / ?	pH < 2.0 Y / N	**26A**

Sample Identification

6	M26A-Inlet-Run 1	8	M26A-Outlet-Run 1	10	M26A-Reagent Blank
7	M26A-Inlet-Run 2	9	M26A-Outlet-Run 2		
	M26A-Inlet-Run 2 Spike		M26A-Outlet-Run 2 Spike		

Analyses Requested: Samples 6-10 HCl & Cl_2

Runs/FB	Quartz Filter	FH H_2O Wash		Impinger 1&2-H_2SO_4 (.1)		Impinger 3&4-NaOH Probe Rinse (.2)	
Lab ID		BV, ml	FV, ml	BV, ml	FV, ml	BV, ml	FV, ml
6	Q3479			1024	1100	214	250
7.S	Q3515			1300	1300	212	250
8	Q3508			1210	1300	168	200
9.S	Q3513			1350	1400	196	200

Reagent Blanks

Lab ID	Fractions	BV, ml	FV, ml	Notes
10.1	H_2SO_4	198		pH<2
10.2	NaOH	100		pH >10

Lab Communications Received Analytical Parameters 05.23.07 PDS

Proceed with M29 & M26A Analyses Hold M5/202 & M8 until further verification (per C. Cornwell-SGS-05.23.07 via phone

M-26A: Archive FH filter and FH wash

H									pH
2	6.1	10x Dil	$AgNO_3$ ⇒ 70.9			6.2	$AgNO_3$ ⇒ <35	10x Dil	5
2	7.1	20x Dil	$AgNO_3$ ⇒ 70.9	20x due to spiking		7.2	"		7
2	8.1	10x Dil	$AgNO_3$ ⇒ 70.9			8.2	"		8
2	9.1	10x Dil	$AgNO_3$ ⇒ 35.5			9.2	$AgNO_3$ ⇒ <17	2 on 5x Dil	8

Note: Run .1 and sample 10 on amended 26A

Run .2 and 10 NaOH on NaOH method

CMR 05/3

SS Page 2 of 4
SS by Paul Smith
5/25/2007 12:04:44 PM

M26A Imp 1&2Prep By / Date
M26A Imp 3&4 Prep By/Date
M8 Prep By/Date
ID Verification By / Date 05.29.07 SW

012

elementOne

M26A-HCl IC Data Sheet

Lab ID #: 9181

Client: AirNova
Date: 06/07/07
Analyst: EMM/CMR
Detection Limit, (µg/ml): 0.10

Column: Metrosep A Supp 5
Eluent: 3.2 mM Na_2CO_3/ 1.0 mM $NaHCO_3$
Flow Rate: 0.7mL/min.
Cl^- to HCl factor: 1.028

Sample ID	Cl^- µg/ml	Dilution	Final Vol, ml	HCl, Total mg	Spike, µg/ml	% Recovery	file name	date time
LRB	0.000	1	10	< 0.001			r6051327.CHW	6/5/2007 13:27
LRB	0.000	1	10	< 0.001			r6051347.CHW	6/5/2007 13:47
LRB spk	4.892	1	10	0.050	5.00	98%	r6051407.CHW	6/5/2007 14:07
LRB spk	4.813	1	575	2.85	5.00	96%	r6051426.CHW	6/5/2007 14:26
9181-6.1	1.324	10	1100	15.0			r6051446.CHW	6/5/2007 14:46
9181-6.1 dup	1.369	10	1100	15.5			r6051506.CHW	6/5/2007 15:06
9181-7.1	1.096	20	1300	29.3			r6051526.CHW	6/5/2007 15:26
9181-7.1 dup	1.074	20	1300	28.7			r6051546.CHW	6/5/2007 15:46
9181-7.1 spk	5.773	20	1300	154	5.00	94%	r6051605.CHW	6/5/2007 16:05
9181-7.1 spk dup	5.712	20	1300	153	5.00	93%	r6051625.CHW	6/5/2007 16:25
9181-8.1	0.791	10	1300	10.58			r6051645.CHW	6/5/2007 16:45
9181-8.1 dup	0.785	10	1300	10.50			r6051705.CHW	6/5/2007 17:05
9181-9.1	1.008	10	1400	14.5			r6051844.CHW	6/5/2007 18:44
9181-9.1 dup	1.048	10	1400	15.1			r6051904.CHW	6/5/2007 19:04
9181-9.1 spk	5.552	10	1400	79.9	5.00	90%	r6051923.CHW	6/5/2007 19:23
9181-9.1 spk dup	5.532	10	1400	79.7	5.00	90%	r6051943.CHW	6/5/2007 19:43
9181-10.1	0.000	1	198	< 0.02			r6052003.CHW	6/5/2007 20:03
9181.10.1 dup	0.000	1	198	< 0.02			r6052023.CHW	6/5/2007 20:23

elementOne

M26A-HCl IC Data Sheet

Lab ID #: 9181

Client: AirNova
Date: 06/07/07
Analyst: EMM/CMR
Detection Limit, (µg/ml): 0.10

Column: Metrosep A Supp 5
Eluent: 3.2 mM Na_2CO_3/ 1.0 mM $NaHCO_3$
Flow Rate: 0.7mL/min.
Cl^- to HCl factor: 1.028

