OWENS CORNING
MEDINA ASPHALT PLANT TEST REPORT

Owens Corning Science and Technology Center
Granville, Ohio

Prepared by:

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1.0 INTRODUCTION

1.1 PROJECT OVERVIEW

Owens Corning has contracted Conestoga-Rovers & Associates, Inc. (CRA) to conduct a compliance emission test program at the Owens Corning Medina, Ohio, roofing products plant. The objective of this test program is to demonstrate compliance with the facilities MACT requirements, 40 CFR Part 63, Subpart LLLLL.

Emission testing at the facility on all sites took place on August 15 - August 22, 2006.

1.2 TEST PROGRAM ORGANIZATION

The primary contacts for this project are as follows:

Owens Corning's contact is:
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1.3 SOURCE DESCRIPTION

The plant manufactures asphalt products. Multiple sites were tested. Sites include:

1. The PCC Incinerator which includes sources:
   A. P006
   B. P007
   C. J005
   D. T027

2. The John Zinc Incinerator which includes sources:
   A. P003
   B. P004
   C. P005
   D. T008
   E. T009
   F. T031
   G. T026

3. Asphalt Truck Loading Rack which includes source:
   A. J003

4. Holding Tanks which include sources:
   A. T008
   B. T009
   C. T023
   D. T024
   E. T025
   F. T026
   G. T027

H. T030
I. T031
J. T040
K. T041
L. T042
M. T045

* It should be noted that the list of tanks was revised/changed once on site due to the way the tanks vented...clusters of tanks often vented to a single vent.

1.4 TEST PLAN

Testing was conducted according to United States Environmental Protection Agency (USEPA) Reference Methods (RM) outlined in Title 40 of the Code of Federal Regulations, Part 60 (40 CFR 60), Appendix A. A summary of the test program is presented in Tables 1.1 to 1.4. Copies of the Ohio EPA Intent to Test forms (ITT) are included in Appendix E.

1.5 OBJECTIVE

The objective of this test program was to determine the emission rate of various pollutants from the multiple sites. Pollutants include particulate matter, filterable and total, (PM), carbon monoxide (CO), volatile organic compounds (VOC), hydrogen sulfide (H2S), sulfur dioxide (SO2), and visible emissions (VE). Copies of all applicable plant data will be included in Appendix F.

2.0 SAMPLING AND ANALYTICAL PROCEDURES

This section provides a brief overview of the specific test methods that were used to determine the emission rates. All test methods were performed in accordance with the Reference Methods (RMs) provided in 40 CFR 60 Appendix A. Details of each method are given in the following sections. Copies of all field spreadsheets and data sheets can be found in Appendix B.

2.1 TEST SITE DESCRIPTION AND SAMPLING PORT LOCATION

Representative measurement of pollutant emissions and total volumetric flow rate from a stationary source requires a measurement site where the effluent stream is flowing in a known direction and cyclonic flow conditions are not present.

According to RM 1, the cross section of the stack is divided into equal areas and a traverse point is then located within each of these areas. The number of duct diameters upstream and downstream from the test location to a flow disturbance determines the number of traverse points in a cross section.

Table 2.1 lists diameters and configurations of the stacks tested.

2.2 STACK GAS VELOCITY AND VOLUMETRIC FLOW RATE (RM 2)

According to RM 2, the gas velocity in a stack is determined from the average velocity head with a type-S pitot tube, gas density, stack temperature, and stack pressure.

The average velocity head is determined using an inclined manometer and a type-S pitot tube with a known coefficient of 0.84 that is determined geometrically by standards set forth in RM 2. Stack temperature is taken at each traverse point using a type-K thermocouple. Static pressure is determined using a straight tap and an inclined manometer. A copy of the CRA field operating procedure for RM 2 is included in Appendix A.

2.3 GAS ANALYSIS FOR CO_2, AND O_2 (RM 3)

A gas sample is collected according to the analytical method detailed in RM 3. A minimum of 3 grab samples per hour of testing will be obtained. Each sample will be analyzed using a Fyrite Gas Analyzer for CO_2 and O_2. The CRA-E_3 field operating procedure for RM 3 can be found in Appendix A.

2.4 MOISTURE DETERMINATION (RM 4)

The determination of effluent moisture is performed as part of each isokinetic sample train where appropriate; otherwise a separate RM 4 train will be run. The CRA field operating procedure for RM 4 is included in Appendix A.

2.5 PARTICULATE MATTER DETERMINATION (RM 5A/202)

Filterable and Total PM in the exhaust stream was collected isokinetically following the procedures outlined in RM 5A. This method incorporates gas velocity and volumetric flow measurement (RM 2) and moisture content measurement (RM 4). PM was analyzed gravimetrically utilizing the procedures in RM 5A for the filterable portion, and RM 202 for the total portion. The runs performed at the two sites lasted for the length of the asphalt blow. The CRA field operating procedure for RM 5A/202 is included in Appendix A.

2.6 SULFUR DIOXIDE (RM 6C)

SO2 concentrations were measured according to RM 6C. A UV analyzer was utilized. SO2 analysis was continuous with one-minute average concentrations recorded on a data acquisition system (DAS). The analyzer operating range was appropriate for the range expected. The CRA field procedure for RM 6C is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from nitrogen and a USEPA Protocol gas.

2.7 OXIDES OF NITROGEN EMISSIONS (RM7E)

NOx concentrations were measured according to RM 7E. A Horiba CLA-510SS chemiluminescent analyzer was utilized. NOx analysis was continuous with one-minute average concentrations recorded on a data acquisition system (DAS). The analyzer operating range was appropriate for the range expected.

Individual gas concentrations were produced with a Horiba SGD-710 gas divider.

The CRA field procedures for RM 7E is included in Appendix A.

2.8 OPACITY (RM 9)

VE observations were performed according to RM 9. Three, 60-minute observations were performed at each site requiring VEs. The CRA field procedure for RM 9 is included in Appendix A.

2.9 CARBON MONOXIDE (RM10)

CO concentrations were measured according to RM 10. A Horiba Model VIA 510 NDIR analyzer was used. CO analysis was continuous with one-minute average concentrations recorded on a DAS. The analyzer operating range was appropriate for the range expected. The CRA field procedure for RM 10 is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from nitrogen and a USEPA Protocol gas.

2.10 HYDROGEN SULFIDE (RM16)

H2S concentrations were measured according to RM 16. An in-field gas chromatograph (GC) with a flame photometric detector (FPD) was used to determine H2S concentrations utilizing direct injection. Copies of all field and laboratory data are included in Appendix D.

2.11 VOLATILE ORGANIC COMPOUNDS (RM 25A)

VOC concentrations were measured according to RM 25A. VOC concentrations were measured according to RM 25A. For VOC sampling, a JUM Model 109A Total Non-methane Hydrocarbon analyzer was used to measure VOCs as total non-methane hydrocarbons (TNHC). For THC sampling a JUM VE-7 THC Analyzer was used. VOC and THC analysis will be continuous with one-minute average concentrations recorded on a DAS. The analyzer's operating range will be appropriate for the range expected. The CRA field procedure for RM 25A is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from zero grade nitrogen and USEPA Protocol gas.

3.0 QUALITY ASSURANCE AND QUALITY CONTROL

The test program was designed and implemented with emphasis on completeness and data quality. Comprehensive QA/QC is built into CRA's program to ensure data collection is of known precision and accuracy and is complete, representative, and comparable. Data comparability is achieved by the use of standard units of measure as specified by the test methods.

3.1 EQUIPMENT AND SAMPLING PREPARATION

Sampling equipment is cleaned and functions are checked and calibrated prior to use in the field. Each parameter sampling method requires specific cleaning methods of the glassware, train components, and recovery containers. These materials are then sealed prior to shipment to the field.

The QA/QC procedures for sampling operations include performing leak checks before and after each sample run. These are performed on all train components including vacuum sample trains, pitot lines, and gas bag systems. If pre-test leak checks do not meet the criteria, the trains are adjusted to do so. Post-test leak checks are mandatory, performed, and recorded on field data sheets.

3.2 LEAK CHECKS

3.2.1 ISOKINETIC AND NON-ISOKINETIC TRAINS

Both pre- and post-run leak checks are conducted. A pre-test leak check is performed to verify integrity of the vacuum system. A leak check is mandatory at the conclusion of each isokinetic sampling run. The leak check is conducted in accordance with the procedures outlined in RM 5, Section 4.1.4.1, except that it is conducted at a vacuum equal to or greater than the maximum value reached during the sampling run. If the leakage rate is found to be no greater than 0.02 cubic feet per minute (cfm), the results are acceptable and no correction is applied to the total volume of dry gas metered.

3.2.2 PITOT LEAK CHECK

The pitot tubes used during the test program are leak checked prior to the test series and following each traverse set. The leak check is performed by placing flexible tubing over one side of the pitot tube tip. The tubing is pinched off when the pitot is pressurized to greater than 3 inches of water. No loss of pressure for 15 seconds indicates a successful leak check. This procedure is repeated for the other side of the pitot tube as well.

3.3 CALIBRATIONS

All affected equipment used for measuring in the stack was calibrated within 60 days of the scheduled testing. All calibration data was available on site. Copies of all calibration data is included in Appendix C.

3.3.1 METER BOX CALIBRATION

Following the procedures outlined in EPA Method 5, Section 5.3.1, a standard dry gas meter is substituted for a wet test meter per EPA Method 5, Section 7.1. Primarily, the meter calibration factors (Y and ΔH@) are determined at multipoint calibration runs at a variety of flow rates. Factors calculated at the individual runs must agree within 2% of each other. The factors are then averaged and that average is posted on the meter box.

After each field sampling project, a post-test calibration is made. This consists of three calibration runs at the average sampling rate seen for that project. The factors calculated from the three individual runs must agree to within 2% of each other and are averaged. That average must agree to within 5% of the factor posted on the meter box.

3.3.2 PITOT CALIBRATION

Pitot tubes are calibrated following the procedures outlined in EPA Method 2, Section 4. Pitot tubes were given a baseline coefficient when they meet certain geometrically measured angles and dimensions as set forth in the method.

3.3.3 THERMOCOUPLE CALIBRATION

Thermocouples are calibrated according to the *Approved Alternative Method (ALT-011), Alternative Method 2 Thermocouple Calibration Procedure.* This alternative method utilizes single-point calibration procedure at room temperature.

3.3.4 BAROMETER CALIBRATION

Prior to being sent in the field CRA's barometer is compared to the barometer from the National Weather Service (NWS) located at the Buffalo Niagara International Airport. If the CRA barometer disagrees by more than ±2.3 mm (0.1 in.) of Hg from the barometer located at the airport, the CRA barometer is adjusted until it agrees with the NWS barometer.

CRA and the NWS elevations are within ten feet of each other, thus eliminating the need for any elevation correction.

When in the field, barometer readings are taken from the CRA barometer. At the conclusion of fieldwork, the barometer is brought back, checked against the NWS barometer, and corrected if necessary. Readings taken in the field are corrected based on the degree of error between the CRA barometer and the NWS barometer.

3.4. CEMS SAMPLING PERFORMANCE SPECIFICATIONS

The CEMs sampling QA/QC activities consists of the following:

3.4.1 CALIBRATION ERROR (CE) TEST

The CE tests were accomplished following the procedures outlined in 3A and 6C, by first introducing the zero calibration gas and adjusting the instrument to read zero. Next, the high span gas was introduced, and the analyzer's response was adjusted to match this calibration gas certified concentration. Next, the low and mid (as applicable) calibration gases were introduced, and the analyzer's response must be within the appropriate error limits.

3.4.2 POST-TEST DRIFT CHECK

Following the procedures outlined in RM 6C, 10, and 25A, a post-test drift check was performed immediately following the sample run. The zero gas was introduced into the system, and the monitor's response was recorded. The span was drift checked in the same manner.

3.5 DATA REDUCTION

The QA/QC procedure for data reduction includes using computer spreadsheet programs to generate tables of results. Data input files and equations are double-checked by a second person, and tables are checked for transposition errors with spot calculations being performed by hand.

4.0 RESULTS

Summary tables of all results are included as Tables 4.1 to 4.4.

TABLE 1.1

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
PCC INCINERATOR

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Gas Flow Rate	RM 1&2	Outlet	3	n/a	
Gas Molecular Weight CO_2 & O_2	RM 3	Outlet	N/A	Grab	
PM	RM 5A/202	Outlet	3	Length of Blow	
SO2	RM 6C	Outlet	3	Length of Blow	
NOx	RM 7E	Outlet	3	Length of blow	
Opacity	RM 9	Outlet	3	60 minutes	
CO	RM 10	Outlet	3	Length of Blow	
H_2S	RM 16	Outlet	3	Length of Blow	
THC & VOC	RM 25A	Inlet/Outlet	3	Length of Blow	JUM 109A to be used at outlet, VE-7 at inlet, with bags collected at inlet to be analyzed on 109A for VOC

TABLE 1.2

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
JOHN ZINC INCINERATOR

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Gas Flow Rate	RM 1&2	Outlet	3	Length of Blow	
Gas Molecular Weight	RM 3	Outlet	N/A	Grab	
Particulate Matter	RM 5A/202	Outlet	3	Length of Blow	
THC & VOC	RM 25A	Inlet/Outlet	3	Length of Blow	Using JUM 109A at the outlet, JUM VE-7 at inlet, collecting bags at inlet for analysis with 109A for VOC

TABLE 1.3

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
LOADING RACK

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
THC	RM25A	Inlet/Outlet	3	60 minutes	

TABLE 1.4

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
STORAGE TANKS

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Opacity	RM 9	outlet	3	60 minutes	

TABLE 2.1

TEST SITE SUMMARY
OWENS CORNING
MEDINA ROOFING PLANT
MEDINA, OHIO

Stack ID	*Stack Shape*	*Stack Orientation*	*Stack Diameter (inches)*	*Inlet*	*Outlet*
PCC Incinerator	Circular	Vertical	23	x	
PCC Incinerator	Circular	Vertical	56″		X
John Zinc Incinerator	Circular	Vertical	22.5″	x	
John Zinc Incinerator	Circular	Vertical	37.5″		X
Truck Loading Rack				x	
Truck Loading Rack	Circular	Vertical	9″		x

*Site known not to meet EPA RM1 minimum requirements

Table 4.1
Summary of Results Versus Permit Limits
Owens Corning Medina Asphalt Plant

Site	*Parameter*	*Test Results (lbs/hr)*	*Permit Limit (lbs/hr)*	*VOC DE (%)*
PCC Incinerator	PM10	2.05	12.75	
	NOx	2.24	7.43	
	SO2	8.80	58.7	
	CO	7.53	36.69	
	H2S	0.122	0.43	
	Total Hydrocarbons	0.046	23.39	99.94
	Total VOC's	0.033		99.96
John Zinc Incinerator	PM10	3.72	24.64	
	Total Hydrocarbons	0.027	2.23	99.96
	Total VOC's	0.015		99.98
Truck Loading Rack	Total Hydrocarbons			96.30

Table 4.2
Summary of Results
PCC Incinerator
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Stack Temp (Deg F)*	*Moisture (%)*	*Actual Flowrate (ACFM)*	*Dry Standard Flowrate (DSCFM)*	*PM10 Emissions (lbs/hr)*	*NOx Emissions (lbs/hr)*
8/15/2006	1	9:10	14:30	521	12.4	19,160	9,060	3.11	2.39
8/16/2006	2	9:10	14:10	558	12.7	18,410	8,360	2.00	2.08
8/17/2006	3	8:28	16:56	518	12.1	18,840	8,940	1.04	2.24
	Avg			**532**	**12.4**	**18,803**	**8,787**	**2.05**	**2.24**

	CO Results (lbs/hr)	*SO2 Results (lbs/hr)*	*H2S Results*		*Total Hydrocarbons Results (lbs/hr)*			*Opacity Results (%)*
			(ppmvd)	*(lbs/hr)*	*Inlet*	*Outlet*	*DE (%)*	
1	11.09	11.05	6.800	0.327	87.3	0.035	99.96	0
2	9.88	10.64	0.595	0.026	82.5	0.072	99.91	0
3	1.62	4.71	< 0.25	< 0.012	71.8	0.032	99.96	0
Avg.	**7.53**	**8.80**	**2.55**	**0.122**	**80.533**	**0.046**	**99.94**	**0**

Table 4.3
Summary of Results
John Zinc Incinerator
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Stack Temp (Deg F)*	*Moisture (%)*	*Actual Flowrate (ACFM)*	*Dry Standard Flowrate (DSCFM)*	*PM10 Results (lbs/hr)*
8/18/2006	1	8:36	16:16	1000	13.1	18,910	5,940	3.38
8/19/2006	2	7:54	15:01	1097	14.3	19,040	5,530	4.82
8/21/2006	3	7:47	15:06	1020	12.5	19,010	5,950	2.96
	Avg			**1039**	**13.3**	**18,987**	**5,807**	**3.72**

	Total Hydrocarbons Results (lbs/hr)			*Opacity Results (%)*
	Inlet	*Outlet*	*DE (%)*	
1	74.4	0.033	99.96	< 1
2	69.6	0.018	99.97	< 0
3	75.9	0.031	99.96	< 1
Avg.	**73.3**	**0.027**	**99.963**	**< 1**

Table 4.4
Summary of Results
Truck Loading Rack
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Total Hydrocarbons Results (lbs/hr)*		
				Inlet	*Outlet*	*DE (%)*
8/22/2006	1	8:35	9:55	1.62	0.041	97.5
8/22/2006	2	10:43	12:43	1.59	0.066	95.8
8/22/2006	3	15:04	16:36	2.72	0.120	95.6
	Avg			**1.98**	**0.076**	**96.30**

Table 4.5
Summary of Results
Tank Visible Emissions
Owens Corning Medina Asphalt Plant

Source	*Highest 6-Minute Opacity Average (%)*
Tanks 008, 009, 026	< 1
Tanks 023, 024, 025	0
Tanks 030, 031	< 1
Tanks 026, 027	0
Tanks 040, 041, 042	0
Tank 045	0

APPENDIX A

CRA FIELD OPERATING PROCEDURES

FIELD PROCEDURE - REFERENCE METHOD 1 (001)
Test Procedures

A. **Applicability**

The purpose of the method is to provide guidance for the selection of sampling ports and traverse points at which sampling for air pollutants will be performed.

B. **Procedures**

1. Sample/velocity measurements are performed at least 8 stack diameters downstream and two diameters upstream from any flow disturbance. (*Alternative methods are available if this criteria cannot be met).
2. Traverse Points (*May not be applicable, Refer to protocol).
   a. 12 points for circular ducts greater than 24 in.
   b. 8 points for circular ducts between 12 and 24 in.
   c. 9 for rectangular diameters between 12 and 24 in.
3. Refer to appropriate tables and figures in the Reference Method to determine exact location of points.
4. Cyclonic Flow Determination
   a. Level and zero the manometer.
   b. Connect S-type pitot to the manometer and leak-check the system.
   c. Note the differential pressure (delta p) at each traverse point when the pitot is at zero degrees reference angle.
   d. Record the rotational angle of the pitot used to obtain zero degrees reference.
   e. If the overall angle is greater than 20 degrees the conditions are unacceptable and an alternative method must be used.

References

1. Title 40 of Code of Federal Regulations, Part 60 Appendix A

FIELD PROCEDURE - REFERENCE METHOD 2 (002)
Test Procedures

5. Static Pressure Check

   a. Rotate pitot tube until both pitot tube openings are perpendicular to the direction of flow.

   b. Detach negative side of pitot tube from manometer, then record the reading on the manometer.

   c. Record the atmospheric pressure from a barometer.

6. References

   a. Title 40 of Code of Federal Regulations, Part 60 Appendix A.

FIELD PROCEDURE - REFERENCE METHOD 4 (004)
Moisture Determination

A. Applicability

This method is applicable for determination of moisture content of a stack gas.

B. Pretest Preparation

1. Place 700-800 grams of Silica Gel in an impinger and weigh to the nearest 0.5 grams.
2. Check filters visually against light for irregularities and flaws or pinhole leaks.
3. Wash all glassware with soap and hot tap water and then rinse with DI water and acetone.
4. Either gravimetrically or volumetrically determine the weight/volume of the impinger assembly to the nearest 0.5 g/mL

C. Preliminary Determinations

1. Select the sampling site and the number of sampling points according to USEPA Reference Method 1.
2. Set up pitot tube/manometer apparatus.
3. Leak-check the pitot tube setup.
   a. Blow into the pitot impact opening until at least 3 in. H_2O velocity pressure registers on the manometer, and close off the impact opening.
   b. Observe the time (pressure must remain stable for at least 15 seconds).
   c. Do the same for the static pressure side, except use suction to obtain -3in. H_2O.
4. Level and zero the manometer.
5. Determine the stack pressure, temperature, and the range of velocity heads by previous test data or follow Steps B.6 - B.7.
6. Measure the velocity head and temperature.
7. Measure the static pressure in the stack.
8. Determine the atmospheric pressure.
9. Determine the moisture content by previous test data or measurement.

   Determine or estimate the dry molecular weight.

11. Select a nozzle size based on preliminary stack data. Do NOT change nozzle size during the sampling run.
12. Select a suitable probe liner and probe length such that all traverse points can be sampled.
13. Select the total sampling time and standard sample volume specified in the test procedures for the specific industry. Select equal sampling times of ≥ 2 min per point.

4. Close the coarse adjust valve. If necessary to overcome high negative stack pressure, turn on the pump. Position the nozzle at the first traverse point. Immediately start the pump, and adjust the flow to isokinetic conditions.

5. When the probe is in position, block off the openings around the probe and porthole.

6. Traverse the stack cross-section. *Do not bump the probe nozzle into the stack walls.*

   a. Keep the temperature around the filter holder (probe outlet or filter outlet, if applicable) at the proper level.

   b. Add more ice and, if necessary, salt to maintain a temperature of <68°F at the condenser / silica gel outlet.

   c. Periodically check the level and zero of the manometer.

   d. Record DGM readings at the beginning and end of each sampling time increment, before and after each leak-check, and when sampling is halted.

   e. Take other readings shown in field data sheet at least once at each sample point during each time increment and additional readings when significant changes (20% variation in Δp readings) necessitate additional adjustments in flow rate.

7. At the end of the sample run, turn off the coarse adjust valve, remove the probe and nozzle from the stack, turn off the pump, record the final DGM meter reading.

8. Leak-check the sampling train (see Step D.7).

9. Leak-check the pitot lines (see Step C.3).

10. Allow the probe to cool. Then, wipe off all external PM near the tip of the probe nozzle, and place a cap over it.

    Before moving the sampling train to the recovery site, remove the probe from the sampling train and cap the open outlet of the probe. Do not lose any condensate that might be present. Cap the filter inlet.

12. Remove the umbilical cord from the last impinger, and cap the impinger. Cap off the filter holder outlet and impinger inlet.

13. Transfer the probe and filter-impinger assembly to the recovery area that is clean and protected from the wind.

F. Sample Recovery

1. (Silica Gel)

   a. Determine whether silica gel has been completely spent, and note on field data sheet its condition.

   Weigh the silica gel impinger with the other impingers to the nearest 0.5 g.

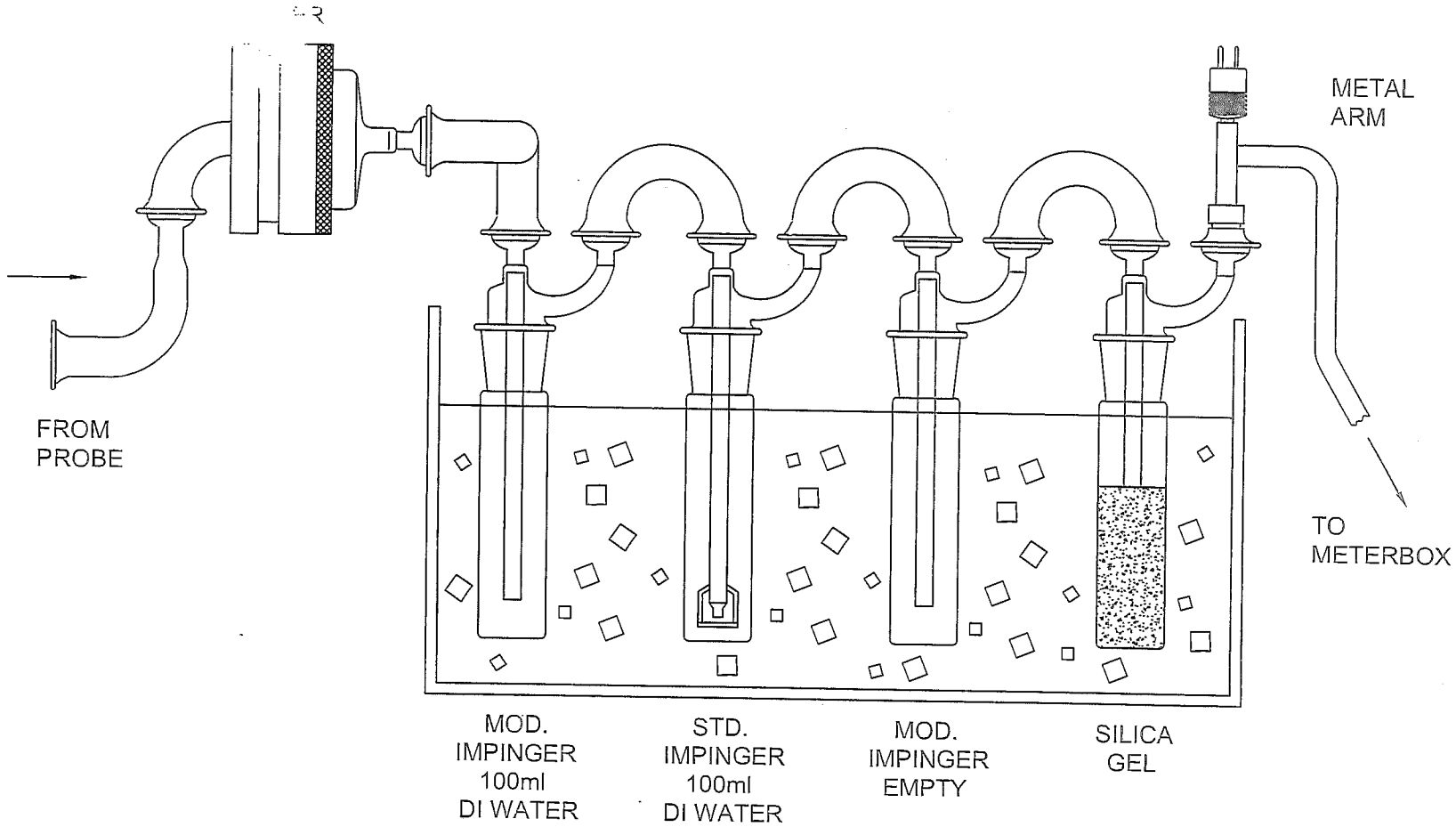

figure 1

METHOD 4
MOISTURE
SAMPLING TRAIN

400001(METH4)GN-BE001 NOV 29/2005

2. Introduce either the mid-range or high-range gas, whichever is closet to the effluent concentrations, and record the analyzer response and the time it took to reach a stable response.

3. Introduce zero gas, and record the analyzer response and the time it took to reach a stable response.

D. **Emission Test Procedure**

1. Set up the sampling system as shown in Figure 1. Position the probe at the measurement point.

2. Sample at each measurement point using the same sampling rate as that used during the sampling system bias check. Maintain constant sampling rate (±10%) during the entire run.

3. When determining average concentration, sample a minimum of twice the stable response time for the instrument.

4. Determine the average gas concentration by averaging measurements recorded at equally spaced intervals over the entire run:

   a. Runs less than or equal to 1 hour must should have recorded measurements at 1-minute intervals.

   b. Runs greater than 1 hour must have measurements at 2-minute intervals or a minimum of 96 measurements.

E. **Post-Test Runs**

1. Following each run, or before adjustments are made to the measurement system during the run, determine the sampling system bias. Do not make any adjustments to the measurement system until after the drift checks are completed. Record the system responses.

2. If the sampling system does not pass the bias check at either the zero or upscale calibration values, void the run and repeat the calibration error and bias tests before the next run.

3. If the sampling system passes the bias check, calculate the zero and upscale drift to determine whether the calibration error and system bias tests must be conducted before the next run.

FIELD PROCEDURE - REFERENCE METHOD 25A (025A)
Total Hydrocarbons

A. Preparations

1. Use "Protocol 1" calibration gases (propane or methane in air or N_2), certified by the manufacturer to be within ±2% of the specified concentration, as follows:

   a. High-Range. 80-90% of span.

   b. Mid-Range. 45-55% of span.

   c. Low-Range. 25-35% of span.

   d. Zero. Prepurified grade of air or N_2.

2. Setup and calibrate the gas analyzer and data recorder. Adjust system components as necessary.

3. For "Continuous Sampling", set up the sampling system as shown in Figure 1.

B. System Performance Test Procedures

1. Analyzer Calibration Error

   *Conduct this test **initially (within 2 hours of sampling)** and **each** time the system exceeds the system bias and drift specifications. Record the analyzer responses to each calibration gas.*

   a. Introduce the zero, and high-range gases to the measurement system, at the sample probe. Adjust the system to match the calibration values.

   b. Predict the system response for the low- and mid-range calibration gases.

   c. Introduce the low- and mid-range gases to the measurement system. Confirm that the responses meet the calibration error criteria.

2. Sampling Response Time Check

   *Conduct this test **initially***

   a. Introduce the zero gas into the measurement system. When the system response is stable quickly switch to the high-level calibration gas. Record the time required for the system to respond to 95% of the step change.

   b. Repeat step 1 three times and average the results.

FIELD PROCEDURE - REFERENCE METHOD 25A (025A)
Total Hydrocarbons

Figure 1: Method 25A Sample Train

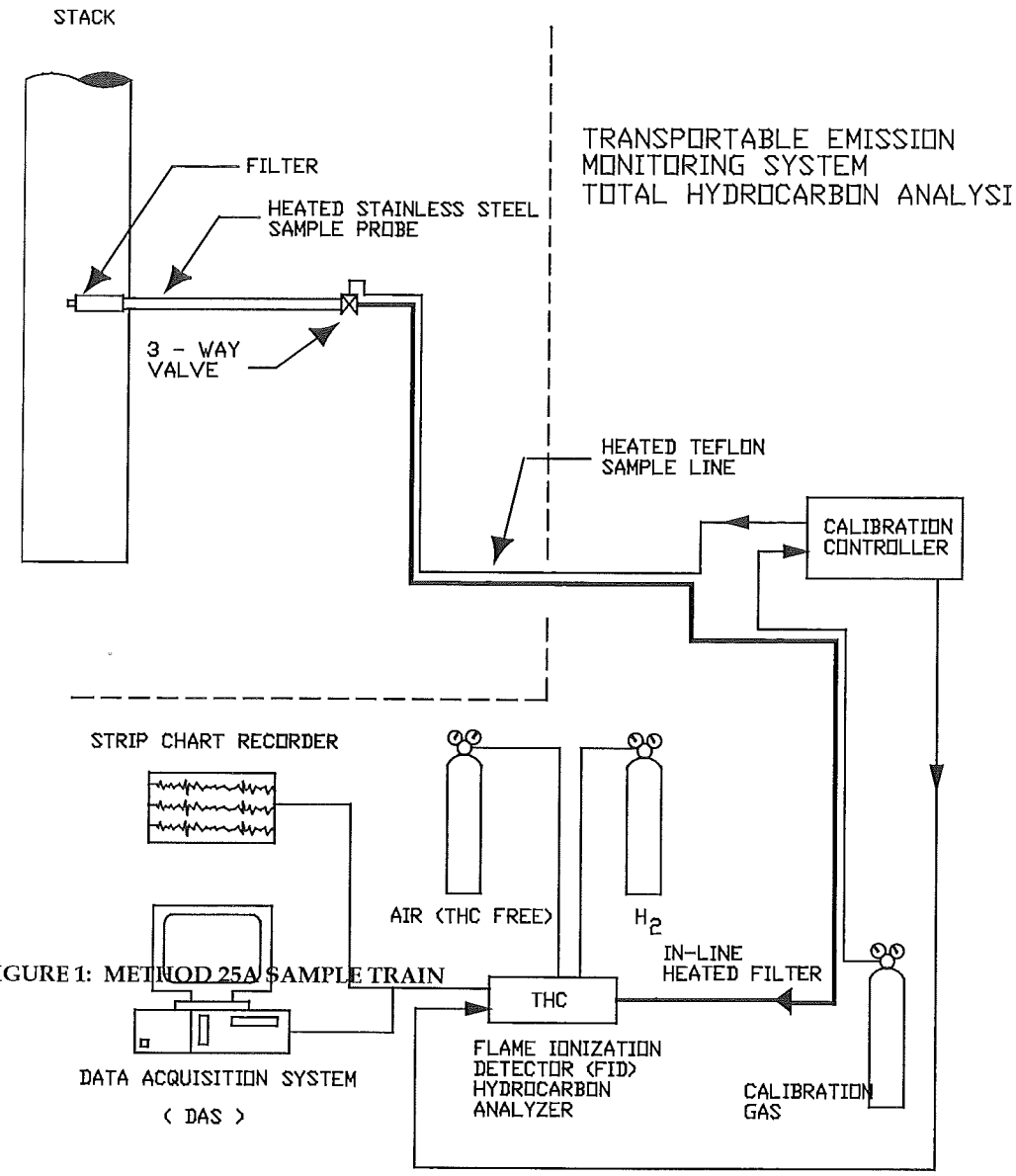

FIGURE 1: METHOD 25A SAMPLE TRAIN

filtration temperature, is determined gravimetrically after the removal of uncombined water.

3.0 Definitions. [Reserved]

4.0 Interferences. [Reserved]

5.0 Safety.

5.1 Disclaimer. This method may involve hazardous materials, operations, and equipment. This test method may not address all of the safety problems associated with its use. It is the responsibility of the user of this test method to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to performing this test method.

6.0 Equipment and Supplies.

6.1 Sample Collection. Same as Method 5, Section 6.1, with the following exceptions and additions:

6.1.1 Probe Liner. Same as Method 5, Section 6.1.1.2, with the note that at high stack gas temperatures greater than 250 °C (480 °F), water-cooled probes may be required to control the probe exit temperature to 42 ± 10 °C (108 ± 18 °F).

6.1.2 Precollector Cyclone. Borosilicate glass following the construction details shown in Air Pollution Technical Document (APTD)-0581, "Construction Details of

6.2.5 Funnel. Glass.

6.3 Sample Analysis. Same as Method 5, Section 6.3, with the following additions:

6.3.1 Beakers. Glass, 250-ml and 500-ml.

6.3.2 Separatory Funnel. 100-ml or greater.

7.0. Reagents and Standards.

7.1 Sample Collection. The following reagents are required for sample collection:

7.1.1 Filters, Silica Gel, Water, and Crushed Ice. Same as in Method 5, Sections 7.1.1, 7.1.2, 7.1.3, and 7.1.4, respectively.

7.1.2 Stopcock Grease. TCE-insoluble, heat-stable grease (if needed). This is not necessary if screw-on connectors with Teflon sleeves, or similar, are used.

7.2 Sample Recovery. Reagent grade TCE, ≤0.001 percent residue and stored in glass bottles. Run TCE blanks before field use, and use only TCE with low blank values (≤0.001 percent). In no case shall a blank value of greater than 0.001 percent of the weight of TCE used be subtracted from the sample weight.

7.3 Analysis. Two reagents are required for the analysis:

7.3.1 TCE. Same as in Section 7.2.

7.3.2 Desiccant. Same as in Method 5, Section 7.3.2.

8.3 Preparation of Sampling Train. Prepare the sampling train as specified in Method 5, Section 8.3, with the addition of the precollector cyclone, if used, between the probe and filter holder. The temperature of the precollector cyclone, if used, should be maintained in the same range as that of the filter, *i.e.*, 42 ± 10 °C (108 ± 18 °F). Use no stopcock grease on ground glass joints unless grease is insoluble in TCE.

8.4 Leak-Check Procedures. Same as Method 5, Section 8.4.

8.5 Sampling Train Operation. Operate the sampling train as described in Method 5, Section 8.5, except maintain the temperature of the gas exiting the filter holder at 42 ± 10 °C (108 ± 18 °F).

8.6 Calculation of Percent Isokinetic. Same as Method 5, Section 8.6.

8.7 Sample Recovery. Same as Method 5, Section 8.7.1 through 8.7.6.1, with the addition of the following:

8.7.1 Container No. 2 (Probe to Filter Holder).

8.7.1.1 Taking care to see that material on the outside of the probe or other exterior surfaces does not get into the sample, quantitatively recover PM or any condensate from the probe nozzle, probe fitting, probe liner, precollector cyclone and collector flask (if used), and

collecting the sample. Use the procedure outlined in Method 5, Section 9.2.

10.0 Calibration and Standardization.

Same as Method 5, Section 10.0.

11.0 Analytical Procedures.

11.1 Analysis. Record the data required on a sheet such as the one shown in Figure 5A-1. Handle each sample container as follows:

11.1.1 Container No. 1 (Filter). Transfer the filter from the sample container to a tared glass weighing dish, and desiccate for 24 hours in a desiccator containing anhydrous calcium sulfate. Rinse Container No. 1 with a measured amount of TCE, and analyze this rinse with the contents of Container No. 2. Weigh the filter to a constant weight. For the purpose of this analysis, the term "constant weight" means a difference of no more than 10 percent of the net filter weight or 2 mg (whichever is greater) between two consecutive weighings made 24 hours apart. Report the "final weight" to the nearest 0.1 mg as the average of these two values.

11.1.2 Container No. 2 (Probe to Filter Holder).

11.1.2.1 Before adding the rinse from Container No. 1 to Container No. 2, note the level of liquid in Container No. 2, and confirm on the analysis sheet whether leakage

apparent constant volume or until the odor of TCE is not detected. When it appears that the TCE has evaporated, desiccate the sample, and weigh it at 24-hour intervals to obtain a "constant weight" (as defined for Container No. 1 above). The "total weight" for Container No 2 is the sum of the evaporated PM weight of the TCE-oil and water phase fractions. Report the results to the nearest 0.1 mg.

11.1.3 Container No. 3 (Silica Gel). This step may be conducted in the field. Weigh the spent silica gel (or silica gel plus impinger) to the nearest 0.5 g using a balance.

11.1.4 "TCE Blank" Container. Measure TCE in this container either volumetrically or gravimetrically. Transfer the TCE to a tared 250-ml beaker, and evaporate to dryness at ambient temperature and pressure. Desiccate for 24 hours, and weigh to a constant weight. Report the results to the nearest 0.1 mg.

NOTE: In order to facilitate the evaporation of TCE liquid samples, these samples may be dried in a controlled temperature oven at temperatures up to 38 °C (100 °F) until the liquid is evaporated.

12.0 Data Analysis and Calculations.

Carry out calculations, retaining at least one extra significant figure beyond that of the acquired data. Round

$$B_{ws} = \frac{V_{w(std)}}{V_{m(std)} + V_{w(std)}} \qquad \text{Eq. 5A-2}$$

NOTE: In saturated or water droplet-laden gas streams, two calculations of the moisture content of the stack gas shall be made, one from the impinger and precollector analysis (Equations 5A-1 and 5A-2) and a second from the assumption of saturated conditions. The lower of the two values of moisture content shall be considered correct. The procedure for determining the moisture content based upon assumption of saturated conditions is given in Section 4.0 of Method 4. For the purpose of this method, the average stack gas temperature from Figure 5-3 of Method 5 may be used to make this determination, provided that the accuracy of the in-stack temperature sensor is within 1 °C (2 °F).

12.5 TCE Blank Concentration.

$$C_t = \frac{m_t}{V_t \, \rho_t} \qquad \text{Eq. 5A-3}$$

NOTE: In no case shall a blank value of greater than 0.001 percent of the weight of TCE used be subtracted from the sample weight.

FIGURE 5A-1 - ANALYTICAL DATA

Plant _____
Date _____
Run No. _____
Filter No. _____
Amount liquid lost during transport _____
TCE blank volume, ml _____
TCE blank concentration, mg/g _____
TCE wash blank, mg _____

Container number	Weight of particulate collected, mg		
	Final weight	Tare weight	Weight gain
1.			
2.			
Total			
Less TCE blank			
Weight of particulate matter			

	Volume of liquid water collected	
	Impinger volume, ml	Silica gel weight, g
Final.....		
Initial.....		
Liquid collected		
Total volume collected....		g* ml

*Convert weight of water to volume by dividing total weight increase by density of water (1 g/ml).

$$\frac{\text{Increase, g}}{(1\text{g/ml})} = \text{Volume water, ml}$$

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

FIELD PROCEDURE - REFERENCE METHOD 201A/202
PM_{10} Emission Determination

A. Pretest Preparation

1. Weigh several 200- to 300-g portions of silica gel in airtight containers to ± 0.5g. Record the total weight of the silica gel plus container on each container.

2. Check filters visually against light for irregularities and flaws or pinhole leaks. Label the filters on the back side near the edge using numbering machine ink.

3. Desiccate the filters at 20 ± 5.6 °C and ambient pressure for ≥ 24 hr, and weigh at intervals of ≥ 6 hr to a constant weight, i.e., ≤ 0.5 mg change from previous weighing; record results to ±0.1 mg. During each weighing, do not expose the filter to the laboratory atmosphere for > 2 min and a relative humidity > 50%.

B. Preliminary Determinations

1. Select the sampling site and the number of sampling points according to USEPA Reference Method 1. The maximum number of sampling points for method 201A is 12.

2. Set up pitot tube/manometer apparatus.

3. Leak-check the pitot tube setup.

   a. Blow into the pitot impact opening until at least 3 in. H_2O velocity pressure registers on the manometer, and close off impact opening.
   b. Observe the time (pressure must remain stable for at least 15 seconds).
   c. Do the same for the static pressure side, except use suction to obtain -3in. H_2O.

4. Level and zero the manometer.

5. Determine the stack pressure, temperature, and the range of velocity heads by previous test data or follow Steps B.6 - B.8.

6. Measure the velocity head and temperature at each sample point.

7. Measure the static pressure in the stack.

8. Determine the atmospheric pressure.

9. Determine the moisture content by previous test data or measurement.

10. Determine or estimate the dry molecular weight.

11. Select a nozzle size based on preliminary stack data. Pick a nozzle that can be used for all sampling points if possible.

12. Use a probe assembly that can be altered to adjust the pitot tube to the cyclone head.

13. Select a suitable probe liner and probe length such that all traverse points can be sampled.

14. Select the total sampling time and standard sample volume specified in the test procedures for the specific industry.

e. Take other readings shown in field data sheet at least once at each sample point during each time increment and additional readings when significant changes (20% variation in Δp readings) necessitate additional adjustments in flow rate.

f. If train components are replaced, conduct leak-check according to Step C.7.

7. At the end of the sample run, turn off the coarse adjust valve, remove the probe and nozzle from the stack, turn off the pump, record the final DGM meter reading.
8. Remove the cyclone from the probe.

9. Leak-check the sampling train from the probe. (see Step C.7).

10. Leak-check the pitot lines (see Step B.3).

11. Allow the probe to cool. Then, wipe off all external PM near the tip of the probe nozzle, and place a cap over it.

12. Before moving the sampling train to the cleanup site, remove the probe from the sampling train, and cap the open outlet of the probe. Do not lose any condensate that might be present.

13. Remove the umbilical cord from the last impinger, and cap the impinger.
14. Transfer the probe, cyclone, and filter-impinger assembly to the cleanup area that is clean and protected from the wind.

E. Sample Recovery

1. Inspect the train prior to and during disassembly, and note any abnormal conditions.

2. **Container No. 1** (Filter)

   a. Using a pair of tweezers and/or clean disposable surgical gloves, carefully remove the filter from the filter holder, and place it in its identified petri dish container. If necessary, fold the filter such that the PM cake is inside the fold.
   b. Using a dry Nylon bristle brush and/or a sharp-edged blade, carefully transfer any PM and/or filter fibers that adhere to the filter holder gasket into the petri dish. Seal the container.

4. **Container No. 2** (Front ½ Acetone Rinse)

Recover particulate matter from the cyclone turn around cap, and the exit tube, and recover all rinses in a polypropylene or glass container as follows;

   a. Rinse with acetone, brush with a non-metallic Nylon bristle brush, and rinse with acetone until there are no visible particles. Make a final acetone rinse.
   b. After completing the rinse, tighten the lid on the sample container. Mark the height of the fluid level. Label the container.

5. **Container No. 3** (Back Half Impinger Contents, DI water, and Methlyene Chloride Rinse)

   Volumetrically recover the impinger contents for moisture determination. Then rinse all glassware from the probe liner back including all connecting glassware with Distilled Water then Methylene Chloride three times. Place rinses and the impinger contents into a clean glass sample container, tighten on lid, and mark level of sample, and clearly label.