Standards	Cl^- µg/ml	QC, µg/ml	% RPD	% Recovery	file name	date time
0.0 Std	0.000				r6051100.CHW	6/5/2007 11:00
0.1 Std	0.103		2%	103%	r6051128.CHW	6/5/2007 11:28
1.0 Std	1.026		5%	103%	r6051148.CHW	6/5/2007 11:48
5.0 Std	4.995		1%	100%	r6051208.CHW	6/5/2007 12:08
10.0 Std	10.591		2%	106%	r6051228.CHW	6/5/2007 12:28
0.1ppm std	0.105			105%	r6052202.CHW	6/5/2007 22:02
1.0ppm std	0.979			98%	r6052221.CHW	6/5/2007 22:21
5.0ppm std	4.946			99%	r6052241.CHW	6/5/2007 22:41
10.0ppm std	10.415			104%	r6052301.CHW	6/5/2007 23:01
Correlation-	0.99954					
QC Check std	4.921	5.00		98%	r6051247.CHW	6/5/2007 12:47
QC Check std	4.957	5.00		99%	r6051307.CHW	6/5/2007 13:07
QC Check std	4.673	5.00		93%	r6051725.CHW	6/5/2007 17:25
QC Check std	4.735	5.00		95%	r6051744.CHW	6/5/2007 17:44
QC Check std	4.567	5.00		91%	r6052043.CHW	6/5/2007 20:43
QC Check std	4.587	5.00		92%	r6052102.CHW	6/5/2007 21:02

elementOne

M26A-Cl_2 IC Data Sheet

Lab ID #: 9181

Client: AirNova
Date: 06/08/07
Analyst: EMM/CMR
Detection Limit, (µg/ml): 0.10

Column: Metrosep A Supp 5
Eluent: 3.2 mM Na_2CO_3/ 1.0 mM $NaHCO_3$
Flow Rate: 0.7mL/min.

Sample ID	Cl^- µg/ml	Dilution	Final Vol, ml	Cl_2, Total mg	Spike, µg/ml	% Recovery	file name	date time
LRB	0.000	1	10	< 0.001			r6041821.CHW	6/4/2007 18:21
LRB	0.000	1	10	< 0.001			r6041852.CHW	6/4/2007 18:52
LRB spk	4.623	1	10	0.046	5.00	92%	r6041922.CHW	6/4/2007 19:22
LRB spk	5.052	1	10	0.051	5.00	101%	r6041953.CHW	6/4/2007 19:53
9181-6.2	0.759	10	259	1.97			r6042024.CHW	6/4/2007 20:24
9181-6.2 dup	0.769	10	250	1.92			r6042054.CHW	6/4/2007 20:54
9181-7.2	0.769	10	250	1.92			r6042125.CHW	6/4/2007 21:25
9181-7.2 dup	0.797	10	250	1.99			r6042155.CHW	6/4/2007 21:55
9181-7.2 spk	6.044	10	250	15.1	5.00	105%	r6042226.CHW	6/4/2007 22:26
9181-7.2 spk dup	6.015	10	250	15.0	5.00	105%	r6042256.CHW	6/4/2007 22:56
9181-8.2	1.055	10	200	2.11			r6042327.CHW	6/4/2007 23:27
9181-8.2 dup	1.058	10	200	2.12			r6042358.CHW	6/4/2007 23:58
9181-9.2	2.234	5	200	2.23			r6050231.CHW	6/5/2007 2:31
9181-9.2 dup	2.229	5	200	2.23			r6050301.CHW	6/5/2007 3:01
9181-9.2 spk	7.725	5	200	7.73	5.00	110%	r6050332.CHW	6/5/2007 3:32
9181-9.2 spk dup	7.718	5	200	7.72	5.00	110%	r6050402.CHW	6/5/2007 4:02
9181-10.2	1.998	10	100	2.00			r6071239.CHW	6/7/2007 12:39
9181-10.2 dup	1.974	10	100	1.97			r6071309.CHW	6/7/2007 13:09

elementOne

M26A-Cl_2 IC Data Sheet

Lab ID #: 9181

Client: AirNova
Date: 06/08/07
Analyst: EMM/CMR
Detection Limit, (µg/ml): 0.10

Column: Metrosep A Supp 5
Eluent: 3.2 mM Na_2CO_3/ 1.0 mM $NaHCO_3$
Flow Rate: 0.7mL/min.

Standards	Cl^- µg/ml	QC, µg/ml		% Recovery	file name	date time
Blank (0.0 Std)	0.000				r6041426.CHW	6/4/2007 14:26
0.1 Std	0.100		2%	100%	r6041447.CHW	6/4/2007 14:47
1.0 Std	1.005		1%	101%	r6041518.CHW	6/4/2007 15:18
5.0 Std	4.828		5%	97%	r6041548.CHW	6/4/2007 15:48
10.0 Std	10.081		0%	101%	r6041619.CHW	6/4/2007 16:19
0.1ppm std	0.102			102%	r6050736.CHW	6/5/2007 7:36
1.0ppm std	1.020			102%	r6050807.CHW	6/5/2007 8:07
5.0ppm std	5.089			102%	r6050838.CHW	6/5/2007 8:38
10.0ppm std	10.101			101%	r6050908.CHW	6/5/2007 9:08
Correlation-	0.99965					
QC Check std	4.910	5.00		98%	r6041649.CHW	6/4/2007 16:49
QC Check std	4.702	5.00		94%	r6041720.CHW	6/4/2007 17:20
QC Check std	5.249	5.00		105%	r6050028.CHW	6/5/2007 0:28
QC Check std	5.304	5.00		106%	r6050059.CHW	6/5/2007 0:59
QC Check std	5.406	5.00		108%	r6050534.CHW	6/5/2007 5:34
QC Check std	5.334	5.00		107%	r6050605.CHW	6/5/2007 6:05
QC Check std	4.958	5.00		99%	r6071138.CHW	6/7/2007 11:38
QC Check std	4.916	5.00		98%	r6071208.CHW	6/7/2007 12:08
QC Check std	4.969	5.00		99%	r6071340.CHW	6/7/2007 13:40
QC Check std	5.060	5.00		101%	r6071411.CHW	6/7/2007 14:11

Appendix D

Calibration Data

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Cylinder Number:	SG9119556BAL	Reference Number:	82-124076196-1
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	9/26/2009
Certification Date:	9/26/2006	Laboratory:	ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
CARBON DIOXIDE	7.507 %	+/- 1%	NDIR	G1
OXYGEN	12.45 %	+/- 1%	Paramagnetic	G1
NITROGEN	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature _____

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
NTRM 980512	NITROGEN	OXYGEN	SG9161143BAL	7.015 %
NTRM 81674	NITROGEN	CARBON DIOXIDE	XC018784B	6.89 %