APPENDIX B

FIELD DATA AND CALCULATION SHEETS

OWENS CORNING
MEDINA ASPHALT PLANT TEST REPORT

Owens Corning Science and Technology Center
Granville, Ohio

Prepared by:

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OCTOBER 20, 2006
REF. NO. 045396 (3)
This report is printed on recycled paper.

INCINERATOR

ISOKINETIC DATA SUMMARY

Client: Owens Corning **Plant: Medina** **Method: 5A**
Project #: 045396 **Source: PCC Still** **Location: Outlet**

RUN INFORMATION				
Run Number		1	2	3
Test Date		8/15/2006	8/16/2006	8/17/2006
Start Time		9:10:00	9:10:00	8:28:00
End Time		14:30:00	12:58:00	12:32:00
RESULTS				**AVERAGE**
PM Conc.	gr/DSCF	1.87E-02	7.65E-03	2.64E-03	**9.67E-03**
PM Emission Rate	lbs./hour	1.45E+00	5.48E-01	2.02E-01	**7.34E-01**
FIELD MEASURMENTS				
Ambient Temperature, °F		75	75	70	**73.3**
P_{bar}, in. Hg		29.95	29.99	29.90	**29.95**
P_{static}, in. H_2O		0.26	0.20	0.20	**0.22**
Stack Absolute Pressure, in. Hg		29.97	30.00	29.91	**29.96**
CO_2 , %		3.90	3.70	3.50	**3.70**
O_2 , %		10.30	10.80	13.10	**11.40**
N_2 , %		85.80	85.50	83.40	**84.90**
SAMPLING DATA				
Average Stack Temperature, °F		521	558	518	**532**
Average Meter Temperature, °F		82	79	87	**83**
Average Filter Temperature, °F		92	102	116	**103**
Average Probe Temperature, °F		106	99	99	**101**
Average Exit Temperature, °F		58	62	61	**60**
Average ΔP, in. H_2O		0.06	0.05	0.06	**0.06**
ΔH Avg., in H_2O		0.53	0.53	0.61	**0.56**
Meter Volume Sum, cf		130.894	126.810	224.335	**160.680**
Maximum Vacuum, in. Hg		11.0	2.0	10.0	**11.0**
STACK CALCULATIONS				
Isokinetic, %		95.80	103.22	102.44	**100.49**
Stack Velocity, ft/sec.		18.67	17.94	18.36	**18.33**
Volume Flow Rate/Actual, ACFM		19164.2	18412.6	18842.3	**18806.4**
Volume Flow Rate/Dry Std, DSCFM		9056.3	8363.5	8935.3	**8785.1**
Dry Molecular Weight, lb/lb-mole		29.04	29.02	29.08	**29.05**
Sample Volume - Dry Std, DSCF		129.422	126.258	219.544	**158.408**
Stack Moisture Content, %		12.36	12.68	12.10	**12.38**
EQUIPMENT INFORMATION				
Nozzle I.D.		gz 04	gz 04	gz 04	**gz 04**
Nozzle Diameter, in.		0.3910	0.3910	0.3910	**0.3910**
Pitot I.D.		6P-10	6P-8	6P-10	**varies**
Thermocouple I.D.		6T-10	6T-8	6T-10	**varies**
Barometer I.D.		BEO4923	BEO4923	BEO4923	**BEO4923**
Meter Box I.D.		BEO4908	BEO4908	BEO4908	**BEO4908**
Leak Check Pitot		OK	OK	OK	**OK**
Meter Box Post Leak Check		OK	OK	OK	**OK**
ANALYTICAL INFORMATION INPUT				
F Factor, DSCF/10^6 BTU				
Filter I.D.		Q-790B	Q781B	Q794B
Filter Gross Weight, g		0.4885	0.3782	0.3259
Filter Tare Weight, g		0.3490	0.3601	0.3153
TCE Beaker ID		D818	D831	D829
Acetone Beaker Gross Weight, g		105.0880	104.6972	105.9372
Acetone Beaker Tare Weight, g		105.0704	104.6527	105.9103
Acetone Blank Correction, g				
Filter Weight Gain, g		**0.1395**	**0.0181**	**0.0106**
TCE Beaker Weight Gain, g		**0.0176**	**0.0445**	**0.0269**
Total Weight Gain, g		**0.1571**	**0.0626**	**0.0375**

Operators: **Checked by:** **Review Date:**

ISOKINETIC SAMPLING DATA SHEET

Client:	Owens Corning	Source:	PCC Still	Date:	8/15/2006
Plant:	Medina	Location:	Outlet	Run #:	1
Project #:	045396	Operator:	SC	Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q-790B	Meter Con. #:	BEO4908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BEO4923	Meter Y:	1.0133	$T_{AMBIENT}$:	75	(°F)	Area:	17.10	(ft^2)
T-Couple:	6T-10	ΔH @:	1.7126	$P_{Bar.}$:	29.95	(in. Hg.)	Diameter:	56.00	(in.)
Probe ID:	6P-10	Nozzle ID:	gz 04	P_{Static}:	0.26	(in. H_2O.)			
Probe Con.#:	4186J	Nozzle Con. #:	BE04963						
C_P:	0.84	Dn (in.) :	0.3910	RUN ESTIMATES			TEST INFORMATION		
LEAK CHECK - ANALYSIS				Bws: 0.200	$\%CO_2$: 5.00	$\%O_2$: 13.00	Number of Ports:	2	
Meter Initial:	0.002	cfm @ 15.0	(in. Hg.)	$\%N_2$/CO: 82.00	Md: 29.32	Ms: 27.06	Points / Port:	12	
Meter Final:	0.003	cfm @ 14.0	(in. Hg.)	ACTUAL VALUES			Reads / Point	2	
Pitot (-):	ok	@ 6.5	(in. H_2O)	Bws: 0.124	$\%CO_2$: 3.90	$\%O_2$: 10.30	Time/Reading:	6.0	(min.)
Pitot (+):	ok	@ 6.5	(in. H_2O)	$\%N_2$/CO: 85.80	M_D: 29.04	M_S: 27.67	Total Time (Θ):	306	(min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	DGM Outlet	Temperatures (°F) Stack	Filter	Probe	Aux.	Exit	Vac. (in. Hg.)
1		9:10:00	0.09	0.97	517.867	78	78	366	97	100	91	68	2.0
1	0:06:00	9:16:00	0.09	0.89	521.100	73	75	434	100	94	102	50	2.0
2	0:12:00	9:22:00	0.10	0.97	524.200	76	74	456	109	92	115	52	2.0
2	0:18:00	9:28:00	0.09	0.85	527.400	77	74	478	87	110	122	55	2.0
3	0:24:00	9:34:00	0.06	0.56	530.650	78	74	491	87	108	124	57	2.0
3	0:30:00	9:40:00	0.06	0.55	533.350	78	74	499	86	104	120	59	2.0
4	0:36:00	9:46:00	0.05	0.46	535.800	78	75	502	88	109	117	52	2.0
4	0:42:00	9:52:00	0.05	0.46	538.550	79	75	496	90	99	111	51	2.0
5	0:48:00	9:58:00	0.05	0.47	540.940	79	75	494	90	93	105	52	2.0
5	0:54:00	10:04:00	0.05	0.47	543.300	79	75	494	90	95	105	53	2.0
6	1:00:00	10:10:00	0.05	0.47	545.750	79	75	490	90	94	107	54	2.0
6	1:06:00	10:16:00	0.05	0.47	548.150	79	75	490	90	94	107	53	2.0
7	1:12:00	10:22:00	0.03	0.28	551.000	80	76	495	90	94	108	55	2.0
7	1:18:00	10:28:00	0.03	0.28	552.300	80	76	495	90	94	109	55	10.0
8	1:24:00	10:34:00	0.05	0.47	554.900	80	77	492	93	98	99	57	8.0
8	1:30:00	10:40:00	0.05	0.47	557.230	81	77	490	94	96	98	58	10.0
9	1:36:00	10:46:00	0.05	0.48	559.830	82	78	467	95	101	102	58	6.0
9	1:42:00	10:52:00	0.05	0.44	562.400	82	78	545	96	96	100	61	7.0
10	1:48:00	10:58:00	0.05	0.43	564.800	83	78	568	96	95	98	63	7.0
10	1:54:00	11:04:00	0.06	0.53	567.250	83	79	560	96	101	99	59	7.0
11	2:00:00	11:10:00	0.06	0.52	569.865	84	79	570	98	106	104	58	7.0
11	2:06:00	11:18:00	0.06	0.52	572.440	85	79	578	99	105	107	59	7.0
12	2:12:00	11:22:00	0.06	0.52	575.000	84	80	582	99	103	107	60	7.0
12	2:18:00	11:28:00	0.06	0.52	577.680	85	81	584	99	104	108	61	7.0
	2:24:00	11:34:00			580.364								
1	2:24:00	11:48:00	0.10	0.86	580.364	82	82	580	87	97	93	68	11.0
1	2:30:00	11:54:00	0.10	0.84	583.600	84	82	609	84	122	115	65	11.0
2	2:36:00	12:00:00	0.09	0.76	586.700	85	82	609	85	137	124	61	7.0
2	2:42:00	12:06:00	0.08	0.67	589.400	85	82	605	85	131	122	58	6.0
3	2:48:00	12:12:00	0.07	0.59	593.000	87	82	603	83	122	122	57	6.0
3	2:54:00	12:18:00	0.07	0.59	595.500	88	83	610	86	125	122	58	6.0
4	3:00:00	12:24:00	0.06	0.50	598.550	88	83	614	84	120	122	58	6.0
4	3:06:00	12:30:00	0.05	0.42	600.970	88	83	613	83	115	123	60	5.0
5	3:12:00	12:36:00	0.05	0.42	603.380	88	84	612	83	118	117	62	5.0
5	3:18:00	12:42:00	0.05	0.42	605.700	88	84	612	83	120	122	63	5.0
6	3:24:00	12:48:00	0.05	0.42	608.010	89	84	609	89	112	119	63	5.0
6	3:30:00	12:54:00	0.05	0.42	610.330	89	85	607	93	116	120	58	5.0
7	3:36:00	13:00:00	0.05	0.42	612.650	89	85	606	94	114	119	58	5.0
7	3:42:00	13:06:00	0.05	0.43	614.950	89	85	590	97	120	120	58	5.0
8	3:48:00	13:12:00	0.05	0.45	617.310	88	85	541	94	111	114	58	5.0
8	3:54:00	13:18:00	0.05	0.46	619.700	88	85	524	98	110	112	59	5.0
9	4:00:00	13:24:00	0.05	0.46	622.140	88	85	512	96	105	108	59	5.0
9	4:06:00	13:30:00	0.05	0.47	624.600	88	85	510	93	101	105	58	5.0
10	4:12:00	13:36:00	0.05	0.47	626.840	88	85	498	96	102	104	59	5.0
10	4:18:00	13:42:00	0.05	0.48	629.230	88	85	490	84	102	104	62	5.0
11	4:24:00	13:48:00	0.05	0.48	631.600	88	85	485	95	102	103	63	5.0
11	4:30:00	13:54:00	0.05	0.48	634.050	88	85	484	99	103	100	57	5.0
12	4:36:00	14:00:00	0.05	0.53	636.500	88	85	385	99	103	100	56	5.0
12	4:42:00	14:06:00	0.05	0.57	638.900	89	86	331	99	103	96	57	5.0
	4:48:00	14:12:00			641.300								
5	4:48:00	14:12:00	0.05	0.59	641.300	88	86	304	93	93	94	57	5.0
5	4:54:00	14:18:00	0.05	0.52	643.750	89	86	408	93	96	97	59	5.0
5	5:00:00	14:24:00	0.05	0.48	646.250	89	86	482	93	102	98	59	5.0
	5:06:00	14:30:00			648.761								
			Avg.	Avg.	Total Volume	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
			0.06	0.53	130.894	84	81	521	92	106	109.0	58	5.1
			Avg. Sqrt.			Avg. Tm.		SVP					Max.
			0.24			82.4		29.9200					11.0

ISOKINETIC SAMPLING DATA SHEET

Client:	Owens Corning	Source:	PCC Still	Date:	8/16/2006
Plant:	Medina	Location:	Outlet	Run #:	2
Project #:	045396	Operator:	SC	Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q781B	Meter Con. #:	BE04908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BE04923	Meter Y:	1.0133	$T_{AMBIENT}$:	75	(°F)	Area:	17.10	(ft^2)
T-Couple:	6T-8	ΔH @:	1.7126	$P_{Bar.}$:	29.99	(in. Hg.)	Diameter:	56.00	(in.)
Probe ID:	6P-8	Nozzle ID:	gz 04	P_{Static}:	0.20	(in. H_2O.)			
Probe Con.#:	4186H	Nozzle Con. #:	BE04963						
C_P:	0.84	Dn (in.) :	0.3910	RUN ESTIMATES			TEST INFORMATION		
LEAK CHECK - ANALYSIS				Bws: 0.120	$\%CO_2$: 3.00	$\%O_2$: 10.00	Number of Ports:	2	
Meter Initial:	0.002 cfm @	15.0	(in. Hg.)	$\%N_2$/CO: 87.00	Md: 28.88	Ms: 27.57	Points / Port:	12	
Meter Final:	0.004 cfm @	13.0	(in. Hg.)	ACTUAL VALUES			Reads / Point	2	
Pitot (-):	ok @	6.0	(in. H_2O)	Bws: 0.127	$\%CO_2$: 3.70	$\%O_2$: 10.80	Time/Reading:	6.0	(min.)
Pitot (+):	ok @	6.0	(in. H_2O)	$\%N_2$/CO: 85.50	M_D: 29.02	M_S: 27.63	Total Time (Θ):	300	(min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	DGM Outlet	Temperatures (°F) Stack	Filter	Probe	Aux.	Exit	Vac. (In. Hg.)
1		9:10:00	0.05	0.56	650.100	71	71	456	98	98	109	68	2.0
1	0:06:00	9:16:00	0.05	0.55	652.650	71	71	467	99	98	110	67	2.0
2	0:12:00	9:22:00	0.05	0.55	655.200	72	71	467	99	100	109	64	2.0
2	0:18:00	9:28:00	0.06	0.64	657.700	73	71	501	101	100	115	60	2.0
3	0:24:00	9:34:00	0.05	0.53	660.100	74	71	502	110	102	116	59	2.0
3	0:30:00	9:40:00	0.05	0.53	662.400	75	71	511	111	100	117	57	2.0
4	0:36:00	9:46:00	0.04	0.43	664.700	75	71	509	108	102	120	57	2.0
4	0:42:00	9:52:00	0.04	0.43	667.000	77	72	510	108	101	121	58	2.0
5	0:48:00	9:58:00	0.06	0.63	669.700	77	72	517	107	99	122	58	2.0
5	0:54:00	10:04:00	0.05	0.52	672.100	78	72	525	105	98	121	58	2.0
6	1:00:00	10:10:00	0.05	0.52	674.600	79	73	532	104	98	121	58	2.0
6	1:06:00	10:16:00	0.05	0.51	676.900	82	73	554	100	99	122	56	2.0
7	1:12:00	10:22:00	0.05	0.51	679.300	82	73	554	100	99	122	57	2.0
7	1:18:00	10:28:00	0.05	0.51	681.700	83	73	562	99	98	121	57	2.0
8	1:24:00	10:34:00	0.05	0.51	684.000	83	74	564	99	98	119	57	2.0
8	1:30:00	10:40:00	0.06	0.61	686.700	83	74	555	99	98	118	57	2.0
9	1:36:00	10:46:00	0.06	0.62	689.200	83	74	543	98	98	118	58	2.0
9	1:42:00	10:52:00	0.04	0.42	692.200	83	74	534	98	99	116	58	2.0
10	1:48:00	10:58:00	0.04	0.41	694.200	82	75	552	98	99	114	59	2.0
10	1:54:00	11:04:00	0.05	0.51	696.900	82	75	553	100	99	110	61	2.0
11	2:00:00	11:10:00	0.06	0.62	699.600	83	75	554	100	98	109	61	2.0
11	2:06:00	11:16:00	0.05	0.51	702.100	83	75	554	101	98	109	61	2.0
12	2:12:00	11:22:00	0.05	0.51	704.500	84	75	553	101	98	106	62	2.0
12	2:18:00	11:28:00	0.05	0.51	706.900	84	75	567	102	98	105	62	2.0
	2:24:00	11:34:00			709.200								
1	2:24:00	11:34:00	0.08	0.78	709.200	78	75	598	110	102	105	68	2.0
1	2:30:00	11:40:00	0.08	0.78	712.200	79	75	601	112	103	116	67	2.0
2	2:36:00	11:46:00	0.07	0.68	714.900	80	75	602	109	101	116	66	2.0
2	2:42:00	11:52:00	0.05	0.48	717.100	80	76	612	108	101	117	66	2.0
3	2:48:00	11:58:00	0.05	0.49	719.600	81	76	611	105	100	115	65	2.0
3	2:54:00	12:04:00	0.05	0.49	722.110	82	77	609	105	101	118	65	2.0
4	3:00:00	12:10:00	0.05	0.49	724.600	84	77	601	100	102	121	66	2.0
4	3:06:00	12:16:00	0.05	0.49	727.100	86	78	598	99	101	122	64	2.0
5	3:12:00	12:22:00	0.05	0.50	729.600	86	78	593	99	102	122	63	2.0
5	3:18:00	12:28:00	0.05	0.50	732.000	87	78	589	99	100	123	62	2.0
6	3:24:00	12:34:00	0.05	0.50	734.700	88	78	588	98	99	123	62	2.0
6	3:30:00	12:40:00	0.05	0.50	737.100	88	78	588	97	99	121	63	2.0
7	3:36:00	12:46:00	0.06	0.60	739.900	88	78	587	98	99	120	64	2.0
7	3:42:00	12:52:00	0.06	0.60	742.700	89	79	585	99	99	119	64	2.0
8	3:48:00	12:58:00	0.05	0.50	745.000	89	79	587	100	100	117	65	2.0
8	3:54:00	13:04:00	0.04	0.40	747.200	90	80	592	101	100	115	65	2.0
9	4:00:00	13:10:00	0.04	0.40	749.500	90	79	594	101	100	115	64	2.0
9	4:06:00	13:16:00	0.05	0.50	752.000	90	79	589	102	100	116	64	2.0
10	4:12:00	13:22:00	0.05	0.50	754.400	90	80	588	100	99	115	63	2.0
10	4:18:00	13:28:00	0.05	0.50	756.700	90	80	589	100	99	116	64	2.0
11	4:24:00	13:34:00	0.04	0.41	759.100	89	80	567	99	98	115	64	2.0
11	4:30:00	13:40:00	0.04	0.42	761.100	90	81	553	99	98	114	64	2.0
12	4:36:00	13:46:00	0.04	0.42	763.400	90	81	538	99	99	115	64	2.0
12	4:42:00	13:52:00	0.05	0.53	766.100	90	81	533	99	98	114	64	2.0
1	4:48:00	13:58:00	0.05	0.53	768.700	90	81	531	99	99	112	64	2.0
1	4:54:00	14:04:00	0.05	0.97	770.200								
	5:00:00	14:10:00			776.910								
			Avg.	Avg.	Total Volume	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
			0.05	0.53	126.810	82.92	75.71	557.53	101.67	99.47	116.16	62.04	2.00
			Avg. Sqrt.			Avg. Tm.		SVP					Max.
			0.23			79.3		30					2.0

ISOKINETIC SAMPLING DATA SHEET

Client:	Owens Corning	Source:	PCC Still	Date:	8/17/2006
Plant:	Medina	Location:	Outlet	Run #:	3
Project #:	045396	Operator:	SC	Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q794B	Meter Con. #:	BEO4908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BEO4923	Meter Y:	1.0133	$T_{AMBIENT}$:	70	(°F)	Area:	17.10	(ft^2)
T-Couple:	6T-10	ΔH @:	1.7126	$P_{Bar.}$:	29.90	(in. Hg.)	Diameter:	56.00	(in.)
Probe ID:	6P-10	Nozzle ID:	gz 04	P_{Static}:	0.20	(in. H_20.)			
Probe Con.#:	4186J	Nozzle Con. #:	BE04963						
C_P:	0.84	Dn (in.) :	0.3910	RUN ESTIMATES			TEST INFORMATION		

LEAK CHECK - ANALYSIS													
Meter Initial:	0.003	cfm	@	15.0	(in. Hg.)	Bws:	0.120	CO_2:	5.00	$\%O_2$:	10.00	Number of Ports:	2
Meter Final:	0.002	cfm	@	13.0	(in. Hg.)	$\%N_2/CO$:	85.00	Md:	29.20	Ms:	27.86	Points / Port:	12
Pitot (-):	ok		@	5.0	(in. H_2O)	ACTUAL VALUES						Reads / Point	2
Pitot (+):	ok		@	5.0	(in. H_2O)	Bws:	0.121	CO_2:	3.50	$\%O_2$:	13.10	Time/Reading:	6.0 (min.)
						$\%N_2/CO$:	83.40	M_D:	29.08	M_S:	27.74	Total Time (Θ):	492 (min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	DGM Outlet	Temperatures (°F) Stack	Filter	Probe	Aux.	Exit	Vac. in. Hg.)
1		8:28:00	0.05	0.61	777.035	70	70	385	88	88	98	68	2.0
1	0:06:00	8:34:00	0.05	0.55	779.700	70	70	465	98	93	99	66	2.0
2	0:12:00	8:40:00	0.05	0.55	782.000	71	70	478	95	92	98	62	2.0
2	0:18:00	8:46:00	0.06	0.65	784.600	72	70	488	95	92	98	60	2.0
3	0:24:00	8:52:00	0.05	0.54	787.360	72	70	488	105	95	108	60	2.0
3	0:30:00	8:58:00	0.05	0.53	790.000	75	71	509	109	94	112	60	2.0
4	0:36:00	9:04:00	0.05	0.53	792.540	75	71	512	111	91	114	60	2.0
4	0:42:00	9:10:00	0.04	0.42	794.580	75	72	514	109	92	110	60	6.0
5	0:48:00	9:16:00	0.04	0.42	796.950	75	72	516	114	90	114	60	7.0
5	0:54:00	9:22:00	0.04	0.42	799.380	77	72	518	113	91	113	60	7.0
6	1:00:00	9:28:00	0.04	0.42	801.735	77	73	520	111	93	112	60	6.0
6	1:06:00	9:34:00	0.04	0.42	804.000	78	73	518	105	92	105	60	6.0
7	1:12:00	9:40:00	0.05	0.53	806.900	79	74	511	103	93	104	60	6.0
7	1:18:00	9:46:00	0.05	0.54	809.400	80	74	507	102	95	103	66	6.0
8	1:24:00	9:52:00	0.05	0.54	811.930	80	74	508	102	95	101	67	6.0
8	1:30:00	9:58:00	0.05	0.54	814.330	80	74	508	101	98	96	65	9.0
9	1:36:00	10:04:00	0.05	0.54	817.000	80	74	509	102	99	97	59	9.0
9	1:42:00	10:10:00	0.05	0.58	819.600	82	77	434	102	98	96	58	10.0
10	1:48:00	10:16:00	0.05	0.58	822.100	82	77	435	102	98	96	58	10.0
10	1:54:00	10:22:00	0.05	0.59	824.950	83	78	431	102	98	98	58	10.0
11	2:00:00	10:28:00	0.05	0.59	827.500	84	78	434	100	97	95	58	10.0
11	2:06:00	10:34:00	0.05	0.59	829.900	84	78	434	100	97	95	58	10.0
12	2:12:00	10:40:00	0.05	0.55	833.000	85	78	484	100	97	95	58	10.0
12	2:18:00	10:46:00	0.05	0.57	836.050	86	80	455	100	97	95	58	10.0
	2:24:00	10:52:00			838.559								
1	2:24:00	11:08:00	0.05	0.54	838.559	82	81	509	92	92	100	68	8.0
1	2:30:00	11:14:00	0.05	0.49	841.290	82	81	598	112	92	111	60	8.0
2	2:36:00	11:20:00	0.06	0.59	843.910	84	81	601	120	89	117	52	7.0
2	2:42:00	11:26:00	0.06	0.59	846.600	86	82	603	126	90	119	51	7.0
3	2:48:00	11:32:00	0.06	0.59	849.350	86	82	605	133	91	122	52	7.0
3	2:54:00	11:38:00	0.06	0.59	852.000	86	82	605	131	95	121	53	7.0
4	3:00:00	11:44:00	0.05	0.49	854.970	88	83	608	138	92	123	53	7.0
4	3:06:00	11:50:00	0.05	0.49	857.600	89	83	608	136	90	123	56	6.0
5	3:12:00	11:56:00	0.05	0.49	860.150	89	83	609	130	90	119	58	6.0
5	3:18:00	12:02:00	0.05	0.50	862.650	90	84	605	129	90	120	58	6.0
6	3:24:00	12:08:00	0.09	0.90	865.100	90	85	604	127	91	118	59	10.0
6	3:30:00	12:14:00	0.09	0.90	868.480	92	85	603	129	91	118	57	9.0
7	3:36:00	12:20:00	0.09	0.90	871.860	92	86	603	130	91	121	57	9.0
7	3:42:00	12:26:00	0.09	0.90	875.200	93	86	602	126	92	118	58	9.0

ISOKINETIC SAMPLING DATA SHEET

8	3:48:00	12:32:00	0.08	0.80	878.400	93	87	601	125	92	116	58	9.0
8	3:54:00	12:38:00	0.08	0.80	881.825	94	87	600	122	97	118	62	7.0
9	4:00:00	12:44:00	0.08	0.80	884.975	94	88	600	124	102	119	64	7.0
9	4:06:00	12:50:00	0.08	0.80	888.200	94	88	600	122	103	115	64	8.0
10	4:12:00	12:56:00	0.09	0.91	891.500	94	88	592	122	105	118	62	8.0
10	4:18:00	13:02:00	0.10	1.02	895.000	94	88	589	123	108	119	62	8.0
11	4:24:00	13:08:00	0.10	1.02	898.200	95	89	589	121	96	116	60	10.0
11	4:30:00	13:14:00	0.10	1.02	901.840	95	89	588	120	102	115	61	9.0
12	4:36:00	13:20:00	0.10	1.02	905.460	95	89	588	119	103	114	62	9.0
12	4:42:00	13:26:00	0.05	0.53	909.070	95	89	541	120	101	113	63	9.0
	4:48:00	13:32:00			**911.700**								
1	4:48:00	13:32:00	0.05	0.54	911.700	95	90	526	118	110	112	63	9.0
1	4:54:00	13:38:00	0.05	0.55	914.280	95	90	519	114	107	113	63	5.0
1	5:00:00	13:44:00	0.05	0.55	917.000	95	90	512	116	107	113	62	5.0
1	5:06:00	13:50:00	0.05	0.55	919.480	95	91	508	117	113	113	61	5.0
1	5:12:00	13:56:00	0.05	0.55	922.000	95	91	504	116	108	114	60	5.0
1	5:18:00	14:02:00	0.05	0.55	924.700	95	90	505	119	113	114	58	5.0
1	5:24:00	14:08:00	0.05	0.55	927.310	95	90	503	119	105	115	58	5.0
1	5:30:00	14:14:00	0.05	0.56	929.930	95	91	497	119	104	114	59	5.0
1	5:36:00	14:20:00	0.05	0.56	932.600	95	91	498	119	102	113	60	5.0
1	5:42:00	14:26:00	0.05	0.56	935.200	95	91	494	118	119	116	60	5.0
1	5:48:00	14:32:00	0.05	0.56	937.840	96	91	493	122	113	115	60	5.0
1	5:54:00	14:38:00	0.05	0.56	940.500	96	92	491	121	110	114	61	5.0
1	6:00:00	14:44:00	0.05	0.56	943.200	96	92	490	122	114	115	61	5.0
1	6:06:00	14:50:00	0.05	0.56	945.750	96	92	490	123	111	116	61	5.0
1	6:12:00	14:56:00	0.05	0.57	948.400	97	93	488	122	111	117	62	5.0
1	6:18:00	15:02:00	0.05	0.57	951.100	97	93	488	121	106	117	63	5.0
1	6:24:00	15:08:00	0.05	0.57	953.685	97	93	485	120	106	115	62	5.0
1	6:30:00	15:14:00	0.05	0.57	956.320	97	93	485	121	106	114	62	5.0
1	6:36:00	15:20:00	0.05	0.57	958.900	97	93	482	122	102	113	64	5.0
1	6:42:00	15:26:00	0.05	0.57	961.600	97	93	481	121	106	115	65	5.0
1	6:48:00	15:32:00	0.05	0.57	964.000	97	93	483	122	106	115	65	5.0
1	6:54:00	15:38:00	0.05	0.57	966.600	97	93	486	121	106	114	65	5.0
1	7:00:00	15:44:00	0.05	0.57	969.300	98	94	484	122	103	116	65	5.0
1	7:06:00	15:50:00	0.05	0.57	972.000	98	94	481	120	100	114	65	5.0
1	7:12:00	15:56:00	0.05	0.57	974.830	98	94	481	120	100	114	65	5.0
1	7:18:00	16:02:00	0.05	0.57	977.470	98	94	481	120	100	114	65	5.0
1	7:24:00	16:08:00	0.05	0.57	979.900	98	94	481	120	100	114	65	5.0
1	7:30:00	16:14:00	0.05	0.57	982.830	98	94	481	120	100	114	65	5.0
1	7:36:00	16:20:00	0.05	0.57	985.500	98	94	481	120	100	114	65	5.0
1	7:42:00	16:26:00	0.05	0.57	988.200	98	94	481	120	100	114	65	5.0
1	7:48:00	16:32:00	0.05	0.57	990.860	98	94	481	120	100	114	65	5.0
1	7:54:00	16:38:00	0.05	0.57	993.550	98	94	481	120	100	114	65	5.0
1	8:00:00	16:44:00	0.05	0.57	996.230	98	94	481	120	100	114	65	5.0
1	8:06:00	16:50:00	0.05	0.57	998.935	98	94	481	120	100	114	65	5.0
	8:12:00	16:56:00			**1001.370**								
			Avg.	**Avg.**	**Total Volume**	**Avg.**	**Avg.**	**Avg.**	**Avg.**	**Avg.**	**Avg.**	**Avg.**	**Avg.**
			0.06	0.61	224.335	89.39	84.88	518.23	116.11	99.24	111.61	61.02	6.29
			Avg. Sqrt.			**Avg. Tm.**		**SVP**					**Max.**
			0.24			87		30					10.0

Particulate Matter Emission Test Results with Condensable Fraction
PCC Incinerator
Owens Corning Medina Asphalt Plant
8/15-17/06

Test Date	Run	Start Time	Stop Time	Temp. (F)	Moisture (%)	Actual Flowrate (acfm)	Dry Std. Flowrate (dscfm)	Sample Volume (dscf)	Filterable PM		Organic Condensable Catch (g)	Inorganic Condensable Catch (g)	Total Catch (g)	Total Concentration gr/dscf	Total Emission Rate (lb/hr)
									TCE Rinse (g)	Filter Catch (g)					
8/15/2006	1	9:10	14:30	521.0	12.4	19,160	9,060	130.894	0.0176	0.1395	0.0077	0.1755	0.3403	0.0401	3.11
8/16/2006	2	9:10	14:10	558.0	12.7	18,410	8,360	126.810	0.0445	0.0181	0.0075	0.1597	0.2298	0.0280	2.00
8/17/2006	3	8:28	16:56	518.0	12.1	18,840	8,940	224.335	0.0269	0.0106	0.0066	0.1536	0.1977	0.0136	1.04
	Avg			532.3	12.4	18,803	8,787							0.0272	2.05

PCC Incinerator

Run #	MeCl Beaker ID	MeCl Beaker Tare	MeCl Beaker Gross	Water Beaker ID	Water Beaker Tare	Water Beaker Gross	Total Weight Gain
1	D851	107.9669	107.9746	D852	110.3169	110.4924	0.1832
2	D854	102.5117	102.5192	D855	99.614	99.7737	0.1672
3	D856	107.1346	107.1412	D857	101.4205	101.5741	0.1602

	MeCl Total Gain	Water Total Gain
Run #1	0.0077	0.1755
Run #2	0.0075	0.1597
Run #3	0.0066	0.1536

Variable Definitions

% CO2 = Percent CO2 by volume, dry basis
% N2 = Percent N2 by volume, dry basis
% O2 = Percent O2 by volume, dry basis
%CO = Percent CO by volume, dry basis
□P = Velocity head of stack gas, in. H2O
0.04707 ft3 0.04715 ft3 35.31 ft3/m3
0.280 = Molecular weight of N2 and CO, divided by 100
0.320 = Molecular weight of O2, divided by 100
0.440 = Molecular weight of CO2, divided by 100
AS = Cross-sectional area of stack, ft2
Bws = Water vapor in the gas stream, proportion by volume
Bwm = Approximate proportion by volume of water vapor in the gas stream leaving the second impinger, .025
Cp = Pitot tube coefficient, dimensionless
Cst = Stack concentration, µg/dry standard cubic meter
Kp = Pitot tube constant
MD = Dry molecular weight, lb/lb - mole
ml = Mass of compound in, µg
Ms = Molecular weight of stack gas, wet basis, lb/lb-mole
Mw = Molecular weight of water, 18.0 lb/lb-mole
Pm = Absolute pressure at the dry gas meter, in. Hg
Pmrt= Emission Rate lb/hr
Ps = Absolute stack gas pressure, in. Hg
Pstd = Standard absolute pressure, 29.92 in. Hg
Pw = Density of water, 0.002201 lb/ml
Qsd= Dry volumetric stack gas flow rate, dry standard ft3/minute
R= Ideal Gas Constant, 21.85 (in. Hg)*(ft3)/(lb-mole)*(R)
Tm = Absolute temperature at meter, □R
Ts = Stack gas temperature, □ R
Tstd = Standard absolute temperature, 528□ R
Vf = Final volume of impinger train, ml.
Vi = Initial volume of impinger train, ml.
Vm = Dry gas volume measured by dry gas meter, dcf
Vm(std) = Dry gas volume measured by dry gas meter, corrected to standard conditions, dscf
Vm(std) = Dry gas volume measured by the dry gas meter, corrected to standard conditions, dscf
Vs = Average stack gas velocity, ft/sec
Vwc(std) = Volume of water vapor condensed corrected to standard conditions, scf
Vwsg(std) = Volume of water vapor collected corrected to standard conditions, scf
Vwsg(std) = Volume of water vapor collected in silica gel corrected to standard conditions
Wf = Final weight of impinger train, g.
Wi = Initial weight of impinger train, g.
Y = Dry gas meter calibration factor

Client: Owens Corning Project #: 045396	Plant: Medina Source: PCC Still	Location: Outlet

Reference Method No. 2 Calculations

Average Stack Gas Velocity	$v_s = K_P C_P (\sqrt{\Delta p})_{avg} \sqrt{\frac{T_{S(avg)}}{P_S M_S}}$	v_S=	18.6740	ft/sec.
Average Stack Volumetric Flow Rate	$Q_a = 60 v_s A_s$	Q_A=	19164.2	ACFM
Average Stack Gas Dry Standard Flow Rate	$Q_{sd} = 60(1 - B_{ws}) v_s A_s \left(\frac{T_{std} P_s}{T_s P_{std}}\right)$	Q_{SD}=	9056.3	DSCFM

Reference Method No. 3 Calculations

Molecular Weight, Dry	$M_D = 0.440(\%CO_2) + 0.320(\%O_2) + 0.280(\%N_2 + CO)$	M_D=	29.04	lb/lb-mole
Molecular Weight, Wet	$M_S = M_D(1 - B_{ws}) + 18 B_{ws}$	M_S=	27.67	lb/lb-mole

Reference Method No. 4 Calculations

Sample Gas Volume, Standard Conditions	$V_{m(std)} = V_m Y \frac{P_m T_{std}}{P_{std} T_m}$	$V_{m(std)}$=	129.422	DSCF
Volume of Water Vapor Condensed	$V_{wc(std)} = 0.04707\,(V_f - V_i)$	$V_{wc(std)}$=	0.000	ft^3/ml
Volume of Water Vapor Condensed in Silica Gel	$V_{wsg(std)} = 0.04715\,(W_f - W_i)$	$V_{wsg(std)}$=	18.247	ft^3/g
Moisture Volume Fraction of Stack Gas	$B_{ws} = \frac{V_{wc(std)} + V_{wsg(std)}}{V_{wc(std)} + V_{wsg(std)} + V_{m(std)}}$	B_{ws}=	0.124	
Vapor Pressure of Stack H_2O	$V_P = SVP - 0.000367\,(P_S)(1 + \frac{T_S - 32}{1571})$	VP=	29.906	
Bws VP	$B_{ws}\ VP = \frac{VP}{P_S}$	B_{ws}VP=	0.998	
		MIN B_{ws} or B_{ws}VP=	0.124	

Reference Method No. 5 Calculations

Percent Isokinetic	$I = \frac{100 T_s V_{m(std)} P_{std}}{60 T_{std} v_s \theta A_n P_s (1 - B_{ws})}$	I=	95.8	%
Mass Emissions Rate	$E = \frac{m_t}{V_{m(std)}} Q_{sd}$	E=	10.9931	g/min
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{60\,\text{min}}{hour} * \frac{1 lbs}{454 g}$		1.4528	lbs/hour
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{1\,\text{min}}{60\,\text{sec}}$		0.1832	g/second
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{60\,\text{min}}{1 hour} * \frac{1 Kg}{1{,}000 g}$		0.6596	kg/hour
	$E = C_d F_d \frac{20.9}{20.9 - \%O_{2d}} * \frac{1 lbs}{454 g}$		0.0000	lbs/mmBTU
Stack Concentration	$C_{ST} = \frac{m_t}{V_{m(std)}}$	C_{st}=	0.0012	g/DSCF
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{15.43 gr}{1 g}$		0.0187	gr/DSCF
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{10^6 \mu g}{1 g} * \frac{1\,\text{SCF}}{0.028317\,\text{SCM}}$		#########	ug/DSCM
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{10^6 \mu g}{1 g} * \frac{1\,\text{SCF}}{0.028317\,\text{SCM}} * \frac{T_{Normal}}{T_{std}}$		#########	ug/DNCM
Stack Concentration Corrected to 7% O_2	$C_{STO_2} = C_{ST} \frac{20.9 - 7.0}{20.9 - \%O_2}$	C_{stO2}=	0.0246	gr/DSCF @7%O_2
			#########	ug/DSCM @7%O_2
			#########	ug/DNCM @7%O_2
Stack Concentration Corrected to 12% CO_2	$C_{STCO_2} = C_{ST} \frac{12.0}{\%CO_2}$	C_{stCO2}=	0.0576	gr/DSCF @12% CO_2

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: RMSA/202 Run: 1
Site: PCC incinerator OUTLET Recovery Technician: AK/MT Date: 8/15/2006

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	D.I.	D.I.	Empty	Silica		
Initial Vol. (ml)	100	100	0	–		
Final Vol. (ml)	325	275	8	–		
Rinse Vol. (ml)				–		
Comments Filter I.D. Q 790 B						

Train Initial Weight (g): 3558.5 Final Weight (g): 3945.5
Silica Gel Initial Weight (g): _____ Final Weight (g): _____

Purge Start Time: 15:39
Purge END Time: 16:39

FRONT HALF

	Filter	Beaker
ID No.		
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Notes/Comments:	

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: SA/202 Run: 2
Site: PCC Incinerator Outlet Recovery Technician: SZ Date: 8/16/06

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	DI H_2O	DI H_2O	—			
Initial Vol. (ml)	100	100	0			
Final Vol. (ml)	338	292	10			
Rinse Vol. (ml)						
Comments Filter I.D. Q781B						

Train Initial Weight (g) : _____ Final Weight (g): _____
Silica Gel Initial Weight (g): 3649.0 Final Weight (g): 4138.0

FRONT HALF

	Filter	Beaker
ID No.	Q781B	
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Purge Start 16:14
Purge Stop 17:14

Notes/Comments:	

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: RM 5A/202 Run: 3
Site: PCC Incinerator Recovery Technician: AK Date: 8-17-06

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	D.I. H_2O	D.I. H_2O	Empty	Silica		
Initial Vol. (ml)	100	100	0	–		
Final Vol. (ml)	308	325	100	–		
Rinse Vol. (ml)				-		
Comments Q794B						

Train Initial Weight (g): 3514.5 Final Weight (g): 4131.0
Silica Gel Initial Weight (g): _____ Final Weight (g): _____

FRONT HALF

	Filter	Beaker
ID No.		
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Purge Start. 19:14
Purge End. 20:14

Notes/Comments:	

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: PCC INCINERATOR	Unit #:	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: TALL SILVER STACK WITH SPIRAL WIND VANES

Height of Emiss. Pt. Start 250 End SAME	Height of Emiss. Pt. Rel. to Observer Start 250 End SAME
Distance to Emiss. Pt. Start 700 End SAME	Direction to Emiss. Pt. (Degrees) Start 228 End SAME
Vertical Angle to Obs. Pt. Start 14° End SAME	Direction to Obs. Pt. (Degrees) Start 228 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ None

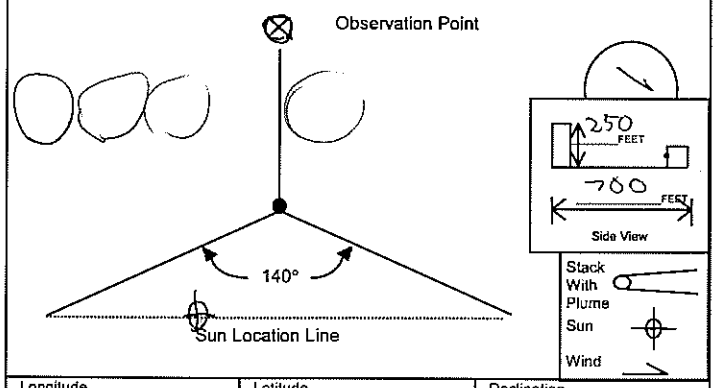
Describe Plume Background: Start SKY End SAME

Background Color Start BLUE End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 3-5 End SAME	Wind Direction Start S End SAME

Ambient Temp Start 71 End 78	Wet Bulb Temp 65	Rh, Percent 78

SOURCE LAYOUT SKETCH

Draw North Arrow: ☐TN ☒MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number	

Observation Date	Start Time	End Time
8-15-06	9:28	10:29

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILE	
Observer's Signature: Jason Revile	Date: 8-15-06
Organization: CRA	
Certified By: ETA	Date: 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process	Unit #:	Operating Mode
RCC INCINERATOR		
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

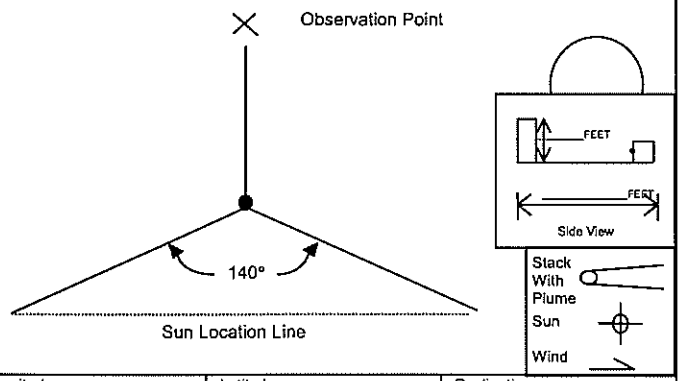
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number					

Observation Date	Start Time	End Time
8/15/06	9:28	10:29

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/15/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: PCC INCINERATOR	Unit #:	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: TALL SILVER STACK WITH SPIRAL WIND VANES

Height of Emiss. Pt. Start 250 End SAME	Height of Emiss. Pt. Rel. to Observer Start 250 End SAME
Distance to Emiss. Pt. Start 700 End SAME	Direction to Emiss. Pt. (Degrees) Start 233 End SAME
Vertical Angle to Obs. Pt. Start 14 End SAME	Direction to Obs. Pt. (Degrees) Start 233 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

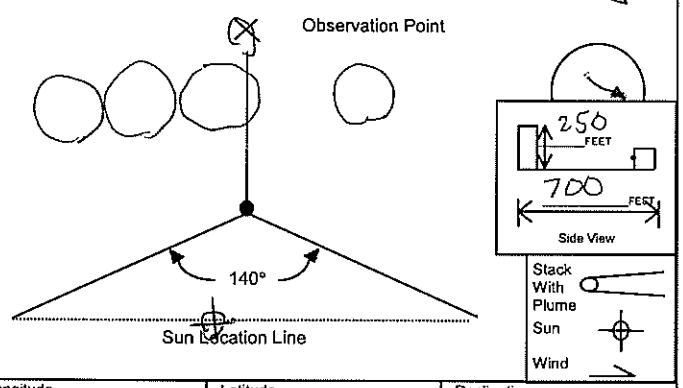
Emission Color Start CLEAR End SAME	Water Droplet Plume Attached ~ Detached ~ (None)

Describe Plume Background: Start SKY End SAME

Background Color Start BLUE End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 0-4 End SAME	Wind Direction Start N End SAME
Ambient Temp Start 77 End SAME	Wet Bulb Temp 66 / Rh, Percent 56

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☒MN



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-16-06	9:20	10:20

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print) JASON REVILLE	
Observer's Signature Jason Reville	Date 8/16/06
Organization CRA	
Certified By ETA	Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process	Unit #:	Operating Mode
PCC INCINERATOR		
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point
Start End

Describe Emissions
Start End

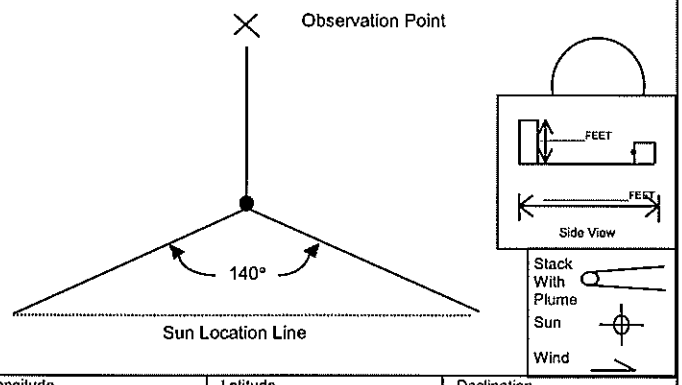
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background
Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-16-06	9:20	10:20

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8-16-06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: PCC INCINERATOR	Unit #:	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: TALL SILVER STACK WITH SPIRAL WIND VANES

Height of Emiss. Pt. Start 250 End SAME	Height of Emiss. Pt. Rel. to Observer Start 250 End SAME
Distance to Emiss. Pt. Start 700 End SAME	Direction to Emiss. Pt. (Degrees) Start 228 End SAME
Vertical Angle to Obs. Pt. Start 14 End SAME	Direction to Obs. Pt. (Degrees) Start 228 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

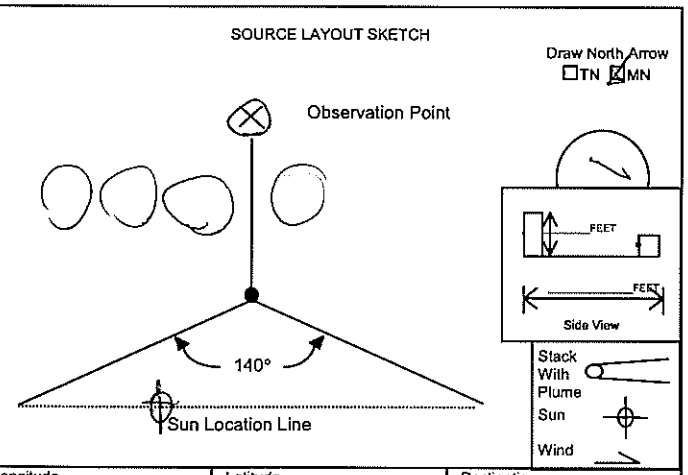
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None ~)

Describe Plume Background: Start SKY End SAME

Background Color Start BLUE End SAME	Sky Conditions Start PTLY CLDY End SAME
Wind Speed Start 0 End SAME	Wind Direction Start N/A End SAME
Ambient Temp Start 78 End 80	Wet Bulb Temp 67 / Rh, Percent 57

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-17-06	10:05	10:35

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILE
Observer's Signature	Jason Revile
Date	8/17/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: PCC INCINERATOR	Unit #:	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

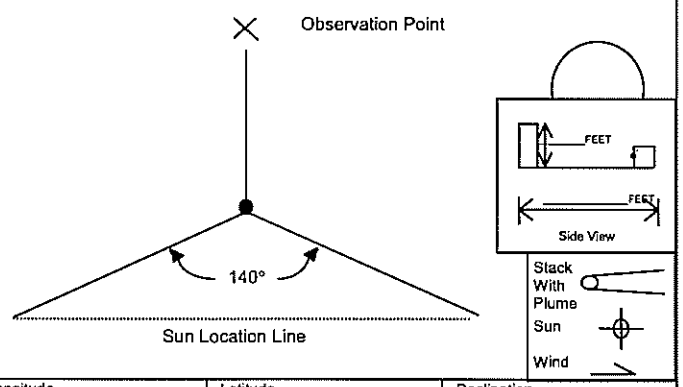
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-17-06	11:05	11:35

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature] Date 8/17/06
Organization	CRA
Certified By	ETA Date 4/20/06

Form Number						Page	Of

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	PCC Incinerator	Date:	8/15/2006
Plant:	Medina OH	Location:	Inlet	Run #:	1
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	75	(°F)	Area:	2.89	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.99	(in. Hg.)	Diameter:	23.00	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	-0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.10	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	4.00	(%)	Points / Port	8	
		O_2:	11.00	(%)	Reads / Point	1	

Run 1A		Average		Run 1B
Vs - ft/sec.	46.43	Vs - ft/sec.	46.43	Vs - ft/sec.
Qa - ACFM	8051.0	Qa - ACFM	8051.00	Qa - ACFM
Qs - WSCFM	6476.7	Qs - WSCFM	6476.70	Qs - WSCFM
Qs - DSCFM	5829.0	Qs - DSCFM	5829.00	Qs - DSCFM

Time	Title Run 1A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74	197	0.51	0.71	
2	2.42	200	0.59	0.77	
3	4.46	201	0.60	0.77	
4	7.43	202	0.58	0.76	
5	15.57	201	0.55	0.74	
6	18.54	191	0.57	0.75	
7	20.59	190	0.49	0.70	
8	22.26	186	0.33	0.57	
1	0.74	198	0.52	0.72	
2	2.42	200	0.58	0.76	
3	4.46	200	0.61	0.78	
4	7.43	201	0.59	0.77	
5	15.57	201	0.56	0.75	
6	18.54	200	0.54	0.73	
7	20.59	196	0.51	0.71	
8	22.26	190	0.42	0.65	
Average		197	0.53	0.73	#DIV/0!

Time	Title Run 1B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
Average		#DIV/0!	#DIV/0!	0	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	PCC Incinerator	Date:	8/16/2006
Plant:	Medina OH	Location:	Inlet	Run #:	2
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	68	(°F)	Area:	2.89	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.99	(in. Hg.)	Diameter:	23.00	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.10	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	5.00	(%)	Points / Port	8	
		O_2:	10.00	(%)	Reads / Point	1	

Run 2A		Average		Run 2B
Vs - ft/sec.	46.27	Vs - ft/sec.	46.27	Vs - ft/sec.
Qa - ACFM	8023.2	Qa - ACFM	8023.20	Qa - ACFM
Qs - WSCFM	6471.6	Qs - WSCFM	6471.60	Qs - WSCFM
Qs - DSCFM	5824.4	Qs - DSCFM	5824.40	Qs - DSCFM

Time	Title Run 2A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74	197	0.50	0.71	
2	2.42	200	0.60	0.77	
3	4.46	200	0.61	0.78	
4	7.43	200	0.57	0.75	
5	15.57	200	0.56	0.75	
6	18.54	191	0.56	0.75	
7	20.59	191	0.50	0.71	
8	22.26	185	0.31	0.56	
1	0.74	198	0.52	0.72	
2	2.42	200	0.58	0.76	
3	4.46	200	0.61	0.78	
4	7.43	201	0.59	0.77	
5	15.57	201	0.56	0.75	
6	18.54	200	0.54	0.73	
7	20.59	196	0.51	0.71	
8	22.26	190	0.42	0.65	
Average		197	0.53	0.73	#DIV/0!

Time	Title Run 2B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	PCC Incinerator	Date:	8/17/2006
Plant:	Medina OH	Location:	Inlet	Run #:	3
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BE04923	$Temperature_{AMBIENT}$:	70	(°F)	Area:	2.89	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.90	(in. Hg.)	Diameter:	23.00	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.12	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	5.00	(%)	Points / Port	8	
		O_2:	10.00	(%)	Reads / Point	1	

Run 3A		Average		Run 3B
Vs - ft/sec.	46.52	Vs - ft/sec.	46.52	Vs - ft/sec.
Qa - ACFM	8066.6	Qa - ACFM	8066.60	Qa - ACFM
Qs - WSCFM	6487.1	Qs - WSCFM	6487.10	Qs - WSCFM
Qs - DSCFM	5708.6	Qs - DSCFM	5708.60	Qs - DSCFM

Time	Title Run 3A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74	195	0.49	0.70	
2	2.42	201	0.61	0.78	
3	4.46	200	0.62	0.79	
4	7.43	201	0.56	0.75	
5	15.57	202	0.55	0.74	
6	18.54	192	0.55	0.74	
7	20.59	190	0.52	0.72	
8	22.26	182	0.33	0.57	
1	0.74	199	0.50	0.71	
2	2.42	202	0.59	0.77	
3	4.46	201	0.62	0.79	
4	7.43	201	0.58	0.76	
5	15.57	202	0.55	0.74	
6	18.54	199	0.55	0.74	
7	20.59	199	0.50	0.71	
8	22.26	192	0.43	0.66	
Average		197	0.53	0.73	#DIV/0!

Time	Title Run 3B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
1	0.74			0.00	
2	2.42			0.00	
3	4.46			0.00	
4	7.43			0.00	
5	15.57			0.00	
6	18.54			0.00	
7	20.59			0.00	
8	22.26			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
PCC INCINERATOR RUN 1
15-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.1	0.11%					
27	27.8	0.87%	0.6	10333	0.035	0.015	0.019
55	54.8	-0.22%					
91.67	91.7	0.03%					
Stack Concentration as Propane			0.49				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	340	6476	87.3	5.49	81.77
868	868	0.00%					
Stack Concentration as Propane			1966.7				
Efficiency	%	99.98					

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
PCC INCINERATOR RUN 2
16-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.2	0.22%					
27	28.3	1.42%	0.2	9863	0.072	0.005	0.067
55	55.1	0.11%					
91.67	91.8	0.14%					
Stack Concentration as Propane			1.06				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	340	6482	82.5	5.49	76.97
868	868	0.00%					
Stack Concentration as Propane			1857				
Efficiency	%	99.91					

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
PCC INCINERATOR RUN 3
17-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.1	0.11%					
27	27.8	0.87%	0.85	9579	0.032	0.020	0.012
55	54.8	-0.22%					
91.67	91.7	0.03%					
Stack Concentration as Propane			0.49				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	341	6487	71.8	5.51	66.26
868	868	0.00%					
Stack Concentration as Propane			1615				
Efficiency	%	99.98					

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

Plant:	MEDINA
Location:	PCC STILL
Date:	8/15/2006
Test no.:	1
Operator:	SC
Monitor:	

				Cal Gas Value
Inlet Span value,			5000	4426
Outlet Span ValueC3H8 :			100	90.2
Outlet Span ValueCH4 :			100	91.67
Methane:	92.8	55.6	27.9	
Propane:	38.7	23	10.6	
	2.40	2.42	2.63	
Methane Response Factor:			2.48	

	Run 1	Run 2	Run 3
Outlet WSCFM:	10463		
Outlet THC ppm as (	0.75		
Outlet Methane as C	0.65		
Outlet Methane as C	0.3	0.0	0.0
Outlet NMHC ppm a	0.5	0.0	0.0
Outlet % Moisture:	12		
Outlet Lbs/Hr as C3:	0.03	0.00	0.00
Inlet WSCFM:	6476		
Inlet THC ppm as C3	1966.0		
Inlet % Moisture:	10		
Inlet Lbs/Hr:	87.22		
%DE:	100.0		

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.8	2	3			0.02	0.04	
30	1327.8		1331				0.24			
60	2655.6		2658	2660	2665		0.09	0.04	0.14	
100	4426		4428							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.1	0.3	0.5			0.20	0.40	-0.10
30	27.06		26.8				-0.96			
60	54.12		55	55	56		1.63	0.00	1.00	-55.00
100	90.2		90.1							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.2	0.5	0.5			0.30	0.30	-0.20
30	27.501		28				1.81			
60	55.002		55	54.8	55		0.00	-0.20	0.00	-55.00
100	91.67		91.67							

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

Plant:	MEDINA
Location:	PCC STILL
Date:	8/16/2006
Test no.:	2
Operator:	SC
Monitor:	

			Cal Gas Value
Inlet Span value,		5000	4426
Outlet Span ValueC3H8 :		100	90.2
Outlet Span ValueCH4 :			
Methane:			
Propane:			
Methane Response Factor:			

	Run 1	Run 2	Run 3
Outlet WSCFM:			
Outlet THC ppm as C3:			
Outlet Methane as C1:			
Outlet Methane as C3:			
Outlet NMHC ppm as C3:			
Outlet % Moisture:			
Outlet Lbs/Hr as C3:			
Inlet WSCFM:			
Inlet THC ppm as C3:			
Inlet % Moisture:			
Inlet Lbs/Hr:			
%DE:			

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		1	1.5	1			0.01	0.00	
30	1327.8		1330				0.17			
60	2655.6		2658	2660	2661		0.09	0.04	0.06	
100	4426		4427							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.3	0.6	0.5			0.30	0.20	
30	27.06		27.8				2.73			
60	54.12		55	55.8	56.2		1.63	0.80	1.20	
100	90.2		90.1							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0									
30	0						#DIV/0!			
60	0						#DIV/0!			
100	0									

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

Plant:	MEDINA
Location:	PCC STILL
Date:	8/17/2006
Test no.:	3
Operator:	SC
Monitor:	

		Cal Gas Value
Inlet Span value,	5000	4426
Outlet Span ValueC3H8 :	100	90.2
Outlet Span ValueCH4 :	100	91.67
Methane:		
Propane:		
Methane Response Factor:		

	Run 1	Run 2	Run 3
Outlet WSCFM:			
Outlet THC ppm as C3:			
Outlet Methane as C1:			
Outlet Methane as C3:			
Outlet NMHC ppm as C3:			
Outlet % Moisture:			
Outlet Lbs/Hr as C3:			
Inlet WSCFM:			
Inlet THC ppm as C3:			
Inlet % Moisture:			
Inlet Lbs/Hr:			
%DE:			

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		2	4	4			0.04	0.04	
30	1327.8		1331				0.24			
60	2655.6		2658	2661	2665		0.09	0.06	0.14	
100	4426		4425							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.6	1	1.2			0.40	0.60	
30	27.06		26.8				-0.96			
60	54.12		54.9	55.2	55.8		1.44	0.30	0.90	
100	90.2		90							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0							0.00	0.00	0.00
30	27.501						-100.00			
60	55.002						-100.00	0.00	0.00	0.00
100	91.67									

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/15/2006

	Method / Gas	10 / CO	10 / CO	6C / SO2	6C / SO2
	Source	PCC	PCC	PCC	PCC
Calibration Drift Check					
	Time	2:45 PM	2:45 PM	2:45 PM	2:45 PM
	Span	100	2000	100	1000
	Drift limit	< 3.0%	< 3.0%	< 3.0%	< 3.0%
Zero					
	Initial	0.5	0.9	0.2	0.5
	Final	0.2	1	0.1	0.7
	Average (C_o)	0.35	0.95	0.15	0.6
	Certified Value	0	0	0	0
	% Drift	-0.3%	0.0%	-0.1%	0.0%
	% Sys. Bias	0.0%	0.0%	0.0%	0.0%
Upscale (Cma)					
	Upscale Gas:	Mid	Mid	Mid	Mid
	Initial	54.8	1190	54	522.7
	Final	55	1191	55.1	524.3
	Average (C_m)	54.9	1190.5	54.55	523.5
	Certified Value	54	1189.8	53.7	521.4
	% Drift	0.2%	0.1%	1.1%	0.2%
	% Sys. Bias	1.0%	-0.1%	1.3%	0.2%
Run Data Calculations					
	Number of Sample Points:	0	705	0	705
	Average Concentration (C):	#DIV/0!	281.98	#DIV/0!	292.76
	Drift Corrected Average (C_{gas})	#DIV/0!	281.09	#DIV/0!	291.32
	Maximum Concentration:	0.00	1641.31	0.00	614.09
	Minumum Concentration:	0.00	0.73	0.00	-0.24
DATE	TIME	ppmvd	ppmvd	ppmvd	ppmvd
	8/15/2006 9:09		1.0		0.0
	8/15/2006 9:09		1.0		-0.2
	8/15/2006 9:09		10.7		0.0
	8/15/2006 9:09		135.0		0.5
	8/15/2006 9:10		416.8		15.9
	8/15/2006 9:10		548.9		38.1
	8/15/2006 9:10		438.8		57.1
	8/15/2006 9:10		308.9		77.2
	8/15/2006 9:11		160.9		89.9
	8/15/2006 9:11		48.6		92.3
	8/15/2006 9:11		12.9		86.7
	8/15/2006 9:11		4.9		77.6
	8/15/2006 9:12		0.7		69.3
	8/15/2006 9:12		0.7		62.3
	8/15/2006 9:12		0.7		54.0
	8/15/2006 9:12		1.0		46.4
	8/15/2006 9:13		0.7		42.5
	8/15/2006 9:13		0.7		39.8
	8/15/2006 9:13		0.7		35.9
	8/15/2006 9:13		2.9		32.2

8/15/2006 9:14	4.9	29.8
8/15/2006 9:14	4.6	26.9
8/15/2006 9:14	4.9	24.7
8/15/2006 9:14	6.8	22.2
8/15/2006 9:15	6.8	20.5
8/15/2006 9:15	4.9	19.3
8/15/2006 9:15	2.7	18.8
8/15/2006 9:15	2.7	17.1
8/15/2006 9:16	2.9	15.9
8/15/2006 9:16	0.7	14.7
8/15/2006 9:16	1.0	14.2
8/15/2006 9:16	0.7	14.2
8/15/2006 9:17	0.7	13.4
8/15/2006 9:17	0.7	13.4
8/15/2006 9:17	0.7	13.4
8/15/2006 9:17	2.7	12.9
8/15/2006 9:18	2.7	12.9
8/15/2006 9:18	2.9	12.9
8/15/2006 9:18	2.7	12.9
8/15/2006 9:18	2.9	12.9
8/15/2006 9:19	2.9	12.9
8/15/2006 9:19	2.9	12.9
8/15/2006 9:19	2.7	12.9
8/15/2006 9:19	2.9	12.9
8/15/2006 9:20	2.7	12.9
8/15/2006 9:20	2.7	12.9
8/15/2006 9:20	3.4	12.9
8/15/2006 9:20	2.7	12.9
8/15/2006 9:21	2.9	12.9
8/15/2006 9:21	2.7	12.9
8/15/2006 9:21	2.9	12.9
8/15/2006 9:21	2.9	12.9
8/15/2006 9:22	2.7	12.9
8/15/2006 9:22	2.9	12.9
8/15/2006 9:22	2.9	12.9
8/15/2006 9:22	2.7	12.7
8/15/2006 9:23	2.7	13.7
8/15/2006 9:23	2.7	14.2
8/15/2006 9:23	5.1	13.9
8/15/2006 9:23	6.6	14.2
8/15/2006 9:24	6.8	14.7
8/15/2006 9:24	9.0	14.7
8/15/2006 9:24	9.0	15.1
8/15/2006 9:24	6.8	15.9
8/15/2006 9:25	4.9	16.4
8/15/2006 9:25	4.9	17.3
8/15/2006 9:25	4.6	19.3
8/15/2006 9:25	4.9	20.5
8/15/2006 9:26	6.8	21.7
8/15/2006 9:26	10.7	22.7
8/15/2006 9:26	14.7	24.2
8/15/2006 9:26	16.8	25.1
8/15/2006 9:27	22.7	27.6
8/15/2006 9:27	26.9	30.0

8/15/2006 9:27	24.9	31.7
8/15/2006 9:27	26.9	32.7
8/15/2006 9:28	29.1	33.9
8/15/2006 9:28	31.0	35.2
8/15/2006 9:28	33.0	37.1
8/15/2006 9:28	36.9	38.1
8/15/2006 9:29	32.7	39.3
8/15/2006 9:29	29.3	39.8
8/15/2006 9:29	26.9	41.3
8/15/2006 9:29	20.8	42.2
8/15/2006 9:30	16.8	42.7
8/15/2006 9:30	12.9	42.7
8/15/2006 9:30	12.9	43.5
8/15/2006 9:30	12.9	43.5
8/15/2006 9:31	12.9	44.0
8/15/2006 9:31	14.9	44.0
8/15/2006 9:31	16.8	44.7
8/15/2006 9:31	20.8	45.2
8/15/2006 9:32	28.8	45.4
8/15/2006 9:32	36.6	45.4
8/15/2006 9:32	38.8	45.2
8/15/2006 9:32	42.7	45.7
8/15/2006 9:33	46.9	46.1
8/15/2006 9:33	47.1	46.4
8/15/2006 9:33	44.7	46.4
8/15/2006 9:33	41.0	46.4
8/15/2006 9:34	33.0	46.4
8/15/2006 9:34	24.7	46.4
8/15/2006 9:34	23.0	46.4
8/15/2006 9:34	23.0	45.9
8/15/2006 9:35	22.7	45.9
8/15/2006 9:35	21.0	45.9
8/15/2006 9:35	20.8	46.9
8/15/2006 9:35	23.0	47.6
8/15/2006 9:36	20.8	48.8
8/15/2006 9:36	22.7	48.1
8/15/2006 9:36	22.7	48.1
8/15/2006 9:36	23.0	48.1
8/15/2006 9:37	24.9	48.6
8/15/2006 9:37	26.9	48.6
8/15/2006 9:37	34.9	48.6
8/15/2006 9:37	46.9	48.3
8/15/2006 9:38	52.7	48.8
8/15/2006 9:38	52.7	49.3
8/15/2006 9:38	52.7	50.5
8/15/2006 9:38	52.7	50.5
8/15/2006 9:39	54.7	50.1
8/15/2006 9:39	50.8	49.3
8/15/2006 9:39	42.7	49.3
8/15/2006 9:39	43.0	49.3
8/15/2006 9:40	40.8	49.3
8/15/2006 9:40	30.8	49.3
8/15/2006 9:40	22.7	48.6
8/15/2006 9:40	21.0	49.3

8/15/2006 9:41	21.0	49.3
8/15/2006 9:41	20.8	50.1
8/15/2006 9:41	22.7	51.0
8/15/2006 9:41	24.9	51.0
8/15/2006 9:42	34.9	51.8
8/15/2006 9:42	42.7	52.3
8/15/2006 9:42	44.9	53.0
8/15/2006 9:42	46.9	52.3
8/15/2006 9:43	50.8	52.3
8/15/2006 9:43	48.8	52.3
8/15/2006 9:43	50.8	52.3
8/15/2006 9:43	54.7	52.3
8/15/2006 9:44	56.9	51.5
8/15/2006 9:44	54.7	51.5
8/15/2006 9:44	54.7	52.3
8/15/2006 9:44	53.0	52.7
8/15/2006 9:45	46.9	52.7
8/15/2006 9:45	38.8	53.0
8/15/2006 9:45	34.7	52.7
8/15/2006 9:45	34.9	53.5
8/15/2006 9:46	31.0	53.2
8/15/2006 9:46	20.8	52.3
8/15/2006 9:46	14.9	51.8
8/15/2006 9:46	11.0	51.8
8/15/2006 9:47	10.7	51.5
8/15/2006 9:47	11.0	51.0
8/15/2006 9:47	12.7	50.5
8/15/2006 9:47	16.8	49.8
8/15/2006 9:48	22.7	49.3
8/15/2006 9:48	26.9	49.6
8/15/2006 9:48	28.8	49.1
8/15/2006 9:48	26.9	48.8
8/15/2006 9:49	24.9	48.6
8/15/2006 9:49	26.9	48.1
8/15/2006 9:49	23.0	48.1
8/15/2006 9:49	18.8	48.8
8/15/2006 9:50	14.9	48.8
8/15/2006 9:50	11.0	49.3
8/15/2006 9:50	8.8	48.8
8/15/2006 9:50	7.1	48.1
8/15/2006 9:51	6.8	47.9
8/15/2006 9:51	6.8	48.1
8/15/2006 9:51	4.9	48.1
8/15/2006 9:51	6.8	48.1
8/15/2006 9:52	4.9	48.6
8/15/2006 9:52	6.8	48.1
8/15/2006 9:52	8.8	47.6
8/15/2006 9:52	12.9	46.9
8/15/2006 9:53	16.8	47.6
8/15/2006 9:53	16.8	47.6
8/15/2006 9:53	19.0	47.6
8/15/2006 9:53	18.6	46.4
8/15/2006 9:54	18.8	45.9
8/15/2006 9:54	14.9	45.9

8/15/2006 9:54	12.9	45.9
8/15/2006 9:54	11.0	45.9
8/15/2006 9:55	8.8	45.4
8/15/2006 9:55	6.8	45.2
8/15/2006 9:55	4.9	45.2
8/15/2006 9:55	4.9	45.9
8/15/2006 9:56	4.9	45.2
8/15/2006 9:56	4.6	45.4
8/15/2006 9:56	6.6	44.7
8/15/2006 9:56	6.8	45.2
8/15/2006 9:57	8.8	44.7
8/15/2006 9:57	8.8	44.7
8/15/2006 9:57	11.0	44.0
8/15/2006 9:57	12.7	43.5
8/15/2006 9:58	16.8	43.5
8/15/2006 9:58	20.8	44.0
8/15/2006 9:58	23.0	44.0
8/15/2006 9:58	22.7	43.5
8/15/2006 9:59	16.8	43.5
8/15/2006 9:59	11.0	43.5
8/15/2006 9:59	9.0	42.7
8/15/2006 9:59	8.8	42.5
8/15/2006 10:00	8.8	42.2
8/15/2006 10:00	6.8	42.7
8/15/2006 10:00	6.8	42.7
8/15/2006 10:00	6.8	42.2
8/15/2006 10:01	6.8	42.2
8/15/2006 10:01	6.8	41.8
8/15/2006 10:01	6.8	41.8
8/15/2006 10:01	4.9	41.0
8/15/2006 10:02	6.8	41.0
8/15/2006 10:02	6.8	41.0
8/15/2006 10:02	6.8	41.8
8/15/2006 10:02	6.6	41.5
8/15/2006 10:03	6.8	41.8
8/15/2006 10:03	9.0	40.5
8/15/2006 10:03	12.9	40.5
8/15/2006 10:03	14.9	39.8
8/15/2006 10:04	16.8	39.8
8/15/2006 10:04	15.1	40.5
8/15/2006 10:04	14.9	40.5
8/15/2006 10:04	14.7	40.5
8/15/2006 10:05	14.9	40.5
8/15/2006 10:05	12.9	40.5
8/15/2006 10:05	8.8	39.8
8/15/2006 10:05	6.8	40.0
8/15/2006 10:06	4.9	40.0
8/15/2006 10:06	4.9	40.0
8/15/2006 10:06	4.9	39.8
8/15/2006 10:06	4.6	39.6
8/15/2006 10:07	4.9	39.3
8/15/2006 10:07	6.8	40.0
8/15/2006 10:07	6.8	40.0
8/15/2006 10:07	11.0	39.8

8/15/2006 10:08	12.7	40.5
8/15/2006 10:08	12.9	40.5
8/15/2006 10:08	14.9	39.8
8/15/2006 10:08	12.9	39.8
8/15/2006 10:09	12.9	39.8
8/15/2006 10:09	12.9	40.0
8/15/2006 10:09	11.0	32.7
8/15/2006 10:31	6.8	172.1
8/15/2006 10:31	6.8	114.5
8/15/2006 10:31	8.8	98.2
8/15/2006 10:31	8.8	91.3
8/15/2006 10:32	6.8	87.4
8/15/2006 10:32	6.8	85.9
8/15/2006 10:32	6.8	85.2
8/15/2006 10:32	6.6	84.5
8/15/2006 10:33	6.8	84.0
8/15/2006 10:33	6.8	84.0
8/15/2006 10:33	6.8	83.8
8/15/2006 10:33	6.8	84.5
8/15/2006 10:34	6.8	84.7
8/15/2006 10:34	8.8	84.5
8/15/2006 10:34	8.8	84.0
8/15/2006 10:34	8.8	83.8
8/15/2006 10:35	10.7	83.3
8/15/2006 10:35	11.0	82.3
8/15/2006 10:35	11.0	81.8
8/15/2006 10:35	10.7	81.1
8/15/2006 10:36	11.2	79.6
8/15/2006 10:36	15.1	78.6
8/15/2006 10:36	16.8	78.6
8/15/2006 10:36	16.8	78.4
8/15/2006 10:37	14.9	78.1
8/15/2006 10:37	12.7	78.1
8/15/2006 10:37	12.9	80.1
8/15/2006 10:37	14.9	83.3
8/15/2006 10:38	14.9	85.2
8/15/2006 10:38	12.9	84.5
8/15/2006 10:38	14.9	83.5
8/15/2006 10:38	12.9	82.3
8/15/2006 10:39	12.9	81.8
8/15/2006 10:39	12.9	81.1
8/15/2006 10:39	14.9	83.0
8/15/2006 10:39	12.9	84.0
8/15/2006 10:40	11.0	83.3
8/15/2006 10:40	10.7	81.1
8/15/2006 10:40	11.0	81.8
8/15/2006 10:40	8.8	82.3
8/15/2006 10:41	6.8	82.8
8/15/2006 10:41	8.8	83.0
8/15/2006 10:41	9.0	82.8
8/15/2006 10:41	8.8	82.3
8/15/2006 10:42	8.5	81.6
8/15/2006 10:42	6.8	79.8
8/15/2006 10:42	7.1	77.4

8/15/2006 10:42	4.9	74.7
8/15/2006 10:43	6.8	72.3
8/15/2006 10:43	6.8	71.3
8/15/2006 10:43	8.8	70.6
8/15/2006 10:43	8.8	70.6
8/15/2006 10:44	8.8	71.3
8/15/2006 10:44	10.7	72.8
8/15/2006 10:44	11.2	73.5
8/15/2006 10:44	13.2	72.0
8/15/2006 10:45	16.8	71.8
8/15/2006 10:45	18.8	72.3
8/15/2006 10:45	18.8	72.3
8/15/2006 10:45	18.8	73.0
8/15/2006 10:46	20.8	74.0
8/15/2006 10:46	18.8	74.5
8/15/2006 10:46	16.8	74.7
8/15/2006 10:46	14.9	75.2
8/15/2006 10:47	14.9	75.9
8/15/2006 10:47	12.9	77.6
8/15/2006 10:47	10.7	78.1
8/15/2006 10:47	10.7	78.6
8/15/2006 10:48	10.7	79.8
8/15/2006 10:48	11.0	80.1
8/15/2006 10:48	11.0	79.8
8/15/2006 10:48	11.0	80.6
8/15/2006 10:49	24.9	81.1
8/15/2006 10:49	44.9	81.6
8/15/2006 10:49	36.9	81.6
8/15/2006 10:49	26.9	81.6
8/15/2006 10:50	40.8	81.8
8/15/2006 10:50	211.0	82.3
8/15/2006 10:50	524.7	84.0
8/15/2006 10:50	1080.9	99.9
8/15/2006 10:51	1538.8	113.5
8/15/2006 10:51	1290.9	123.1
8/15/2006 10:51	667.1	123.6
8/15/2006 10:51	254.9	120.1
8/15/2006 10:52	97.4	116.5
8/15/2006 10:52	44.9	108.7
8/15/2006 10:52	30.8	102.3
8/15/2006 10:52	24.9	99.4
8/15/2006 10:53	23.0	95.7
8/15/2006 10:53	20.8	94.0
8/15/2006 10:53	29.1	92.3
8/15/2006 10:53	44.9	91.6
8/15/2006 10:54	73.0	91.8
8/15/2006 10:54	92.8	90.6
8/15/2006 10:54	103.0	90.1
8/15/2006 10:54	106.9	88.1
8/15/2006 10:55	106.9	86.9
8/15/2006 10:55	150.9	85.7
8/15/2006 10:55	204.9	85.9
8/15/2006 10:55	219.0	85.9
8/15/2006 10:56	214.9	84.0

8/15/2006 10:56	232.9	82.8
8/15/2006 10:56	240.8	83.0
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8/15/2006 10:57	154.8	83.0
8/15/2006 10:57	120.9	82.3
8/15/2006 10:57	118.9	82.3
8/15/2006 10:57	113.1	83.5
8/15/2006 10:58	92.8	84.7
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8/15/2006 10:58	83.0	85.2
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8/15/2006 11:01	98.9	91.3
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8/15/2006 11:02	128.9	93.0
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8/15/2006 11:03	125.0	94.5
8/15/2006 11:03	148.9	96.0
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8/15/2006 11:06	148.9	108.7
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8/15/2006 11:06	148.9	113.5
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8/15/2006 11:07	118.7	116.2
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8/15/2006 11:08	366.7	124.0
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8/15/2006 11:38	654.9	312.3
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8/15/2006 11:56	1188.9	470.5
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8/15/2006 12:06	1076.8	518.9
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8/15/2006 12:07	1012.8	521.1
8/15/2006 12:07	912.7	522.3
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8/15/2006 12:46	568.7	632.9
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8/15/2006 12:46	288.9	638.0
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8/15/2006 12:48	742.8	640.0
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8/15/2006 12:56	827.0	682.7
8/15/2006 12:56	642.9	686.9
8/15/2006 12:56	595.0	694.4
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8/15/2006 12:57	525.0	699.1
8/15/2006 12:57	484.9	696.4
8/15/2006 12:57	432.7	693.4
8/15/2006 12:57	402.9	690.5
8/15/2006 12:58	382.9	689.3
8/15/2006 12:58	382.6	692.7
8/15/2006 12:58	406.8	699.3
8/15/2006 12:58	398.7	701.7
8/15/2006 12:59	473.0	698.6
8/15/2006 12:59	554.8	696.9
8/15/2006 12:59	574.8	697.6
8/15/2006 12:59	548.9	700.0
8/15/2006 13:00	555.0	703.9
8/15/2006 13:00	530.8	706.9
8/15/2006 13:00	513.0	704.9
8/15/2006 13:00	566.7	700.5
8/15/2006 13:01	620.7	701.0
8/15/2006 13:01	644.9	706.9
8/15/2006 13:01	660.5	712.7
8/15/2006 13:01	676.8	714.9
8/15/2006 13:02	666.8	716.9
8/15/2006 13:02	743.0	719.1
8/15/2006 13:02	730.8	720.3
8/15/2006 13:02	704.4	718.8
8/15/2006 13:03	718.8	716.4
8/15/2006 13:03	616.8	716.4
8/15/2006 13:03	448.8	715.7
8/15/2006 13:03	344.8	714.4
8/15/2006 13:04	316.9	716.9
8/15/2006 13:04	316.7	720.1
8/15/2006 13:04	310.8	724.0
8/15/2006 13:04	348.7	724.0
8/15/2006 13:05	429.0	722.7
8/15/2006 13:05	538.9	725.7
8/15/2006 13:05	587.0	729.8
8/15/2006 13:05	578.9	731.0
8/15/2006 13:06	488.8	551.1
8/15/2006 13:06	247.1	379.7
8/15/2006 13:06	78.9	326.5
8/15/2006 13:06	33.0	309.9
8/15/2006 13:07	18.8	305.5
8/15/2006 13:07	11.0	300.3
8/15/2006 13:07	7.1	295.7
8/15/2006 13:07	4.9	295.0

8/15/2006 13:08	2.9	294.0
8/15/2006 13:08	3.2	295.7
8/15/2006 13:08	0.7	292.0
8/15/2006 13:08	0.7	291.5
8/15/2006 13:09	0.7	291.5
8/15/2006 13:09	1.0	288.6
8/15/2006 13:09	0.7	288.1
8/15/2006 13:09	1.0	287.4
8/15/2006 13:10	4.9	287.9
8/15/2006 13:10	8.8	289.8
8/15/2006 13:10	11.0	291.1
8/15/2006 13:10	14.9	292.8
8/15/2006 13:11	20.8	295.2
8/15/2006 13:11	27.1	296.2
8/15/2006 13:11	31.0	295.0
8/15/2006 13:11	30.8	294.0
8/15/2006 13:12	30.8	292.8
8/15/2006 13:12	29.1	292.8
8/15/2006 13:12	24.9	292.8
8/15/2006 13:12	24.9	294.0
8/15/2006 13:13	18.8	294.5
8/15/2006 13:13	12.9	295.7
8/15/2006 13:13	10.7	296.7
8/15/2006 13:13	10.7	296.7
8/15/2006 13:14	9.0	294.0
8/15/2006 13:14	4.9	290.3
8/15/2006 13:14	4.9	290.6
8/15/2006 13:14	2.9	292.5
8/15/2006 13:15	2.9	293.2
8/15/2006 13:15	2.9	292.3
8/15/2006 13:15	2.9	291.5
8/15/2006 13:15	0.7	291.5
8/15/2006 13:16	2.7	293.2
8/15/2006 13:16	4.9	296.2
8/15/2006 13:16	6.8	296.9
8/15/2006 13:16	8.8	295.2
8/15/2006 13:17	11.0	293.7
8/15/2006 13:17	12.9	295.0
8/15/2006 13:17	12.7	296.9
8/15/2006 13:17	12.7	297.9
8/15/2006 13:18	14.9	299.1
8/15/2006 13:18	14.9	298.6
8/15/2006 13:18	12.9	297.6
8/15/2006 13:18	12.9	296.7
8/15/2006 13:19	12.7	295.7
8/15/2006 13:19	12.7	294.5
8/15/2006 13:19	11.0	293.2
8/15/2006 13:19	12.9	295.0
8/15/2006 13:20	12.7	296.9
8/15/2006 13:20	12.7	296.9
8/15/2006 13:20	10.7	295.0
8/15/2006 13:20	12.9	295.0
8/15/2006 13:21	10.7	295.0
8/15/2006 13:21	10.7	295.7

8/15/2006 13:21	11.0	298.6
8/15/2006 13:21	11.0	301.6
8/15/2006 13:22	8.8	300.3
8/15/2006 13:22	9.0	297.4
8/15/2006 13:22	8.8	298.1
8/15/2006 13:22	8.8	299.8
8/15/2006 13:23	8.8	301.1
8/15/2006 13:23	8.8	300.3
8/15/2006 13:23	8.8	301.1
8/15/2006 13:23	8.8	301.6
8/15/2006 13:24	8.8	301.6
8/15/2006 13:24	8.8	299.8
8/15/2006 13:24	7.1	297.4
8/15/2006 13:24	9.0	297.2
8/15/2006 13:25	8.8	301.8
8/15/2006 13:25	6.8	304.0
8/15/2006 13:25	6.8	302.8
8/15/2006 13:25	6.8	300.8
8/15/2006 13:26	6.8	301.6
8/15/2006 13:26	6.8	302.8
8/15/2006 13:26	8.8	303.5
8/15/2006 13:26	10.7	303.5
8/15/2006 13:27	11.0	301.6
8/15/2006 13:27	10.7	299.8
8/15/2006 13:27	10.7	300.3
8/15/2006 13:27	10.7	303.3
8/15/2006 13:28	8.8	305.7
8/15/2006 13:28	9.0	306.2
8/15/2006 13:28	9.0	304.5
8/15/2006 13:28	8.8	301.8
8/15/2006 13:29	8.8	300.3
8/15/2006 13:29	8.8	300.3
8/15/2006 13:29	8.8	301.6
8/15/2006 13:29	9.0	302.3
8/15/2006 13:30	8.8	303.5
8/15/2006 13:30	9.0	305.2
8/15/2006 13:30	10.7	305.9
8/15/2006 13:30	12.7	304.5
8/15/2006 13:31	14.9	303.3
8/15/2006 13:31	12.9	304.0
8/15/2006 13:31	12.9	304.0
8/15/2006 13:31	12.7	305.5
8/15/2006 13:32	12.7	305.9
8/15/2006 13:32	11.0	301.6
8/15/2006 13:32	11.0	295.2
8/15/2006 13:32	10.7	291.5
8/15/2006 13:33	10.7	293.2
8/15/2006 13:33	10.7	296.2
8/15/2006 13:33	11.0	299.6
8/15/2006 13:33	11.0	302.0
8/15/2006 13:34	11.0	303.3
8/15/2006 13:34	10.7	304.0
8/15/2006 13:34	8.8	305.2
8/15/2006 13:34	6.8	305.7

8/15/2006 13:35	6.8	308.1
8/15/2006 13:35	6.8	310.6
8/15/2006 13:35	6.8	307.7
8/15/2006 13:35	6.8	302.3
8/15/2006 13:36	4.6	298.6
8/15/2006 13:36	4.9	299.4
8/15/2006 13:36	4.6	301.6
8/15/2006 13:36	4.9	303.5
8/15/2006 13:37	4.9	306.4
8/15/2006 13:37	2.7	307.7
8/15/2006 13:37	2.9	309.4
8/15/2006 13:37	4.9	309.9
8/15/2006 13:38	2.9	310.6
8/15/2006 13:38	2.9	310.3
8/15/2006 13:38	4.9	312.3
8/15/2006 13:38	4.6	314.0
8/15/2006 13:39	4.9	316.4
8/15/2006 13:39	4.9	317.7
8/15/2006 13:39	9.0	315.0
8/15/2006 13:39	11.0	309.9
8/15/2006 13:40	11.0	307.9
8/15/2006 13:40	12.9	311.6
8/15/2006 13:40	12.9	315.0
8/15/2006 13:40	12.9	315.7
8/15/2006 13:41	11.0	315.2
8/15/2006 13:41	12.9	315.0
8/15/2006 13:41	12.9	315.7
8/15/2006 13:41	12.9	316.9
8/15/2006 13:42	12.9	317.9
8/15/2006 13:42	12.9	318.2
8/15/2006 13:42	12.9	315.5
8/15/2006 13:42	12.9	314.5
8/15/2006 13:43	12.9	314.7
8/15/2006 13:43	12.9	317.4
8/15/2006 13:43	12.9	319.4
8/15/2006 13:43	12.9	319.9
8/15/2006 13:44	11.0	321.6
8/15/2006 13:44	8.8	323.3
8/15/2006 13:44	8.8	324.5
8/15/2006 13:44	8.8	324.0
8/15/2006 13:45	8.8	322.1
8/15/2006 13:45	6.8	322.3
8/15/2006 13:45	6.8	324.0
8/15/2006 13:45	6.8	326.5
8/15/2006 13:46	7.1	327.4
8/15/2006 13:46	6.8	326.2
8/15/2006 13:46	4.9	325.7
8/15/2006 13:46	4.9	327.2
8/15/2006 13:47	4.9	325.5
8/15/2006 13:47	4.9	322.1
8/15/2006 13:47	4.9	321.8
8/15/2006 13:47	4.9	324.0
8/15/2006 13:48	4.9	326.9
8/15/2006 13:48	4.9	328.4

8/15/2006 13:48	4.9	330.9
8/15/2006 13:48	2.9	333.3
8/15/2006 13:49	4.9	335.7
8/15/2006 13:49	4.9	338.4
8/15/2006 13:49	2.9	337.4
8/15/2006 13:49	2.9	331.8
8/15/2006 13:50	2.9	323.8
8/15/2006 13:50	2.9	321.6
8/15/2006 13:50	2.7	324.5
8/15/2006 13:50	2.9	326.9
8/15/2006 13:51	4.9	329.1
8/15/2006 13:51	4.6	331.1
8/15/2006 13:51	4.6	333.3
8/15/2006 13:51	4.6	335.2
8/15/2006 13:52	9.0	337.0
8/15/2006 13:52	12.9	339.4
8/15/2006 13:52	14.9	339.4
8/15/2006 13:52	16.8	338.2
8/15/2006 13:53	18.8	337.4
8/15/2006 13:53	16.8	339.4
8/15/2006 13:53	18.8	339.9
8/15/2006 13:53	21.0	338.7
8/15/2006 13:54	20.8	338.2
8/15/2006 13:54	20.8	339.6
8/15/2006 13:54	18.8	343.3
8/15/2006 13:54	14.9	345.7
8/15/2006 13:55	12.7	347.9
8/15/2006 13:55	11.0	347.9
8/15/2006 13:55	11.0	348.4
8/15/2006 13:55	8.8	350.6
8/15/2006 13:56	6.8	354.8
8/15/2006 13:56	4.9	357.5
8/15/2006 13:56	4.9	357.0
8/15/2006 13:56	4.9	354.0
8/15/2006 13:57	2.9	352.3
8/15/2006 13:57	2.9	349.9
8/15/2006 13:57	2.7	347.5
8/15/2006 13:57	2.9	345.5
8/15/2006 13:58	1.0	346.2
8/15/2006 13:58	0.7	347.0
8/15/2006 13:58	1.0	349.4
8/15/2006 13:58	1.0	349.7
8/15/2006 13:59	1.0	349.9
8/15/2006 13:59	1.0	348.2
8/15/2006 13:59	1.0	346.7
8/15/2006 13:59	0.7	345.3
8/15/2006 14:00	0.7	344.5
8/15/2006 14:00	0.7	344.0
8/15/2006 14:00	2.7	342.8
8/15/2006 14:00	4.9	341.8
8/15/2006 14:01	6.8	342.3
8/15/2006 14:01	9.0	342.3
8/15/2006 14:01	8.8	343.5
8/15/2006 14:01	8.8	344.0