Analytical Results

1st Component — CARBON DIOXIDE

1st Analysis Date: 09/26/2006

R 1.354	S 1.477	Z -0.001	Conc 7.509 %
S 1.478	Z 0.000	R 1.355	Conc 7.513 %
Z -0.002	R 1.356	S 1.476	Conc 7.500 %
			AVG: 7.507 %

2nd Component — OXYGEN

1st Analysis Date: 09/26/2006

R 0.788	S 1.402	Z -0.003	Conc 12.45 %
S 1.402	Z -0.003	R 0.788	Conc 12.45 %
Z -0.002	R 0.788	S 1.402	Conc 12.44 %
			AVG: 12.45 %

Airgas

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (800) 381-9510
Fax (203) 250-6842
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E03NI65E15A1094	Reference Number:	46-124090496-4
Cylinder Number:	CC119427	Cylinder Volume:	154 Cu.Ft.
Laboratory:	ASG - Cheshire - CT	Cylinder Pressure:	2015 PSIG
Analysis Date:	Mar 21, 2007	Valve Outlet:	590

Expiration Date: Mar 21, 2010

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig.i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainity
CARBON DIOXIDE	12.50 %	12.75 %	G1	+/- 1% NIST Traceable
OXYGEN	22.00 %	21.99 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	060608	CC206018	22.51% OXYGEN/NITROGEN	May 01, 2010
NTRM	970513	SG9162177	17.89% CARBON DIOXIDE/NITROGEN	May 01, 2010

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet Nexus	FTIR	Mar 01, 2007
SERVOMEX	Paramagnetic	Mar 14, 2007

Triad Data Available Upon Request

Notes:

Jeremy Smith

QA Approval

ASG#6001

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Cylinder Number:	CC49250	Reference Number:	82-124080927-1
Cylinder Pressure:	2015 PSIG	Expiration Date:	11/28/2009
Certification Date:	11/28/2006	Laboratory:	ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
CARBON MONOXIDE	123.3 PPM	+/- 1%	NDIR	G1
NITROGEN	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Signature on file

Approval Signature

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
NTRM 81679	NITROGEN	CARBON MONOXIDE	CC9022	98.0 PPM

Analytical Results

1st Component CARBON MONOXIDE

1st Analysis Date: 11/21/2006

R 2.929	S 3.436	Z 0.998	Conc 123.1 PPM
S 3.434	Z 1.017	R 2.932	Conc 122.7 PPM
Z 1.020	R 2.932	S 3.432	Conc 122.7 PPM
			AVG: 122.8 PPM

2nd Analysis Date: 11/28/2006

R 2.922	S 3.448	Z 0.998	Conc 124.0 PPM
S 3.447	Z 1.016	R 2.928	Conc 123.6 PPM
Z 1.023	R 2.926	S 3.447	Conc 123.7 PPM
			AVG: 123.7 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gas
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Cylinder Number: XC003064B
Cylinder Pressure: 1999.6 PSIG
Certification Date: 8/9/2005
Reference Number: 82-124041784-1
Expiration Date: 8/9/2008
Laboratory: ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
CARBON MONOXIDE	174.2 PPM	+/- 1%	NDIR	G1
NITROGEN	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
NTRM 82636	NITROGEN	CARBON MONOXIDE	XC014219B	246.2 PPM

Analytical Results

1st Component CARBON MONOXIDE

1st Analysis Date: 08/02/2005

R 1.970	S 1.686	Z 1.001	Conc 174.5 PPM
S 1.687	Z 1.001	R 1.972	Conc 174.4 PPM
Z 1.001	R 1.971	S 1.686	Conc 174.3 PPM
			AVG: 174.4 PPM

2nd Analysis Date: 08/09/2005

R 1.968	S 1.681	Z 1.000	Conc 173.5 PPM
S 1.683	Z 1.000	R 1.965	Conc 174.5 PPM
Z 0.998	R 1.967	S 1.683	Conc 174.2 PPM
			AVG: 174.0 PPM

Airgas

Airgas Specialty Gases
12722 South Wentworth Avenu
Chicago, IL 60628
773.785.3000 Fax: 773.785.19
www.airgas.com

Certificate of Analysis: EPA Protocol Gas Mixture

Cylinder Number:	CC44922	Reference Number:	54-124020689-1
Cylinder Pressure:	1999 PSIG	Expiration Date:	7/28/2007
Certification Date:	7/28/2004	Laboratory:	ASG - Chicago - IL

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
METHANE	24.867 PPM	+/- 1%	Total Hydrocarbon	G1
Air	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature _____

Reference Standard Information

Type	Component	Cyl.Number	Concentration
GMIS 60104	METHANE	CC146235	24.50 PPM

Analytical Results

1st Component **METHANE**

1st Analysis Date: 07/28/2004

R 24.50	S 24.80	Z 0.0	Conc 24.8 PPM
S 24.90	Z 0.0	R 24.50	Conc 24.90 PPM
Z 0.0	R 24.50	S 24.90	Conc 24.90 PPM
			AVG: 24.867 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Cylinder Number:	XC022539B	Reference Number:	82-124064841-1
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	5/23/2009
Certification Date:	5/23/2006	Laboratory:	ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
METHANE	45.24 PPM	+/- 1%	FID	G1
Air	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
SRM 2751	AIR	METHANE	CAL013481	98.6 PPM

Analytical Results

1st Component METHANE

1st Analysis Date: 05/23/2006

R 84413	S 38726	Z 0	Conc 45.22 PPM
S 38736	Z 0	R 84445	Conc 45.23 PPM
Z 0	R 84478	S 38779	Conc 45.28 PPM
			AVG: 45.24 PPM

#5000

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Airgas Specialty Gases
12722 South Wentworth Avenue
Chicago, IL 60628
773.785.3000 Fax: 773.785.1928
www.airgas.com

Certificate of Analysis: EPA Protocol Gas Mixture

Cylinder Number:	CC156473	Reference Number:	54-124019786-6
Cylinder Pressure:	2013.3 PSIG	Expiration Date:	6/1/2007
Certification Date:	6/1/2004	Laboratory:	W08 - 124

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
METHANE	88.893 PPM	+/- 1%	FID	G1
Air	Balance			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature _____

Reference Standard Information

Type	Component	Cyl.Number	Concentration
GMIS 60104	METHANE	CC146254	249.6 PPM

Analytical Results

1st Component METHANE

1st Analysis Date: 06/01/2004

R 241.4	S 86.09	Z 0	Conc 89.01 PPM
S 86.33	Z 0	R 241.9	Conc 89.08 PPM
Z 0	R 242.6	S 86.11	Conc 88.59 PPM
			AVG: 88.893 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Cylinder Number:	XC027469B	Reference Number:	82-124054994-1
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	1/23/2008
Certification Date:	1/23/2006	Laboratory:	ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
NITRIC OXIDE	224.9 PPM	+/- 1%	FTIR	G1
NITROGEN	Balance			

Total oxides of nitrogen 224.9 PPM

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
NTRM 81685	NITROGEN	NITRIC OXIDE	XC024324B	244.6 PPM

Analytical Results

1st Component NITRIC OXIDE

1st Analysis Date: 01/16/2006

R 5.334	S 5.016	Z -0.002	Conc 225.0 PPM
S 5.015	Z -0.000	R 5.334	Conc 224.9 PPM
Z 0.003	R 5.334	S 5.016	Conc 225.0 PPM
			AVG: 224.9 PPM

2nd Analysis Date: 01/23/2006

R 5.316	S 4.996	Z -0.004	Conc 224.8 PPM
S 4.996	Z -0.007	R 5.318	Conc 224.7 PPM
Z -0.006	R 5.317	S 5.000	Conc 225.0 PPM
			AVG: 224.8 PPM

#5000

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
600 Union Landing Road
Riverton, NJ 08077
(856) 829-7878
Fax (856) 829-0571
www.airgas.com

Cylinder Number:	SG9149370	Reference Number:	82-124058836-1
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	3/7/2008
Certification Date:	3/7/2006	Laboratory:	ASG - Riverton - NJ

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
NITRIC OXIDE	437.7 PPM	+/- 1%	FTIR	G1
NITROGEN	Balance			
Total oxides of nitrogen	437.8 PPM			

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature

Reference Standard Information

Type	Balance Gas	Component	Cyl.Number	Concentration
NTRM 81686	NITROGEN	NITRIC OXIDE	XC024034B	487.6 PPM

Analytical Results

1st Component NITRIC OXIDE

1st Analysis Date: 02/27/2006

R 0.854	S 0.793	Z 0.000	Conc 436.7 PPM
S 0.793	Z 0.000	R 0.853	Conc 437.5 PPM
Z 0.000	R 0.853	S 0.794	Conc 438.3 PPM
			AVG: 437.5 PPM

2nd Analysis Date: 03/07/2006

R 0.852	S 0.792	Z 0.000	Conc 437.5 PPM
S 0.793	Z 0.000	R 0.852	Conc 438.3 PPM
Z 0.000	R 0.852	S 0.793	Conc 438.3 PPM
			AVG: 438.0 PPM

AirNova, Inc.
Dry gas meter & orifice
Calibration data and calculations

Meter Box #:	4
Checked with Pump #:	4
Date:	`07/05/07
Calibrator:	KA

delta H =	0.5	in. H2O
Pb =	29.95	in. Hg
Time =	18.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	359.652	IVd =	211.210	1.682	1.013
FVw =	366.989	FVd =	218.540		
TVw =	7.337	TVd	7.330		
tw =	75	Itd =	83		
		Ftd=	81		
		Avg. td =	82		

---

delta H =	1.0	in. H2O
Pb =	30.09	in. Hg
Time =	13.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	367.300	IVd =	218.846	1.724	1.015
FVw =	374.666	FVd =	226.219		
TVw =	7.366	TVd	7.373		
tw =	75	Itd =	86.5		
		Ftd=	83		
		Avg. td =	84.75		

---

delta H =	1.5	in. H2O
Pb =	29.95	in. Hg
Time =	11.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	374.854	IVd =	226.402	1.672	1.018
FVw =	382.610	FVd =	234.157		
TVw =	7.756	TVd	7.755		
tw =	75	Itd =	89.5		
		Ftd=	84		
		Avg. td =	86.75		

AirNova, Inc.

Date: `07/05/07 Calibration Data MB#: 4

---

delta H = 2.0 in. H2O
Pb = 29.95 in. Hg
Time = 9 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	382.856	IVd =	234.402	1.691	1.022
FVw =	390.129	FVd =	241.664		
TVw =	7.273	TVd	7.262		
tw =	75	Itd =	91.5		
		Ftd=	86		
		Avg. td =	88.75		

---

delta H = 3.0 in. H2O
Pb = 30.09 in. Hg
Time = 7.0 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	390.360	IVd =	241.901	1.644	1.022
FVw =	397.360	FVd =	248.896		
TVw =	7.000	TVd	6.995		
tw =	75	Itd =	93		
		Ftd=	87.5		
		Avg. td =	90.25		

---

delta H = 4.0 in. H2O
Pb = 30.09 in. Hg
Time = 6 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	397.576	IVd =	249.100	1.701	1.020
FVw =	404.385	FVd =	255.913		
TVw =	6.809	TVd	6.813		
tw =	75.5	Itd =	95		
		Ftd=	88.5		
		Avg. td =	91.75		

Avg.^H@ = 1.69 Avg. Y = 1.02

Signature: Kenneth E. Allen **Date:** 7/5/07

AirNova, Inc.
Calibration data and calculations
Meter Box Temperature Sensors

Meter Box #:	4
Date:	`03/06/07
Calibrator:	KA
Ambient Temp. (F):	80
Barometric Pressure ("Hg):	29.95
Reference Thermometer:	ASTM-2F

Dry Gas Meter Thermocouple - INLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	80	81	1
Hot Water (104-122F)	110	112	2