8/15/2006 14:02	11.0	343.3
8/15/2006 14:02	14.7	344.5
8/15/2006 14:02	19.0	347.5
8/15/2006 14:02	20.8	352.3
8/15/2006 14:03	23.0	354.5
8/15/2006 14:03	26.9	355.3
8/15/2006 14:03	28.8	355.8
8/15/2006 14:03	28.8	357.5
8/15/2006 14:04	24.9	359.9
8/15/2006 14:04	21.0	361.6
8/15/2006 14:04	16.8	360.9
8/15/2006 14:04	12.9	359.2
8/15/2006 14:05	12.9	359.7
8/15/2006 14:05	10.7	360.2
8/15/2006 14:05	8.8	358.7
8/15/2006 14:05	6.8	356.0
8/15/2006 14:06	4.6	351.6
8/15/2006 14:06	2.9	347.5
8/15/2006 14:06	1.0	346.0
8/15/2006 14:06	0.7	347.5
8/15/2006 14:07	1.0	350.9
8/15/2006 14:07	1.2	356.2
8/15/2006 14:07	0.7	359.7
8/15/2006 14:07	0.7	360.4
8/15/2006 14:08	0.7	359.9
8/15/2006 14:08	0.7	360.4
8/15/2006 14:08	0.7	361.6
8/15/2006 14:08	0.7	362.8
8/15/2006 14:09	-1.0	362.6
8/15/2006 14:09	1.0	361.4
8/15/2006 14:09	0.7	358.7
8/15/2006 14:09	1.0	358.7
8/15/2006 14:10	2.9	361.6
8/15/2006 14:10	2.7	365.0
8/15/2006 14:10	7.1	369.2
8/15/2006 14:10	9.0	369.9
8/15/2006 14:11	10.7	368.7
8/15/2006 14:11	11.0	367.7
8/15/2006 14:11	12.9	368.5
8/15/2006 14:11	12.9	369.9
8/15/2006 14:12	11.0	369.4
8/15/2006 14:12	12.9	368.7
8/15/2006 14:12	12.9	366.7
8/15/2006 14:12	12.9	364.5
8/15/2006 14:13	12.9	361.6
8/15/2006 14:13	12.9	359.2
8/15/2006 14:13	13.2	358.2
8/15/2006 14:13	10.7	358.7
8/15/2006 14:14	12.9	359.2
8/15/2006 14:14	11.0	360.4
8/15/2006 14:14	9.0	361.1
8/15/2006 14:14	8.8	361.4
8/15/2006 14:15	8.8	362.8
8/15/2006 14:15	6.8	364.5

8/15/2006 14:15	6.8	367.5
8/15/2006 14:15	4.9	366.7
8/15/2006 14:16	4.9	366.3
8/15/2006 14:16	2.9	365.5
8/15/2006 14:16	2.7	365.3
8/15/2006 14:16	2.7	364.3
8/15/2006 14:17	2.9	366.3
8/15/2006 14:17	2.9	367.0
8/15/2006 14:17	2.7	366.5
8/15/2006 14:17	2.7	366.5
8/15/2006 14:18	2.9	367.0
8/15/2006 14:18	2.9	367.0
8/15/2006 14:18	2.9	367.7
8/15/2006 14:18	2.7	369.2
8/15/2006 14:19	2.7	370.2
8/15/2006 14:19	2.7	374.1
8/15/2006 14:19	2.9	376.5
8/15/2006 14:19	2.9	377.2
8/15/2006 14:20	2.9	373.8
8/15/2006 14:20	1.0	369.2
8/15/2006 14:20	0.7	367.5
8/15/2006 14:20	0.7	367.2
8/15/2006 14:21	0.7	367.5
8/15/2006 14:21	0.7	368.7
8/15/2006 14:21	1.0	369.4
8/15/2006 14:21	0.7	369.4
8/15/2006 14:22	1.0	368.9
8/15/2006 14:22	1.0	369.2
8/15/2006 14:22	0.7	369.4
8/15/2006 14:22	0.7	370.4
8/15/2006 14:23	0.7	369.4
8/15/2006 14:23	0.7	368.0
8/15/2006 14:23	0.7	366.7
8/15/2006 14:23	0.7	367.5
8/15/2006 14:24	2.9	368.0
8/15/2006 14:24	2.7	367.5
8/15/2006 14:24	4.9	368.0
8/15/2006 14:24	5.1	369.2
8/15/2006 14:25	4.6	369.9
8/15/2006 14:25	4.9	372.1
8/15/2006 14:25	4.9	374.6
8/15/2006 14:25	4.9	375.0
8/15/2006 14:26	4.9	374.6
8/15/2006 14:26	4.9	375.0
8/15/2006 14:26	4.9	376.3
8/15/2006 14:26	2.9	374.8
8/15/2006 14:27	4.9	375.8
8/15/2006 14:27	32.7	378.0
8/15/2006 14:27	993.0	379.9
8/15/2006 14:27	2000.2	381.6
8/15/2006 14:28	2000.2	387.3
8/15/2006 14:28	1591.0	392.4
8/15/2006 14:28	456.6	391.2
8/15/2006 14:28	112.8	385.8

8/15/2006 14:29	33.0	382.1
8/15/2006 14:29	10.7	378.7
8/15/2006 14:29	2.7	374.6
8/15/2006 14:29	4.6	371.6
8/15/2006 14:30	4.9	372.6

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/15/2006

	Method / Gas	10 / CO	10 / CO	6C / SO2	6C / SO2
	Source	PCC	PCC	PCC	PCC
Calibration Drift Check					
	Time	2:35 PM	2:35 PM	2:35 PM	2:35 PM
	Span	100	2000	100	1000
	Drift limit	< 3.0%	< 3.0%	< 3.0%	< 3.0%
Zero					
	Initial	0.6	0.6	0.2	0.5
	Final	0.1	0.25	0.2	0.4
	Average (C_o)	0.35	0.425	0.2	0.45
	Certified Value	0	0	0	0
	% Drift	-0.5%	0.0%	0.0%	0.0%
	% Sys. Bias	-0.4%	0.0%	0.0%	0.0%
Upscale (Cma)					
	Upscale Gas:	Mid	Mid	Mid	Mid
	Initial	55.1	1189	53.7	522
	Final	55	1191	55.1	524.3
	Average (C_m)	55.05	1190	54.4	523.15
	Certified Value	54	1189.8	53.7	521.4
	% Drift	-0.1%	0.1%	1.4%	0.2%
	% Sys. Bias	-0.2%	0.1%	1.9%	0.3%
Run Data Calculations					
	Number of Sample Points:	0	705	0	705
	Average Concentration (C):	#DIV/0!	271.61	#DIV/0!	293.45
	Drift Corrected Average (C_{gas})	#DIV/0!	271.23	#DIV/0!	292.27
	Maximum Concentration:	0.00	1322.92	0.00	419.97
	Minumum Concentration:	0.00	0.73	0.00	9.28

DATE	TIME	ppmvd	ppmvd	ppmvd	ppmvd
	8/16/2006 9:10		44.9274		9.27848
	8/16/2006 9:10		390.429		34.9164
	8/16/2006 9:10		864.607		78.6229
	8/16/2006 9:10		862.898		108.9
	8/16/2006 9:11		446.832		114.272
	8/16/2006 9:11		126.724		106.458
	8/16/2006 9:11		26.8587		96.9357
	8/16/2006 9:11		6.83677		89.3664
	8/16/2006 9:12		2.93005		79.8437
	8/16/2006 9:12		0.732511		70.5653
	8/16/2006 9:12		0.976682		62.7518
	8/16/2006 9:12		0.976682		56.1592
	8/16/2006 9:13		0.732511		49.8108
	8/16/2006 9:13		0.976682		42.974
	8/16/2006 9:13		2.93005		39.3114
	8/16/2006 9:13		2.68587		38.3348
	8/16/2006 9:14		2.93005		36.3814
	8/16/2006 9:14		4.88341		33.6955
	8/16/2006 9:14		4.88341		31.0096
	8/16/2006 9:14		7.08094		29.3005

8/16/2006 9:15	6.83677	27.1029
8/16/2006 9:15	6.83677	25.1496
8/16/2006 9:15	6.83677	23.4404
8/16/2006 9:15	6.83677	22.2195
8/16/2006 9:16	4.88341	21.7312
8/16/2006 9:16	4.88341	20.9987
8/16/2006 9:16	2.93005	19.7778
8/16/2006 9:16	2.93005	19.0453
8/16/2006 9:17	2.68587	19.2895
8/16/2006 9:17	2.68587	18.8011
8/16/2006 9:17	2.68587	18.8011
8/16/2006 9:17	0.976682	18.557
8/16/2006 9:18	2.68587	18.0686
8/16/2006 9:18	2.93005	18.3128
8/16/2006 9:18	2.93005	17.8244
8/16/2006 9:18	0.976682	18.0686
8/16/2006 9:19	2.93005	17.8244
8/16/2006 9:19	2.68587	18.3128
8/16/2006 9:19	2.93005	18.0686
8/16/2006 9:19	2.68587	18.0686
8/16/2006 9:20	4.88341	18.0686
8/16/2006 9:20	2.93005	18.0686
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8/16/2006 9:23	12.941	21.487
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8/16/2006 9:24	12.6969	22.952
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8/16/2006 9:24	12.941	26.8587
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8/16/2006 9:25	12.941	32.2305
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8/16/2006 9:26	12.6969	36.8697
8/16/2006 9:26	14.8944	37.6022
8/16/2006 9:26	20.7545	38.5789
8/16/2006 9:26	29.0563	39.7998
8/16/2006 9:27	36.8697	41.0206
8/16/2006 9:27	38.8231	42.2415
8/16/2006 9:27	39.0673	43.2182
8/16/2006 9:27	41.0206	44.6832
8/16/2006 9:28	40.7765	45.904
8/16/2006 9:28	44.9274	46.3924

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8/16/2006 9:29	46.8807	48.3457
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8/16/2006 9:33	36.8697	52.985
8/16/2006 9:33	36.8697	53.2292
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8/16/2006 11:04	52.7408	58.8451
8/16/2006 11:04	64.9493	58.6009
8/16/2006 11:05	80.8204	59.3334
8/16/2006 11:05	96.9357	59.3334
8/16/2006 11:05	120.864	59.8218

8/16/2006 11:05	144.793	60.0659
8/16/2006 11:06	164.815	60.5543
8/16/2006 11:06	188.744	61.0426
8/16/2006 11:06	202.906	62.2635
8/16/2006 11:06	202.906	62.996
8/16/2006 11:07	214.87	63.2401
8/16/2006 11:07	212.917	64.2168
8/16/2006 11:07	198.999	65.1935
8/16/2006 11:07	184.837	66.4144
8/16/2006 11:08	166.768	67.6352
8/16/2006 11:08	142.84	68.3677
8/16/2006 11:08	134.782	68.8561
8/16/2006 11:08	128.678	70.5653
8/16/2006 11:09	124.771	71.7861
8/16/2006 11:09	125.015	72.5186
8/16/2006 11:09	126.724	73.4953
8/16/2006 11:09	118.911	74.472
8/16/2006 11:10	116.958	75.2045
8/16/2006 11:10	128.678	76.4253
8/16/2006 11:10	128.678	77.1579
8/16/2006 11:10	120.864	78.1345
8/16/2006 11:11	123.062	78.867
8/16/2006 11:11	140.886	79.3554
8/16/2006 11:11	162.862	80.5762
8/16/2006 11:11	164.815	81.5529
8/16/2006 11:12	174.582	82.2854
8/16/2006 11:12	217.068	82.2854
8/16/2006 11:12	246.856	83.0179
8/16/2006 11:12	258.821	83.5063
8/16/2006 11:13	261.018	83.9946
8/16/2006 11:13	280.796	84.7271
8/16/2006 11:13	288.854	85.7038
8/16/2006 11:13	298.62	86.6805
8/16/2006 11:14	304.969	86.9247
8/16/2006 11:14	306.922	87.6572
8/16/2006 11:14	300.818	87.6572
8/16/2006 11:14	281.04	88.1455
8/16/2006 11:15	254.914	88.6339
8/16/2006 11:15	246.856	88.878
8/16/2006 11:15	254.67	89.3664
8/16/2006 11:15	252.716	89.8547
8/16/2006 11:16	238.799	90.5872
8/16/2006 11:16	230.741	90.5872
8/16/2006 11:16	230.985	91.0756
8/16/2006 11:16	226.834	91.8081
8/16/2006 11:17	220.974	92.2964
8/16/2006 11:17	194.848	92.7848
8/16/2006 11:17	156.757	94.0056
8/16/2006 11:17	136.98	94.7381
8/16/2006 11:18	132.829	94.0056
8/16/2006 11:18	132.829	94.0056
8/16/2006 11:18	128.678	94.7381
8/16/2006 11:18	140.886	95.7148
8/16/2006 11:19	152.851	96.2031

8/16/2006 11:19	172.873	96.2031
8/16/2006 11:19	212.917	96.9357
8/16/2006 11:19	236.845	97.424
8/16/2006 11:20	240.996	98.1565
8/16/2006 11:20	242.95	98.6449
8/16/2006 11:20	244.903	98.889
8/16/2006 11:20	274.936	99.3774
8/16/2006 11:21	304.969	99.8657
8/16/2006 11:21	340.862	99.8657
8/16/2006 11:21	356.977	100.598
8/16/2006 11:21	348.92	101.575
8/16/2006 11:22	356.733	102.307
8/16/2006 11:22	354.78	103.04
8/16/2006 11:22	312.782	103.528
8/16/2006 11:22	282.749	103.528
8/16/2006 11:23	282.505	104.261
8/16/2006 11:23	278.843	104.749
8/16/2006 11:23	232.939	105.97
8/16/2006 11:23	184.837	105.97
8/16/2006 11:24	156.757	106.458
8/16/2006 11:24	142.84	107.435
8/16/2006 11:24	126.724	108.9
8/16/2006 11:24	108.656	109.144
8/16/2006 11:25	110.853	109.144
8/16/2006 11:25	138.689	109.388
8/16/2006 11:25	166.768	110.365
8/16/2006 11:25	200.952	111.83
8/16/2006 11:26	260.774	112.807
8/16/2006 11:26	308.876	112.807
8/16/2006 11:26	308.876	113.295
8/16/2006 11:26	320.84	114.028
8/16/2006 11:27	332.804	114.516
8/16/2006 11:27	352.826	115.248
8/16/2006 11:27	362.837	116.469
8/16/2006 11:27	366.988	116.225
8/16/2006 11:28	374.802	116.225
8/16/2006 11:28	368.697	117.202
8/16/2006 11:28	340.862	117.446
8/16/2006 11:28	306.922	118.178
8/16/2006 11:29	256.867	118.911
8/16/2006 11:29	202.906	119.888
8/16/2006 11:29	164.815	120.376
8/16/2006 11:29	144.793	121.841
8/16/2006 11:30	140.886	121.353
8/16/2006 11:30	160.664	121.841
8/16/2006 11:30	172.873	122.818
8/16/2006 11:30	172.628	124.039
8/16/2006 11:31	186.79	124.527
8/16/2006 11:31	206.812	124.771
8/16/2006 11:31	216.823	124.527
8/16/2006 11:31	292.76	125.992
8/16/2006 11:32	406.788	127.701
8/16/2006 11:32	480.772	127.945
8/16/2006 11:32	482.237	129.41

8/16/2006 11:32	460.75	130.631
8/16/2006 11:33	422.659	130.631
8/16/2006 11:33	366.744	129.899
8/16/2006 11:33	336.711	131.12
8/16/2006 11:33	330.851	132.096
8/16/2006 11:34	284.703	133.317
8/16/2006 11:34	230.741	135.27
8/16/2006 11:34	202.661	136.003
8/16/2006 11:34	196.801	136.491
8/16/2006 11:35	196.801	136.247
8/16/2006 11:35	198.755	137.468
8/16/2006 11:35	192.895	138.2
8/16/2006 11:35	182.884	138.689
8/16/2006 11:36	176.779	138.689
8/16/2006 11:36	196.801	139.421
8/16/2006 11:36	222.683	140.398
8/16/2006 11:36	296.911	142.107
8/16/2006 11:37	390.673	142.107
8/16/2006 11:37	466.854	142.107
8/16/2006 11:37	494.933	144.061
8/16/2006 11:37	502.747	145.77
8/16/2006 11:38	506.409	147.479
8/16/2006 11:38	488.829	148.7
8/16/2006 11:38	460.75	149.188
8/16/2006 11:38	408.985	149.921
8/16/2006 11:39	308.876	150.653
8/16/2006 11:39	236.845	151.63
8/16/2006 11:39	209.01	152.118
8/16/2006 11:39	144.793	117.934
8/16/2006 11:50	278.843	148.7
8/16/2006 11:50	362.837	181.419
8/16/2006 11:50	386.766	192.895
8/16/2006 11:50	390.673	199.487
8/16/2006 11:51	386.766	202.906
8/16/2006 11:51	394.579	206.812
8/16/2006 11:51	370.407	209.498
8/16/2006 11:51	402.881	211.696
8/16/2006 11:52	470.761	213.405
8/16/2006 11:52	493.224	215.847
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8/16/2006 11:54	714.931	239.775
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8/16/2006 11:55	404.835	248.81
8/16/2006 11:55	414.846	251.007
8/16/2006 11:56	426.81	253.937

8/16/2006 11:56	410.695	256.867
8/16/2006 11:56	402.881	259.309
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8/16/2006 11:57	446.832	264.192
8/16/2006 11:57	523.013	264.437
8/16/2006 11:57	562.813	265.902
8/16/2006 11:57	570.87	268.099
8/16/2006 11:58	595.043	269.076
8/16/2006 11:58	714.931	271.029
8/16/2006 11:58	792.821	273.471
8/16/2006 11:58	785.008	275.668
8/16/2006 11:59	800.635	276.889
8/16/2006 11:59	827.005	277.622
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8/16/2006 12:00	832.865	285.679
8/16/2006 12:00	904.896	287.633
8/16/2006 12:00	984.739	289.83
8/16/2006 12:01	904.896	291.784
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8/16/2006 12:01	742.766	292.76
8/16/2006 12:01	754.731	292.76
8/16/2006 12:02	754.731	294.714
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8/16/2006 12:02	326.944	295.202
8/16/2006 12:02	198.755	292.028
8/16/2006 12:03	160.908	289.83
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8/16/2006 12:03	264.925	288.365
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8/16/2006 12:04	468.807	290.319
8/16/2006 12:04	496.887	291.051
8/16/2006 12:04	486.632	292.272
8/16/2006 12:05	466.854	292.516
8/16/2006 12:05	438.774	293.981
8/16/2006 12:05	492.98	296.179
8/16/2006 12:05	572.824	299.109
8/16/2006 12:06	608.961	301.062
8/16/2006 12:06	618.972	303.016
8/16/2006 12:06	600.903	303.992
8/16/2006 12:06	598.95	305.701
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8/16/2006 12:07	424.857	314.003
8/16/2006 12:08	372.848	315.712
8/16/2006 12:08	352.826	317.422
8/16/2006 12:08	316.933	320.596
8/16/2006 12:08	284.947	323.282
8/16/2006 12:09	288.854	325.723
8/16/2006 12:09	294.958	327.433
8/16/2006 12:09	300.818	329.386

8/16/2006 12:09	288.854	332.072
8/16/2006 12:10	286.9	335.002
8/16/2006 12:10	318.887	336.467
8/16/2006 12:10	434.868	338.909
8/16/2006 12:10	522.769	341.839
8/16/2006 12:11	556.953	345.257
8/16/2006 12:11	556.953	346.478
8/16/2006 12:11	528.873	347.699
8/16/2006 12:11	513.002	351.361
8/16/2006 12:12	510.805	354.78
8/16/2006 12:12	506.898	355.756
8/16/2006 12:12	490.538	356.489
8/16/2006 12:12	452.448	358.198
8/16/2006 12:13	462.703	360.396
8/16/2006 12:13	482.725	362.837
8/16/2006 12:13	522.769	366.744
8/16/2006 12:13	496.887	370.407
8/16/2006 12:14	449.029	373.337
8/16/2006 12:14	428.519	374.069
8/16/2006 12:14	428.763	374.069
8/16/2006 12:14	412.892	375.29
8/16/2006 12:15	396.777	378.464
8/16/2006 12:15	384.813	382.127
8/16/2006 12:15	382.859	385.057
8/16/2006 12:15	402.881	387.498
8/16/2006 12:16	536.931	389.452
8/16/2006 12:16	630.692	390.917
8/16/2006 12:16	678.794	393.847
8/16/2006 12:16	692.956	397.998
8/16/2006 12:17	708.827	400.684
8/16/2006 12:17	686.851	401.416
8/16/2006 12:17	664.876	403.858
8/16/2006 12:17	654.865	406.788
8/16/2006 12:18	630.936	410.45
8/16/2006 12:18	586.986	415.09
8/16/2006 12:18	560.127	418.264
8/16/2006 12:18	488.829	419.973
8/16/2006 12:19	402.881	420.95
8/16/2006 12:19	356.977	423.147
8/16/2006 12:19	328.898	425.345
8/16/2006 12:19	293.005	428.519
8/16/2006 12:20	322.793	431.693
8/16/2006 12:20	362.837	435.112
8/16/2006 12:20	480.772	438.042
8/16/2006 12:20	670.736	441.704
8/16/2006 12:21	802.832	443.169
8/16/2006 12:21	814.797	444.879
8/16/2006 12:21	814.797	445.611
8/16/2006 12:21	786.961	448.053
8/16/2006 12:22	758.882	452.936
8/16/2006 12:22	756.684	457.575
8/16/2006 12:22	784.764	460.017
8/16/2006 12:22	730.802	460.017
8/16/2006 12:23	598.706	462.215

8/16/2006 12:23	514.955	467.098
8/16/2006 12:23	496.887	468.807
8/16/2006 12:23	482.725	470.272
8/16/2006 12:24	432.67	471.737
8/16/2006 12:24	378.708	474.667
8/16/2006 12:24	362.837	475.156
8/16/2006 12:24	392.87	476.621
8/16/2006 12:25	434.868	478.574
8/16/2006 12:25	462.947	482.237
8/16/2006 12:25	554.755	484.434
8/16/2006 12:25	810.89	488.097
8/16/2006 12:26	993.041	491.515
8/16/2006 12:26	1067.02	493.224
8/16/2006 12:26	1099.01	492.98
8/16/2006 12:26	1068.98	494.201
8/16/2006 12:27	884.874	495.178
8/16/2006 12:27	718.838	496.398
8/16/2006 12:27	696.862	496.887
8/16/2006 12:27	712.978	500.549
8/16/2006 12:28	659.016	502.747
8/16/2006 12:28	496.887	502.259
8/16/2006 12:28	362.837	502.259
8/16/2006 12:28	316.933	504.456
8/16/2006 12:29	304.725	508.119
8/16/2006 12:29	356.977	506.654
8/16/2006 12:29	514.711	504.7
8/16/2006 12:29	584.788	505.921
8/16/2006 12:30	592.602	510.316
8/16/2006 12:30	640.703	515.444
8/16/2006 12:30	853.131	515.688
8/16/2006 12:30	1214.99	515.444
8/16/2006 12:31	1569.04	516.42
8/16/2006 12:31	1472.84	520.571
8/16/2006 12:31	1085.09	522.281
8/16/2006 12:31	838.97	520.571
8/16/2006 12:32	720.791	520.327
8/16/2006 12:32	602.857	523.013
8/16/2006 12:32	468.807	524.234
8/16/2006 12:32	386.766	524.722
8/16/2006 12:33	370.895	525.211
8/16/2006 12:33	382.859	526.187
8/16/2006 12:33	410.939	527.408
8/16/2006 12:33	526.92	530.582
8/16/2006 12:34	756.928	532.536
8/16/2006 12:34	928.824	533.512
8/16/2006 12:34	986.937	534.489
8/16/2006 12:34	1013.06	538.884
8/16/2006 12:35	994.995	540.105
8/16/2006 12:35	968.868	540.105
8/16/2006 12:35	954.951	541.57
8/16/2006 12:35	850.934	544.744
8/16/2006 12:36	706.629	545.477
8/16/2006 12:36	666.829	545.233
8/16/2006 12:36	626.785	547.674

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1.0 INTRODUCTION

1.1 PROJECT OVERVIEW

Owens Corning has contracted Conestoga-Rovers & Associates, Inc. (CRA) to conduct a compliance emission test program at the Owens Corning Medina, Ohio, roofing products plant. The objective of this test program is to demonstrate compliance with the facilities MACT requirements, 40 CFR Part 63, Subpart LLLLL.

Emission testing at the facility on all sites took place on August 15 - August 22, 2006.

1.2 TEST PROGRAM ORGANIZATION

The primary contacts for this project are as follows:

Owens Corning's contact is:
Mr. Roy Owens
Owens Corning Granville Science & Technology Center
2790 Columbus Road
Granville, OH 43023
Phone: 740-321-6863

Owens Corning's Plant Contact is:
Mr. Brian Thomas
Owens Corning Roofing Plant
870 West Smith Road
Medina, OH 44256-2483

CRA's Project Manager is:
Mr. Michael Tahirak
CRA, Inc.
2371 George Urban Blvd.
Depew, NY 14043
Phone: (716) 206-0202 ext 205
Fax: (716) 206-0201

CRA's Field Team Leader is:
Mr. Steven Culmo
CRA, Inc.
2371 George Urban Blvd.
Depew, NY 14043
Phone: (716) 206-0202 ext 201
Fax: (716) 206-0201

1.3 SOURCE DESCRIPTION

The plant manufactures asphalt products. Multiple sites were tested. Sites include:

1. The PCC Incinerator which includes sources:
   A. P006
   B. P007
   C. J005
   D. T027

2. The John Zinc Incinerator which includes sources:
   A. P003
   B. P004
   C. P005
   D. T008
   E. T009
   F. T031
   G. T026

3. Asphalt Truck Loading Rack which includes source:
   A. J003

4. Holding Tanks which include sources:
   A. T008
   B. T009
   C. T023
   D. T024
   E. T025
   F. T026
   G. T027

H. T030
I. T031
J. T040
K. T041
L. T042
M. T045

* It should be noted that the list of tanks was revised/changed once on site due to the way the tanks vented...clusters of tanks often vented to a single vent.

1.4 TEST PLAN

Testing was conducted according to United States Environmental Protection Agency (USEPA) Reference Methods (RM) outlined in Title 40 of the Code of Federal Regulations, Part 60 (40 CFR 60), Appendix A. A summary of the test program is presented in Tables 1.1 to 1.4. Copies of the Ohio EPA Intent to Test forms (ITT) are included in Appendix E.

1.5 OBJECTIVE

The objective of this test program was to determine the emission rate of various pollutants from the multiple sites. Pollutants include particulate matter, filterable and total, (PM), carbon monoxide (CO), volatile organic compounds (VOC), hydrogen sulfide (H2S), sulfur dioxide (SO2), and visible emissions (VE). Copies of all applicable plant data will be included in Appendix F.

2.0 SAMPLING AND ANALYTICAL PROCEDURES

This section provides a brief overview of the specific test methods that were used to determine the emission rates. All test methods were performed in accordance with the Reference Methods (RMs) provided in 40 CFR 60 Appendix A. Details of each method are given in the following sections. Copies of all field spreadsheets and data sheets can be found in Appendix B.

2.1 TEST SITE DESCRIPTION AND SAMPLING PORT LOCATION

Representative measurement of pollutant emissions and total volumetric flow rate from a stationary source requires a measurement site where the effluent stream is flowing in a known direction and cyclonic flow conditions are not present.

According to RM 1, the cross section of the stack is divided into equal areas and a traverse point is then located within each of these areas. The number of duct diameters upstream and downstream from the test location to a flow disturbance determines the number of traverse points in a cross section.

Table 2.1 lists diameters and configurations of the stacks tested.

2.2 STACK GAS VELOCITY AND VOLUMETRIC FLOW RATE (RM 2)

According to RM 2, the gas velocity in a stack is determined from the average velocity head with a type-S pitot tube, gas density, stack temperature, and stack pressure.

The average velocity head is determined using an inclined manometer and a type-S pitot tube with a known coefficient of 0.84 that is determined geometrically by standards set forth in RM 2. Stack temperature is taken at each traverse point using a type-K thermocouple. Static pressure is determined using a straight tap and an inclined manometer. A copy of the CRA field operating procedure for RM 2 is included in Appendix A.

2.3 GAS ANALYSIS FOR CO_2, AND O_2 (RM 3)

A gas sample is collected according to the analytical method detailed in RM 3. A minimum of 3 grab samples per hour of testing will be obtained. Each sample will be analyzed using a Fyrite Gas Analyzer for CO_2 and O_2. The CRA-E_3 field operating procedure for RM 3 can be found in Appendix A.

2.4 MOISTURE DETERMINATION (RM 4)

The determination of effluent moisture is performed as part of each isokinetic sample train where appropriate; otherwise a separate RM 4 train will be run. The CRA field operating procedure for RM 4 is included in Appendix A.

2.5 PARTICULATE MATTER DETERMINATION (RM 5A/202)

Filterable and Total PM in the exhaust stream was collected isokinetically following the procedures outlined in RM 5A. This method incorporates gas velocity and volumetric flow measurement (RM 2) and moisture content measurement (RM 4). PM was analyzed gravimetrically utilizing the procedures in RM 5A for the filterable portion, and RM 202 for the total portion. The runs performed at the two sites lasted for the length of the asphalt blow. The CRA field operating procedure for RM 5A/202 is included in Appendix A.

2.6 SULFUR DIOXIDE (RM 6C)

SO2 concentrations were measured according to RM 6C. A UV analyzer was utilized. SO2 analysis was continuous with one-minute average concentrations recorded on a data acquisition system (DAS). The analyzer operating range was appropriate for the range expected. The CRA field procedure for RM 6C is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from nitrogen and a USEPA Protocol gas.

2.7 OXIDES OF NITROGEN EMISSIONS (RM7E)

NOx concentrations were measured according to RM 7E. A Horiba CLA-510SS chemiluminescent analyzer was utilized. NOx analysis was continuous with one-minute average concentrations recorded on a data acquisition system (DAS). The analyzer operating range was appropriate for the range expected.

Individual gas concentrations were produced with a Horiba SGD-710 gas divider.

The CRA field procedures for RM 7E is included in Appendix A.

2.8 OPACITY (RM 9)

VE observations were performed according to RM 9. Three, 60-minute observations were performed at each site requiring VEs. The CRA field procedure for RM 9 is included in Appendix A.

2.9 CARBON MONOXIDE (RM10)

CO concentrations were measured according to RM 10. A Horiba Model VIA 510 NDIR analyzer was used. CO analysis was continuous with one-minute average concentrations recorded on a DAS. The analyzer operating range was appropriate for the range expected. The CRA field procedure for RM 10 is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from nitrogen and a USEPA Protocol gas.

2.10 HYDROGEN SULFIDE (RM16)

H2S concentrations were measured according to RM 16. An in-field gas chromatograph (GC) with a flame photometric detector (FPD) was used to determine H2S concentrations utilizing direct injection. Copies of all field and laboratory data are included in Appendix D.

2.11 VOLATILE ORGANIC COMPOUNDS (RM 25A)

VOC concentrations were measured according to RM 25A. VOC concentrations were measured according to RM 25A. For VOC sampling, a JUM Model 109A Total Non-methane Hydrocarbon analyzer was used to measure VOCs as total non-methane hydrocarbons (TNHC). For THC sampling a JUM VE-7 THC Analyzer was used. VOC and THC analysis will be continuous with one-minute average concentrations recorded on a DAS. The analyzer's operating range will be appropriate for the range expected. The CRA field procedure for RM 25A is included in Appendix C.

A Horiba GDS model SGD-710 was used to generate appropriate calibration gas concentrations from zero grade nitrogen and USEPA Protocol gas.

3.0 QUALITY ASSURANCE AND QUALITY CONTROL

The test program was designed and implemented with emphasis on completeness and data quality. Comprehensive QA/QC is built into CRA's program to ensure data collection is of known precision and accuracy and is complete, representative, and comparable. Data comparability is achieved by the use of standard units of measure as specified by the test methods.

3.1 EQUIPMENT AND SAMPLING PREPARATION

Sampling equipment is cleaned and functions are checked and calibrated prior to use in the field. Each parameter sampling method requires specific cleaning methods of the glassware, train components, and recovery containers. These materials are then sealed prior to shipment to the field.

The QA/QC procedures for sampling operations include performing leak checks before and after each sample run. These are performed on all train components including vacuum sample trains, pitot lines, and gas bag systems. If pre-test leak checks do not meet the criteria, the trains are adjusted to do so. Post-test leak checks are mandatory, performed, and recorded on field data sheets.

3.2 LEAK CHECKS

3.2.1 ISOKINETIC AND NON-ISOKINETIC TRAINS

Both pre- and post-run leak checks are conducted. A pre-test leak check is performed to verify integrity of the vacuum system. A leak check is mandatory at the conclusion of each isokinetic sampling run. The leak check is conducted in accordance with the procedures outlined in RM 5, Section 4.1.4.1, except that it is conducted at a vacuum equal to or greater than the maximum value reached during the sampling run. If the leakage rate is found to be no greater than 0.02 cubic feet per minute (cfm), the results are acceptable and no correction is applied to the total volume of dry gas metered.

3.2.2 PITOT LEAK CHECK

The pitot tubes used during the test program are leak checked prior to the test series and following each traverse set. The leak check is performed by placing flexible tubing over one side of the pitot tube tip. The tubing is pinched off when the pitot is pressurized to greater than 3 inches of water. No loss of pressure for 15 seconds indicates a successful leak check. This procedure is repeated for the other side of the pitot tube as well.

3.3 CALIBRATIONS

All affected equipment used for measuring in the stack was calibrated within 60 days of the scheduled testing. All calibration data was available on site. Copies of all calibration data is included in Appendix C.

3.3.1 METER BOX CALIBRATION

Following the procedures outlined in EPA Method 5, Section 5.3.1, a standard dry gas meter is substituted for a wet test meter per EPA Method 5, Section 7.1. Primarily, the meter calibration factors (Y and ΔH@) are determined at multipoint calibration runs at a variety of flow rates. Factors calculated at the individual runs must agree within 2% of each other. The factors are then averaged and that average is posted on the meter box.

After each field sampling project, a post-test calibration is made. This consists of three calibration runs at the average sampling rate seen for that project. The factors calculated from the three individual runs must agree to within 2% of each other and are averaged. That average must agree to within 5% of the factor posted on the meter box.

3.3.2 PITOT CALIBRATION

Pitot tubes are calibrated following the procedures outlined in EPA Method 2, Section 4. Pitot tubes were given a baseline coefficient when they meet certain geometrically measured angles and dimensions as set forth in the method.

3.3.3 THERMOCOUPLE CALIBRATION

Thermocouples are calibrated according to the *Approved Alternative Method (ALT-011), Alternative Method 2 Thermocouple Calibration Procedure.* This alternative method utilizes single-point calibration procedure at room temperature.

3.3.4 BAROMETER CALIBRATION

Prior to being sent in the field CRA's barometer is compared to the barometer from the National Weather Service (NWS) located at the Buffalo Niagara International Airport. If the CRA barometer disagrees by more than ±2.3 mm (0.1 in.) of Hg from the barometer located at the airport, the CRA barometer is adjusted until it agrees with the NWS barometer.

CRA and the NWS elevations are within ten feet of each other, thus eliminating the need for any elevation correction.

When in the field, barometer readings are taken from the CRA barometer. At the conclusion of fieldwork, the barometer is brought back, checked against the NWS barometer, and corrected if necessary. Readings taken in the field are corrected based on the degree of error between the CRA barometer and the NWS barometer.

3.4. CEMS SAMPLING PERFORMANCE SPECIFICATIONS

The CEMs sampling QA/QC activities consists of the following:

3.4.1 CALIBRATION ERROR (CE) TEST

The CE tests were accomplished following the procedures outlined in 3A and 6C, by first introducing the zero calibration gas and adjusting the instrument to read zero. Next, the high span gas was introduced, and the analyzer's response was adjusted to match this calibration gas certified concentration. Next, the low and mid (as applicable) calibration gases were introduced, and the analyzer's response must be within the appropriate error limits.

3.4.2 POST-TEST DRIFT CHECK

Following the procedures outlined in RM 6C, 10, and 25A, a post-test drift check was performed immediately following the sample run. The zero gas was introduced into the system, and the monitor's response was recorded. The span was drift checked in the same manner.

3.5 DATA REDUCTION

The QA/QC procedure for data reduction includes using computer spreadsheet programs to generate tables of results. Data input files and equations are double-checked by a second person, and tables are checked for transposition errors with spot calculations being performed by hand.

4.0 RESULTS

Summary tables of all results are included as Tables 4.1 to 4.4.

TABLE 1.1

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
PCC INCINERATOR

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Gas Flow Rate	RM 1&2	Outlet	3	n/a	
Gas Molecular Weight CO_2 & O_2	RM 3	Outlet	N/A	Grab	
PM	RM 5A/202	Outlet	3	Length of Blow	
SO2	RM 6C	Outlet	3	Length of Blow	
NOx	RM 7E	Outlet	3	Length of blow	
Opacity	RM 9	Outlet	3	60 minutes	
CO	RM 10	Outlet	3	Length of Blow	
H_2S	RM 16	Outlet	3	Length of Blow	
THC & VOC	RM 25A	Inlet/Outlet	3	Length of Blow	JUM 109A to be used at outlet, VE-7 at inlet, with bags collected at inlet to be analyzed on 109A for VOC

TABLE 1.2

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
JOHN ZINC INCINERATOR

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Gas Flow Rate	RM 1&2	Outlet	3	Length of Blow	
Gas Molecular Weight	RM 3	Outlet	N/A	Grab	
Particulate Matter	RM 5A/202	Outlet	3	Length of Blow	
THC & VOC	RM 25A	Inlet/Outlet	3	Length of Blow	Using JUM 109A at the outlet, JUM VE-7 at inlet, collecting bags at inlet for analysis with 109A for VOC

TABLE 1.3

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
LOADING RACK

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
THC	RM25A	Inlet/Outlet	3	60 minutes	

TABLE 1.4

TEST SUMMARY
OWENS CORNING, MEDINA ASPHALT PLANT
STORAGE TANKS

Parameter	*Test Method*	*Location*	*No. of Test Runs*	*Run Duration*	*Comments*
Opacity	RM 9	outlet	3	60 minutes	

TABLE 2.1

TEST SITE SUMMARY
OWENS CORNING
MEDINA ROOFING PLANT
MEDINA, OHIO

Stack ID	*Stack Shape*	*Stack Orientation*	*Stack Diameter (inches)*	*Inlet*	*Outlet*
PCC Incinerator	Circular	Vertical	23	x	
PCC Incinerator	Circular	Vertical	56″		X
John Zinc Incinerator	Circular	Vertical	22.5″	x	
John Zinc Incinerator	Circular	Vertical	37.5″		X
Truck Loading Rack				x	
Truck Loading Rack	Circular	Vertical	9″		x

*Site known not to meet EPA RM1 minimum requirements

Table 4.1
Summary of Results Versus Permit Limits
Owens Corning Medina Asphalt Plant

Site	*Parameter*	*Test Results (lbs/hr)*	*Permit Limit (lbs/hr)*	*VOC DE (%)*
PCC Incinerator	PM10	2.05	12.75	
	NOx	2.24	7.43	
	SO2	8.80	58.7	
	CO	7.53	36.69	
	H2S	0.122	0.43	
	Total Hydrocarbons	0.046	23.39	99.94
	Total VOC's	0.033		99.96
John Zinc Incinerator	PM10	3.72	24.64	
	Total Hydrocarbons	0.027	2.23	99.96
	Total VOC's	0.015		99.98
Truck Loading Rack	Total Hydrocarbons			96.30

Table 4.2
Summary of Results
PCC Incinerator
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Stack Temp (Deg F)*	*Moisture (%)*	*Actual Flowrate (ACFM)*	*Dry Standard Flowrate (DSCFM)*	*PM10 Emissions (lbs/hr)*	*NOx Emissions (lbs/hr)*
8/15/2006	1	9:10	14:30	521	12.4	19,160	9,060	3.11	2.39
8/16/2006	2	9:10	14:10	558	12.7	18,410	8,360	2.00	2.08
8/17/2006	3	8:28	16:56	518	12.1	18,840	8,940	1.04	2.24
	Avg			532	12.4	18,803	8,787	2.05	2.24

	CO Results (lbs/hr)	*SO2 Results (lbs/hr)*	*H2S Results*		*Total Hydrocarbons Results (lbs/hr)*			*Opacity Results (%)*
			(ppmvd)	*(lbs/hr)*	*Inlet*	*Outlet*	*DE (%)*	
1	11.09	11.05	6.800	0.327	87.3	0.035	99.96	0
2	9.88	10.64	0.595	0.026	82.5	0.072	99.91	0
3	1.62	4.71	< 0.25	< 0.012	71.8	0.032	99.96	0
Avg.	7.53	8.80	2.55	0.122	80.533	0.046	99.94	0

Table 4.3
Summary of Results
John Zinc Incinerator
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Stack Temp (Deg F)*	*Moisture (%)*	*Actual Flowrate (ACFM)*	*Dry Standard Flowrate (DSCFM)*	*PM10 Results (lbs/hr)*
8/18/2006	1	8:36	16:16	1000	13.1	18,910	5,940	3.38
8/19/2006	2	7:54	15:01	1097	14.3	19,040	5,530	4.82
8/21/2006	3	7:47	15:06	1020	12.5	19,010	5,950	2.96
	Avg			**1039**	**13.3**	**18,987**	**5,807**	**3.72**

	Total Hydrocarbons Results (lbs/hr)			*Opacity Results (%)*
	Inlet	*Outlet*	*DE (%)*	
1	74.4	0.033	99.96	< 1
2	69.6	0.018	99.97	< 0
3	75.9	0.031	99.96	< 1
Avg.	**73.3**	**0.027**	**99.963**	**< 1**

Table 4.4
Summary of Results
Truck Loading Rack
Owens Corning Medina Asphalt Plant

Test Date	*Run*	*Start Time*	*Stop Time*	*Total Hydrocarbons Results (lbs/hr)*		
				Inlet	*Outlet*	*DE (%)*
8/22/2006	1	8:35	9:55	1.62	0.041	97.5
8/22/2006	2	10:43	12:43	1.59	0.066	95.8
8/22/2006	3	15:04	16:36	2.72	0.120	95.6
	Avg			**1.98**	**0.076**	**96.30**

Table 4.5
Summary of Results
Tank Visible Emissions
Owens Corning Medina Asphalt Plant

Source	*Highest 6-Minute Opacity Average (%)*
Tanks 008, 009, 026	< 1
Tanks 023, 024, 025	0
Tanks 030, 031	< 1
Tanks 026, 027	0
Tanks 040, 041, 042	0
Tank 045	0

APPENDIX A

CRA FIELD OPERATING PROCEDURES

FIELD PROCEDURE - REFERENCE METHOD 1 (001)
Test Procedures

A. **Applicability**

The purpose of the method is to provide guidance for the selection of sampling ports and traverse points at which sampling for air pollutants will be performed.

B. **Procedures**

1. Sample/velocity measurements are performed at least 8 stack diameters downstream and two diameters upstream from any flow disturbance. (*Alternative methods are available if this criteria cannot be met).
2. Traverse Points (*May not be applicable, Refer to protocol).
   a. 12 points for circular ducts greater than 24 in.
   b. 8 points for circular ducts between 12 and 24 in.
   c. 9 for rectangular diameters between 12 and 24 in.
3. Refer to appropriate tables and figures in the Reference Method to determine exact location of points.
4. Cyclonic Flow Determination
   a. Level and zero the manometer.
   b. Connect S-type pitot to the manometer and leak-check the system.
   c. Note the differential pressure (delta p) at each traverse point when the pitot is at zero degrees reference angle.
   d. Record the rotational angle of the pitot used to obtain zero degrees reference.
   e. If the overall angle is greater than 20 degrees the conditions are unacceptable and an alternative method must be used.

C. **References**

1. Title 40 of Code of Federal Regulations, Part 60 Appendix A

FIELD PROCEDURE - REFERENCE METHOD 2 (002)
Test Procedures

A. Applicability

This method is applicable for the measurement of the average velocity of a gas stream and for quantifying gas flow.

B. Preliminary Determinations

1. Select the sampling site and the number of sampling points according to USEPA Reference Method 1.
2. Set up pitot tube/manometer apparatus.

C. Procedures

1. Set Up
   a. Connect positive leg of pitot tube (impact opening) to inclined side of inclined manometer.
   b. Connect negative leg of pitot tube (static pressure side) to straight side of inclined manometer.
   c. Level and zero manometer. Because the manometer level and zero may drift due to vibrations and temperature changes, make periodic checks during the traverse.
2. Pre-Test Leak Check
   a. Blow through pitot tube impact opening until at least 3 in. H_2O velocity pressure registers on the manometer. Immediately close off the impact opening.
   b. Observe pressure. The pressure shall remain stable for at least 15 seconds.
   c. On static pressure side of pitot tube, use suction until at least 3 in. H_2O vacuum registers on the manometer. Immediately close off the static opening.
   d. Observe pressure. The pressure shall remain stable for at least 15 seconds.
3. Measurement at Each Traverse Point
   a. Record differential pressure (Δp) reading and stack temperature.
   b. All data in the field will be recorded on a spreadsheet electronically.
4. Post-Test Leak Check
   a. Blow through pitot tube impact opening until at least 3 in. H_2O velocity pressure registers on the manometer. Immediately close off the impact opening.
   b. Observe pressure. The pressure shall remain stable for at least 15 seconds.
   c. On static pressure side of the pitot tube, use suction until at least 3 in. H_2O vacuum registers on the manometer. Immediately close off the static opening.
   d. Observe pressure. The pressure shall remain stable for at least 15 seconds.

FIELD PROCEDURE - REFERENCE METHOD 2 (002)
Test Procedures

5. Static Pressure Check

   a. Rotate pitot tube until both pitot tube openings are perpendicular to the direction of flow.

   b. Detach negative side of pitot tube from manometer, then record the reading on the manometer.

   c. Record the atmospheric pressure from a barometer.

6. References

   a. Title 40 of Code of Federal Regulations, Part 60 Appendix A.

FIELD PROCEDURE - REFERENCE METHOD 3 (003grab)
Dry Molecular Weight
Single-Point, Grab Sampling, Fyrite Analysis

A. Applicability

This method is applicable for the determination of CO_2 and O_2 concentrations and dry molecular weight.

B. Preliminary Procedures

1. Fyrites are refilled regularly. The Fyrite refill date is located on the inside of the fyrite case.
2. Fyrite fluid is only opened once and the excess fyrite fluid is discarded under proper waste disposal procedures.

C. Procedure:

1. Zero the fyrite fluid by depressing the button on the top of the fyrite column.
2. Hook the squeeze bulb up to the fyrite column and place the nozzle end of the fyrite setup in the stack.
3. Squeeze the bulb approximately twenty times.
4. Unhook squeeze bulb from fyrite column
5. Turn the fyrite column upside down and let all the fluid from the top of the column run to the bottom.
6. Repeat step 5 three times
7. Read the percentage of either CO_2 or O_2 off of the scale

D. References

1. Title 40 of Code of Federal Regulations, Part 60 Appendix A

FIELD PROCEDURE - REFERENCE METHOD 4 (004)
Moisture Determination

A. Applicability

This method is applicable for determination of moisture content of a stack gas.

B. Pretest Preparation

1. Place 700-800 grams of Silica Gel in an impinger and weigh to the nearest 0.5 grams.
2. Check filters visually against light for irregularities and flaws or pinhole leaks.
3. Wash all glassware with soap and hot tap water and then rinse with DI water and acetone.
4. Either gravimetrically or volumetrically determine the weight/volume of the impinger assembly to the nearest 0.5 g/mL

C. Preliminary Determinations

1. Select the sampling site and the number of sampling points according to USEPA Reference Method 1.
2. Set up pitot tube/manometer apparatus.
3. Leak-check the pitot tube setup.
   a. Blow into the pitot impact opening until at least 3 in. H_2O velocity pressure registers on the manometer, and close off the impact opening.
   b. Observe the time (pressure must remain stable for at least 15 seconds).
   c. Do the same for the static pressure side, except use suction to obtain -3in. H_2O.
4. Level and zero the manometer.
5. Determine the stack pressure, temperature, and the range of velocity heads by previous test data or follow Steps B.6 - B.7.
6. Measure the velocity head and temperature.
7. Measure the static pressure in the stack.
8. Determine the atmospheric pressure.
9. Determine the moisture content by previous test data or measurement.

   Determine or estimate the dry molecular weight.

11. Select a nozzle size based on preliminary stack data. Do NOT change nozzle size during the sampling run.
12. Select a suitable probe liner and probe length such that all traverse points can be sampled.
13. Select the total sampling time and standard sample volume specified in the test procedures for the specific industry. Select equal sampling times of ≥ 2 min per point.

FIELD PROCEDURE - REFERENCE METHOD 4 (004)
Moisture Determination

D. Preparation of Collection Train

1. During the preparation and assembly of the sampling train, keep all openings covered to avoid contamination. Use parafilm to close the openings.
2. Prepare impingers according to Figure 1.
3. Tare the sample train by either:
4. Weigh the silica gel, attach it to the other impingers and then weigh the whole train to the nearest 0.5g.
5. Volumetrically measuring the liquid in each impinger and gravimetrically weighing the silica gel impinger.
6. Using a tweezer or clean disposable surgical gloves, place filter in the filter holder. Check the filter for tears after assembly.
7. Mark the probe with "White Out" (or other) to denote the proper distance into the stack or duct for each sampling point.
8. Set up the train. Turn on and set probe and filter box heaters. Place crushed ice around the impingers.
9. Leak-Check the sampling train
   a. Allow time for train temperatures to stabilize.
   b. Plug the nozzle. Fully open the bypass valve and close the coarse adjust valve. Then start the pump.
   c. Slowly close the bypass valve until the desired vacuum is reached (≥ 15 in. Hg or ≥ maximum vacuum reached during the test run.) Do not reverse direction of bypass valve; this will cause water to back up into the filter holder. If the desired vacuum is exceeded, either leak-check at this higher vacuum or end the leak-check as shown in Step 7e, and start over.
   d. Allow the flow rate to stabilize, then determine the leakage rate using DGM readings and a watch. Record the leakage rate. Leakage rate must be ≤ 0.02 cfm or ≤ 4% of average sampling rate, whichever is less.
   e. End the leak-check as follows: first slowly remove the plug from the inlet to the probe, and immediately turn off the vacuum pump.. This prevents the water in the impingers from being forced backward into the filter holder and silica gel from being entrained backward into the third impinger.

E. Sampling

1. Record the initial dry gas meter (DGM) reading.
2. Clean the portholes.
3. Remove the nozzle cap; verify that the filter and probe heating systems are up to temperature, and check pitot tube, temperature gauge, and probe alignments and clearances.

FIELD PROCEDURE - REFERENCE METHOD 4 (004)
Moisture Determination

4. Close the coarse adjust valve. If necessary to overcome high negative stack pressure, turn on the pump. Position the nozzle at the first traverse point. Immediately start the pump, and adjust the flow to isokinetic conditions.
5. When the probe is in position, block off the openings around the probe and porthole.
6. Traverse the stack cross-section. *Do not bump the probe nozzle into the stack walls.*
   a. Keep the temperature around the filter holder (probe outlet or filter outlet, if applicable) at the proper level.
   b. Add more ice and, if necessary, salt to maintain a temperature of <68°F at the condenser / silica gel outlet.
   c. Periodically check the level and zero of the manometer.
   d. Record DGM readings at the beginning and end of each sampling time increment, before and after each leak-check, and when sampling is halted.
   e. Take other readings shown in field data sheet at least once at each sample point during each time increment and additional readings when significant changes (20% variation in Δp readings) necessitate additional adjustments in flow rate.
7. At the end of the sample run, turn off the coarse adjust valve, remove the probe and nozzle from the stack, turn off the pump, record the final DGM meter reading.
8. Leak-check the sampling train (see Step D.7).
9. Leak-check the pitot lines (see Step C.3).
10. Allow the probe to cool. Then, wipe off all external PM near the tip of the probe nozzle, and place a cap over it.

    Before moving the sampling train to the recovery site, remove the probe from the sampling train and cap the open outlet of the probe. Do not lose any condensate that might be present. Cap the filter inlet.

12. Remove the umbilical cord from the last impinger, and cap the impinger. Cap off the filter holder outlet and impinger inlet.
13. Transfer the probe and filter-impinger assembly to the recovery area that is clean and protected from the wind.

F. Sample Recovery

1. (Silica Gel)

   Determine whether silica gel has been completely spent, and note on field data sheet its condition.

   Weigh the silica gel impinger with the other impingers to the nearest 0.5 g.

2. Impinger Water

   a. Note on field data sheet any color or film in the liquid catch.

   b. Weigh Impingers 1, 2, 3 and the silica gel impinger to within ±0.5g [or measure the liquid volume in impingers 1, 2 and 3 to within ± 1 mL (with a graduated cylinder)].

   c. Discard the liquid, unless analysis of the impinger catch is required. Store as is appropriate.

G. REFERENCES

1. Title 40 of Code of Federal Regulations, Part 60 Appendix A.

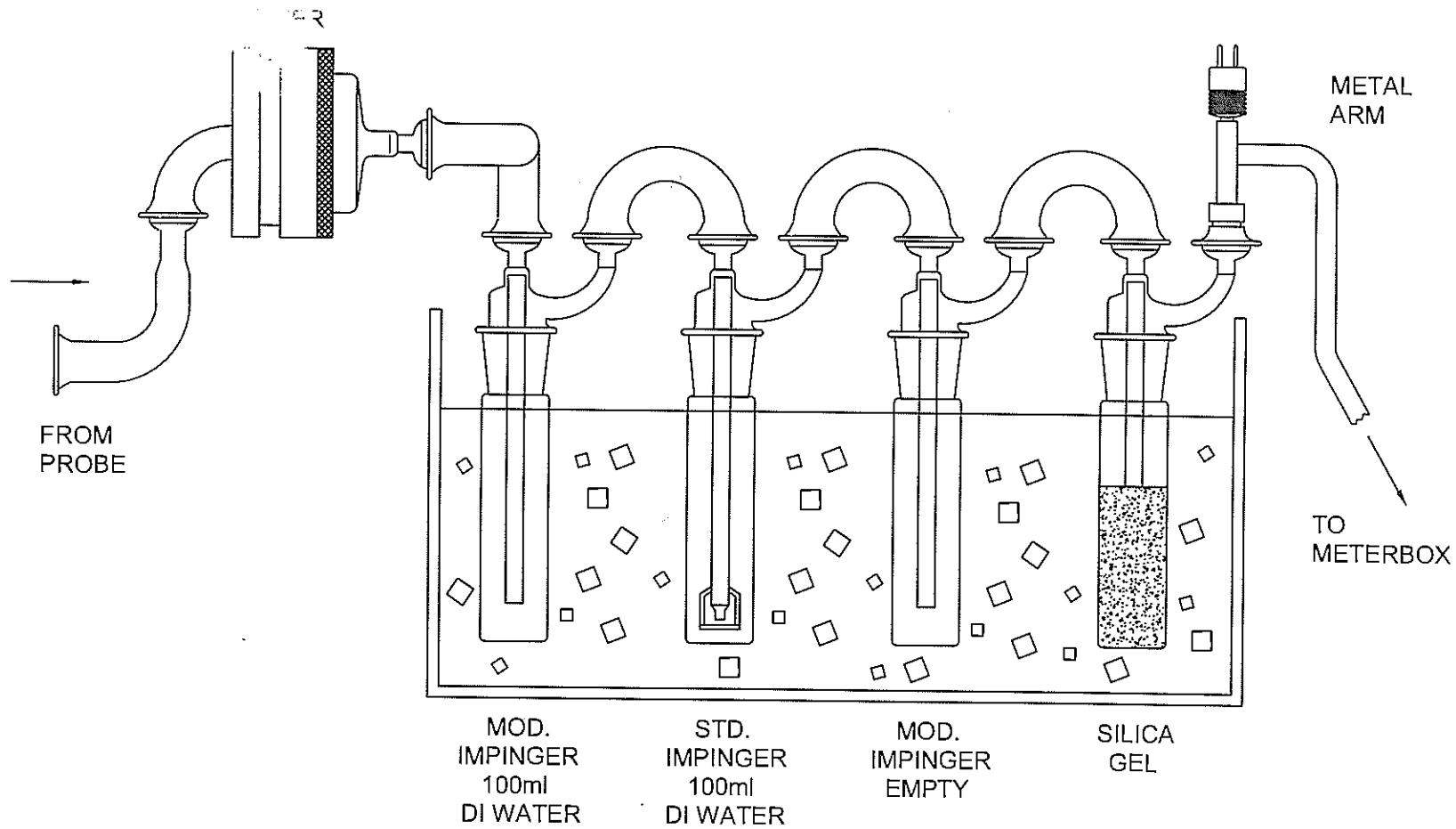


figure 1

METHOD 4
MOISTURE
SAMPLING TRAIN

FIELD PROCEDURE – REFERENCE METHODS 3A, 6C, 7E, & 10 (003-10)
(Instrumental Analyzer Procedure – O_2, CO_2, SO_2, NO_x, CO)

A. Preparations

1. Use calibration gases as specified below:
   - *Method 3A: O_2 and CO_2*
   - *Method 6C: SO_2*
   - *Method 7E: NO_x (as NO)*

   a. High-Range 80 to 100% of span.

   b. Mid-Range 40 to 60% of span.

   c. Zero <0.25% of span.

   - *Method 10: CO*

   a. Span Not to exceed 1.5 times the applicable standard.

   b. High-Range About 90% of span.

   c. Mid-Range About 60% of span.

   d. Low-Range About 30% of span.

   e. Zero Prepurified grade of N_2.

2. For Protocol gases, obtain a certification from the gas manufacturer that shows Protocol 1 was followed.
3. Prepare and calibrate the gas analyzer and data recorder. Adjust system components as necessary.

B. Analyzer Calibration Error

Conduct this test initially and each time the system exceeds the system bias and drift specifications.

1. Introduce the zero, mid-range and high-range (and span) gases to the measurement system at any point upstream of the analyzer. Do not make any adjustments to the system except those necessary to adjust the calibration gas flow to the analyzer.
2. Record the analyzer responses to each calibration gas.

C. Sampling System Bias Check

Conduct this bias check initially and after each sampling run.

1. Introduce the calibration gases at the calibration valve installed at the outlet of the sampling probe. Operate the system at the normal sampling rate, and make no adjustments to the measurement system other than those necessary to adjust the calibration gas flow rates at the analyzer. Wait until a stable response is achieved before taking readings.

2. Introduce either the mid-range or high-range gas, whichever is closet to the effluent concentrations, and record the analyzer response and the time it took to reach a stable response.
3. Introduce zero gas, and record the analyzer response and the time it took to reach a stable response.

D. **Emission Test Procedure**

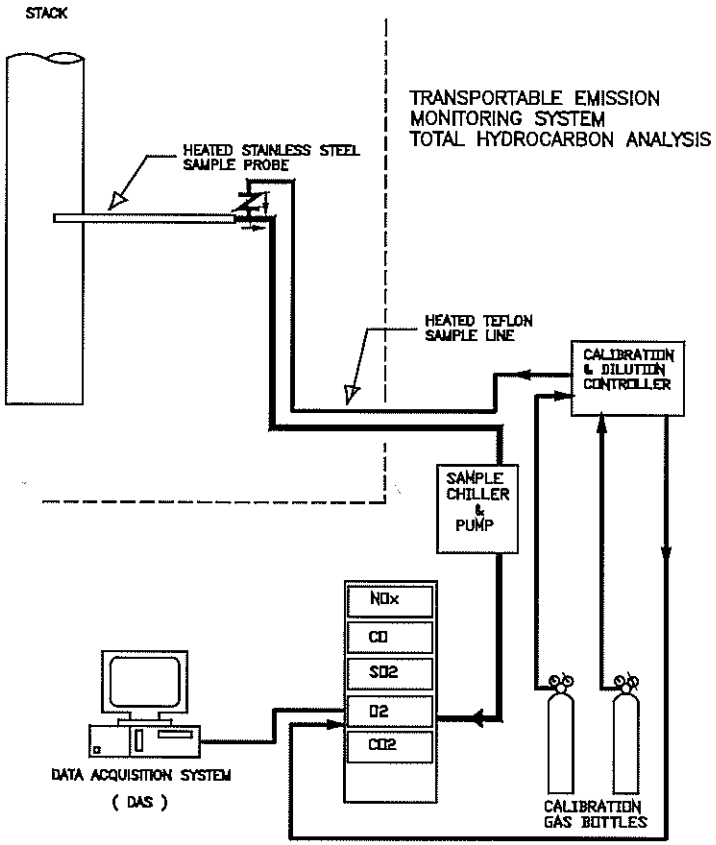
1. Set up the sampling system as shown in Figure 1. Position the probe at the measurement point.
2. Sample at each measurement point using the same sampling rate as that used during the sampling system bias check. Maintain constant sampling rate (±10%) during the entire run.
3. When determining average concentration, sample a minimum of twice the stable response time for the instrument.
4. Determine the average gas concentration by averaging measurements recorded at equally spaced intervals over the entire run:
   a. Runs less than or equal to 1 hour must should have recorded measurements at 1-minute intervals.
   b. Runs greater than 1 hour must have measurements at 2-minute intervals or a minimum of 96 measurements.

E. **Post-Test Runs**

1. Following each run, or before adjustments are made to the measurement system during the run, determine the sampling system bias. Do not make any adjustments to the measurement system until after the drift checks are completed. Record the system responses.
2. If the sampling system does not pass the bias check at either the zero or upscale calibration values, void the run and repeat the calibration error and bias tests before the next run.
3. If the sampling system passes the bias check, calculate the zero and upscale drift to determine whether the calibration error and system bias tests must be conducted before the next run.

FIELD PROCEDURE – REFERENCE METHODS 3A, 6C, 7E, & 10 (003-10)
(Instrumental Analyzer Procedure – O_2, CO_2, SO_2, NO_x, CO)

Figure 1: CRA-E_3 Emission Monitoring System



FIELD PROCEDURE - REFERENCE METHOD 25A (025A)
Total Hydrocarbons

A. Preparations

1. Use "Protocol 1" calibration gases (propane or methane in air or N_2), certified by the manufacturer to be within ±2% of the specified concentration, as follows:

   a. High-Range. 80-90% of span.

   b. Mid-Range. 45-55% of span.

   c. Low-Range. 25-35% of span.

   d. Zero. Prepurified grade of air or N_2.

2. Setup and calibrate the gas analyzer and data recorder. Adjust system components as necessary.

3. For "Continuous Sampling", set up the sampling system as shown in Figure 1.

B. System Performance Test Procedures

1. Analyzer Calibration Error

   *Conduct this test **initially** (within 2 hours of sampling) and **each** time the system exceeds the system bias and drift specifications. Record the analyzer responses to each calibration gas.*

   a. Introduce the zero, and high-range gases to the measurement system, at the sample probe. Adjust the system to match the calibration values.

   b. Predict the system response for the low- and mid-range calibration gases.

   c. Introduce the low- and mid-range gases to the measurement system. Confirm that the responses meet the calibration error criteria.

2. Sampling Response Time Check

   *Conduct this test **initially***

   a. Introduce the zero gas into the measurement system. When the system response is stable quickly switch to the high-level calibration gas. Record the time required for the system to respond to 95% of the step change.

   b. Repeat step 1 three times and average the results.

FIELD PROCEDURE - REFERENCE METHOD 25A (025A)
Total Hydrocarbons

C. Sampling Procedures

1. Sample Collection Procedure

   a. Position the probe at the measurement point.

   b. Purge the sampling system for a minimum of twice the response time.

   c. Begin sample collection and data recording.

   d. Sample using the same sampling rate as that used during the sampling system bias check. Maintain constant sampling rate (±10%) during the entire run.

2. Data Collection Requirements

   a. When determining average concentration, sample a minimum of twice the stable response time for the instrument.

   b. Determine the average measurements recorded at equally spaced intervals over the entire run:

   c. Runs less than or equal to 1 hour must have recorded measurements at 1-minute intervals.

   d. Runs greater than 1 hour must have measurements at 2-minute intervals or a minimum of 96 measurements.

D. Quality Assurance Procedures

1. Following each "Continuous" sample, determine the sampling system drift. Do not adjust the measurement system until after the drift checks are completed. Record the system responses. Introduce the zero and mid-range calibration gases in the same manner as during the calibration error check. Determine whether the calibration drift is valid

   If the sampling system does not pass the bias check void the run and repeat the calibration error test before the next run.
   If the sampling system does pass the bias check, conduct the next run.

FIELD PROCEDURE - REFERENCE METHOD 25A (025A)
Total Hydrocarbons

Figure 1: Method 25A Sample Train

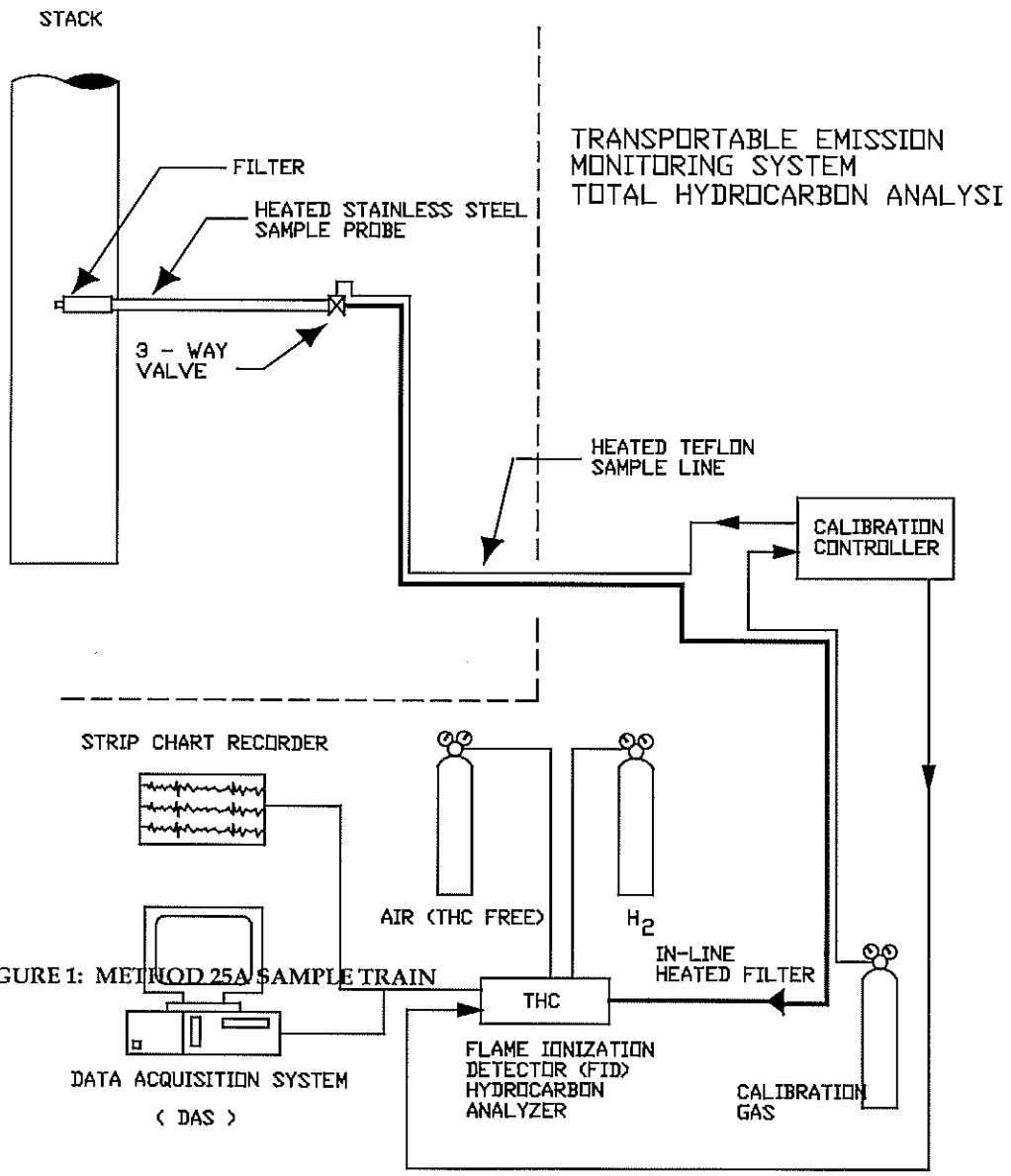


FIGURE 1: METHOD 25A SAMPLE TRAIN

METHOD 5A - DETERMINATION OF PARTICULATE MATTER EMISSIONS FROM THE ASPHALT PROCESSING AND ASPHALT ROOFING INDUSTRY

NOTE: This method does not include all of the specifications (*e.g.*, equipment and supplies) and procedures (*e.g.*, sampling and analytical) essential to its performance. Some material is incorporated by reference from other methods in this part. Therefore, to obtain reliable results, persons using this method should have a thorough knowledge of at least the following additional test methods: Method 1, Method 2, Method 3, and Method 5.

1.0 Scope and Applications.

1.1 Analyte. Particulate matter (PM). No CAS number assigned.

1.2 Applicability. This method is applicable for the determination of PM emissions from asphalt roofing industry process saturators, blowing stills, and other sources as specified in the regulations.

1.3 Data Quality Objectives. Adherence to the requirements of this method will enhance the quality of the data obtained from air pollutant sampling methods.

2.0 Summary of Method.

Particulate matter is withdrawn isokinetically from the source and collected on a glass fiber filter maintained at a temperature of 42 ± 10 °C (108 ± 18 °F). The PM mass, which includes any material that condenses at or above the

filtration temperature, is determined gravimetrically after the removal of uncombined water.

3.0 Definitions. [Reserved]

4.0 Interferences. [Reserved]

5.0 Safety.

5.1 Disclaimer. This method may involve hazardous materials, operations, and equipment. This test method may not address all of the safety problems associated with its use. It is the responsibility of the user of this test method to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to performing this test method.

6.0 Equipment and Supplies.

6.1 Sample Collection. Same as Method 5, Section 6.1, with the following exceptions and additions:

6.1.1 Probe Liner. Same as Method 5, Section 6.1.1.2, with the note that at high stack gas temperatures greater than 250 °C (480 °F), water-cooled probes may be required to control the probe exit temperature to 42 ± 10 °C (108 ± 18 °F).

6.1.2 Precollector Cyclone. Borosilicate glass following the construction details shown in Air Pollution Technical Document (APTD)-0581, "Construction Details of

Isokinetic Source-Sampling Equipment" (Reference 2 in Method 5, Section 17.0).

NOTE: The cyclone shall be used when the stack gas moisture is greater than 10 percent, and shall not be used otherwise.

6.1.3 Filter Heating System. Any heating (or cooling) system capable of maintaining a sample gas temperature at the exit end of the filter holder during sampling at 42 ± 10 °C (108 ± 18 °F).

6.2 Sample Recovery. The following items are required for sample recovery:

6.2.1 Probe-Liner and Probe-Nozzle Brushes, Graduated Cylinder and/or Balance, Plastic Storage Containers, and Funnel and Rubber Policeman. Same as in Method 5, Sections 6.2.1, 6.2.5, 6.2.6, and 6.2.7, respectively.

6.2.2 Wash Bottles. Glass.

6.2.3 Sample Storage Containers. Chemically resistant 500-ml or 1,000-ml borosilicate glass bottles, with rubber-backed Teflon screw cap liners or caps that are constructed so as to be leak-free, and resistant to chemical attack by 1,1,1-trichloroethane (TCE). (Narrow-mouth glass bottles have been found to be less prone to leakage.)

6.2.4 Petri Dishes. Glass, unless otherwise specified by the Administrator.

6.2.5 Funnel. Glass.

6.3 Sample Analysis. Same as Method 5, Section 6.3, with the following additions:

6.3.1 Beakers. Glass, 250-ml and 500-ml.

6.3.2 Separatory Funnel. 100-ml or greater.

7.0. Reagents and Standards.

7.1 Sample Collection. The following reagents are required for sample collection:

7.1.1 Filters, Silica Gel, Water, and Crushed Ice. Same as in Method 5, Sections 7.1.1, 7.1.2, 7.1.3, and 7.1.4, respectively.

7.1.2 Stopcock Grease. TCE-insoluble, heat-stable grease (if needed). This is not necessary if screw-on connectors with Teflon sleeves, or similar, are used.

7.2 Sample Recovery. Reagent grade TCE, ≤0.001 percent residue and stored in glass bottles. Run TCE blanks before field use, and use only TCE with low blank values (≤0.001 percent). In no case shall a blank value of greater than 0.001 percent of the weight of TCE used be subtracted from the sample weight.

7.3 Analysis. Two reagents are required for the analysis:

7.3.1 TCE. Same as in Section 7.2.

7.3.2 Desiccant. Same as in Method 5, Section 7.3.2.

8.0. Sample Collection, Preservation, Storage, and Transport.

8.1. Pretest Preparation. Unless otherwise specified, maintain and calibrate all components according to the procedure described in APTD-0576, "Maintenance, Calibration, and Operation of Isokinetic Source-Sampling Equipment" (Reference 3 in Method 5, Section 17.0).

8.1.1 Prepare probe liners and sampling nozzles as needed for use. Thoroughly clean each component with soap and water followed by a minimum of three TCE rinses. Use the probe and nozzle brushes during at least one of the TCE rinses (refer to Section 8.7 for rinsing techniques). Cap or seal the open ends of the probe liners and nozzles to prevent contamination during shipping.

8.1.2 Prepare silica gel portions and glass filters as specified in Method 5, Section 8.1.

8.2 Preliminary Determinations. Select the sampling site, probe nozzle, and probe length as specified in Method 5, Section 8.2. Select a total sampling time greater than or equal to the minimum total sampling time specified in the "Test Methods and Procedures" section of the applicable subpart of the regulations. Follow the guidelines outlined in Method 5, Section 8.2 for sampling time per point and total sample volume collected.

8.3 Preparation of Sampling Train. Prepare the sampling train as specified in Method 5, Section 8.3, with the addition of the precollector cyclone, if used, between the probe and filter holder. The temperature of the precollector cyclone, if used, should be maintained in the same range as that of the filter, *i.e.*, 42 ± 10 °C (108 ± 18 °F). Use no stopcock grease on ground glass joints unless grease is insoluble in TCE.

8.4 Leak-Check Procedures. Same as Method 5, Section 8.4.

8.5 Sampling Train Operation. Operate the sampling train as described in Method 5, Section 8.5, except maintain the temperature of the gas exiting the filter holder at 42 ± 10 °C (108 ± 18 °F).

8.6 Calculation of Percent Isokinetic. Same as Method 5, Section 8.6.

8.7 Sample Recovery. Same as Method 5, Section 8.7.1 through 8.7.6.1, with the addition of the following:

8.7.1 Container No. 2 (Probe to Filter Holder).

8.7.1.1 Taking care to see that material on the outside of the probe or other exterior surfaces does not get into the sample, quantitatively recover PM or any condensate from the probe nozzle, probe fitting, probe liner, precollector cyclone and collector flask (if used), and

front half of the filter holder by washing these components with TCE and placing the wash in a glass container. Carefully measure the total amount of TCE used in the rinses. Perform the TCE rinses as described in Method 5, Section 8.7.6.2, using TCE instead of acetone.

8.7.1.2 Brush and rinse the inside of the cyclone, cyclone collection flask, and the front half of the filter holder. Brush and rinse each surface three times or more, if necessary, to remove visible PM.

8.7.2 Container No. 3 (Silica Gel). Same as in Method 5, Section 8.7.6.3.

8.7.3 Impinger Water. Same as Method 5, Section 8.7.6.4.

8.8 Blank. Save a portion of the TCE used for cleanup as a blank. Take 200 ml of this TCE directly from the wash bottle being used, and place it in a glass sample container labeled "TCE Blank."

9.0 Quality Control.

9.1 Miscellaneous Quality Control Measures.

Section	Quality Control Measure	Effect
8.4, 10.0	Sampling equipment leak check and calibration	Ensures accurate measurement of stack gas flow rate, sample volume

9.2 A quality control (QC) check of the volume metering system at the field site is suggested before

collecting the sample. Use the procedure outlined in Method 5, Section 9.2.

10.0 Calibration and Standardization.

Same as Method 5, Section 10.0.

11.0 Analytical Procedures.

11.1 Analysis. Record the data required on a sheet such as the one shown in Figure 5A-1. Handle each sample container as follows:

11.1.1 Container No. 1 (Filter). Transfer the filter from the sample container to a tared glass weighing dish, and desiccate for 24 hours in a desiccator containing anhydrous calcium sulfate. Rinse Container No. 1 with a measured amount of TCE, and analyze this rinse with the contents of Container No. 2. Weigh the filter to a constant weight. For the purpose of this analysis, the term "constant weight" means a difference of no more than 10 percent of the net filter weight or 2 mg (whichever is greater) between two consecutive weighings made 24 hours apart. Report the "final weight" to the nearest 0.1 mg as the average of these two values.

11.1.2 Container No. 2 (Probe to Filter Holder).

11.1.2.1 Before adding the rinse from Container No. 1 to Container No. 2, note the level of liquid in Container No. 2, and confirm on the analysis sheet whether leakage

occurred during transport. If noticeable leakage occurred, either void the sample or take steps, subject to the approval of the Administrator, to correct the final results.

11.1.2.2 Add the rinse from Container No. 1 to Container No. 2 and measure the liquid in this container either volumetrically to ±1 ml or gravimetrically to ±0.5 g. Check to see whether there is any appreciable quantity of condensed water present in the TCE rinse (look for a boundary layer or phase separation). If the volume of condensed water appears larger than 5 ml, separate the oil-TCE fraction from the water fraction using a separatory funnel. Measure the volume of the water phase to the nearest ml; adjust the stack gas moisture content, if necessary (see Sections 12.3 and 12.4). Next, extract the water phase with several 25-ml portions of TCE until, by visual observation, the TCE does not remove any additional organic material. Transfer the remaining water fraction to a tared beaker and evaporate to dryness at 93 °C (200 °F), desiccate for 24 hours, and weigh to the nearest 0.1 mg.

11.1.2.3 Treat the total TCE fraction (including TCE from the filter container rinse and water phase extractions) as follows: Transfer the TCE and oil to a tared beaker, and evaporate at ambient temperature and pressure. The evaporation of TCE from the solution may take several days. Do not desiccate the sample until the solution reaches an

apparent constant volume or until the odor of TCE is not detected. When it appears that the TCE has evaporated, desiccate the sample, and weigh it at 24-hour intervals to obtain a "constant weight" (as defined for Container No. 1 above). The "total weight" for Container No 2 is the sum of the evaporated PM weight of the TCE-oil and water phase fractions. Report the results to the nearest 0.1 mg.

11.1.3 Container No. 3 (Silica Gel). This step may be conducted in the field. Weigh the spent silica gel (or silica gel plus impinger) to the nearest 0.5 g using a balance.

11.1.4 "TCE Blank" Container. Measure TCE in this container either volumetrically or gravimetrically. Transfer the TCE to a tared 250-ml beaker, and evaporate to dryness at ambient temperature and pressure. Desiccate for 24 hours, and weigh to a constant weight. Report the results to the nearest 0.1 mg.

NOTE: In order to facilitate the evaporation of TCE liquid samples, these samples may be dried in a controlled temperature oven at temperatures up to 38 °C (100 °F) until the liquid is evaporated.

12.0 Data Analysis and Calculations.

Carry out calculations, retaining at least one extra significant figure beyond that of the acquired data. Round

off figures after the final calculation. Other forms of the equations may be used as long as they give equivalent results.

12.1 Nomenclature. Same as Method 5, Section 12.1, with the following additions:

C_t = TCE blank residue concentration, mg/g.

m_t = Mass of residue of TCE blank after evaporation, mg.

V_{pc} = Volume of water collected in precollector, ml.

V_t = Volume of TCE blank, ml.

V_{tw} = Volume of TCE used in wash, ml.

W_t = Weight of residue in TCE wash, mg.

$_t$ = Density of TCE (see label on bottle), g/ml.

12.2 Dry Gas Meter Temperature, Orifice Pressure Drop, and Dry Gas Volume. Same as Method 5, Sections 12.2 and 12.3, except use data obtained in performing this test.

12.3 Volume of Water Vapor.

$$V_{w(std)} = K_2 (V_{lc} + V_{pc})$$ **Eq. 5A-1**

where:

K_2 = 0.001333 m^3/ml for metric units.

= 0.04706 ft^3/ml for English units.

12.4 Moisture Content.

$$B_{ws} = \frac{V_{w(std)}}{V_{m(std)} + V_{w(std)}} \qquad \textbf{Eq. 5A-2}$$

NOTE: In saturated or water droplet-laden gas streams, two calculations of the moisture content of the stack gas shall be made, one from the impinger and precollector analysis (Equations 5A-1 and 5A-2) and a second from the assumption of saturated conditions. The lower of the two values of moisture content shall be considered correct. The procedure for determining the moisture content based upon assumption of saturated conditions is given in Section 4.0 of Method 4. For the purpose of this method, the average stack gas temperature from Figure 5-3 of Method 5 may be used to make this determination, provided that the accuracy of the in-stack temperature sensor is within 1 °C (2 °F).

12.5 TCE Blank Concentration.

$$C_t = \frac{m_t}{V_t \, \rho_t} \qquad \textbf{Eq. 5A-3}$$

NOTE: In no case shall a blank value of greater than 0.001 percent of the weight of TCE used be subtracted from the sample weight.

12.6 TCE Wash Blank.

$$W_t = C_t V_{tw} \rho_t \qquad \textbf{Eq. 5A-4}$$

12.7 Total PM Weight. Determine the total PM catch from the sum of the weights obtained from Containers 1 and 2, less the TCE blank.

12.8 PM Concentration.

$$c_s = K_3 \frac{m_n}{V_{m(std)}} \qquad \textbf{Eq. 5A-5}$$

where: K_3 = 0.001 g/mg for metric units

= 0.0154 gr/mg for English units

12.9 Isokinetic Variation. Same as in Method 5, Section 12.11.

13.0 Method Performance. [Reserved]

14.0 Pollution Prevention. [Reserved]

15.0 Waste Management. [Reserved]

16.0 References.

Same as Method 5, Section 17.0.

17.0 Tables, Diagrams, Flowcharts, and Validation Data.

FIGURE 5A-1 - ANALYTICAL DATA

Plant _____
Date _____
Run No. _____
Filter No. _____
Amount liquid lost during transport _____
TCE blank volume, ml _____
TCE blank concentration, mg/g _____
TCE wash blank, mg _____

Container number	Weight of particulate collected, mg		
	Final weight	Tare weight	Weight gain
1.			
2.			
Total			
Less TCE blank			
Weight of particulate matter			

	Volume of liquid water collected	
	Impinger volume, ml	Silica gel weight, g
Final.....		
Initial.....		
Liquid collected		
Total volume collected....		g* ml

*Convert weight of water to volume by dividing total weight increase by density of water (1 g/ml).

$$\frac{\text{Increase, g}}{(1\text{g/ml})} = \text{Volume water, ml}$$

FIELD PROCEDURE – REFERENCE METHOD 9 (009)
Opacity – Visible Observations

A. Certification

1. Attend classroom training seminar, once every three years (recommended).
2. Demonstrate ability to assign opacity readings in 5 percent increments to 25 different black plumes and 25 different white plumes, with an error not to exceed 15 percent opacity on any one reading. Certification renewed every 6 months.

B. Observations

1. Position self at sufficient distance from emissions to obtain clear, unobstructed view. Sun oriented at 140° sector to back.
2. Observe at point where line of vision is approximately perpendicular to the plume direction. If observations are on a rectangular outlet, perpendicular to the longer axis of the outlet.
3. Observer's line of vision should include only one plume at a time.
4. All pertinent data is filled out on a Method 9 observation data sheet. See attached form.
5. Make observations at point of greatest opacity where condensed water vapor is not present.
6. Record observations at 15-second intervals to the nearest 5 percent. A minimum of 24 observations shall be recorded.
7. Opacity is determined as an average of 24 consecutive observations recorded at 15-second intervals. Divide the observations recorded on the data sheet into sets of 24 consecutive observations. A set is composed of any 24 consecutive observations. Sets need not be consecutive in time and in no case shall two sets overlap. For each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing by 24. If an applicable standard specifies an averaging time requiring more than 24 observations, calculate the average for all observations made during the specified time period. Record the arithmetic average opacity on observation data sheet.

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

FIELD PROCEDURE - REFERENCE METHOD 201A/202
PM_{10} Emission Determination

A. Pretest Preparation

1. Weigh several 200- to 300-g portions of silica gel in airtight containers to ± 0.5g. Record the total weight of the silica gel plus container on each container.

2. Check filters visually against light for irregularities and flaws or pinhole leaks. Label the filters on the back side near the edge using numbering machine ink.

3. Desiccate the filters at 20 ± 5.6 °C and ambient pressure for ≥ 24 hr, and weigb at intervals of ≥ 6 hr to a constant weight, i.e., ≤ 0.5 mg change from previous weighing; record results to ±0.1 mg. During each weighing, do not expose the filter to the laboratory atmosphere for > 2 min and a relative humidity > 50%.

B. Preliminary Determinations

1. Select the sampling site and the number of sampling points according to USEPA Reference Method 1. The maximum number of sampling points for method 201A is 12.

2. Set up pitot tube/manometer apparatus.

3. Leak-check the pitot tube setup.

   a. Blow into the pitot impact opening until at least 3 in. H_2O velocity pressure registers on the manometer, and close off impact opening.
   b. Observe the time (pressure must remain stable for at least 15 seconds).
   c. Do the same for the static pressure side, except use suction to obtain -3in. H_2O.

4. Level and zero the manometer.

5. Determine the stack pressure, temperature, and the range of velocity heads by previous test data or follow Steps B.6 - B.8.

6. Measure the velocity head and temperature at each sample point.

7. Measure the static pressure in the stack.

8. Determine the atmospheric pressure.

9. Determine the moisture content by previous test data or measurement.

10. Determine or estimate the dry molecular weight.

11. Select a nozzle size based on preliminary stack data. Pick a nozzle that can be used for all sampling points if possible.

12. Use a probe assembly that can be altered to adjust the pitot tube to the cyclone head.

13. Select a suitable probe liner and probe length such that all traverse points can be sampled.

14. Select the total sampling time and standard sample volume specified in the test procedures for the specific industry.

C. Preparation of Collection Train

1. During the preparation and assembly of the sampling train, keep all openings covered to avoid contamination. Use parafilm to close the openings.

2. Prepare impingers according to method 202 section 3.1.3. DO NOT use any silicone grease in this sample train.

3. Tare the sample train by volumetrically measuring the liquid in each impinger and gravimetrically weighing the silica gel impinger.

4. Using tweezers or clean disposable surgical gloves, place filter in the filter holder. Check the filter for tears after assembly.

5. Mark the probe with heat resistant tape (or other) to denote the proper distance into the stack or duct for each sampling point.

6. Set up the train. Turn on and set probe heaters. Place crushed ice around the impingers.

7. Leak-Check the sampling train

   a. Allow time for train temperatures to stabilize.
   b. Plug the nozzle. Fully open the bypass valve and close the coarse adjust valve. Then start the pump.
   c. Slowly close the bypass valve until the desired vacuum is reached (≥ 15 in. Hg or ≥ maximum vacuum reached during the test run.) Do not reverse direction of bypass valve; this will cause water to back up into the filter holder. If the desired vacuum is exceeded, either leak-check at this higher vacuum or end the leak-check as shown in Step 7e, and start over.
   d. Allow the flow rate to stabilize, then determine the leakage rate using DGM readings and a watch. Record the leakage rate. Leakage rate must be ≤ 0.02 cfm or ≤ 4% of average sampling rate, whichever is less.
   e. End the leak-check as follows: first slowly remove the plug from the inlet to the probe, and immediately turn off the vacuum pump. This prevents the water in the impingers from being forced backward into the filter holder and silica gel from being entrained backward into the third impinger.

D. Sampling

1. Record data shown on field data sheet. Record the initial dry gas meter (DGM) reading.

2. Clean the portholes.

3. Remove the nozzle cap, verify that the filter and probe heating systems are up to temperature, check pitot tube, temperature gauge, and probe alignments and clearances.