Dry Gas Meter Thermocouple - OUTLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	80	79	1
Hot Water (104-122F)	113	110	3

note: tolerance for inlet and outlet = +/- 5.4 F

Thermocouple connector/LED readout:

	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
1 Stack	80	80	0
2 Probe	80	82	2
3 Filter	80	82	2
4 Dryer	80	81	1
5 Aux	80	81	1

note: tolerance = +/- 2 F

Signature: Kenneth E. Alb **Date:** 7/5/07

AirNova, Inc.
Dry gas meter & orifice
Calibration data and calculations

Meter Box #:	5
Checked with Pump #:	5
Date:	`06/21/07
Calibrator:	KA

delta H =	0.5	in. H2O
Pb =	29.90	in. Hg
Time =	21.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	154.682	IVd =	488.799	1.687	0.999
FVw =	163.244	FVd =	497.424		
TVw =	8.562	TVd	8.625		
tw =	73	Itd =	78.5		
		Ftd=	75.5		
		Avg. td =	77		

---

delta H =	1.0	in. H2O
Pb =	29.90	in. Hg
Time =	17.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	163.580	IVd =	417.751	1.706	1.003
FVw =	173.313	FVd =	427.530		
TVw =	9.733	TVd	9.779		
tw =	73	Itd =	80		
		Ftd=	77		
		Avg. td =	78.5		

---

delta H =	1.5	in. H2O
Pb =	29.90	in. Hg
Time =	13.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	173.473	IVd =	427.696	1.697	1.004
FVw =	182.612	FVd =	436.871		
TVw =	9.139	TVd	9.175		
tw =	73.5	Itd =	81.5		
		Ftd=	78		
		Avg. td =	79.75		

AirNova, Inc.

Date: `06/21/07 Calibration Data MB#: 5

---

delta H = 2.0 in. H2O
Pb = 29.90 in. Hg
Time = 11.0 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	182.793	IVd =	437.048	1.733	1.005
FVw =	191.634	FVd =	445.902		
TVw =	8.841	TVd	8.854		
tw =	74	Itd =	82		
		Ftd=	78.5		
		Avg. td =	80.25		

---

delta H = 3.0 in. H2O
Pb = 29.90 in. Hg
Time = 8.0 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	191.845	IVd =	446.104	1.701	1.008
FVw =	199.789	FVd =	454.027		
TVw =	7.944	TVd	7.923		
tw =	74	Itd =	82.5		
		Ftd=	79		
		Avg. td =	80.75		

---

delta H = 4.0 in. H2O
Pb = 29.90 in. Hg
Time = 7.0 min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	200.221	IVd =	454.450	1.720	1.010
FVw =	208.200	FVd =	462.380		
TVw =	7.979	TVd	7.930		
tw =	74	Itd =	83		
		Ftd=	79.5		
		Avg. td =	81.25		

Avg.^H@ = 1.71 Avg. Y = 1.00

Signature: Kenneth E. Allen **Date:** 6/22/07

AirNova, Inc.
Calibration data and calculations
Meter Box Temperature Sensors

Meter Box #:	5
Date:	`03/06/07
Calibrator:	KA
Ambient Temp. (F):	56
Barometric Pressure ("Hg):	30.34
Reference Thermometer:	ASTM-2F

Dry Gas Meter Thermocouple - INLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	79	82	3
Hot Water (104-122F)	N/A	N/A	0

Dry Gas Meter Thermocouple - OUTLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	79	82	3
Hot Water (104-122F)	N/A	N/A	0

note: tolerance for inlet and outlet = +/- 5.4 F

Thermocouple connector/LED readout:

	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
1 Stack	79	79	0
2 Probe	79	78	1
3 Filter	79	78	1
4 Dryer	79	80	1
5 Aux	79	80	1

note: tolerance = +/- 2 F

Signature: Kenneth E. Allen **Date:** 6/22/07

AirNova, Inc.
Dry gas meter & orifice
Calibration data and calculations

Meter Box #:	6
Checked with Pump #:	6
Date:	`03/06/07
Calibrator:	KA

delta H =	0.5	in. H2O
Pb =	30.20	in. Hg
Time =	23	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	463.520	IVd =	42.563	1.868	0.987
FVw =	472.195	FVd =	51.580		
TVw =	8.675	TVd	9.017		
tw =	60	Itd =	74		
		Ftd=	74		
		Avg. td =	74		

---

delta H =	1.0	in. H2O
Pb =	30.20	in. Hg
Time =	13	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	472.447	IVd =	51.843	1.795	0.981
FVw =	479.536	FVd =	59.257		
TVw =	7.089	TVd	7.414		
tw =	63	Itd =	78		
		Ftd=	78		
		Avg. td =	78		

---

delta H =	1.5	in. H2O
Pb =	30.20	in. Hg
Time =	11	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	496.080	IVd =	76.615	1.752	0.973
FVw =	503.509	FVd =	84.466		
TVw =	7.429	TVd	7.851		
tw =	64	Itd =	81		
		Ftd=	81		
		Avg. td =	81		

AirNova, Inc.

Date: `03/06/07 Calibration Data MB#: 6

---

delta H =	2.0	in. H2O
Pb =	30.20	in. Hg
Time =	10	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	488.175	IVd =	68.303	1.795	0.979
FVw =	495.865	FVd =	76.405		
TVw =	7.690	TVd	8.102		
tw =	64	Itd =	83		
		Ftd=	83		
		Avg. td =	83		

---

delta H =	3.0	in. H2O
Pb =	30.20	in. Hg
Time =	8	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	503.734	IVd =	84.700	1.748	0.982
FVw =	511.356	FVd =	92.706		
TVw =	7.622	TVd	8.006		
tw =	63.5	Itd =	84		
		Ftd=	84		
		Avg. td =	84		

---

delta H =	4.0	in. H2O
Pb =	30.20	in. Hg
Time =	7	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	511.747	IVd =	93.115	1.774	0.982
FVw =	519.377	FVd =	101.130		
TVw =	7.630	TVd	8.015		
tw =	63	Itd =	85		
		Ftd=	85		
		Avg. td =	85		