4. Place the cyclone at the first sampling point and let the cyclone heat up to stack temperature, approximately 15 min.

5. Close the coarse adjust valve. If necessary to overcome high negative stack pressure, turn on the pump. Position the nozzle at the first traverse point. Immediately start the pump, and adjust the flow to isokinetic conditions.

6. When the probe is in position, block off the openings around the probe and porthole.

7. Traverse the stack cross-section. *Do not bump the probe nozzle into the stack walls.*

   a. Keep the temperature around the filter holder (probe outlet or filter outlet, if applicable) at the proper level.
   b. Add more ice and, if necessary, salt to maintain a temperature of <68°F at the condenser / silica gel outlet.
   c. Periodically check the level and zero of the manometer.
   d. Record DGM readings at the beginning and end of each sampling time increment, before and after each leak-check, and when sampling is halted.

e. Take other readings shown in field data sheet at least once at each sample point during each time increment and additional readings when significant changes (20% variation in Δp readings) necessitate additional adjustments in flow rate.

f. If train components are replaced, conduct leak-check according to Step C.7.

7. At the end of the sample run, turn off the coarse adjust valve, remove the probe and nozzle from the stack, turn off the pump, record the final DGM meter reading.
8. Remove the cyclone from the probe.

9. Leak-check the sampling train from the probe. (see Step C.7).

10. Leak-check the pitot lines (see Step B.3).

11. Allow the probe to cool. Then, wipe off all external PM near the tip of the probe nozzle, and place a cap over it.

12. Before moving the sampling train to the cleanup site, remove the probe from the sampling train, and cap the open outlet of the probe. Do not lose any condensate that might be present.

13. Remove the umbilical cord from the last impinger, and cap the impinger.
14. Transfer the probe, cyclone, and filter-impinger assembly to the cleanup area that is clean and protected from the wind.

E. Sample Recovery

1. Inspect the train prior to and during disassembly, and note any abnormal conditions.

2. **Container No. 1** (Filter)

   a. Using a pair of tweezers and/or clean disposable surgical gloves, carefully remove the filter from the filter holder, and place it in its identified petri dish container. If necessary, fold the filter such that the PM cake is inside the fold.
   b. Using a dry Nylon bristle brush and/or a sharp-edged blade, carefully transfer any PM and/or filter fibers that adhere to the filter holder gasket into the petri dish. Seal the container.

4. **Container No. 2** (Front ½ Acetone Rinse)

Recover particulate matter from the cyclone turn around cap, and the exit tube, and recover all rinses in a polypropylene or glass container as follows;

   a. Rinse with acetone, brush with a non-metallic Nylon bristle brush, and rinse with acetone until there are no visible particles. Make a final acetone rinse.
   b. After completing the rinse, tighten the lid on the sample container. Mark the height of the fluid level. Label the container.

5. **Container No. 3** (Back Half Impinger Contents, DI water, and Methlyene Chloride Rinse)

   Volumetrically recover the impinger contents for moisture determination. Then rinse all glassware from the probe liner back including all connecting glassware with Distilled Water then Methylene Chloride three times. Place rinses and the impinger contents into a clean glass sample container, tighten on lid, and mark level of sample, and clearly label.

6. **Container No. 6** (Silica Gel)

   Gravimetrically determine the weight of the silica gel impinger to the nearest 0.5g, and record on the recovery data sheet.

7. **Container No. 7** (DI Water Blank)

   Place a 100ml portion of the DI Water used in the sample recovery process into a container, seal, mark level, and label.

8. **Container No.8** (Methylene Chloride Blank)

   Place a 100ml portion of the Methylene Chloride used in the sample recovery process into a container, seal, mark level, and label.

APPENDIX B

FIELD DATA AND CALCULATION SHEETS

8/16/2006 12:36	550.848	548.407
8/16/2006 12:37	494.933	549.139
8/16/2006 12:37	472.714	550.36
8/16/2006 12:37	490.783	554.023
8/16/2006 12:37	484.922	556.953
8/16/2006 12:38	446.832	559.15
8/16/2006 12:38	510.805	559.15
8/16/2006 12:38	656.818	559.394
8/16/2006 12:38	736.906	559.15
8/16/2006 12:39	754.975	560.371
8/16/2006 12:39	824.808	561.104
8/16/2006 12:39	886.827	564.034
8/16/2006 12:39	877.06	567.696
8/16/2006 12:40	850.69	568.185
8/16/2006 12:40	844.83	568.185
8/16/2006 12:40	850.934	570.626
8/16/2006 12:40	794.775	571.847
8/16/2006 12:41	773.044	572.824
8/16/2006 12:41	764.986	573.556
8/16/2006 12:41	734.709	575.754
8/16/2006 12:41	760.835	577.219
8/16/2006 12:42	736.906	577.463
8/16/2006 12:42	660.481	576.975
8/16/2006 12:42	628.739	579.172
8/16/2006 12:42	622.879	581.614
8/16/2006 12:43	605.054	582.835
8/16/2006 12:43	630.936	585.032
8/16/2006 12:43	624.832	588.207
8/16/2006 12:43	590.892	588.207
8/16/2006 12:44	558.662	587.474
8/16/2006 12:44	510.805	588.451
8/16/2006 12:44	500.549	590.404
8/16/2006 12:44	513.002	590.892
8/16/2006 12:45	491.027	589.183
8/16/2006 12:45	481.016	590.892
8/16/2006 12:45	618.972	593.822
8/16/2006 12:45	796.728	596.264
8/16/2006 12:46	948.846	598.462
8/16/2006 12:46	1019.17	597.973
8/16/2006 12:46	1008.91	601.148
8/16/2006 12:46	962.764	604.81
8/16/2006 12:47	919.058	607.008
8/16/2006 12:47	898.791	607.252
8/16/2006 12:47	746.917	608.473
8/16/2006 12:47	586.986	608.717
8/16/2006 12:48	510.805	608.229
8/16/2006 12:48	470.761	608.717
8/16/2006 12:48	450.983	609.938
8/16/2006 12:48	420.706	614.089
8/16/2006 12:49	420.706	618.728
8/16/2006 12:49	486.876	622.39
8/16/2006 12:49	562.813	622.879
8/16/2006 12:49	622.879	623.123
8/16/2006 12:50	988.89	624.588

8/16/2006 12:50	1535.34	631.181
8/16/2006 12:50	1772.92	637.041
8/16/2006 12:50	1368.82	638.262
8/16/2006 12:51	814.553	634.599
8/16/2006 12:51	550.604	633.622
8/16/2006 12:51	490.783	635.087
8/16/2006 12:51	488.585	637.529
8/16/2006 12:52	448.785	638.262
8/16/2006 12:52	392.626	637.529
8/16/2006 12:52	364.791	638.017
8/16/2006 12:52	488.829	639.727
8/16/2006 12:53	855.085	645.098
8/16/2006 12:53	1152.97	649.249
8/16/2006 12:53	1288.98	649.493
8/16/2006 12:53	1090.47	651.203
8/16/2006 12:54	774.753	656.574
8/16/2006 12:54	605.054	662.923
8/16/2006 12:54	564.522	665.12
8/16/2006 12:54	575.021	666.585
8/16/2006 12:55	620.925	664.632
8/16/2006 12:55	642.657	666.341
8/16/2006 12:55	676.596	669.759
8/16/2006 12:55	664.632	675.131
8/16/2006 12:56	630.936	678.55
8/16/2006 12:56	644.854	678.55
8/16/2006 12:56	648.761	676.352
8/16/2006 12:56	662.679	675.131
8/16/2006 12:57	672.69	676.84
8/16/2006 12:57	704.92	678.55
8/16/2006 12:57	752.533	680.503
8/16/2006 12:57	734.953	680.991
8/16/2006 12:58	666.829	682.212
8/16/2006 12:58	634.843	685.875
8/16/2006 12:58	660.725	688.805
8/16/2006 12:58	664.876	688.072
8/16/2006 12:59	625.076	688.561
8/16/2006 12:59	574.777	689.781
8/16/2006 12:59	542.791	691.002
8/16/2006 12:59	498.84	692.223
8/16/2006 13:00	468.807	692.956
8/16/2006 13:00	584.788	696.374
8/16/2006 13:00	754.731	701.746
8/16/2006 13:00	786.961	702.234
8/16/2006 13:01	748.871	701.746
8/16/2006 13:01	691.002	704.432
8/16/2006 13:01	618.728	709.559
8/16/2006 13:01	578.928	711.024
8/16/2006 13:02	562.813	710.048
8/16/2006 13:02	558.906	709.315
8/16/2006 13:02	1127.09	711.757
8/16/2006 13:02	1843	716.884
8/16/2006 13:03	1757.05	721.768
8/16/2006 13:03	1057.01	723.477
8/16/2006 13:03	609.938	723.965

8/16/2006 13:03	420.706	726.407
8/16/2006 13:04	328.898	726.407
8/16/2006 13:04	310.829	727.384
8/16/2006 13:04	646.807	731.046
8/16/2006 13:04	1152.97	732.511
8/16/2006 13:05	1462.83	733
8/16/2006 13:05	1443.05	734.22
8/16/2006 13:05	1035.04	736.174
8/16/2006 13:05	578.928	736.174
8/16/2006 13:06	342.815	737.395
8/16/2006 13:06	286.9	735.686
8/16/2006 13:06	361.128	734.953
8/16/2006 13:06	748.871	738.616
8/16/2006 13:07	1112.93	744.476
8/16/2006 13:07	1141.01	749.847
8/16/2006 13:07	1030.64	750.824
8/16/2006 13:07	874.863	754.731
8/16/2006 13:08	698.572	756.928
8/16/2006 13:08	572.824	759.126
8/16/2006 13:08	496.887	759.37
8/16/2006 13:08	452.692	759.858
8/16/2006 13:09	408.985	760.347
8/16/2006 13:09	402.881	758.882
8/16/2006 13:09	410.695	757.661
8/16/2006 13:09	476.621	758.149
8/16/2006 13:10	550.848	759.858
8/16/2006 13:10	576.731	762.3
8/16/2006 13:10	636.796	767.672
8/16/2006 13:10	626.785	768.649
8/16/2006 13:11	608.961	765.474
8/16/2006 13:11	592.846	765.23
8/16/2006 13:11	550.604	770.358
8/16/2006 13:11	468.807	774.509
8/16/2006 13:12	492.98	772.799
8/16/2006 13:12	576.975	771.334
8/16/2006 13:12	602.857	774.753
8/16/2006 13:12	618.972	778.171
8/16/2006 13:13	640.947	779.88
8/16/2006 13:13	600.659	782.81
8/16/2006 13:13	532.536	784.52
8/16/2006 13:13	492.736	786.473
8/16/2006 13:14	442.681	787.694
8/16/2006 13:14	398.974	792.333
8/16/2006 13:14	530.582	794.042
8/16/2006 13:14	692.956	795.019
8/16/2006 13:15	790.868	797.949
8/16/2006 13:15	878.525	804.542
8/16/2006 13:15	968.868	806.495
8/16/2006 13:15	950.8	804.053
8/16/2006 13:16	768.649	802.588
8/16/2006 13:16	650.958	807.472
8/16/2006 13:16	612.868	809.181
8/16/2006 13:16	509.095	806.983
8/16/2006 13:17	370.895	806.495

8/16/2006 13:17	287.144	806.495
8/16/2006 13:17	254.914	807.96
8/16/2006 13:17	254.914	808.448
8/16/2006 13:18	278.843	809.913
8/16/2006 13:18	452.692	809.913
8/16/2006 13:18	750.824	811.134
8/16/2006 13:18	1050.91	815.041
8/16/2006 13:19	1167.13	817.483
8/16/2006 13:19	1013.06	816.994
8/16/2006 13:19	768.893	816.262
8/16/2006 13:19	558.906	820.413
8/16/2006 13:20	452.936	820.901
8/16/2006 13:20	396.777	821.634
8/16/2006 13:20	348.675	825.296
8/16/2006 13:20	318.642	827.249
8/16/2006 13:21	314.98	821.878
8/16/2006 13:21	321.084	814.797
8/16/2006 13:21	306.922	814.064
8/16/2006 13:21	356.977	817.483
8/16/2006 13:22	464.656	820.413
8/16/2006 13:22	570.87	820.901
8/16/2006 13:22	603.101	822.61
8/16/2006 13:22	562.813	822.366
8/16/2006 13:23	484.922	822.366
8/16/2006 13:23	430.717	824.564
8/16/2006 13:23	420.706	824.319
8/16/2006 13:23	414.846	825.052
8/16/2006 13:24	376.755	826.517
8/16/2006 13:24	586.742	829.935
8/16/2006 13:24	999.145	832.377
8/16/2006 13:24	1159.08	832.621
8/16/2006 13:25	846.783	837.016
8/16/2006 13:25	548.895	837.016
8/16/2006 13:25	432.67	835.795
8/16/2006 13:25	386.766	833.598
8/16/2006 13:26	366.988	835.551
8/16/2006 13:26	366.744	836.284
8/16/2006 13:26	354.78	836.284
8/16/2006 13:26	338.909	836.772
8/16/2006 13:27	308.876	837.505
8/16/2006 13:27	296.911	837.26
8/16/2006 13:27	394.824	840.679
8/16/2006 13:27	468.807	842.876
8/16/2006 13:28	528.873	843.365
8/16/2006 13:28	596.997	843.853
8/16/2006 13:28	596.753	845.318
8/16/2006 13:28	594.799	846.295
8/16/2006 13:29	570.87	844.586
8/16/2006 13:29	532.78	844.586
8/16/2006 13:29	520.571	845.074
8/16/2006 13:29	470.761	845.806
8/16/2006 13:30	420.706	847.516
8/16/2006 13:30	388.719	849.957
8/16/2006 13:30	375.046	850.446

8/16/2006 13:30	358.931	848.004
8/16/2006 13:31	350.873	845.074
8/16/2006 13:31	345.013	843.853
8/16/2006 13:31	340.862	844.586
8/16/2006 13:31	334.758	846.295
8/16/2006 13:32	298.865	846.295
8/16/2006 13:32	258.821	842.632
8/16/2006 13:32	266.878	839.946
8/16/2006 13:32	430.961	839.214
8/16/2006 13:33	607.008	841.167
8/16/2006 13:33	680.991	843.853
8/16/2006 13:33	698.816	848.736
8/16/2006 13:33	580.881	850.201
8/16/2006 13:34	458.796	851.911
8/16/2006 13:34	376.755	851.178
8/16/2006 13:34	328.898	848.004
8/16/2006 13:34	294.958	849.225
8/16/2006 13:35	288.854	853.62
8/16/2006 13:35	276.889	856.794
8/16/2006 13:35	252.716	857.038
8/16/2006 13:35	242.95	857.282
8/16/2006 13:36	258.821	859.236
8/16/2006 13:36	290.807	858.992
8/16/2006 13:36	336.955	854.352
8/16/2006 13:36	408.741	852.643
8/16/2006 13:37	416.799	850.934
8/16/2006 13:37	360.884	851.178
8/16/2006 13:37	346.966	851.422
8/16/2006 13:37	331.095	852.887
8/16/2006 13:38	295.202	853.376
8/16/2006 13:38	294.958	853.864
8/16/2006 13:38	324.991	854.108
8/16/2006 13:38	332.804	853.376
8/16/2006 13:39	478.818	853.131
8/16/2006 13:39	686.851	857.527
8/16/2006 13:39	864.852	862.654
8/16/2006 13:39	720.791	861.677
8/16/2006 13:40	442.681	856.062
8/16/2006 13:40	362.837	853.376
8/16/2006 13:40	382.615	601.636
8/16/2006 13:40	240.996	415.578
8/16/2006 13:41	78.867	369.674
8/16/2006 13:41	24.9054	361.616
8/16/2006 13:41	10.7435	352.094
8/16/2006 13:41	4.88341	346.234
8/16/2006 13:42	2.68587	341.839
8/16/2006 13:42	2.68587	344.28
8/16/2006 13:42	0.732511	343.548
8/16/2006 13:42	0.732511	343.059
8/16/2006 13:43	0.976682	340.862
8/16/2006 13:43	2.68587	340.129
8/16/2006 13:43	4.88341	340.374
8/16/2006 13:43	6.83677	342.815
8/16/2006 13:44	8.79014	343.548

8/16/2006 13:44	10.9877	342.083
8/16/2006 13:44	12.941	341.594
8/16/2006 13:44	12.6969	340.618
8/16/2006 13:45	14.8944	343.304
8/16/2006 13:45	14.8944	346.234
8/16/2006 13:45	16.8478	348.187
8/16/2006 13:45	16.8478	348.675
8/16/2006 13:46	16.8478	348.431
8/16/2006 13:46	14.6502	348.675
8/16/2006 13:46	14.8944	346.722
8/16/2006 13:46	14.6502	345.745
8/16/2006 13:47	14.8944	345.745
8/16/2006 13:47	14.8944	346.966
8/16/2006 13:47	14.8944	346.478
8/16/2006 13:47	14.8944	343.548
8/16/2006 13:48	14.6502	342.327
8/16/2006 13:48	14.8944	344.524
8/16/2006 13:48	14.8944	345.745
8/16/2006 13:48	14.8944	342.815
8/16/2006 13:49	12.941	340.129
8/16/2006 13:49	12.941	339.397
8/16/2006 13:49	12.941	339.885
8/16/2006 13:49	10.9877	340.374
8/16/2006 13:50	10.7435	341.106
8/16/2006 13:50	12.6969	342.815
8/16/2006 13:50	13.1852	344.769
8/16/2006 13:50	12.941	343.304
8/16/2006 13:51	10.7435	341.839
8/16/2006 13:51	10.7435	341.106
8/16/2006 13:51	10.9877	339.641
8/16/2006 13:51	9.03431	336.467
8/16/2006 13:52	8.79014	335.246
8/16/2006 13:52	8.79014	336.955
8/16/2006 13:52	10.7435	338.664
8/16/2006 13:52	10.7435	338.176
8/16/2006 13:53	9.03431	338.664
8/16/2006 13:53	8.79014	339.885
8/16/2006 13:53	6.5926	339.397
8/16/2006 13:53	8.79014	336.955
8/16/2006 13:54	6.83677	335.734
8/16/2006 13:54	6.83677	335.002
8/16/2006 13:54	6.83677	336.467
8/16/2006 13:54	6.5926	338.176
8/16/2006 13:55	6.83677	338.176
8/16/2006 13:55	6.83677	335.734
8/16/2006 13:55	6.83677	334.513
8/16/2006 13:55	8.79014	335.246
8/16/2006 13:56	10.9877	335.002
8/16/2006 13:56	10.9877	335.002
8/16/2006 13:56	10.7435	335.246
8/16/2006 13:56	10.7435	335.002
8/16/2006 13:57	10.9877	335.002
8/16/2006 13:57	10.9877	334.513
8/16/2006 13:57	10.7435	335.002

8/16/2006 13:57	10.9877	336.223
8/16/2006 13:58	10.9877	336.467
8/16/2006 13:58	10.7435	335.246
8/16/2006 13:58	10.7435	335.246
8/16/2006 13:58	8.79014	334.513
8/16/2006 13:59	8.79014	332.804
8/16/2006 13:59	8.79014	330.607
8/16/2006 13:59	8.79014	331.095
8/16/2006 13:59	9.03431	332.804
8/16/2006 14:00	8.79014	331.583
8/16/2006 14:00	9.03431	328.165
8/16/2006 14:00	9.03431	329.386
8/16/2006 14:00	9.03431	333.293
8/16/2006 14:01	8.79014	336.467
8/16/2006 14:01	8.79014	335.49
8/16/2006 14:01	7.08094	334.513
8/16/2006 14:01	6.83677	333.537
8/16/2006 14:02	9.03431	332.072
8/16/2006 14:02	10.7435	331.583
8/16/2006 14:02	12.941	331.583
8/16/2006 14:02	12.941	331.095
8/16/2006 14:03	12.941	330.851
8/16/2006 14:03	12.6969	332.316
8/16/2006 14:03	14.8944	333.293
8/16/2006 14:03	14.8944	334.025
8/16/2006 14:04	14.8944	333.781
8/16/2006 14:04	14.8944	332.316
8/16/2006 14:04	14.8944	330.607
8/16/2006 14:04	12.941	328.653
8/16/2006 14:05	10.9877	329.142
8/16/2006 14:05	10.7435	328.653
8/16/2006 14:05	8.79014	326.944
8/16/2006 14:05	8.79014	326.456
8/16/2006 14:06	8.79014	327.921
8/16/2006 14:06	6.83677	331.583
8/16/2006 14:06	6.83677	334.513
8/16/2006 14:06	6.83677	335.979
8/16/2006 14:07	6.83677	338.176
8/16/2006 14:07	4.63924	338.664
8/16/2006 14:07	4.88341	339.397
8/16/2006 14:07	4.88341	341.106
8/16/2006 14:08	4.63924	342.815
8/16/2006 14:08	4.88341	343.304
8/16/2006 14:08	4.63924	344.036
8/16/2006 14:08	4.63924	346.478
8/16/2006 14:09	4.88341	346.966
8/16/2006 14:09	4.88341	349.164
8/16/2006 14:09	4.88341	349.896
8/16/2006 14:09	4.63924	350.385
8/16/2006 14:10	4.88341	351.117
8/16/2006 14:10	4.88341	351.85
8/16/2006 14:10	6.83677	352.338
8/16/2006 14:10	8.79014	351.117
8/16/2006 14:11	8.79014	349.652

8/16/2006 14:11	9.03431	349.164
8/16/2006 14:11	8.79014	348.431
8/16/2006 14:11	10.7435	348.675
8/16/2006 14:12	12.941	348.675
8/16/2006 14:12	14.6502	349.896
8/16/2006 14:12	16.8478	346.722
8/16/2006 14:12	14.8944	344.524
8/16/2006 14:13	14.8944	345.501
8/16/2006 14:13	14.6502	351.117
8/16/2006 14:13	14.6502	354.535
8/16/2006 14:13	12.941	355.756
8/16/2006 14:14	12.941	356.977
8/16/2006 14:14	12.6969	358.686
8/16/2006 14:14	12.941	361.372
8/16/2006 14:14	12.6969	364.546
8/16/2006 14:15	12.941	368.209
8/16/2006 14:15	10.9877	371.139
8/16/2006 14:15	10.7435	372.604
8/16/2006 14:15	11.2318	373.581
8/16/2006 14:16	8.79014	375.29
8/16/2006 14:16	7.08094	374.313
8/16/2006 14:16	6.83677	374.069
8/16/2006 14:16	4.88341	374.069
8/16/2006 14:17	7.08094	376.755
8/16/2006 14:17	6.83677	379.929
8/16/2006 14:17	6.83677	379.197
8/16/2006 14:17	6.83677	376.999
8/16/2006 14:18	6.83677	373.337
8/16/2006 14:18	4.88341	367.476
8/16/2006 14:18	4.88341	363.326
8/16/2006 14:18	6.83677	364.546
8/16/2006 14:19	6.83677	367.965
8/16/2006 14:19	6.83677	369.674
8/16/2006 14:19	8.79014	370.651
8/16/2006 14:19	10.7435	372.604
8/16/2006 14:20	10.9877	376.755
8/16/2006 14:20	10.7435	380.418
8/16/2006 14:20	12.6969	382.127
8/16/2006 14:20	42.7298	382.371

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/17/2006
Project #:	45396	Operator:	SC	Source:	PCC	Time:	

Method / Gas	10 / CO	10 / CO	6C / SO2	6C / SO2

Analyzer Info

Make	TECO	TECO	Teledyne	Teledyne
ID				
Span	100	2000	100	1000
Source	PCC	PCC	PCC	PCC

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes	Yes
Compostition	CO/N2	CO/N2	NO/SO2/N2	NO/SO2/N2
Concentration	90	1983	179	869
Bottlle ID				

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Low	30	27.0%	30	29.7%		—		—
Mid	60	54.0%	60	59.5%	30	53.7%	60	52.1%
High	100	90.0%	100	99.2%	50	89.5%	100	86.9%

Analyzer Calibration	Response	Target	Response	Target	Response	Target	Response	Target
Zero	0.2	0	0.7	0	0.1	0	0.5	0
Low	27	27	595.3	594.9		—		—
Mid	54	54	1192	1189.8	53.8	53.7	522	521.4
High	90	90	1992	1983	90.1	89.5	870	869

Probe Calibration	Response	Target	Response	Target	Response	Target	Response	Target
Zero	0.5	0.2	0.9	0.7	0.2	0.1	0.5	0.5
Low		27		595.3		—		—
Mid	54.8	54	1190	1192	54	53.8	522.7	522
High		90		1992		90.1		870

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.2%	0.3%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%
Low	0.0%	-27.0%	0.0%	-29.8%	—	—	—	—
Mid	0.0%	0.8%	0.1%	-0.1%	0.1%	0.2%	0.1%	0.1%
High	0.0%	-90.0%	0.5%	-99.6%	0.6%	-90.1%	0.1%	-87.0%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/17/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information			
		3	
Stack Parameter			
Moisture	%	12.1%	
Dry Std. Flow Rate			Avg.
	DSCFM	8940	
O2 (drift corrected)			
	%		
CO2 (drift corrected)			
	%		
10 / CO			
	ppmvd	41.6	41.6
	lb/hr	1.62	1.62
6C / SO2			
	ppmvd	121.0	121.0
	lb/hr	4.71	4.71

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/17/2006

	Method / Gas	10 / CO	10 / CO	6C / SO2	6C / SO2
	Source	PCC	PCC	PCC	PCC
Calibration Drift Check					
	Time	5:05 PM	5:05 PM	5:05 PM	5:05 PM
	Span	100	2000	100	1000
	Drift limit	< 3.0%	< 3.0%	< 3.0%	< 3.0%
Zero					
	Initial	0.5	0.9	0.2	0.5
	Final	0.8	1	0.3	0.5
	Average (C_o)	0.65	0.95	0.25	0.5
	Certified Value	0	0	0	0
	% Drift	0.3%	0.0%	0.1%	0.0%
	% Sys. Bias	0.6%	0.0%	0.2%	0.0%
Upscale (Cma)					
	Upscale Gas:	Mid	Mid	Mid	Mid
	Initial	54.8	1190	54	522.7
	Final	55.3	1195	54.8	523.5
	Average (C_m)	55.05	1192.5	54.4	523.1
	Certified Value	54	1189.8	53.7	521.4
	% Drift	0.5%	0.3%	0.8%	0.1%
	% Sys. Bias	1.3%	0.2%	1.0%	0.2%
Run Data Calculations					
	Number of Sample Points:	705	0	0	705
	Average Concentration (C):	42.58	#DIV/0!	#DIV/0!	121.78
	Drift Corrected Average (C_{gas})	41.62	#DIV/0!	#DIV/0!	121.01
	Maximum Concentration:	930.78	0.00	0.00	129.17
	Minumum Concentration:	-1.22	0.00	0.00	24.17
DATE	TIME	ppmvd	ppmvd	ppmvd	ppmvd
	8/17/2006 8:28	0.732511			24.1729
	8/17/2006 8:28	84.9713			25.1496
	8/17/2006 8:29	396.777			26.3704
	8/17/2006 8:29	748.871			45.1715
	8/17/2006 8:29	930.778			77.8904
	8/17/2006 8:29	736.906			107.191
	8/17/2006 8:30	364.791			126.48
	8/17/2006 8:30	118.911			129.166
	8/17/2006 8:30	29.0563			122.818
	8/17/2006 8:30	6.83677			116.958
	8/17/2006 8:31	3.17422			112.318
	8/17/2006 8:31	-1.22085			104.017
	8/17/2006 8:31	-0.976682			95.2265
	8/17/2006 8:31	-0.976682			89.3664
	8/17/2006 8:32	0.976682			81.5529
	8/17/2006 8:32	0.976682			75.937
	8/17/2006 8:32	0.976682			69.3444
	8/17/2006 8:32	2.93005			66.9027
	8/17/2006 8:33	2.93005			63.2401
	8/17/2006 8:33	2.93005			58.8451

8/17/2006 8:33	2.68587	54.6942
8/17/2006 8:33	4.88341	51.52
8/17/2006 8:34	2.93005	49.3224
8/17/2006 8:34	2.93005	47.6132
8/17/2006 8:34	4.88341	45.904
8/17/2006 8:34	4.88341	43.4623
8/17/2006 8:35	2.93005	41.509
8/17/2006 8:35	2.68587	40.5323
8/17/2006 8:35	2.93005	40.044
8/17/2006 8:35	0.976682	40.044
8/17/2006 8:36	-0.976682	39.5556
8/17/2006 8:36	0.976682	38.5789
8/17/2006 8:36	0.732511	38.3348
8/17/2006 8:36	0.976682	37.6022
8/17/2006 8:37	0.976682	36.3814
8/17/2006 8:37	0.976682	36.3814
8/17/2006 8:37	0.976682	35.1605
8/17/2006 8:37	0.732511	32.7188
8/17/2006 8:38	0.976682	30.033
8/17/2006 8:38	2.93005	27.5913
8/17/2006 8:38	2.93005	27.1029
8/17/2006 8:38	4.88341	26.6146
8/17/2006 8:39	4.88341	26.3704
8/17/2006 8:39	4.88341	25.8821
8/17/2006 8:39	4.88341	25.8821
8/17/2006 8:39	4.88341	25.8821
8/17/2006 8:40	2.93005	25.8821
8/17/2006 8:40	2.93005	26.6146
8/17/2006 8:40	2.93005	26.8587
8/17/2006 8:40	0.732511	27.3471
8/17/2006 8:41	0.976682	27.1029
8/17/2006 8:41	0.976682	27.1029
8/17/2006 8:41	0.976682	27.1029
8/17/2006 8:41	0.732511	27.5913
8/17/2006 8:42	0.732511	27.8354
8/17/2006 8:42	0.732511	27.5913
8/17/2006 8:42	0.976682	27.5913
8/17/2006 8:42	0.976682	27.8354
8/17/2006 8:43	0.976682	28.0796
8/17/2006 8:43	0.976682	28.0796
8/17/2006 8:43	0.976682	27.5913
8/17/2006 8:43	0.976682	28.0796
8/17/2006 8:44	0.976682	28.0796
8/17/2006 8:44	0.732511	28.3238
8/17/2006 8:44	0.732511	28.3238
8/17/2006 8:44	0.976682	27.5913
8/17/2006 8:45	3.17422	27.5913
8/17/2006 8:45	4.88341	27.5913
8/17/2006 8:45	6.83677	28.3238
8/17/2006 8:45	8.79014	28.3238
8/17/2006 8:46	12.6969	28.8121
8/17/2006 8:46	12.941	28.8121
8/17/2006 8:46	10.9877	28.8121
8/17/2006 8:46	6.83677	29.3005

8/17/2006 8:47	6.83677	30.033
8/17/2006 8:47	6.83677	30.5213
8/17/2006 8:47	4.88341	31.7422
8/17/2006 8:47	4.88341	32.7188
8/17/2006 8:48	4.88341	34.6722
8/17/2006 8:48	4.88341	36.3814
8/17/2006 8:48	4.88341	38.0906
8/17/2006 8:48	6.83677	39.7998
8/17/2006 8:49	8.79014	41.7531
8/17/2006 8:49	10.9877	43.4623
8/17/2006 8:49	14.8944	46.1482
8/17/2006 8:49	16.8478	47.3691
8/17/2006 8:50	20.9987	49.3224
8/17/2006 8:50	20.9987	50.5433
8/17/2006 8:50	20.9987	51.7641
8/17/2006 8:50	22.952	52.985
8/17/2006 8:51	22.952	53.4733
8/17/2006 8:51	22.952	53.9617
8/17/2006 8:51	24.9054	54.6942
8/17/2006 8:51	24.9054	54.6942
8/17/2006 8:52	20.9987	55.1825
8/17/2006 8:52	14.8944	55.915
8/17/2006 8:52	12.6969	55.915
8/17/2006 8:52	10.9877	55.6709
8/17/2006 8:53	10.9877	55.6709
8/17/2006 8:53	10.9877	55.6709
8/17/2006 8:53	10.9877	55.6709
8/17/2006 8:53	9.03431	55.1825
8/17/2006 8:54	8.79014	55.4267
8/17/2006 8:54	8.79014	55.1825
8/17/2006 8:54	9.03431	54.6942
8/17/2006 8:54	8.79014	54.6942
8/17/2006 8:55	9.03431	54.2058
8/17/2006 8:55	10.7435	53.9617
8/17/2006 8:55	10.9877	53.4733
8/17/2006 8:55	14.8944	53.4733
8/17/2006 8:56	18.8011	52.985
8/17/2006 8:56	20.7545	52.985
8/17/2006 8:56	22.952	52.2525
8/17/2006 8:56	22.952	52.2525
8/17/2006 8:57	22.952	52.2525
8/17/2006 8:57	22.7079	51.7641
8/17/2006 8:57	22.7079	51.7641
8/17/2006 8:57	19.0453	51.7641
8/17/2006 8:58	12.941	51.2758
8/17/2006 8:58	10.7435	51.0316
8/17/2006 8:58	10.9877	50.5433
8/17/2006 8:58	10.9877	49.8108
8/17/2006 8:59	10.7435	50.0549
8/17/2006 8:59	10.9877	50.0549
8/17/2006 8:59	10.9877	49.8108
8/17/2006 8:59	10.9877	49.3224
8/17/2006 9:00	10.7435	49.3224
8/17/2006 9:00	10.9877	49.3224

8/17/2006 9:00	10.9877	48.8341
8/17/2006 9:00	10.7435	48.1016
8/17/2006 9:01	10.9877	48.5899
8/17/2006 9:01	12.941	48.5899
8/17/2006 9:01	12.941	48.3457
8/17/2006 9:01	12.941	48.1016
8/17/2006 9:02	14.8944	47.6132
8/17/2006 9:02	19.0453	47.3691
8/17/2006 9:02	20.7545	47.1249
8/17/2006 9:02	20.9987	46.8807
8/17/2006 9:03	20.7545	46.3924
8/17/2006 9:03	22.952	46.3924
8/17/2006 9:03	22.7079	46.3924
8/17/2006 9:03	22.952	45.6599
8/17/2006 9:04	20.7545	45.904
8/17/2006 9:04	17.0919	45.6599
8/17/2006 9:04	12.941	45.6599
8/17/2006 9:04	12.941	45.6599
8/17/2006 9:05	10.9877	45.904
8/17/2006 9:05	10.9877	45.904
8/17/2006 9:05	10.9877	45.1715
8/17/2006 9:05	10.9877	45.1715
8/17/2006 9:06	10.7435	45.4157
8/17/2006 9:06	10.9877	45.1715
8/17/2006 9:06	10.9877	45.4157
8/17/2006 9:06	10.9877	45.4157
8/17/2006 9:07	10.9877	44.6832
8/17/2006 9:07	10.9877	44.6832
8/17/2006 9:07	10.9877	44.6832
8/17/2006 9:07	10.9877	44.6832
8/17/2006 9:08	12.941	44.6832
8/17/2006 9:08	14.8944	43.9507
8/17/2006 9:08	19.0453	44.1948
8/17/2006 9:08	20.7545	43.9507
8/17/2006 9:09	22.7079	43.9507
8/17/2006 9:09	22.7079	44.1948
8/17/2006 9:09	22.7079	44.1948
8/17/2006 9:09	20.9987	43.9507
8/17/2006 9:10	22.7079	43.4623
8/17/2006 9:10	22.952	43.4623
8/17/2006 9:10	18.8011	43.7065
8/17/2006 9:10	15.1386	43.9507
8/17/2006 9:11	12.941	43.9507
8/17/2006 9:11	10.7435	44.1948
8/17/2006 9:11	10.9877	43.9507
8/17/2006 9:11	10.9877	43.9507
8/17/2006 9:12	10.9877	43.4623
8/17/2006 9:12	10.9877	44.1948
8/17/2006 9:12	10.9877	44.1948
8/17/2006 9:12	10.9877	43.9507
8/17/2006 9:13	10.9877	44.1948
8/17/2006 9:13	10.9877	43.9507
8/17/2006 9:13	10.9877	44.1948
8/17/2006 9:13	12.941	43.9507

8/17/2006 9:14	16.8478	43.9507
8/17/2006 9:14	18.8011	43.9507
8/17/2006 9:14	20.9987	43.4623
8/17/2006 9:14	20.7545	43.4623
8/17/2006 9:15	22.952	43.4623
8/17/2006 9:15	22.952	43.4623
8/17/2006 9:15	22.952	44.1948
8/17/2006 9:15	22.7079	44.1948
8/17/2006 9:16	22.952	43.2182
8/17/2006 9:16	20.9987	43.7065
8/17/2006 9:16	20.7545	42.974
8/17/2006 9:16	19.0453	42.974
8/17/2006 9:17	12.941	42.974
8/17/2006 9:17	10.9877	42.7298
8/17/2006 9:17	10.9877	42.974
8/17/2006 9:17	9.03431	42.7298
8/17/2006 9:18	10.9877	42.7298
8/17/2006 9:18	10.7435	43.7065
8/17/2006 9:18	10.9877	43.2182
8/17/2006 9:18	10.9877	42.974
8/17/2006 9:19	10.9877	42.7298
8/17/2006 9:19	10.7435	43.7065
8/17/2006 9:19	14.8944	43.4623
8/17/2006 9:19	18.8011	42.974
8/17/2006 9:20	18.8011	43.4623
8/17/2006 9:20	18.8011	43.4623
8/17/2006 9:20	19.0453	42.974
8/17/2006 9:20	18.8011	43.2182
8/17/2006 9:21	18.8011	42.974
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8/17/2006 9:21	20.7545	43.7065
8/17/2006 9:21	20.9987	43.4623
8/17/2006 9:22	20.7545	43.4623
8/17/2006 9:22	22.952	43.7065
8/17/2006 9:22	20.9987	43.4623
8/17/2006 9:22	18.8011	43.2182
8/17/2006 9:23	18.8011	43.4623
8/17/2006 9:23	14.8944	43.4623
8/17/2006 9:23	10.9877	43.7065
8/17/2006 9:23	10.9877	43.4623
8/17/2006 9:24	10.7435	43.4623
8/17/2006 9:24	9.03431	43.4623
8/17/2006 9:24	9.03431	43.4623
8/17/2006 9:24	10.9877	43.7065
8/17/2006 9:25	10.9877	43.9507
8/17/2006 9:25	10.9877	44.1948
8/17/2006 9:25	12.941	43.9507
8/17/2006 9:25	20.7545	44.1948
8/17/2006 9:26	24.9054	43.9507
8/17/2006 9:26	24.9054	44.1948
8/17/2006 9:26	24.9054	44.1948
8/17/2006 9:26	24.9054	44.1948
8/17/2006 9:27	22.952	43.4623
8/17/2006 9:27	22.952	43.4623

8/17/2006 9:27	24.9054	43.4623
8/17/2006 9:27	24.9054	44.1948
8/17/2006 9:28	22.7079	43.7065
8/17/2006 9:28	16.8478	43.4623
8/17/2006 9:28	12.941	43.4623
8/17/2006 9:28	10.9877	43.4623
8/17/2006 9:29	10.9877	43.9507
8/17/2006 9:29	9.03431	43.4623
8/17/2006 9:29	9.03431	42.7298
8/17/2006 9:29	6.83677	42.974
8/17/2006 9:30	6.83677	42.7298
8/17/2006 9:30	7.08094	42.974
8/17/2006 9:30	10.9877	42.7298
8/17/2006 9:30	10.9877	42.7298
8/17/2006 9:31	10.9877	42.4857
8/17/2006 9:31	10.9877	41.9973
8/17/2006 9:31	12.941	41.0206
8/17/2006 9:31	14.8944	41.0206
8/17/2006 9:32	12.941	40.5323
8/17/2006 9:32	14.8944	40.7765
8/17/2006 9:32	12.6969	40.5323
8/17/2006 9:32	12.941	40.5323
8/17/2006 9:33	10.9877	40.044
8/17/2006 9:33	10.9877	40.044
8/17/2006 9:33	9.03431	40.044
8/17/2006 9:33	6.83677	40.044
8/17/2006 9:34	6.83677	39.7998
8/17/2006 9:34	7.32511	40.044
8/17/2006 9:34	6.83677	40.044
8/17/2006 9:34	4.88341	40.044
8/17/2006 9:35	4.88341	39.3114
8/17/2006 9:35	4.88341	39.3114
8/17/2006 9:35	4.88341	38.5789
8/17/2006 9:35	4.88341	39.3114
8/17/2006 9:36	4.88341	39.3114
8/17/2006 9:36	4.88341	39.3114
8/17/2006 9:36	4.88341	38.8231
8/17/2006 9:36	4.88341	38.8231
8/17/2006 9:37	4.88341	38.0906
8/17/2006 9:37	2.93005	37.8464
8/17/2006 9:37	2.68587	38.8231
8/17/2006 9:37	2.93005	38.8231
8/17/2006 9:38	2.93005	38.0906
8/17/2006 9:38	2.93005	38.0906
8/17/2006 9:38	4.88341	37.6022
8/17/2006 9:38	6.83677	37.3581
8/17/2006 9:39	8.79014	37.6022
8/17/2006 9:39	8.79014	37.6022
8/17/2006 9:39	10.9877	37.3581
8/17/2006 9:39	10.9877	37.6022
8/17/2006 9:40	9.03431	37.6022
8/17/2006 9:40	6.83677	37.6022
8/17/2006 9:40	7.08094	37.6022
8/17/2006 9:40	4.88341	38.0906

8/17/2006 9:41	4.88341	38.0906
8/17/2006 9:41	2.93005	37.6022
8/17/2006 9:41	2.93005	36.8697
8/17/2006 9:41	2.93005	36.3814
8/17/2006 9:42	2.93005	36.3814
8/17/2006 9:42	2.93005	36.3814
8/17/2006 9:42	2.93005	36.3814
8/17/2006 9:42	2.93005	36.3814
8/17/2006 9:43	2.68587	36.6256
8/17/2006 9:43	2.93005	36.3814
8/17/2006 9:43	4.88341	35.8931
8/17/2006 9:43	6.83677	35.6489
8/17/2006 9:44	6.83677	35.6489
8/17/2006 9:44	6.83677	35.8931
8/17/2006 9:44	6.83677	35.8931
8/17/2006 9:44	6.83677	35.6489
8/17/2006 9:45	6.83677	35.6489
8/17/2006 9:45	6.83677	35.8931
8/17/2006 9:45	6.83677	35.8931
8/17/2006 9:45	6.83677	35.8931
8/17/2006 9:46	7.08094	35.6489
8/17/2006 9:46	4.88341	35.8931
8/17/2006 9:46	4.88341	35.1605
8/17/2006 9:46	2.68587	35.1605
8/17/2006 9:47	4.88341	35.1605
8/17/2006 9:47	2.93005	35.4047
8/17/2006 9:47	2.93005	34.6722
8/17/2006 9:47	2.93005	34.6722
8/17/2006 9:48	2.93005	34.6722
8/17/2006 9:48	2.93005	34.6722
8/17/2006 9:48	2.93005	34.428
8/17/2006 9:48	2.93005	34.428
8/17/2006 9:49	2.93005	34.6722
8/17/2006 9:49	2.93005	33.9397
8/17/2006 9:49	2.93005	33.9397
8/17/2006 9:49	2.93005	33.9397
8/17/2006 9:50	2.93005	33.4513
8/17/2006 9:50	2.93005	33.4513
8/17/2006 9:50	2.93005	33.6955
8/17/2006 9:50	5.12758	33.4513
8/17/2006 9:51	6.83677	33.6955
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8/17/2006 13:34	2.93005	55.915
8/17/2006 13:34	2.93005	55.1825
8/17/2006 13:34	4.88341	54.6942
8/17/2006 13:35	5.12758	53.9617
8/17/2006 13:35	4.88341	53.9617
8/17/2006 13:35	4.88341	53.9617
8/17/2006 13:35	2.93005	53.9617
8/17/2006 13:36	4.63924	54.2058
8/17/2006 13:36	2.93005	53.7175
8/17/2006 13:36	2.93005	54.6942
8/17/2006 13:36	2.93005	55.1825
8/17/2006 13:37	2.93005	55.6709
8/17/2006 13:37	5.12758	55.6709
8/17/2006 13:37	2.68587	55.6709
8/17/2006 13:37	2.93005	56.1592
8/17/2006 13:38	2.93005	57.1359
8/17/2006 13:38	2.93005	57.1359
8/17/2006 13:38	2.93005	56.8917
8/17/2006 13:38	2.93005	56.8917
8/17/2006 13:39	2.68587	57.1359
8/17/2006 13:39	2.93005	55.6709
8/17/2006 13:39	2.68587	55.6709
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8/17/2006 13:40	2.93005	55.915
8/17/2006 13:40	2.93005	55.1825
8/17/2006 13:40	2.93005	55.1825
8/17/2006 13:41	2.68587	53.9617
8/17/2006 13:41	2.93005	54.2058
8/17/2006 13:41	2.93005	54.6942
8/17/2006 13:41	2.93005	55.6709
8/17/2006 13:42	2.93005	57.6242