Avg.^H@ = 1.79 Avg. Y = 0.98

Signature: Kenneth E. Allen **Date:** 3/6/07

AirNova, Inc.
Calibration data and calculations
Meter Box Temperature Sensors

Meter Box #:	6
Date:	`03/06/07
Calibrator:	KA
Ambient Temp. (F):	64
Barometric Pressure ("Hg):	30.20
Reference Thermometer:	ASTM-2F

Dry Gas Meter Thermocouple

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	64	63	1
Hot Water (104-122F)	N/A	N/A	0

note: tolerance for inlet and outlet = +/- 5.4 F

Thermocouple connector/LED readout:

	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
1 Stack	64	64	0
2 Probe	64	64	0
3 Filter	64	64	0
4 Dryer	64	64	0
5 Aux	64	64	0
6 Aux	64	64	0

note: tolerance = +/- 2 F

Signature: Kenneth E. Allen **Date:** 3/6/07

AirNova, Inc.
Dry gas meter & orifice
Calibration data and calculations

Meter Box #:	7
Checked with Pump #:	7
Date:	`07/03/07
Calibrator:	KA

delta H =	0.5	in. H2O
Pb =	30.25	in. Hg
Time =	18.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	217.675	IVd =	419.155	1.664	0.973
FVw =	224.981	FVd =	426.757		
TVw =	7.306	TVd	7.602		
tw =	70.5	Itd =	78		
		Ftd=	78		
		Avg. td =	78		

---

delta H =	1.0	in. H2O
Pb =	30.25	in. Hg
Time =	19.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	225.350	IVd =	427.100	1.691	1.025
FVw =	236.140	FVd =	437.815		
TVw =	10.790	TVd	10.715		
tw =	71	Itd =	82		
		Ftd=	81.5		
		Avg. td =	81.75		

---

delta H =	1.5	in. H2O
Pb =	30.25	in. Hg
Time =	13.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	236.351	IVd =	437.496	1.762	1.002
FVw =	245.190	FVd =	446.500		
TVw =	8.839	TVd	9.004		
tw =	71	Itd =	85		
		Ftd=	83		
		Avg. td =	84		

AirNova, Inc.

Date: `07/03/07 Calibration Data MB#: 7

---

delta H =	2.0	in. H2O
Pb =	30.25	in. Hg
Time =	10.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	245.465	IVd =	446.151	1.768	1.006
FVw =	253.299	FVd =	454.100		
TVw =	7.834	TVd	7.949		
tw =	71	Itd =	86.5		
		Ftd=	83		
		Avg. td =	84.75		

---

delta H =	3.0	in. H2O
Pb =	30.25	in. Hg
Time =	8.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	254.231	IVd =	454.500	1.728	1.027
FVw =	261.988	FVd =	462.206		
TVw =	7.757	TVd	7.706		
tw =	71	Itd =	88		
		Ftd=	83		
		Avg. td =	85.5		

---

delta H =	4.0	in. H2O
Pb =	30.25	in. Hg
Time =	6.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	262.205	IVd =	462.100	1.800	1.007
FVw =	268.784	FVd =	468.753		
TVw =	6.579	TVd	6.653		
tw =	71	Itd =	89.5		
		Ftd=	83		
		Avg. td =	86.25		

Avg.^H@ = 1.74 Avg. Y = 1.01

Signature: Kenneth E. Ott **Date:** 7/3/07

AirNova, Inc.
Calibration data and calculations
Meter Box Temperature Sensors

Meter Box #:	7
Date:	`07/03/07
Calibrator:	KA
Ambient Temp. (F):	74
Barometric Pressure ("Hg):	30.25
Reference Thermometer:	ASTM-2F

Dry Gas Meter Thermocouple - INLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	74	74	0
Hot Water (104-122F)	110	112	2

Dry Gas Meter Thermocouple - OUTLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	74	73	1
Hot Water (104-122F)	112	111	1

note: tolerance for inlet and outlet = +/- 5.4 F

Thermocouple connector/LED readout:

	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
1 Stack	73	56	17
2 Probe	73	57	16
3 Filter	74	57	17
4 Dryer	74	56	18
5 Aux	75	56	19

note: tolerance = +/- 2 F

Signature: Kenneth E. Alh **Date:** 7/3/07

AirNova, Inc.
Dry gas meter & orifice
Calibration data and calculations

Meter Box #:	8
Checked with Pump #:	8
Date:	`07/06/07
Calibrator:	KA

delta H =	0.5	in. H2O
Pb =	29.97	in. Hg
Time =	19.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	416.020	IVd =	529.284	1.505	0.988
FVw =	424.249	FVd =	537.610		
TVw =	8.229	TVd	8.326		
tw =	74	Itd =	75.5		
		Ftd=	73		
		Avg. td =	74.25		

---

delta H =	1.0	in. H2O
Pb =	29.97	in. Hg
Time =	14.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	424.525	IVd =	537.890	1.481	0.998
FVw =	433.148	FVd =	546.552		
TVw =	8.623	TVd	8.662		
tw =	74	Itd =	78.5		
		Ftd=	75		
		Avg. td =	76.75		

---

delta H =	1.5	in. H2O
Pb =	29.97	in. Hg
Time =	14.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	439.737	IVd =	553.321	1.585	0.991
FVw =	449.926	FVd =	563.661		
TVw =	10.189	TVd	10.340		
tw =	74	Itd =	81		
		Ftd=	77		
		Avg. td =	79		

AirNova, Inc.

Date: `07/06/07 Calibration Data MB#: 8

---

delta H =	2.0	in. H2O
Pb =	29.97	in. Hg
Time =	12	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	450.146	IVd =	563.900	1.513	0.991
FVw =	460.449	FVd =	574.386		
TVw =	10.303	TVd	10.486		
tw =	74	Itd =	83		
		Ftd=	79		
		Avg. td =	81		

---

delta H =	3.0	in. H2O
Pb =	29.97	in. Hg
Time =	10.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	460.709	IVd =	574.653	1.512	0.992
FVw =	471.208	FVd =	585.333		
TVw =	10.499	TVd	10.680		
tw =	74	Itd =	85		
		Ftd=	80.5		
		Avg. td =	82.75		

---

delta H =	4.0	in. H2O
Pb =	29.97	in. Hg
Time =	6.0	min.

Std Test Meter Data		Dry Test Meter Data		^H@i	^Yi
IVw =	471.605	IVd =	585.751	1.509	0.992
FVw =	478.879	FVd =	593.150		
TVw =	7.274	TVd	7.399		
tw =	74	Itd =	86.5		
		Ftd=	81.5		
		Avg. td =	84		

Avg.^H@ = 1.52 Avg. Y = 0.99

Signature: Kenneth E. Allen **Date:** 7/6/07

AirNova, Inc.
Calibration data and calculations
Meter Box Temperature Sensors

Meter Box #:	8
Date:	`03/07/07
Calibrator:	KA
Ambient Temp. (F):	72
Barometric Pressure ("Hg):	29.97
Reference Thermometer:	ASTM-2F

Dry Gas Meter Thermocouple - INLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	72	71	71
Hot Water (104-122F)	110	112	2

Dry Gas Meter Thermocouple - OUTLET

Reference Point	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
Ambient Temp.	72	71	1
Hot Water (104-122F)	107	108	1

note: tolerance for inlet and outlet = +/- 5.4 F

Thermocouple connector/LED readout:

	Ref. Thermometer Temp. (F)	Thermocouple Temp. (F)	Diff.
1 Stack	72	71	1
2 Probe	72	71	1
3 Filter	72	71	1
4 Dryer	72	71	1
5 Aux	72	71	1

note: tolerance = +/- 2 F

Signature: Kenneth E. Allen **Date:** 7/6/07

AirNova, Inc.
Probe Thermocouple
Calibration data

Date:	`07/03/07
Thermocouple I.D. :	AN-5D
Probe Length:	5 Foot
Calibrator	KA
Ambient Temp.(F):	74
Barometric Pressure (" Hg):	30.25
Reference Thermometer:	ASTM-2F

Reference Point	Source	Ref. Thermometer Temp.(F)	Thermocouple Temp.(F)	Temperature Diff. (%)
1	Ice Water	32	33	0.2%
2	Ambient	74	73	0.2%
4	Boiling Water	212	212	0.0%
5	Hot oil bath	385	388	0.4%
		Average Temp. Change:		**0.2%**

Temperature Difference must be < 1.5 %

Signature: Kenneth E. Ale

Date: 7/3/07

AirNova, Inc.

Type S Pitot Tube
Dimensional Specification Verification Form

Pitot No. AN-5D
Calibrator KA
Date 7/3/07

Verify the following criteria and check all that apply

1) Face opening plane perpendicular to the transverse axis ? ✓

2) Face-opening plane parallel to the logitudinal axis ? ✓

3) Are Legs A & B of equal length and are centerlines coincident ? ✓

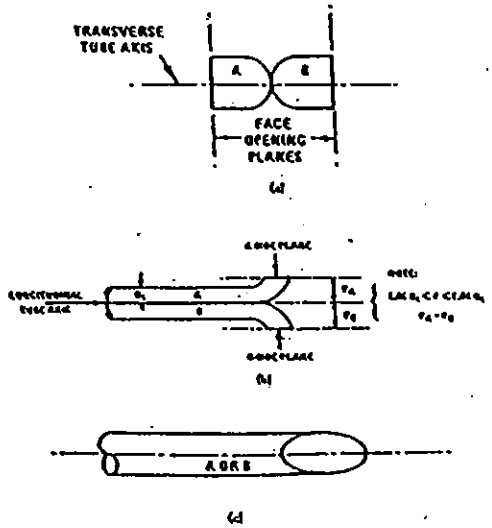
If all the above criteria are met, a pitot coeffecient of 0.84 may be assigned to the respective pitot tube. If one of the following criteria above is not met, the pitot tube must be calibrated in a wind tunnel.

Recommended Dimensions

4) Diameter of pitot tubing ? (Dt) = .375 in. (0.1875 < Dt < 0.375)

5) Dimensions of Pa = .492 in. Pa/Dt = 1.43 (1.05 < Dt < 1.50)

6) Dimensions of Pb = .498 in. Pb/Dt = 1.44 (1.05 < Dt < 1.50)



AirNova, Inc.
Probe Thermocouple
Calibration data

Date:	`07/03/07
Thermocouple I.D. :	AN_5H
Probe Length:	5 Foot
Calibrator	KA
Ambient Temp.(F):	74
Barometric Pressure (" Hg):	30.25
Reference Thermometer:	ASTM-2F

Reference Point	Source	Ref. Thermometer Temp.(F)	Thermocouple Temp.(F)	Temperature Diff. (%)
1	Ice Water	32	33	0.2%
2	Ambient	74	74	0.0%
4	Boiling Water	209	210	0.1%
5	Hot oil bath	353	350	0.4%
		Average Temp. Change:		**0.2%**

Temperature Difference must be < 1.5 %

Signature: Kenneth E. Ell

Date: 7/3/07

AirNova, Inc.

Type S Pitot Tube
Dimensional Specification Verification Form

Pitot No. AN-514
Calibrator KA
Date 7/3/07

Verify the following criteria and check all that apply

1) Face opening plane perpendicular to the transverse axis ? ✓

2) Face-opening plane parallel to the logitudinal axis ? ✓

3) Are Legs A & B of equal length and are centerlines coincident ? ✓

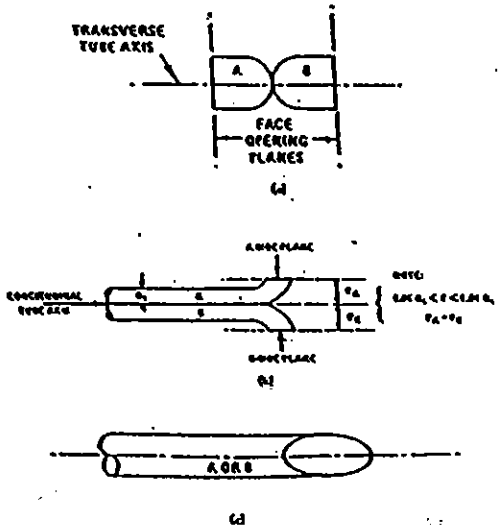
If all the above criteria are met, a pitot coeffecient of 0.84 may be assigned to the respective pitot tube. If one of the following criteria above is not met, the pitot tube must be calibrated in a wind tunnel.