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8/17/2006 13:42	2.93005	55.6709
8/17/2006 13:42	2.93005	54.2058
8/17/2006 13:43	2.93005	53.4733
8/17/2006 13:43	2.93005	53.9617
8/17/2006 13:43	2.68587	55.6709
8/17/2006 13:43	2.93005	56.8917
8/17/2006 13:44	0.976682	56.1592
8/17/2006 13:44	2.68587	55.6709
8/17/2006 13:44	2.93005	55.6709
8/17/2006 13:44	2.93005	56.4034
8/17/2006 13:45	2.93005	56.4034
8/17/2006 13:45	2.93005	56.1592
8/17/2006 13:45	2.93005	57.1359
8/17/2006 13:45	0.976682	58.1126
8/17/2006 13:46	0.732511	58.6009
8/17/2006 13:46	2.93005	58.8451
8/17/2006 13:46	2.93005	58.8451
8/17/2006 13:46	4.88341	59.3334
8/17/2006 13:47	4.88341	59.3334
8/17/2006 13:47	4.88341	59.5776
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8/17/2006 13:49	4.88341	59.8218
8/17/2006 13:49	4.88341	59.8218
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8/17/2006 13:50	2.93005	59.3334
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8/17/2006 13:50	2.93005	61.0426
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8/17/2006 13:51	0.732511	60.5543
8/17/2006 13:51	2.93005	61.0426
8/17/2006 13:51	2.93005	61.0426
8/17/2006 13:52	2.93005	61.7751
8/17/2006 13:52	2.93005	61.5309
8/17/2006 13:52	2.93005	61.5309
8/17/2006 13:52	2.93005	61.7751
8/17/2006 13:53	2.93005	61.5309
8/17/2006 13:53	0.976682	62.2635
8/17/2006 13:53	0.732511	63.4843
8/17/2006 13:53	0.976682	65.4377
8/17/2006 13:54	0.976682	66.4144
8/17/2006 13:54	0.976682	67.391
8/17/2006 13:54	2.68587	68.1236
8/17/2006 13:54	2.93005	69.3444
8/17/2006 13:55	2.68587	69.8327
8/17/2006 13:55	2.93005	70.5653
8/17/2006 13:55	2.93005	71.5419

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8/17/2006 13:56	2.93005	74.472
8/17/2006 13:56	2.93005	76.4253
8/17/2006 13:56	2.93005	78.1345
8/17/2006 13:56	2.93005	79.5996
8/17/2006 13:57	2.93005	81.7971
8/17/2006 13:57	2.93005	82.7738
8/17/2006 13:57	2.93005	82.7738
8/17/2006 13:57	4.88341	83.5063
8/17/2006 13:58	6.83677	85.2155
8/17/2006 13:58	7.08094	87.413
8/17/2006 13:58	7.08094	88.1455
8/17/2006 13:58	7.08094	87.413
8/17/2006 13:59	6.83677	87.6572
8/17/2006 13:59	6.83677	88.1455
8/17/2006 13:59	6.83677	89.3664
8/17/2006 13:59	6.83677	89.8547
8/17/2006 14:00	4.88341	89.1222
8/17/2006 14:00	2.93005	90.0989
8/17/2006 14:00	2.68587	90.5872
8/17/2006 14:00	2.93005	90.3431
8/17/2006 14:01	2.93005	90.5872
8/17/2006 14:01	0.976682	91.3197
8/17/2006 14:01	2.93005	91.8081
8/17/2006 14:01	0.732511	91.8081
8/17/2006 14:02	0.976682	90.8314
8/17/2006 14:02	2.93005	91.0756
8/17/2006 14:02	2.93005	92.2964
8/17/2006 14:02	5.12758	93.2731
8/17/2006 14:03	2.93005	94.2498
8/17/2006 14:03	2.93005	92.7848
8/17/2006 14:03	2.93005	91.8081
8/17/2006 14:03	2.93005	91.0756
8/17/2006 14:04	0.732511	91.3197
8/17/2006 14:04	0.732511	91.0756
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8/17/2006 14:05	0.732511	90.0989
8/17/2006 14:05	0.976682	89.8547
8/17/2006 14:05	0.976682	90.0989
8/17/2006 14:05	2.93005	88.6339
8/17/2006 14:06	2.93005	85.2155
8/17/2006 14:06	2.93005	81.5529
8/17/2006 14:06	4.88341	79.3554
8/17/2006 14:06	2.93005	78.1345
8/17/2006 14:07	4.88341	77.6462
8/17/2006 14:07	4.88341	77.6462
8/17/2006 14:07	4.88341	76.9137
8/17/2006 14:07	4.88341	76.4253
8/17/2006 14:08	7.08094	76.1812
8/17/2006 14:08	6.83677	77.6462
8/17/2006 14:08	4.88341	78.6229
8/17/2006 14:08	2.93005	79.3554
8/17/2006 14:09	2.93005	78.6229

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8/17/2006 14:09	2.93005	76.9137
8/17/2006 14:09	2.93005	76.4253
8/17/2006 14:10	0.976682	75.6928
8/17/2006 14:10	2.68587	76.4253
8/17/2006 14:10	2.93005	75.6928
8/17/2006 14:10	1.22085	75.937
8/17/2006 14:11	0.732511	75.937
8/17/2006 14:11	2.93005	76.9137
8/17/2006 14:11	2.93005	77.6462
8/17/2006 14:11	0.976682	77.1579
8/17/2006 14:12	0.976682	76.9137
8/17/2006 14:12	0.732511	78.1345
8/17/2006 14:12	0.732511	79.3554
8/17/2006 14:12	0.976682	80.5762
8/17/2006 14:13	0.976682	80.3321
8/17/2006 14:13	0.976682	81.0646
8/17/2006 14:13	0.976682	81.5529
8/17/2006 14:13	0.732511	83.2621
8/17/2006 14:14	0.976682	84.483
8/17/2006 14:14	0.732511	84.9713
8/17/2006 14:14	0.732511	84.7271
8/17/2006 14:14	0.732511	85.2155
8/17/2006 14:15	0.976682	85.948
8/17/2006 14:15	0.976682	86.4363
8/17/2006 14:15	0.976682	86.9247
8/17/2006 14:15	0.732511	86.9247
8/17/2006 14:16	0.732511	87.1688
8/17/2006 14:16	0.976682	87.6572
8/17/2006 14:16	2.68587	88.1455
8/17/2006 14:16	2.93005	88.878
8/17/2006 14:17	4.88341	88.878
8/17/2006 14:17	4.63924	88.878
8/17/2006 14:17	4.88341	88.878
8/17/2006 14:17	4.88341	89.3664
8/17/2006 14:18	4.88341	90.0989
8/17/2006 14:18	5.12758	89.8547
8/17/2006 14:18	4.88341	89.3664
8/17/2006 14:18	4.88341	89.3664
8/17/2006 14:19	4.88341	89.3664
8/17/2006 14:19	2.93005	89.8547
8/17/2006 14:19	2.93005	90.5872
8/17/2006 14:19	2.93005	91.3197
8/17/2006 14:20	0.976682	90.5872
8/17/2006 14:20	0.732511	90.5872
8/17/2006 14:20	0.976682	91.0756
8/17/2006 14:20	0.976682	92.2964
8/17/2006 14:21	0.976682	91.8081
8/17/2006 14:21	0.732511	91.5639
8/17/2006 14:21	0.976682	91.5639
8/17/2006 14:21	0.976682	93.0289
8/17/2006 14:22	0.976682	94.2498
8/17/2006 14:22	0.732511	94.494
8/17/2006 14:22	0.976682	94.494

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8/17/2006 14:23	0.976682	94.7381
8/17/2006 14:23	0.976682	94.494
8/17/2006 14:23	0.976682	95.2265
8/17/2006 14:23	0.732511	94.494
8/17/2006 14:24	0.976682	94.0056
8/17/2006 14:24	2.68587	94.7381
8/17/2006 14:24	2.93005	94.9823
8/17/2006 14:24	2.93005	95.2265
8/17/2006 14:25	2.93005	95.7148
8/17/2006 14:25	2.93005	96.6915
8/17/2006 14:25	2.68587	100.11
8/17/2006 14:25	0.976682	102.796
8/17/2006 14:26	0.976682	104.505
8/17/2006 14:26	0.976682	106.214
8/17/2006 14:26	2.93005	108.168
8/17/2006 14:26	4.88341	110.365
8/17/2006 14:27	4.88341	114.028
8/17/2006 14:27	4.88341	116.469
8/17/2006 14:27	5.12758	118.178
8/17/2006 14:27	4.88341	118.911
8/17/2006 14:28	4.88341	119.888
8/17/2006 14:28	4.88341	121.109
8/17/2006 14:28	4.88341	122.085
8/17/2006 14:28	4.88341	124.039
8/17/2006 14:29	2.93005	126.236
8/17/2006 14:29	2.93005	128.189
8/17/2006 14:29	2.93005	128.678
8/17/2006 14:29	2.93005	129.899
8/17/2006 14:30	2.93005	132.34
8/17/2006 14:30	2.93005	133.805
8/17/2006 14:30	2.93005	135.27
8/17/2006 14:30	0.732511	136.247
8/17/2006 14:31	0.976682	136.98
8/17/2006 14:31	0.732511	137.468
8/17/2006 14:31	0.976682	138.689
8/17/2006 14:31	0.976682	139.421
8/17/2006 14:32	0.732511	140.398
8/17/2006 14:32	0.732511	140.886
8/17/2006 14:32	0.732511	141.619
8/17/2006 14:32	0.976682	142.351
8/17/2006 14:33	0.732511	142.84
8/17/2006 14:33	0.976682	142.84
8/17/2006 14:33	0.976682	142.351
8/17/2006 14:33	0.976682	141.619
8/17/2006 14:34	0.732511	140.886
8/17/2006 14:34	0.732511	141.619
8/17/2006 14:34	0.976682	142.107
8/17/2006 14:34	2.93005	142.351
8/17/2006 14:35	2.93005	140.886
8/17/2006 14:35	2.93005	141.131
8/17/2006 14:35	2.93005	142.596
8/17/2006 14:35	2.93005	144.549
8/17/2006 14:36	2.93005	144.305

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8/17/2006 14:36	2.68587	144.061
8/17/2006 14:36	2.93005	144.305
8/17/2006 14:37	2.93005	145.77
8/17/2006 14:37	4.88341	145.77
8/17/2006 14:37	5.12758	145.77
8/17/2006 14:37	2.93005	145.526
8/17/2006 14:38	2.93005	144.061
8/17/2006 14:38	2.93005	139.177
8/17/2006 14:38	2.93005	135.515
8/17/2006 14:38	2.93005	132.829
8/17/2006 14:39	2.93005	131.608
8/17/2006 14:39	2.93005	132.096
8/17/2006 14:39	2.93005	132.096
8/17/2006 14:39	2.93005	131.608
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8/17/2006 14:40	4.88341	132.829
8/17/2006 14:40	4.88341	132.829
8/17/2006 14:41	2.93005	133.317
8/17/2006 14:41	2.93005	133.317
8/17/2006 14:41	3.17422	133.561
8/17/2006 14:41	2.93005	134.05
8/17/2006 14:42	2.93005	134.05
8/17/2006 14:42	2.93005	133.805
8/17/2006 14:42	0.732511	133.561
8/17/2006 14:42	0.976682	132.096
8/17/2006 14:43	0.976682	129.654
8/17/2006 14:43	0.976682	127.457
8/17/2006 14:43	0.976682	126.724
8/17/2006 14:43	0.976682	128.678
8/17/2006 14:44	0.976682	130.631
8/17/2006 14:44	0.976682	133.317
8/17/2006 14:44	-0.976682	135.026
8/17/2006 14:44	0.976682	136.735
8/17/2006 14:45	0.976682	138.689
8/17/2006 14:45	0.976682	139.177
8/17/2006 14:45	0.976682	138.933
8/17/2006 14:45	0.976682	137.468
8/17/2006 14:46	0.976682	138.2
8/17/2006 14:46	0.976682	140.642
8/17/2006 14:46	0.732511	145.037
8/17/2006 14:46	0.976682	149.188
8/17/2006 14:47	0.976682	152.851
8/17/2006 14:47	0.976682	156.513
8/17/2006 14:47	0.976682	159.932
8/17/2006 14:47	0.976682	162.862
8/17/2006 14:48	2.93005	165.303
8/17/2006 14:48	5.12758	167.745
8/17/2006 14:48	4.88341	169.698
8/17/2006 14:48	4.88341	172.14
8/17/2006 14:49	4.88341	174.094
8/17/2006 14:49	4.88341	176.047
8/17/2006 14:49	4.88341	177.512

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8/17/2006 14:50	4.88341	181.174
8/17/2006 14:50	4.88341	182.884
8/17/2006 14:50	4.88341	184.105
8/17/2006 14:51	4.88341	185.081
8/17/2006 14:51	4.88341	187.035
8/17/2006 14:51	4.88341	188.744
8/17/2006 14:51	4.88341	190.453
8/17/2006 14:52	2.93005	191.185
8/17/2006 14:52	2.93005	191.918
8/17/2006 14:52	2.93005	193.383
8/17/2006 14:52	2.93005	194.604
8/17/2006 14:53	0.976682	196.313
8/17/2006 14:53	0.732511	196.313
8/17/2006 14:53	0.976682	196.801
8/17/2006 14:53	2.93005	197.778
8/17/2006 14:54	0.976682	198.755
8/17/2006 14:54	0.976682	196.313
8/17/2006 14:54	0.976682	194.115
8/17/2006 14:54	0.976682	194.115
8/17/2006 14:55	0.732511	197.046
8/17/2006 14:55	0.976682	199.487
8/17/2006 14:55	0.976682	199.731
8/17/2006 14:55	0.976682	199.487
8/17/2006 14:56	0.976682	200.464
8/17/2006 14:56	1.22085	201.196
8/17/2006 14:56	0.976682	200.952
8/17/2006 14:56	0.976682	199.243
8/17/2006 14:57	0.976682	196.313
8/17/2006 14:57	0.976682	193.383
8/17/2006 14:57	2.93005	191.185
8/17/2006 14:57	4.88341	188.988
8/17/2006 14:58	5.12758	187.523
8/17/2006 14:58	6.83677	185.814
8/17/2006 14:58	6.83677	184.593
8/17/2006 14:58	8.79014	185.325
8/17/2006 14:59	6.83677	185.814
8/17/2006 14:59	8.79014	172.14
8/17/2006 14:59	9.03431	172.384
8/17/2006 14:59	8.79014	179.221
8/17/2006 15:00	9.03431	187.035
8/17/2006 15:00	6.83677	188.011
8/17/2006 15:00	4.88341	192.162
8/17/2006 15:00	4.88341	194.115
8/17/2006 15:01	4.88341	194.36
8/17/2006 15:01	2.93005	197.046
8/17/2006 15:01	2.93005	199.243
8/17/2006 15:01	2.93005	198.755
8/17/2006 15:02	0.976682	199.243
8/17/2006 15:02	0.976682	199.731
8/17/2006 15:02	0.976682	200.464
8/17/2006 15:02	0.732511	201.196
8/17/2006 15:03	0.732511	201.685

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8/17/2006 15:03	-0.976682	204.126
8/17/2006 15:03	-1.22085	204.371
8/17/2006 15:04	-0.976682	205.836
8/17/2006 15:04	-0.976682	206.324
8/17/2006 15:04	-0.976682	206.812
8/17/2006 15:04	-1.22085	208.033
8/17/2006 15:05	-0.976682	209.254
8/17/2006 15:05	-0.976682	210.475
8/17/2006 15:05	-0.976682	210.475
8/17/2006 15:05	-0.976682	209.742
8/17/2006 15:06	0.976682	210.963
8/17/2006 15:06	0.732511	212.917
8/17/2006 15:06	2.93005	213.405
8/17/2006 15:06	2.93005	213.405
8/17/2006 15:07	4.88341	214.626
8/17/2006 15:07	4.88341	215.602
8/17/2006 15:07	4.88341	217.068
8/17/2006 15:07	7.08094	217.312
8/17/2006 15:08	6.83677	217.556
8/17/2006 15:08	7.08094	218.044
8/17/2006 15:08	6.83677	218.044
8/17/2006 15:08	6.83677	217.556
8/17/2006 15:09	9.03431	218.288
8/17/2006 15:09	9.03431	220.486
8/17/2006 15:09	6.83677	221.707
8/17/2006 15:09	7.08094	222.195
8/17/2006 15:10	4.88341	222.928
8/17/2006 15:10	5.12758	223.416
8/17/2006 15:10	4.88341	225.369
8/17/2006 15:10	2.93005	225.858
8/17/2006 15:11	2.93005	226.346
8/17/2006 15:11	2.93005	227.567
8/17/2006 15:11	2.68587	228.544
8/17/2006 15:11	0.976682	229.276
8/17/2006 15:12	0.732511	228.788
8/17/2006 15:12	0.976682	228.055
8/17/2006 15:12	0.732511	228.788
8/17/2006 15:12	0.732511	229.52
8/17/2006 15:13	0.976682	230.497
8/17/2006 15:13	0.976682	231.718
8/17/2006 15:13	0.732511	231.718
8/17/2006 15:13	0.976682	230.985
8/17/2006 15:14	0.976682	230.497
8/17/2006 15:14	0.976682	231.229
8/17/2006 15:14	0.976682	230.741
8/17/2006 15:14	0.976682	231.229
8/17/2006 15:15	0.732511	231.229
8/17/2006 15:15	0.976682	230.253
8/17/2006 15:15	2.68587	230.497
8/17/2006 15:15	2.93005	231.718
8/17/2006 15:16	2.93005	234.648
8/17/2006 15:16	4.88341	236.357
8/17/2006 15:16	4.88341	236.113

8/17/2006 15:16	4.88341	236.357
8/17/2006 15:17	4.88341	238.31
8/17/2006 15:17	5.12758	238.799
8/17/2006 15:17	4.88341	238.799
8/17/2006 15:17	4.88341	238.555
8/17/2006 15:18	6.83677	239.287
8/17/2006 15:18	6.83677	239.287
8/17/2006 15:18	6.83677	239.287
8/17/2006 15:18	15.3827	240.02
8/17/2006 15:19	15.3827	240.02
8/17/2006 15:19	15.3827	240.02
8/17/2006 15:19	15.3827	240.02
8/17/2006 15:19	15.3827	240.02
8/17/2006 15:20	6.83677	270.052
8/17/2006 15:20	7.08094	246.856
8/17/2006 15:20	4.88341	247.1
8/17/2006 15:20	4.88341	245.391
8/17/2006 15:21	2.93005	247.589
8/17/2006 15:21	2.68587	248.321
8/17/2006 15:21	2.93005	247.589
8/17/2006 15:21	2.93005	244.415
8/17/2006 15:22	2.93005	245.147
8/17/2006 15:22	2.68587	245.147
8/17/2006 15:22	2.93005	244.659
8/17/2006 15:22	0.976682	242.95
8/17/2006 15:23	0.732511	243.194
8/17/2006 15:23	0.976682	242.95
8/17/2006 15:23	0.976682	243.438
8/17/2006 15:23	0.976682	242.705
8/17/2006 15:24	0.976682	242.217
8/17/2006 15:24	0.976682	240.264
8/17/2006 15:24	0.976682	239.287
8/17/2006 15:24	0.732511	238.555
8/17/2006 15:25	0.976682	238.555
8/17/2006 15:25	0.976682	239.531
8/17/2006 15:25	0.732511	237.578
8/17/2006 15:25	0.976682	235.38
8/17/2006 15:26	0.976682	234.892
8/17/2006 15:26	0.732511	236.357
8/17/2006 15:26	2.68587	236.845
8/17/2006 15:26	2.93005	237.334
8/17/2006 15:27	2.93005	238.066
8/17/2006 15:27	2.68587	238.066
8/17/2006 15:27	2.93005	238.066
8/17/2006 15:27	2.68587	238.31
8/17/2006 15:28	2.93005	238.555
8/17/2006 15:28	2.93005	238.799
8/17/2006 15:28	4.88341	238.066
8/17/2006 15:28	4.88341	238.31
8/17/2006 15:29	2.93005	237.089
8/17/2006 15:29	2.93005	235.136
8/17/2006 15:29	4.88341	235.136
8/17/2006 15:29	2.93005	237.578
8/17/2006 15:30	4.88341	238.555

8/17/2006 15:30	4.88341	237.089
8/17/2006 15:30	4.88341	236.113
8/17/2006 15:30	4.88341	237.578
8/17/2006 15:31	4.88341	239.287
8/17/2006 15:31	4.88341	240.508
8/17/2006 15:31	2.93005	241.485
8/17/2006 15:31	2.93005	242.95
8/17/2006 15:32	0.976682	242.217
8/17/2006 15:32	0.732511	242.217
8/17/2006 15:32	0.732511	242.95
8/17/2006 15:32	0.976682	242.217
8/17/2006 15:33	0.976682	242.217
8/17/2006 15:33	0.976682	242.217
8/17/2006 15:33	0.976682	242.217
8/17/2006 15:33	0.976682	242.217
8/17/2006 15:34	0.976682	250.275
8/17/2006 15:34	0.976682	250.519
8/17/2006 15:34	0.732511	250.519
8/17/2006 15:34	-0.976682	249.298
8/17/2006 15:35	-0.976682	247.589
8/17/2006 15:35	-1.22085	248.565
8/17/2006 15:35	-0.976682	246.856
8/17/2006 15:35	-1.22085	247.345
8/17/2006 15:36	-0.976682	246.368
8/17/2006 15:36	-0.976682	245.147
8/17/2006 15:36	-1.22085	245.147
8/17/2006 15:36	-0.976682	244.903
8/17/2006 15:37	-1.22085	244.415
8/17/2006 15:37	-0.976682	244.17
8/17/2006 15:37	0.976682	242.95
8/17/2006 15:37	0.976682	242.95
8/17/2006 15:38	0.976682	242.705
8/17/2006 15:38	0.976682	242.95
8/17/2006 15:38	2.93005	243.438
8/17/2006 15:38	2.93005	243.682
8/17/2006 15:39	2.93005	244.659
8/17/2006 15:39	2.93005	243.438
8/17/2006 15:39	2.93005	242.217
8/17/2006 15:39	2.93005	240.996
8/17/2006 15:40	2.93005	240.02
8/17/2006 15:40	2.93005	239.775
8/17/2006 15:40	2.93005	239.775
8/17/2006 15:40	2.93005	239.287
8/17/2006 15:41	2.93005	238.799
8/17/2006 15:41	2.93005	238.066
8/17/2006 15:41	2.93005	237.089
8/17/2006 15:41	2.93005	236.357
8/17/2006 15:42	0.976682	236.357
8/17/2006 15:42	0.976682	235.869
8/17/2006 15:42	0.976682	234.159
8/17/2006 15:42	0.732511	231.718
8/17/2006 15:43	0.976682	229.276
8/17/2006 15:43	0.732511	227.567
8/17/2006 15:43	-1.22085	227.079

8/17/2006 15:43	-0.976682	228.055
8/17/2006 15:44	-0.976682	228.299
8/17/2006 15:44	-0.976682	227.567
8/17/2006 15:44	-1.22085	226.834
8/17/2006 15:44	-0.976682	227.567
8/17/2006 15:45	-0.976682	227.567
8/17/2006 15:45	-0.976682	227.567
8/17/2006 15:45	-0.976682	227.567
8/17/2006 15:45	-0.976682	227.567
8/17/2006 15:46	-0.976682	227.567
8/17/2006 15:46	-0.976682	227.567
8/17/2006 15:46	-0.976682	227.567
8/17/2006 15:46	-0.976682	232.694
8/17/2006 15:47	-0.976682	238.555
8/17/2006 15:47	-1.22085	240.508
8/17/2006 15:47	-3.17422	242.217
8/17/2006 15:47	-1.22085	241.729
8/17/2006 15:48	-1.22085	240.996
8/17/2006 15:48	-0.976682	240.996
8/17/2006 15:48	-1.22085	241.485
8/17/2006 15:48	-0.976682	241.485
8/17/2006 15:49	-0.976682	242.217
8/17/2006 15:49	0.976682	241.729
8/17/2006 15:49	0.732511	240.996
8/17/2006 15:49	2.93005	240.508
8/17/2006 15:50	2.93005	240.996
8/17/2006 15:50	2.93005	241.24
8/17/2006 15:50	2.93005	240.996
8/17/2006 15:50	2.68587	240.996
8/17/2006 15:51	2.93005	240.996
8/17/2006 15:51	2.93005	240.996
8/17/2006 15:51	2.68587	240.996
8/17/2006 15:51	2.68587	240.508
8/17/2006 15:52	2.93005	239.775
8/17/2006 15:52	2.93005	239.775
8/17/2006 15:52	2.93005	239.531
8/17/2006 15:52	3.17422	239.287
8/17/2006 15:53	2.93005	239.775
8/17/2006 15:53	0.976682	240.996
8/17/2006 15:53	0.976682	240.996
8/17/2006 15:53	0.976682	239.043
8/17/2006 15:54	0.732511	238.799
8/17/2006 15:54	0.976682	238.066
8/17/2006 15:54	0.976682	237.089
8/17/2006 15:54	-0.976682	237.334
8/17/2006 15:55	-1.22085	237.578
8/17/2006 15:55	-1.22085	238.066
8/17/2006 15:55	-1.22085	237.334
8/17/2006 15:55	-0.976682	237.334
8/17/2006 15:56	-0.976682	236.845
8/17/2006 15:56	-0.976682	237.578
8/17/2006 15:56	-0.976682	238.555
8/17/2006 15:56	-1.22085	239.287
8/17/2006 15:57	-0.976682	239.775

8/17/2006 15:57	-0.976682	239.531
8/17/2006 15:57	-0.976682	238.066
8/17/2006 15:57	-0.976682	236.845
8/17/2006 15:58	-1.22085	236.845
8/17/2006 15:58	-0.976682	237.334
8/17/2006 15:58	-0.976682	237.089
8/17/2006 15:58	0.976682	235.869
8/17/2006 15:59	0.976682	235.869
8/17/2006 15:59	0.976682	236.845
8/17/2006 15:59	0.976682	237.578
8/17/2006 15:59	0.732511	236.357
8/17/2006 16:00	0.976682	235.136
8/17/2006 16:00	2.93005	234.404
8/17/2006 16:00	2.93005	235.624
8/17/2006 16:00	2.93005	235.38
8/17/2006 16:01	2.93005	235.869
8/17/2006 16:01	2.68587	234.404
8/17/2006 16:01	2.93005	235.869
8/17/2006 16:01	2.93005	236.845
8/17/2006 16:02	2.93005	236.601
8/17/2006 16:02	2.93005	235.624
8/17/2006 16:02	0.976682	235.869
8/17/2006 16:02	0.732511	236.357
8/17/2006 16:03	0.976682	236.357
8/17/2006 16:03	0.732511	236.845
8/17/2006 16:03	0.732511	237.578
8/17/2006 16:03	0.976682	238.066
8/17/2006 16:04	-0.976682	238.066
8/17/2006 16:04	0.732511	238.31
8/17/2006 16:04	0.732511	238.799
8/17/2006 16:04	0.732511	238.066
8/17/2006 16:05	-1.22085	238.799
8/17/2006 16:05	-0.976682	238.066
8/17/2006 16:05	-1.22085	238.31
8/17/2006 16:05	-1.22085	238.066
8/17/2006 16:06	0.976682	238.066
8/17/2006 16:06	0.976682	238.066
8/17/2006 16:06	0.976682	238.066
8/17/2006 16:06	0.976682	238.066
8/17/2006 16:07	0.976682	238.066
8/17/2006 16:07	-0.976682	241.485
8/17/2006 16:07	-1.22085	243.438
8/17/2006 16:07	-0.976682	243.194
8/17/2006 16:08	-0.976682	243.926
8/17/2006 16:08	-0.976682	244.659
8/17/2006 16:08	-0.976682	243.926
8/17/2006 16:08	0.732511	240.996
8/17/2006 16:09	0.732511	240.508
8/17/2006 16:09	0.732511	242.217
8/17/2006 16:09	0.732511	243.682
8/17/2006 16:09	0.732511	243.438
8/17/2006 16:10	0.976682	242.95
8/17/2006 16:10	0.976682	241.729
8/17/2006 16:10	0.976682	241.729

8/17/2006 16:10	0.976682	241.485
8/17/2006 16:11	0.976682	242.217
8/17/2006 16:11	0.732511	242.217
8/17/2006 16:11	0.732511	240.996
8/17/2006 16:11	0.732511	240.264
8/17/2006 16:12	0.976682	240.264
8/17/2006 16:12	0.732511	240.508
8/17/2006 16:12	0.976682	239.775
8/17/2006 16:12	0.976682	239.531
8/17/2006 16:13	0.976682	239.287
8/17/2006 16:13	0.976682	239.043
8/17/2006 16:13	0.976682	238.066
8/17/2006 16:13	0.732511	238.066
8/17/2006 16:14	0.976682	237.578
8/17/2006 16:14	0.732511	237.578
8/17/2006 16:14	0.732511	238.066
8/17/2006 16:14	2.93005	239.287
8/17/2006 16:15	2.93005	239.775
8/17/2006 16:15	2.68587	240.02
8/17/2006 16:15	2.93005	239.775
8/17/2006 16:15	2.93005	239.287
8/17/2006 16:16	2.93005	238.066
8/17/2006 16:16	2.68587	237.578
8/17/2006 16:16	2.93005	238.31
8/17/2006 16:16	2.93005	240.02
8/17/2006 16:17	2.93005	239.043
8/17/2006 16:17	2.93005	236.845
8/17/2006 16:17	2.93005	235.136
8/17/2006 16:17	0.976682	234.404
8/17/2006 16:18	0.976682	235.136
8/17/2006 16:18	0.732511	235.136
8/17/2006 16:18	0.976682	235.136
8/17/2006 16:18	0.732511	235.869
8/17/2006 16:19	0.732511	235.869
8/17/2006 16:19	0.732511	235.136
8/17/2006 16:19	0.732511	234.648
8/17/2006 16:19	0.732511	233.427
8/17/2006 16:20	0.732511	232.694
8/17/2006 16:20	0.732511	231.718
8/17/2006 16:20	0.732511	232.206
8/17/2006 16:20	0.976682	231.718
8/17/2006 16:21	0.732511	230.985
8/17/2006 16:21	0.732511	230.497
8/17/2006 16:21	0.732511	230.497
8/17/2006 16:21	0.732511	230.497
8/17/2006 16:22	0.732511	230.009
8/17/2006 16:22	0.732511	230.009
8/17/2006 16:22	0.732511	229.276
8/17/2006 16:22	0.732511	228.055
8/17/2006 16:23	0.732511	226.834
8/17/2006 16:23	0.976682	226.346
8/17/2006 16:23	0.732511	225.858
8/17/2006 16:23	0.732511	227.079
8/17/2006 16:24	0.732511	226.834

8/17/2006 16:24	0.732511	226.834
8/17/2006 16:24	0.976682	227.567
8/17/2006 16:24	0.976682	228.055
8/17/2006 16:25	0.732511	228.055
8/17/2006 16:25	0.732511	227.567
8/17/2006 16:25	0.976682	228.299
8/17/2006 16:25	0.976682	230.497
8/17/2006 16:26	0.732511	232.45
8/17/2006 16:26	0.732511	233.427
8/17/2006 16:26	0.976682	233.183
8/17/2006 16:26	0.976682	234.159
8/17/2006 16:27	0.732511	233.915
8/17/2006 16:27	0.976682	234.159
8/17/2006 16:27	0.732511	233.915
8/17/2006 16:27	0.976682	233.915
8/17/2006 16:28	0.732511	234.159
8/17/2006 16:28	0.732511	233.915
8/17/2006 16:28	0.976682	234.159
8/17/2006 16:28	2.93005	233.183
8/17/2006 16:29	2.68587	233.183
8/17/2006 16:29	2.93005	233.427
8/17/2006 16:29	2.93005	233.915
8/17/2006 16:29	2.93005	234.159
8/17/2006 16:30	2.93005	234.159
8/17/2006 16:30	2.93005	234.159
8/17/2006 16:30	2.93005	233.427
8/17/2006 16:30	2.68587	233.427
8/17/2006 16:31	0.732511	232.939
8/17/2006 16:31	0.732511	232.206
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8/17/2006 16:31	0.732511	232.206
8/17/2006 16:32	0.732511	231.718
8/17/2006 16:32	0.976682	230.985
8/17/2006 16:32	0.732511	230.985
8/17/2006 16:32	0.732511	230.253
8/17/2006 16:33	0.732511	229.276
8/17/2006 16:33	0.732511	228.788
8/17/2006 16:33	0.976682	229.276
8/17/2006 16:33	0.732511	229.276
8/17/2006 16:34	-0.976682	229.52
8/17/2006 16:34	0.732511	229.276
8/17/2006 16:34	0.732511	229.764
8/17/2006 16:34	0.976682	229.276
8/17/2006 16:35	0.732511	228.788
8/17/2006 16:35	0.732511	227.567
8/17/2006 16:35	0.976682	226.834
8/17/2006 16:35	0.976682	226.834
8/17/2006 16:36	0.732511	226.834
8/17/2006 16:36	0.976682	228.299
8/17/2006 16:36	0.732511	229.276
8/17/2006 16:36	0.732511	229.276
8/17/2006 16:37	0.732511	227.567
8/17/2006 16:37	0.732511	225.613
8/17/2006 16:37	2.93005	226.346

8/17/2006 16:37	2.93005	227.567
8/17/2006 16:38	2.93005	228.055
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8/17/2006 16:38	2.93005	227.567
8/17/2006 16:38	2.93005	228.055
8/17/2006 16:39	2.93005	228.788
8/17/2006 16:39	2.93005	228.055
8/17/2006 16:39	2.93005	227.567
8/17/2006 16:39	2.93005	227.079
8/17/2006 16:40	0.976682	228.055
8/17/2006 16:40	2.93005	229.276
8/17/2006 16:40	0.732511	228.788
8/17/2006 16:40	0.732511	228.055
8/17/2006 16:41	0.732511	226.834
8/17/2006 16:41	0.732511	225.369
8/17/2006 16:41	0.732511	224.881
8/17/2006 16:41	0.976682	223.904
8/17/2006 16:42	0.732511	222.928
8/17/2006 16:42	0.732511	221.951
8/17/2006 16:42	0.732511	222.195
8/17/2006 16:42	0.732511	221.707
8/17/2006 16:43	-1.22085	220.974
8/17/2006 16:43	0.732511	220.974
8/17/2006 16:43	-1.22085	220.486
8/17/2006 16:43	0.732511	220.486
8/17/2006 16:44	-0.976682	220.242
8/17/2006 16:44	0.732511	221.218
8/17/2006 16:44	0.976682	220.974
8/17/2006 16:44	0.976682	220.974
8/17/2006 16:45	0.976682	221.463
8/17/2006 16:45	0.732511	220.974
8/17/2006 16:45	0.976682	220.974
8/17/2006 16:45	0.732511	220.486
8/17/2006 16:46	0.976682	220.486
8/17/2006 16:46	0.732511	219.753
8/17/2006 16:46	2.93005	219.753
8/17/2006 16:46	2.93005	219.265
8/17/2006 16:47	2.93005	219.021
8/17/2006 16:47	2.93005	219.265
8/17/2006 16:47	2.93005	219.998
8/17/2006 16:47	2.68587	220.486
8/17/2006 16:48	2.93005	220.486
8/17/2006 16:48	2.93005	220.486
8/17/2006 16:48	4.88341	219.021
8/17/2006 16:48	2.68587	218.777
8/17/2006 16:49	2.93005	218.288
8/17/2006 16:49	2.93005	218.777
8/17/2006 16:49	0.976682	219.265
8/17/2006 16:49	2.93005	218.777
8/17/2006 16:50	2.68587	218.777
8/17/2006 16:50	0.976682	218.044
8/17/2006 16:50	0.976682	218.044
8/17/2006 16:50	0.976682	218.044
8/17/2006 16:51	0.732511	218.777

8/17/2006 16:51	0.732511	219.265
8/17/2006 16:51	0.732511	218.533
8/17/2006 16:51	0.732511	217.068
8/17/2006 16:52	0.732511	215.602
8/17/2006 16:52	0.976682	215.602
8/17/2006 16:52	0.732511	216.335
8/17/2006 16:52	0.976682	216.823
8/17/2006 16:53	0.976682	216.823
8/17/2006 16:53	0.732511	217.068
8/17/2006 16:53	0.732511	216.579
8/17/2006 16:53	0.732511	217.068
8/17/2006 16:54	0.732511	216.823
8/17/2006 16:54	0.976682	216.335
8/17/2006 16:54	0.976682	216.335
8/17/2006 16:54	0.976682	216.579
8/17/2006 16:55	0.976682	216.579
8/17/2006 16:55	0.976682	215.847
8/17/2006 16:55	0.732511	215.602
8/17/2006 16:55	0.732511	215.847

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/15/2006
Project #:	45396	Operator:	SC	Source:	PCC	Time:	

Method / Gas	10 / CO	10 / CO	6C / SO2	6C / SO2

Analyzer Info

Make	TECO	TECO	Teledyne	Teledyne
ID				
Span	100	2000	100	1000
Source	PCC	PCC	PCC	PCC

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes	Yes
Compostition	CO/N2	CO/N2	NO/SO2/N2	NO/SO2/N2
Concentration	90	1983	179	869
Bottlle ID				

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Low	30	27.0%	30	29.7%		—		—
Mid	60	54.0%	60	59.5%	30	53.7%	60	52.1%
High	100	90.0%	100	99.2%	50	89.5%	100	86.9%

Analyzer Calibration	Response	Target	Response	Target	Response	Target	Response	Target
Zero	0.5	0	0.4	0	0.2	0	0.3	0
Low	27.9	27	593.5	594.9		—		—
Mid	55.2	54	1188.4	1189.8	53.2	53.7	521.1	521.4
High	89.4	90	1984	1983	90	89.5	868.9	869

Probe Calibration	Response	Target	Response	Target	Response	Target	Response	Target
Zero	0.6	0.5	0.6	0.4	0.2	0.2	0.5	0.3
Low		27.9		593.5		—		—
Mid	55.1	55.2	1189	1188.4	53.7	53.2	522	521.1
High		89.4		1984		90		868.9

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.5%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
Low	0.9%	-27.9%	-0.1%	-29.7%	—	—	—	—
Mid	1.2%	-0.1%	-0.1%	0.0%	-0.5%	0.5%	0.0%	0.1%
High	-0.6%	-89.4%	0.1%	-99.2%	0.5%	-90.0%	0.0%	-86.9%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/15/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information			
		2	
Stack Parameter			
Moisture	%	12.7%	
Dry Std. Flow Rate			Avg.
	DSCFM	8360	
O2 (drift corrected)			
	%		#DIV/0!
CO2 (drift corrected)			
	%		#DIV/0!
10 / CO			
10 / CO			
	ppmvd	271.2	271.2
	lb/hr	9.88	9.88
6C / SO2			
6C / SO2			
	ppmvd	292.3	292.3
	lb/hr	10.64	10.6

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/15/2006
Project #:	45396	Operator:	SC	Source:	PCC	Time:	

Method / Gas	3A / O2	3A / CO2	7E / NOx

Analyzer Info

Make	Horiba	Horiba	Horiba
ID			
Span	25	20	100
Source	PCC	PCC	PCC

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2	SO2/NO/N2
Concentration	21.05	17.06	179.9
Bottle ID			

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%
Low		—		—		—
Mid	60	50.5%	60	51.2%	30	54.0%
High	100	84.2%	100	85.3%	50	90.0%

Analyzer Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0	0.03	0	0.1	0
Low		—		—		—
Mid	12.55	12.63	10.2	10.236	54.2	53.97
High	20.95	21.05	17.1	17.06	90.1	89.95

Probe Calibration	Response	Target	Response	Target	Response	Target
Zero	0.2	0.1	0.05	0.03	0.2	0.1
Low		—		—		—
Mid	12.45	12.55	10.23	10.2	54.6	54.2
High		20.95		17.1		90.1

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.4%	0.4%	0.2%	0.1%	0.1%	0.1%
Low	—	—	—	—	—	—
Mid	-0.3%	-0.4%	-0.2%	0.2%	0.2%	0.4%
High	-0.4%	-83.8%	0.2%	-85.5%	0.1%	-90.1%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/15/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information		1		Avg.
Stack Parameter				
Moisture	%	12.4%		
Dry Std. Flow Rate				
	DSCFM	9060		
O2 (drift corrected)				
	%	10.27		10.27
CO2 (drift corrected)				
	%	3.85		3.85
7E / NOx				
	ppmvd	36.75		36.75
	lb/hr	2.39		2.39

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/15/2006

	Method / Gas	3A / O2	3A / CO2	7E / NOx
	Source	PCC	PCC	PCC
Calibration Drift Check				
	Time	10:10 AM	10:10 AM	10:10 AM
	Span	25	20	100
	Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero				
	Initial	0.2	0.05	0.2
	Final	0.2	0.1	0.4
	Average (C_o)	0.2	0.075	0.3
	Certified Value	0	0	0
	% Drift	0.0%	0.3%	0.2%
	% Sys. Bias	0.4%	0.4%	0.3%
Upscale (Cma)				
	Upscale Gas:	Mid	Mid	Mid
	Initial	12.45	10.23	54.6
	Final	12.25	10.3	55
	Average (C_m)	12.35	10.265	54.8
	Certified Value	12.63	10.236	53.97
	% Drift	-0.8%	0.4%	0.4%
	% Sys. Bias	-1.2%	0.5%	0.8%
Run Data Calculations				
	Number of Sample Points:	705	705	705
	Average Concentration (C):	10.08	3.91	37.41
	Drift Corrected Average (C_{gas})	10.27	3.85	36.75
	Maximum Concentration:	18.35	4.54	85.41
	Minumum Concentration:	5.75	1.05	23.56

DATE	TIME	%	%	ppmvd
	8/15/2006 9:09	17.2	2.5	35.6
	8/15/2006 9:09	17.6	2.4	32.5
	8/15/2006 9:09	17.6	2.4	32.9
	8/15/2006 9:09	18.0	1.9	26.9
	8/15/2006 9:10	18.3	1.7	23.6
	8/15/2006 9:10	17.3	2.4	32.3
	8/15/2006 9:10	16.3	2.9	41.8
	8/15/2006 9:10	15.9	3.1	37.8
	8/15/2006 9:11	15.4	3.5	37.5
	8/15/2006 9:11	14.9	3.7	40.1
	8/15/2006 9:11	14.8	3.8	41.2
	8/15/2006 9:11	14.7	3.9	42.2
	8/15/2006 9:12	14.7	3.9	43.2
	8/15/2006 9:12	14.7	3.9	43.6
	8/15/2006 9:12	14.7	3.9	44.6
	8/15/2006 9:12	14.9	3.7	45.5
	8/15/2006 9:13	15.3	3.6	45.2
	8/15/2006 9:13	15.5	3.5	45.0
	8/15/2006 9:13	15.6	3.4	44.9
	8/15/2006 9:13	15.7	3.3	44.7