Recommended Dimensions

4) Diameter of pitot tubing ? (Dt) = .373 in. (0.1875 < Dt < 0.375)

5) Dimensions of Pa = 0.500 in. Pa/Dt = 1.36 (1.05 < Dt < 1.50)

6) Dimensions of Pb = 0.496 in. Pb/Dt = 1.38 (1.05 < Dt < 1.50)



AirNova, Inc.

Type S Pitot Tube
Dimensional Specification Verification Form

Pitot No. AN 5F Pm10
Calibrator KVA
Date 7/14/07

Verify the following criteria and check all that apply

1) Face opening plane perpendicular to the transverse axis ? ✓

2) Face-opening plane parallel to the logitudinal axis ? ✓

3) Are Legs A & B of equal length and are centerlines coincident ? ✓

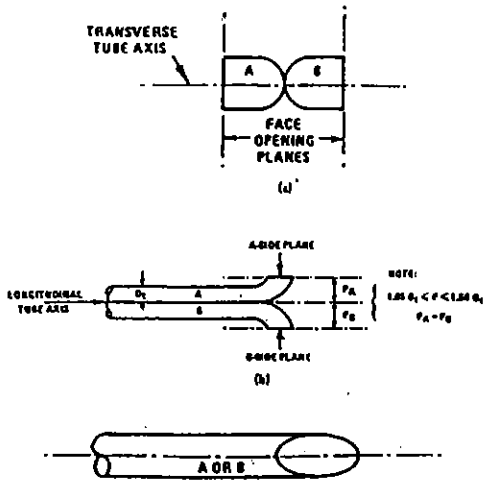
If all the above criteria are met, a pitot coeffecient of 0.84 may be assigned to the respective pitot tube. If one of the following criteria above is not met, the pitot tube must be calibrated in a wind tunnel.

Recommended Dimensions

4) Diameter of pitot tubing ? (Dt) = .375 in. (0.1875 < Dt < 0.375)

5) Dimensions of Pa = .496 in. Pa/Dt = 1.39 (1.05 < Dt < 1.50)

6) Dimensions of Pb = .492 in. Pb/Dt = 1.42 (1.05 < Dt < 1.50)



AirNova, Inc.
Probe Thermocouple
Calibration data

Date:	`07/14/07
Thermocouple I.D. :	AN-5I
Probe Length:	5 Foot
Calibrator	KA
Ambient Temp.(F):	88
Barometric Pressure (" Hg):	29.95
Reference Thermometer:	ASTM-2F

Reference Point	Source	Ref. Thermometer Temp.(F)	Thermocouple Temp.(F)	Temperature Diff. (%)
1	Ice Water	35	34	0.2%
2	Ambient	80	82	0.4%
4	Boiling Water	212	210	0.3%
5	Hot oil bath	500	501	0.1%
		Average Temp. Change:		**0.2%**

Temperature Difference must be < 1.5 %

Signature: Kenneth E. Ell

Date: 7/14/07

AirNova, Inc.
Probe Thermocouple
Calibration data

Date:	`03/09/07
Thermocouple I.D. :	ANT5A
Probe Length:	5 Foot
Calibrator	KA
Ambient Temp.(F):	60
Barometric Pressure (" Hg):	30.50
Reference Thermometer:	ASTM-2F

Reference Point	Source	Ref. Thermometer Temp.(F)	Thermocouple Temp.(F)	Temperature Diff. (%)
1	Ice Water	33	32	0.2%
2	Boiling Water	212	210	0.3%
3	Hot Oil Bath	463	465	0.2%
4	Ambient Temp.	80	80	0.0%
		Average Temp. Change:		**0.2%**

Temperature Difference must be < 1.5 %

Signature: Kenneth E. Gelb

Date: 3/9/07

AirNova, Inc.

Type S Pitot Tube
Dimensional Specification Verification Form

Pitot No. AUTSA
Calibrator KA
Date 3/9/67

Verify the following criteria and check all that apply

1) Face opening plane perpendicular to the transverse axis ? ✓

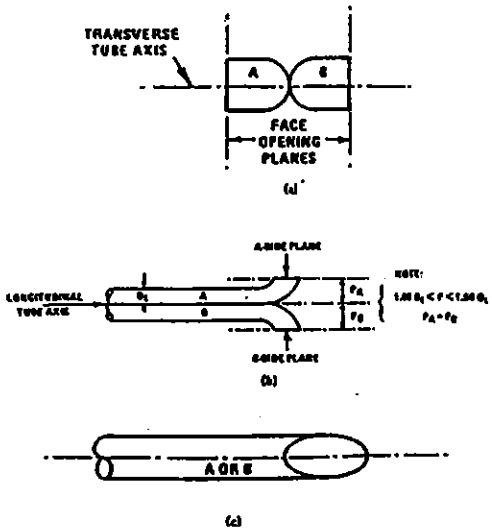
2) Face-opening plane parallel to the logitudinal axis ? ✓

3) Are Legs A & B of equal length and are centerlines coincident ? ✓

If all the above criteria are met, a pitot coeffecient of 0.84 may be assigned to the respective pitot tube. If one of the following criteria above is not met, the pitot tube must be calibrated in a wind tunnel.

Recommended Dimensions

4) Diameter of pitot tubing ? (Dt) = .370 in. (0.1875 < Dt < 0.375)

5) Dimensions of Pa = .501 in. Pa/Dt = 1.36 (1.05 < Dt < 1.50)

6) Dimensions of Pb = .500 in. Pb/Dt = 1.30 (1.05 < Dt < 1.50)