8/15/2006 9:14	16.0	3.2	45.0
8/15/2006 9:14	16.0	3.2	45.4
8/15/2006 9:14	16.1	3.2	45.2
8/15/2006 9:14	16.1	3.2	45.2
8/15/2006 9:15	16.1	3.2	45.5
8/15/2006 9:15	16.1	3.2	44.7
8/15/2006 9:15	16.0	3.2	44.3
8/15/2006 9:15	15.8	3.3	44.6
8/15/2006 9:16	15.7	3.4	44.7
8/15/2006 9:16	15.7	3.4	44.9
8/15/2006 9:16	15.7	3.4	45.1
8/15/2006 9:16	15.7	3.4	45.1
8/15/2006 9:17	15.7	3.4	45.0
8/15/2006 9:17	15.7	3.4	45.1
8/15/2006 9:17	15.7	3.4	45.4
8/15/2006 9:17	15.7	3.4	45.8
8/15/2006 9:18	15.8	3.3	46.1
8/15/2006 9:18	15.8	3.3	46.4
8/15/2006 9:18	15.8	3.3	46.6
8/15/2006 9:18	15.8	3.3	46.4
8/15/2006 9:19	15.8	3.3	46.4
8/15/2006 9:19	15.8	3.3	46.9
8/15/2006 9:19	15.8	3.3	46.9
8/15/2006 9:19	15.8	3.3	46.9
8/15/2006 9:20	15.8	3.3	47.0
8/15/2006 9:20	15.8	3.3	47.0
8/15/2006 9:20	15.8	3.3	47.2
8/15/2006 9:20	15.8	3.3	47.2
8/15/2006 9:21	15.8	3.3	46.9
8/15/2006 9:21	15.8	3.3	47.1
8/15/2006 9:21	15.7	3.3	47.3
8/15/2006 9:21	15.7	3.3	47.5
8/15/2006 9:22	15.7	3.3	47.1
8/15/2006 9:22	15.7	3.3	47.1
8/15/2006 9:22	15.7	3.3	47.3
8/15/2006 9:22	15.7	3.3	46.8
8/15/2006 9:23	15.7	3.3	45.9
8/15/2006 9:23	15.7	3.3	43.8
8/15/2006 9:23	15.7	3.2	42.4
8/15/2006 9:23	15.7	3.2	41.0
8/15/2006 9:24	15.7	3.2	40.5
8/15/2006 9:24	15.6	3.3	40.6
8/15/2006 9:24	15.5	3.4	40.8
8/15/2006 9:24	15.3	3.5	41.5
8/15/2006 9:25	15.2	3.6	42.3
8/15/2006 9:25	15.1	3.6	42.7
8/15/2006 9:25	15.0	3.6	43.3
8/15/2006 9:25	15.0	3.6	43.8
8/15/2006 9:26	15.0	3.6	44.7
8/15/2006 9:26	15.1	3.6	45.4
8/15/2006 9:26	15.1	3.6	45.4
8/15/2006 9:26	15.2	3.5	45.2
8/15/2006 9:27	15.2	3.5	45.2
8/15/2006 9:27	15.2	3.5	45.2

8/15/2006 9:27	15.2	3.5	45.5
8/15/2006 9:27	15.2	3.5	45.6
8/15/2006 9:28	15.2	3.5	45.6
8/15/2006 9:28	15.2	3.5	45.8
8/15/2006 9:28	15.2	3.5	45.6
8/15/2006 9:28	15.2	3.5	45.8
8/15/2006 9:29	15.2	3.5	45.2
8/15/2006 9:29	15.1	3.5	44.8
8/15/2006 9:29	15.1	3.6	45.2
8/15/2006 9:29	14.9	3.6	45.0
8/15/2006 9:30	14.8	3.7	44.7
8/15/2006 9:30	14.8	3.7	44.8
8/15/2006 9:30	14.8	3.7	44.8
8/15/2006 9:30	14.8	3.7	44.5
8/15/2006 9:31	14.8	3.7	44.4
8/15/2006 9:31	14.8	3.7	44.6
8/15/2006 9:31	14.8	3.7	45.0
8/15/2006 9:31	14.8	3.7	45.0
8/15/2006 9:32	14.9	3.6	45.6
8/15/2006 9:32	14.9	3.6	46.2
8/15/2006 9:32	14.9	3.6	46.1
8/15/2006 9:32	14.9	3.6	46.1
8/15/2006 9:33	14.9	3.6	45.8
8/15/2006 9:33	14.9	3.6	45.9
8/15/2006 9:33	14.9	3.6	45.6
8/15/2006 9:33	14.8	3.6	45.5
8/15/2006 9:34	14.7	3.7	44.5
8/15/2006 9:34	14.6	3.7	44.3
8/15/2006 9:34	14.6	3.7	44.2
8/15/2006 9:34	14.6	3.7	44.0
8/15/2006 9:35	14.6	3.7	44.0
8/15/2006 9:35	14.6	3.7	44.4
8/15/2006 9:35	14.6	3.7	44.2
8/15/2006 9:35	14.6	3.7	44.2
8/15/2006 9:36	14.6	3.7	44.2
8/15/2006 9:36	14.5	3.7	44.0
8/15/2006 9:36	14.5	3.7	44.0
8/15/2006 9:36	14.5	3.7	43.9
8/15/2006 9:37	14.5	3.7	44.2
8/15/2006 9:37	14.5	3.7	44.0
8/15/2006 9:37	14.5	3.7	45.0
8/15/2006 9:37	14.6	3.7	45.2
8/15/2006 9:38	14.6	3.7	45.2
8/15/2006 9:38	14.6	3.7	45.2
8/15/2006 9:38	14.6	3.7	45.1
8/15/2006 9:38	14.6	3.7	45.1
8/15/2006 9:39	14.6	3.7	44.8
8/15/2006 9:39	14.5	3.7	44.7
8/15/2006 9:39	14.4	3.7	44.3
8/15/2006 9:39	14.4	3.7	44.3
8/15/2006 9:40	14.4	3.7	44.0
8/15/2006 9:40	14.3	3.8	43.5
8/15/2006 9:40	14.3	3.8	43.4
8/15/2006 9:40	14.3	3.8	43.4

8/15/2006 9:41	14.2	3.8	43.4
8/15/2006 9:41	14.2	3.8	43.3
8/15/2006 9:41	14.2	3.8	43.4
8/15/2006 9:41	14.2	3.8	43.4
8/15/2006 9:42	14.3	3.8	44.4
8/15/2006 9:42	14.3	3.8	44.8
8/15/2006 9:42	14.3	3.8	44.8
8/15/2006 9:42	14.3	3.8	44.8
8/15/2006 9:43	14.3	3.8	44.7
8/15/2006 9:43	14.3	3.8	44.7
8/15/2006 9:43	14.3	3.8	44.8
8/15/2006 9:43	14.3	3.8	44.7
8/15/2006 9:44	14.3	3.8	44.7
8/15/2006 9:44	14.3	3.8	44.8
8/15/2006 9:44	14.3	3.8	45.0
8/15/2006 9:44	14.3	3.8	45.0
8/15/2006 9:45	14.3	3.8	45.4
8/15/2006 9:45	14.2	3.8	44.8
8/15/2006 9:45	14.2	3.8	44.5
8/15/2006 9:45	14.2	3.8	44.2
8/15/2006 9:46	14.1	3.8	44.4
8/15/2006 9:46	14.0	3.9	46.2
8/15/2006 9:46	14.0	3.9	46.6
8/15/2006 9:46	13.9	3.9	46.7
8/15/2006 9:47	13.9	3.9	47.6
8/15/2006 9:47	14.0	3.8	47.6
8/15/2006 9:47	14.2	3.7	47.5
8/15/2006 9:47	14.3	3.6	47.5
8/15/2006 9:48	14.4	3.5	47.9
8/15/2006 9:48	14.4	3.5	47.7
8/15/2006 9:48	14.5	3.5	47.3
8/15/2006 9:48	14.5	3.5	47.3
8/15/2006 9:49	14.5	3.4	47.2
8/15/2006 9:49	14.5	3.4	46.2
8/15/2006 9:49	14.4	3.4	46.0
8/15/2006 9:49	14.4	3.4	45.7
8/15/2006 9:50	14.4	3.4	45.3
8/15/2006 9:50	14.2	3.5	44.7
8/15/2006 9:50	14.2	3.5	44.7
8/15/2006 9:50	14.2	3.5	44.7
8/15/2006 9:51	14.1	3.5	44.8
8/15/2006 9:51	14.1	3.5	44.7
8/15/2006 9:51	14.1	3.5	44.7
8/15/2006 9:51	14.1	3.5	44.5
8/15/2006 9:52	14.1	3.5	45.1
8/15/2006 9:52	14.1	3.5	45.3
8/15/2006 9:52	14.1	3.5	46.2
8/15/2006 9:52	14.2	3.4	46.6
8/15/2006 9:53	14.2	3.4	47.0
8/15/2006 9:53	14.2	3.4	47.0
8/15/2006 9:53	14.2	3.4	46.8
8/15/2006 9:53	14.2	3.4	47.1
8/15/2006 9:54	14.2	3.4	47.2
8/15/2006 9:54	14.1	3.4	46.5

8/15/2006 9:54	14.1	3.4	46.1
8/15/2006 9:54	14.0	3.4	46.1
8/15/2006 9:55	13.9	3.4	45.8
8/15/2006 9:55	13.9	3.5	45.2
8/15/2006 9:55	13.8	3.5	45.4
8/15/2006 9:55	13.8	3.5	45.2
8/15/2006 9:56	13.8	3.5	45.5
8/15/2006 9:56	13.8	3.5	45.6
8/15/2006 9:56	13.8	3.5	45.9
8/15/2006 9:56	13.8	3.5	47.3
8/15/2006 9:57	13.8	3.4	47.4
8/15/2006 9:57	13.8	3.4	47.3
8/15/2006 9:57	13.8	3.4	47.7
8/15/2006 9:57	13.9	3.3	48.2
8/15/2006 9:58	14.0	3.3	48.2
8/15/2006 9:58	14.0	3.3	48.0
8/15/2006 9:58	14.0	3.3	47.7
8/15/2006 9:58	14.0	3.3	46.9
8/15/2006 9:59	13.8	3.4	46.3
8/15/2006 9:59	13.7	3.4	46.0
8/15/2006 9:59	13.7	3.4	46.0
8/15/2006 9:59	13.7	3.4	46.0
8/15/2006 10:00	13.7	3.4	46.0
8/15/2006 10:00	13.6	3.4	45.6
8/15/2006 10:00	13.6	3.4	46.8
8/15/2006 10:00	13.6	3.4	46.3
8/15/2006 10:01	13.6	3.4	46.0
8/15/2006 10:01	13.6	3.4	46.4
8/15/2006 10:01	13.6	3.4	46.4
8/15/2006 10:01	13.5	3.4	46.4
8/15/2006 10:02	13.5	3.4	46.5
8/15/2006 10:02	13.5	3.4	46.2
8/15/2006 10:02	13.5	3.4	45.9
8/15/2006 10:02	13.4	3.4	46.9
8/15/2006 10:03	13.4	3.4	47.2
8/15/2006 10:03	13.4	3.4	47.8
8/15/2006 10:03	13.5	3.3	48.0
8/15/2006 10:03	13.6	3.3	48.3
8/15/2006 10:04	13.6	3.3	48.2
8/15/2006 10:04	13.6	3.3	48.9
8/15/2006 10:04	13.6	3.3	48.8
8/15/2006 10:04	13.6	3.3	48.8
8/15/2006 10:05	13.5	3.3	48.1
8/15/2006 10:05	13.5	3.4	47.8
8/15/2006 10:05	13.3	3.4	47.0
8/15/2006 10:05	13.2	3.5	46.9
8/15/2006 10:06	13.2	3.5	46.9
8/15/2006 10:06	13.2	3.5	47.0
8/15/2006 10:06	13.2	3.5	47.4
8/15/2006 10:06	13.2	3.5	47.1
8/15/2006 10:07	13.1	3.5	46.9
8/15/2006 10:07	13.1	3.5	46.9
8/15/2006 10:07	13.2	3.4	49.1
8/15/2006 10:07	13.2	3.4	49.2

8/15/2006 10:08	13.2	3.4	48.7
8/15/2006 10:08	13.2	3.4	49.0
8/15/2006 10:08	13.2	3.4	48.9
8/15/2006 10:08	13.2	3.4	49.0
8/15/2006 10:09	13.2	3.4	49.2
8/15/2006 10:09	13.2	3.4	49.1
8/15/2006 10:09	13.0	1.1	28.9
8/15/2006 10:31	10.2	3.6	85.4
8/15/2006 10:31	10.4	3.6	65.1
8/15/2006 10:31	10.4	3.6	60.7
8/15/2006 10:31	10.4	3.6	59.8
8/15/2006 10:32	10.4	3.6	58.7
8/15/2006 10:32	10.4	3.6	59.1
8/15/2006 10:32	10.4	3.6	58.9
8/15/2006 10:32	10.4	3.6	58.8
8/15/2006 10:33	10.4	3.7	59.4
8/15/2006 10:33	10.4	3.7	58.2
8/15/2006 10:33	10.4	3.7	59.8
8/15/2006 10:33	10.4	3.7	60.0
8/15/2006 10:34	10.4	3.7	59.7
8/15/2006 10:34	10.4	3.7	59.8
8/15/2006 10:34	10.4	3.7	59.6
8/15/2006 10:34	10.4	3.7	58.9
8/15/2006 10:35	10.4	3.7	58.6
8/15/2006 10:35	10.4	3.7	57.3
8/15/2006 10:35	10.4	3.7	55.1
8/15/2006 10:35	10.4	3.7	53.3
8/15/2006 10:36	10.5	3.7	51.3
8/15/2006 10:36	10.5	3.6	48.9
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8/15/2006 13:51	10.1	3.7	39.6
8/15/2006 13:51	10.1	3.7	40.2
8/15/2006 13:51	10.1	3.7	39.9
8/15/2006 13:52	10.2	3.6	37.7
8/15/2006 13:52	10.4	3.6	36.9
8/15/2006 13:52	10.4	3.6	37.5
8/15/2006 13:52	10.2	3.6	37.2
8/15/2006 13:53	10.3	3.6	37.2
8/15/2006 13:53	10.3	3.6	37.0
8/15/2006 13:53	10.3	3.6	37.2
8/15/2006 13:53	10.3	3.6	36.7
8/15/2006 13:54	10.3	3.6	36.9
8/15/2006 13:54	10.3	3.6	36.6
8/15/2006 13:54	10.3	3.6	37.3
8/15/2006 13:54	10.3	3.6	37.7
8/15/2006 13:55	10.2	3.6	38.5
8/15/2006 13:55	10.2	3.6	38.0
8/15/2006 13:55	10.3	3.6	39.3
8/15/2006 13:55	10.2	3.7	39.6
8/15/2006 13:56	10.1	3.7	40.7
8/15/2006 13:56	10.1	3.7	40.8
8/15/2006 13:56	10.1	3.7	40.4
8/15/2006 13:56	10.1	3.7	40.1
8/15/2006 13:57	10.3	3.7	40.4
8/15/2006 13:57	10.4	3.7	39.6
8/15/2006 13:57	10.3	3.7	40.3
8/15/2006 13:57	10.3	3.7	40.5
8/15/2006 13:58	10.4	3.7	40.4
8/15/2006 13:58	10.4	3.7	40.9
8/15/2006 13:58	10.3	3.7	40.4
8/15/2006 13:58	10.4	3.7	40.2
8/15/2006 13:59	10.4	3.7	40.7
8/15/2006 13:59	10.3	3.7	40.7
8/15/2006 13:59	10.4	3.7	39.8
8/15/2006 13:59	10.4	3.7	39.8
8/15/2006 14:00	10.4	3.7	39.9
8/15/2006 14:00	10.5	3.7	39.5
8/15/2006 14:00	10.4	3.7	39.4
8/15/2006 14:00	10.5	3.6	37.5
8/15/2006 14:01	10.6	3.6	37.3
8/15/2006 14:01	10.6	3.6	37.0
8/15/2006 14:01	10.5	3.6	37.5
8/15/2006 14:01	10.5	3.6	37.2

8/15/2006 14:02	10.5	3.6	37.4
8/15/2006 14:02	10.6	3.5	35.5
8/15/2006 14:02	10.7	3.5	35.3
8/15/2006 14:02	10.7	3.5	34.6
8/15/2006 14:03	10.7	3.5	34.6
8/15/2006 14:03	10.8	3.5	34.2
8/15/2006 14:03	10.8	3.5	34.5
8/15/2006 14:03	10.8	3.5	34.5
8/15/2006 14:04	10.7	3.5	35.1
8/15/2006 14:04	10.7	3.5	35.0
8/15/2006 14:04	10.7	3.5	35.7
8/15/2006 14:04	10.6	3.5	35.9
8/15/2006 14:05	10.7	3.5	35.9
8/15/2006 14:05	10.6	3.6	36.8
8/15/2006 14:05	10.6	3.6	37.4
8/15/2006 14:05	10.5	3.7	38.3
8/15/2006 14:06	10.5	3.7	38.7
8/15/2006 14:06	10.5	3.7	38.8
8/15/2006 14:06	10.6	3.7	38.9
8/15/2006 14:06	10.6	3.7	38.9
8/15/2006 14:07	10.6	3.7	39.3
8/15/2006 14:07	10.5	3.7	39.4
8/15/2006 14:07	10.5	3.7	39.3
8/15/2006 14:07	10.5	3.7	39.3
8/15/2006 14:08	10.5	3.7	39.6
8/15/2006 14:08	10.5	3.7	39.6
8/15/2006 14:08	10.6	3.7	39.8
8/15/2006 14:08	10.7	3.7	39.1
8/15/2006 14:09	10.7	3.7	39.6
8/15/2006 14:09	10.7	3.7	39.3
8/15/2006 14:09	10.7	3.7	39.1
8/15/2006 14:09	10.7	3.7	38.8
8/15/2006 14:10	10.7	3.7	38.1
8/15/2006 14:10	10.7	3.6	37.4
8/15/2006 14:10	10.8	3.6	36.3
8/15/2006 14:10	10.9	3.5	35.7
8/15/2006 14:11	10.9	3.5	35.6
8/15/2006 14:11	10.8	3.5	35.8
8/15/2006 14:11	10.8	3.5	36.1
8/15/2006 14:11	10.9	3.5	36.0
8/15/2006 14:12	10.9	3.5	36.0
8/15/2006 14:12	10.9	3.5	36.1
8/15/2006 14:12	10.9	3.5	35.8
8/15/2006 14:12	11.0	3.5	35.7
8/15/2006 14:13	11.0	3.5	35.3
8/15/2006 14:13	11.0	3.5	35.4
8/15/2006 14:13	11.0	3.5	35.8
8/15/2006 14:13	11.0	3.5	35.5
8/15/2006 14:14	11.0	3.5	35.2
8/15/2006 14:14	10.9	3.5	36.2
8/15/2006 14:14	10.9	3.5	36.3
8/15/2006 14:14	10.9	3.5	35.9
8/15/2006 14:15	10.9	3.5	36.1
8/15/2006 14:15	10.9	3.6	36.6

8/15/2006 14:15	10.8	3.6	36.9
8/15/2006 14:15	10.9	3.6	36.8
8/15/2006 14:16	10.9	3.6	37.4
8/15/2006 14:16	10.9	3.6	37.2
8/15/2006 14:16	10.9	3.6	37.7
8/15/2006 14:16	10.9	3.6	37.2
8/15/2006 14:17	11.0	3.6	37.0
8/15/2006 14:17	11.0	3.6	37.2
8/15/2006 14:17	11.0	3.6	37.5
8/15/2006 14:17	11.0	3.6	36.6
8/15/2006 14:18	11.1	3.6	36.8
8/15/2006 14:18	11.0	3.6	37.2
8/15/2006 14:18	11.0	3.6	37.5
8/15/2006 14:18	11.0	3.6	37.1
8/15/2006 14:19	11.0	3.6	37.1
8/15/2006 14:19	11.0	3.6	37.4
8/15/2006 14:19	10.9	3.6	37.3
8/15/2006 14:19	10.9	3.6	37.7
8/15/2006 14:20	11.1	3.6	37.4
8/15/2006 14:20	11.1	3.6	37.6
8/15/2006 14:20	11.1	3.6	37.6
8/15/2006 14:20	11.1	3.6	37.5
8/15/2006 14:21	11.1	3.6	37.5
8/15/2006 14:21	11.1	3.6	37.7
8/15/2006 14:21	11.1	3.6	37.7
8/15/2006 14:21	11.1	3.6	37.4
8/15/2006 14:22	11.1	3.6	37.5
8/15/2006 14:22	11.1	3.6	37.4
8/15/2006 14:22	11.2	3.6	37.1
8/15/2006 14:22	11.1	3.6	37.6
8/15/2006 14:23	11.1	3.6	37.0
8/15/2006 14:23	11.1	3.6	37.3
8/15/2006 14:23	11.1	3.6	37.4
8/15/2006 14:23	11.1	3.6	36.8
8/15/2006 14:24	11.2	3.5	35.9
8/15/2006 14:24	11.2	3.5	35.9
8/15/2006 14:24	11.2	3.5	36.3
8/15/2006 14:24	11.2	3.5	36.1
8/15/2006 14:25	11.2	3.5	35.9
8/15/2006 14:25	11.2	3.5	36.0
8/15/2006 14:25	11.2	3.5	36.0
8/15/2006 14:25	11.2	3.5	36.4
8/15/2006 14:26	11.2	3.5	36.4
8/15/2006 14:26	11.2	3.5	36.2
8/15/2006 14:26	11.2	3.5	36.2
8/15/2006 14:26	11.5	3.5	35.6
8/15/2006 14:27	11.4	3.5	35.9
8/15/2006 14:27	11.4	3.5	34.8
8/15/2006 14:27	11.4	3.4	33.8
8/15/2006 14:27	11.4	3.1	31.4
8/15/2006 14:28	11.0	3.8	37.5
8/15/2006 14:28	10.4	4.2	42.2
8/15/2006 14:28	10.2	4.5	42.7
8/15/2006 14:28	10.0	4.6	44.0

8/15/2006 14:29	9.9	4.6	44.0
8/15/2006 14:29	9.9	4.6	44.6
8/15/2006 14:29	10.0	4.6	46.2
8/15/2006 14:29	10.1	4.4	47.6
8/15/2006 14:30	10.2	4.2	46.8

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/16/2006
Project #:	45396	Operator:	SC	Source:	PCC	Time:	

Method / Gas	3A / O2	3A / CO2	7E / NOx

Analyzer Info

Make	Horiba	Horiba	Horiba
ID			
Span	25	20	100
Source	PCC	PCC	PCC

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2	SO2/NO/N2
Concentration	21.05	17.06	179.9
Bottlle ID			

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%
Low		—		—		—
Mid	60	50.5%	60	51.2%	30	54.0%
High	100	84.2%	100	85.3%	50	90.0%

Analyzer Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0	0.06	0	0.2	0
Low		—		—		—
Mid	12.6	12.63	10.25	10.236	54	53.97
High	21	21.05	17	17.06	90.05	89.95

Probe Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0.1	0.1	0.06	0.2	0.2
Low		—		—		—
Mid	12.52	12.6	10.3	10.25	54.6	54
High		21		17		90.05

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.4%	0.0%	0.3%	0.2%	0.2%	0.0%
Low	—	—	—	—	—	—
Mid	-0.1%	-0.3%	0.1%	0.3%	0.0%	0.6%
High	-0.2%	-84.0%	-0.3%	-85.0%	0.1%	-90.1%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/16/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information			
		2	
Stack Parameter			
Moisture	%	12.7%	
Dry Std. Flow Rate			Avg.
	DSCFM	8360	
O2 (drift corrected)			
	%	10.8	10.8
CO2 (drift corrected)			
	%	3.7	3.7
7E / NOx			
	ppmvd	34.75	34.8
	lb/hr	2.08	2.1

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/16/2006

	Method / Gas	3A / O2	3A / CO2	7E / NOx
	Source	PCC	PCC	PCC
Calibration Drift Check				
	Time	11:35 AM	11:35 AM	11:35 AM
	Span	25	20	100
	Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero				
	Initial	0.1	0.1	0.2
	Final	0.2	0.1	0.3
	Average (C_o)	0.15	0.1	0.25
	Certified Value	0	0	0
	% Drift	0.4%	0.0%	0.1%
	% Sys. Bias	0.4%	0.2%	0.1%
Upscale (Cma)				
	Upscale Gas:	Mid	Mid	Mid
	Initial	12.52	10.3	54.6
	Final	12.4	10.25	55.1
	Average (C_m)	12.46	10.275	54.85
	Certified Value	12.63	10.236	53.97
	% Drift	-0.5%	-0.3%	0.5%
	% Sys. Bias	-0.8%	0.0%	1.1%
Run Data Calculations				
	Number of Sample Points:	705	705	705
	Average Concentration (C):	10.69	3.77	35.41
	Drift Corrected Average (C_{gas})	10.81	3.69	34.75
	Maximum Concentration:	17.36	4.25	54.01
	Minumum Concentration:	7.32	1.36	-0.68

DATE	TIME	%	%	ppmvd
	8/16/2006 9:10	16.2953	2.67367	40.5811
	8/16/2006 9:10	17.3575	2.11207	28.7144
	8/16/2006 9:10	17.3575	2.21707	29.0563
	8/16/2006 9:10	16.3625	2.89342	32.8898
	8/16/2006 9:11	15.3034	3.51361	35.4047
	8/16/2006 9:11	14.8364	3.62349	37.4557
	8/16/2006 9:11	14.8364	3.72604	38.4813
	8/16/2006 9:11	14.7265	3.72604	38.994
	8/16/2006 9:12	14.7265	3.72604	39.1405
	8/16/2006 9:12	14.8395	3.72604	39.7021
	8/16/2006 9:12	14.8395	3.72604	40.1905
	8/16/2006 9:12	14.8395	3.72604	40.6055
	8/16/2006 9:13	15.0562	3.62105	41.1183
	8/16/2006 9:13	15.2759	3.51605	40.9962
	8/16/2006 9:13	15.6055	3.41106	40.8253
	8/16/2006 9:13	15.6055	3.41106	41.1183
	8/16/2006 9:14	15.7063	3.31095	41.1183
	8/16/2006 9:14	15.7063	3.31095	41.2404
	8/16/2006 9:14	15.9169	3.21084	41.1183
	8/16/2006 9:14	15.9169	3.21084	40.9962

8/16/2006 9:15	15.9169	3.21084	40.9962
8/16/2006 9:15	15.9169	3.21084	40.8497
8/16/2006 9:15	15.9169	3.21084	40.9962
8/16/2006 9:15	15.9169	3.21084	40.8985
8/16/2006 9:16	15.9169	3.21084	40.7276
8/16/2006 9:16	15.8131	3.21084	40.166
8/16/2006 9:16	15.7124	3.31095	39.8974
8/16/2006 9:16	15.7124	3.31095	39.7509
8/16/2006 9:17	15.7124	3.31095	40.4102
8/16/2006 9:17	15.7124	3.31095	40.4102
8/16/2006 9:17	15.7124	3.31095	40.2393
8/16/2006 9:17	15.7124	3.31095	40.2149
8/16/2006 9:18	15.6055	3.31095	40.2149
8/16/2006 9:18	15.6055	3.31095	40.0928
8/16/2006 9:18	15.6055	3.31095	39.9463
8/16/2006 9:18	15.6055	3.31095	39.8242
8/16/2006 9:19	15.6055	3.31095	39.9463
8/16/2006 9:19	15.7093	3.21084	40.3858
8/16/2006 9:19	15.81	3.21084	40.5567
8/16/2006 9:19	15.81	3.21084	40.5567
8/16/2006 9:20	15.81	3.21084	40.7032
8/16/2006 9:20	15.81	3.21084	41.0206
8/16/2006 9:20	15.81	3.21084	41.1427
8/16/2006 9:20	15.81	3.21084	41.4113
8/16/2006 9:21	15.7063	3.21084	41.1671
8/16/2006 9:21	15.7063	3.21084	40.7765
8/16/2006 9:21	15.7063	3.21084	41.045
8/16/2006 9:21	15.7063	3.21084	40.8985
8/16/2006 9:22	15.7063	3.21084	40.8985
8/16/2006 9:22	15.7063	3.21084	40.8985
8/16/2006 9:22	15.7063	3.21084	40.8985
8/16/2006 9:22	15.7063	3.21084	40.8985
8/16/2006 9:23	15.7063	3.21084	40.8985
8/16/2006 9:23	15.7063	3.21084	40.8985
8/16/2006 9:23	15.5964	3.07166	38.994
8/16/2006 9:23	15.4896	3.17422	38.994
8/16/2006 9:24	15.2851	3.37444	39.9951
8/16/2006 9:24	15.1843	3.37444	40.2637
8/16/2006 9:24	15.0836	3.47455	40.5567
8/16/2006 9:24	14.9799	3.57466	41.2648
8/16/2006 9:25	14.9799	3.57466	41.2892
8/16/2006 9:25	14.873	3.57466	41.5578
8/16/2006 9:25	14.873	3.57466	41.9485
8/16/2006 9:25	14.873	3.67476	41.9485
8/16/2006 9:26	14.873	3.67476	42.2415
8/16/2006 9:26	14.873	3.67476	42.388
8/16/2006 9:26	14.873	3.67476	42.388
8/16/2006 9:26	14.9768	3.56977	42.9252
8/16/2006 9:27	14.9768	3.56977	42.9252
8/16/2006 9:27	14.9768	3.56977	42.8031
8/16/2006 9:27	14.9768	3.56977	43.4135
8/16/2006 9:27	14.9768	3.56977	43.7553
8/16/2006 9:28	14.9768	3.56977	43.7309
8/16/2006 9:28	14.9768	3.56977	43.9995

8/16/2006 9:28	14.9768	3.56977	43.9995
8/16/2006 9:28	14.9768	3.56977	43.9751
8/16/2006 9:29	14.9768	3.56977	43.9751
8/16/2006 9:29	14.873	3.56977	43.853
8/16/2006 9:29	14.873	3.56977	43.853
8/16/2006 9:29	14.873	3.56977	43.56
8/16/2006 9:30	14.6624	3.66988	43.0717
8/16/2006 9:30	14.6624	3.66988	42.9252
8/16/2006 9:30	14.6624	3.66988	42.9007
8/16/2006 9:30	14.6624	3.66988	42.7787
8/16/2006 9:31	14.6624	3.66988	43.2426
8/16/2006 9:31	14.5617	3.66988	43.2426
8/16/2006 9:31	14.5617	3.66988	43.2914
8/16/2006 9:31	15.8558	2.16335	27.0541
8/16/2006 9:32	15.0745	3.60396	41.6066
8/16/2006 9:32	14.6105	3.60396	42.8031
8/16/2006 9:32	14.5037	3.60396	43.0961
8/16/2006 9:32	14.5037	3.60396	43.0961
8/16/2006 9:33	14.5037	3.60396	43.2914
8/16/2006 9:33	14.5037	3.60396	43.6333
8/16/2006 9:33	14.5037	3.60396	43.6577
8/16/2006 9:33	14.5037	3.60396	43.1937
8/16/2006 9:34	14.5037	3.60396	43.1449
8/16/2006 9:34	14.5037	3.60396	43.1449
8/16/2006 9:34	14.5037	3.60396	43.4623
8/16/2006 9:34	14.5037	3.60396	43.3403
8/16/2006 9:35	14.5037	3.60396	43.4623
8/16/2006 9:35	14.5037	3.60396	43.6088
8/16/2006 9:35	14.5037	3.60396	43.4868
8/16/2006 9:35	14.403	3.60396	43.6088
8/16/2006 9:36	14.403	3.60396	43.3647
8/16/2006 9:36	14.403	3.60396	43.6577
8/16/2006 9:36	14.403	3.60396	43.4623
8/16/2006 9:36	14.403	3.60396	43.7553
8/16/2006 9:37	14.403	3.60396	43.4623
8/16/2006 9:37	14.403	3.60396	43.4623
8/16/2006 9:37	14.3023	3.60396	43.6577
8/16/2006 9:37	14.3023	3.60396	43.3891
8/16/2006 9:38	14.3023	3.60396	43.6577
8/16/2006 9:38	14.3023	3.60396	43.8042
8/16/2006 9:38	14.3023	3.60396	43.6577
8/16/2006 9:38	14.3023	3.60396	43.9751
8/16/2006 9:39	14.3023	3.60396	43.5844
8/16/2006 9:39	14.3023	3.60396	43.5844
8/16/2006 9:39	14.3023	3.60396	43.7065
8/16/2006 9:39	14.3023	3.60396	44.3414
8/16/2006 9:40	14.3023	3.60396	44.6099
8/16/2006 9:40	14.3023	3.60396	44.6344
8/16/2006 9:40	14.3023	3.60396	44.6344
8/16/2006 9:40	14.3023	3.60396	44.8053
8/16/2006 9:41	14.3023	3.60396	43.8042
8/16/2006 9:41	14.3023	3.60396	43.5112
8/16/2006 9:41	14.1985	3.70651	42.974
8/16/2006 9:41	14.0978	3.70651	42.8519

8/16/2006 9:42	14.0978	3.70651	42.7298
8/16/2006 9:42	14.0978	3.70651	42.9984
8/16/2006 9:42	14.0978	3.70651	42.9984
8/16/2006 9:42	14.0978	3.70651	43.1449
8/16/2006 9:43	14.0978	3.70651	43.267
8/16/2006 9:43	13.9971	3.70651	43.1449
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8/16/2006 14:00	11.2105	3.57466	38.6278
8/16/2006 14:01	11.2105	3.57466	38.2127
8/16/2006 14:01	11.2105	3.57466	38.4813
8/16/2006 14:01	11.2105	3.57466	38.2371
8/16/2006 14:01	11.3112	3.57466	38.5545
8/16/2006 14:02	11.5309	3.46966	36.5523
8/16/2006 14:02	11.5309	3.46966	36.5523
8/16/2006 14:02	11.5309	3.46966	35.6245
8/16/2006 14:02	11.6317	3.46966	35.9419
8/16/2006 14:03	11.6317	3.46966	36.1861
8/16/2006 14:03	11.5279	3.46966	36.0396
8/16/2006 14:03	11.5279	3.46966	35.6
8/16/2006 14:03	11.5279	3.46966	35.6
8/16/2006 14:04	11.5279	3.46966	36.0884
8/16/2006 14:04	11.5279	3.46966	36.1372
8/16/2006 14:04	11.5279	3.46966	36.2837
8/16/2006 14:04	11.5279	3.46966	36.6988
8/16/2006 14:05	11.5279	3.46966	36.5523
8/16/2006 14:05	11.5279	3.46966	36.5523
8/16/2006 14:05	11.5279	3.56977	37.0651
8/16/2006 14:05	11.4119	3.56977	37.2116
8/16/2006 14:06	11.4119	3.56977	37.236
8/16/2006 14:06	11.4119	3.56977	37.236
8/16/2006 14:06	11.4119	3.56977	37.0651
8/16/2006 14:06	11.5126	3.56977	36.7965
8/16/2006 14:07	11.5126	3.56977	36.3326
8/16/2006 14:07	11.5371	3.56977	36.943
8/16/2006 14:07	11.5371	3.56977	37.5778
8/16/2006 14:07	11.5371	3.56977	37.6511
8/16/2006 14:08	11.5371	3.56977	36.9674
8/16/2006 14:08	11.6378	3.56977	37.3825
8/16/2006 14:08	11.6378	3.56977	37.2604
8/16/2006 14:08	11.6378	3.56977	37.8464
8/16/2006 14:09	11.5309	3.56977	38.0418
8/16/2006 14:09	11.5309	3.56977	37.4557
8/16/2006 14:09	11.6317	3.56977	37.8464
8/16/2006 14:09	11.6317	3.56977	37.4069
8/16/2006 14:10	11.6317	3.56977	37.7976
8/16/2006 14:10	11.6317	3.56977	36.5279
8/16/2006 14:10	11.7324	3.46966	35.9175
8/16/2006 14:10	11.7324	3.46966	35.9419
8/16/2006 14:11	11.8331	3.46966	35.7954

8/16/2006 14:11	11.8331	3.46966	35.9175
8/16/2006 14:11	11.8362	3.46966	35.5024
8/16/2006 14:11	11.8362	3.46966	35.7466
8/16/2006 14:12	11.8362	3.46966	35.0385
8/16/2006 14:12	11.9369	3.46966	35.2338
8/16/2006 14:12	11.9369	3.46966	34.7943
8/16/2006 14:12	11.9369	3.46966	34.9408
8/16/2006 14:13	11.9369	3.46966	34.7943
8/16/2006 14:13	12.0529	3.46966	34.3548
8/16/2006 14:13	11.9521	3.46966	35.307
8/16/2006 14:13	11.9521	3.46966	35.185
8/16/2006 14:14	11.9521	3.46966	35.0385
8/16/2006 14:14	11.9521	3.46966	34.7455
8/16/2006 14:14	11.9521	3.46966	34.7455
8/16/2006 14:14	12.0559	3.46966	35.3803
8/16/2006 14:15	11.943	3.46966	35.5024
8/16/2006 14:15	11.943	3.46966	35.9419
8/16/2006 14:15	11.943	3.46966	35.6489
8/16/2006 14:15	11.8392	3.46966	36.2837
8/16/2006 14:16	11.7354	3.56977	36.5523
8/16/2006 14:16	11.7354	3.56977	36.1372
8/16/2006 14:16	11.8514	3.56977	36.4791
8/16/2006 14:16	11.8514	3.56977	36.65
8/16/2006 14:17	11.7507	3.56977	36.6256
8/16/2006 14:17	11.7507	3.56977	36.8942
8/16/2006 14:17	11.7507	3.56977	36.6011
8/16/2006 14:17	11.8575	3.56977	36.2349
8/16/2006 14:18	11.8575	3.56977	36.1128
8/16/2006 14:18	11.8575	3.56977	35.7221
8/16/2006 14:18	11.8575	3.56977	36.2837
8/16/2006 14:18	11.8575	3.56977	35.5024
8/16/2006 14:19	11.8575	3.56977	35.478
8/16/2006 14:19	12.062	3.46966	35.185
8/16/2006 14:19	12.062	3.46966	34.2571
8/16/2006 14:19	12.062	3.46966	33.842
8/16/2006 14:20	12.062	3.46966	33.5246
8/16/2006 14:20	12.062	3.46966	33.4025
8/16/2006 14:20	12.062	3.46966	33.2072
8/16/2006 14:20	12.062	3.33293	32.377

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/17/2006
Project #:	45396	Operator:	SC	Source:	PCC	Time:	

Method / Gas	3A / O2	3A / CO2	7E / NOx

Analyzer Info

Make	Horiba	Horiba	Horiba
ID			
Span	25	20	100
Source	PCC	PCC	PCC

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2	SO2/NO/N2
Concentration	21.05	17.06	179.9
Bottlle ID			

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%
Low		—		—		—
Mid	60	50.5%	60	51.2%	30	54.0%
High	100	84.2%	100	85.3%	50	90.0%

Analyzer Calibration	Response	Target	Response	Target	Response	Target
Zero	0.05	0	0.008	0	0.3	0
Low		—		—		—
Mid	12.6	12.63	10.2	10.236	54.1	53.97
High	20.95	21.05	17.02	17.06	89.7	89.95

Probe Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0.05	0.1	0.008	0.2	0.3
Low		—		—		—
Mid	12.5	12.6	10.2	10.2	54.4	54.1
High		20.95		17.02		89.7

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.2%	0.2%	0.0%	0.5%	0.3%	-0.1%
Low	—	—	—	—	—	—
Mid	-0.1%	-0.4%	-0.2%	0.0%	0.1%	0.3%
High	-0.4%	-83.8%	-0.2%	-85.1%	-0.3%	-89.7%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/17/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information			
		3	
Stack Parameter			
Moisture	%	12.1%	
Dry Std. Flow Rate			Avg.
	DSCFM	8940	
O2 (drift corrected)			
	%	13.1	13.1
CO2 (drift corrected)			
	%	3.51	3.51
7E / NOx			
	ppmvd	34.95	34.95
	lb/hr	2.24	2.24

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	PCC	Date:	8/17/2006

	Method / Gas	3A / O2	3A / CO2	7E / NOx
	Source	PCC	PCC	PCC
Calibration Drift Check				
	Time	5:10 PM	5:10 PM	5:10 PM
	Span	25	20	100
	Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero				
	Initial	0.1	0.1	0.2
	Final	0.2	0.05	0.5
	Average (C_o)	0.15	0.075	0.35
	Certified Value	0	0	0
	% Drift	0.4%	-0.3%	0.3%
	% Sys. Bias	0.6%	0.2%	0.2%
Upscale (Cma)				
	Upscale Gas:	Mid	Mid	Mid
	Initial	12.5	10.2	54.4
	Final	12.45	10.1	54.9
	Average (C_m)	12.475	10.15	54.65
	Certified Value	12.63	10.236	53.97
	% Drift	-0.2%	-0.5%	0.5%
	% Sys. Bias	-0.6%	-0.5%	0.8%
Run Data Calculations				
	Number of Sample Points:	705	705	705
	Average Concentration (C):	12.90	3.53	35.52
	Drift Corrected Average (C_{gas})	13.07	3.51	34.95
	Maximum Concentration:	17.33	3.82	46.83
	Minumum Concentration:	12.25	2.24	23.32

DATE	TIME	%	%	ppmvd
	8/17/2006 8:28	16.1793	3.05701	46.1238
	8/17/2006 8:28	16.2923	2.72494	41.1671
	8/17/2006 8:29	17.3269	2.24393	31.0585
	8/17/2006 8:29	17.1835	2.471	32.9142
	8/17/2006 8:29	16.5242	2.80063	36.5035
	8/17/2006 8:29	15.8131	3.26944	36.2349
	8/17/2006 8:30	15.1019	3.59419	35.8686
	8/17/2006 8:30	14.7784	3.81638	39.1894
	8/17/2006 8:30	14.6716	3.81638	41.3625
	8/17/2006 8:30	14.6716	3.81638	41.9973
	8/17/2006 8:31	14.6716	3.81638	42.4368
	8/17/2006 8:31	14.6716	3.81638	42.8763
	8/17/2006 8:31	14.7754	3.81638	43.1693
	8/17/2006 8:31	14.8761	3.81638	43.3158
	8/17/2006 8:32	14.9829	3.61616	42.8275
	8/17/2006 8:32	15.4438	3.50629	41.9241
	8/17/2006 8:32	15.5445	3.40129	41.6555
	8/17/2006 8:32	15.6483	3.40129	40.9962
	8/17/2006 8:33	15.749	3.30118	40.8253
	8/17/2006 8:33	15.749	3.30118	40.9474

8/17/2006 8:33	15.749	3.30118	40.9718
8/17/2006 8:33	15.8497	3.30118	41.2404
8/17/2006 8:34	15.8497	3.30118	41.3625
8/17/2006 8:34	15.8497	3.30118	41.4846
8/17/2006 8:34	15.8497	3.30118	41.3625
8/17/2006 8:34	15.8497	3.30118	41.6799
8/17/2006 8:35	15.8497	3.30118	41.3625
8/17/2006 8:35	15.8497	3.30118	41.4846
8/17/2006 8:35	15.7459	3.30118	41.3625
8/17/2006 8:35	15.7459	3.40129	41.6311
8/17/2006 8:36	15.6422	3.40129	42.0217
8/17/2006 8:36	15.6422	3.40129	42.0217
8/17/2006 8:36	15.6422	3.40129	41.8752
8/17/2006 8:36	15.6422	3.40129	42.3147
8/17/2006 8:37	15.6422	3.40129	42.9252
8/17/2006 8:37	15.6422	3.40129	43.6821
8/17/2006 8:37	15.6422	3.40129	44.8297
8/17/2006 8:37	15.7429	3.30118	44.5123
8/17/2006 8:38	15.8436	3.30118	43.9263
8/17/2006 8:38	15.8436	3.30118	43.8042
8/17/2006 8:38	15.9504	3.19619	43.4623
8/17/2006 8:38	15.9504	3.19619	43.2182
8/17/2006 8:39	15.9504	3.19619	43.0717
8/17/2006 8:39	16.0542	3.19619	42.9252
8/17/2006 8:39	16.0542	3.19619	43.0228
8/17/2006 8:39	16.0542	3.19619	43.1693
8/17/2006 8:40	15.9535	3.19619	42.5833
8/17/2006 8:40	15.9535	3.19619	42.7542
8/17/2006 8:40	15.8436	3.19619	42.388
8/17/2006 8:40	15.8436	3.2963	42.5833
8/17/2006 8:41	15.8436	3.2963	42.4612
8/17/2006 8:41	15.8436	3.2963	42.5833
8/17/2006 8:41	15.8436	3.2963	42.5833
8/17/2006 8:41	15.8436	3.2963	42.7298
8/17/2006 8:42	15.8436	3.2963	43.0228
8/17/2006 8:42	15.8436	3.2963	42.7542
8/17/2006 8:42	15.8436	3.2963	42.7542
8/17/2006 8:42	15.8436	3.2963	42.7787
8/17/2006 8:43	15.8436	3.2963	42.7787
8/17/2006 8:43	15.8436	3.2963	42.8031
8/17/2006 8:43	15.7368	3.2963	42.8031
8/17/2006 8:43	15.7368	3.2963	43.1449
8/17/2006 8:44	15.7368	3.2963	43.1449
8/17/2006 8:44	15.7368	3.2963	43.4379
8/17/2006 8:44	15.7368	3.2963	43.4379
8/17/2006 8:44	15.7368	3.2963	43.0228
8/17/2006 8:45	15.8558	3.19131	42.8763
8/17/2006 8:45	15.9565	3.19131	41.9241
8/17/2006 8:45	16.0573	3.0912	41.3625
8/17/2006 8:45	16.0573	3.0912	40.4346
8/17/2006 8:46	16.0573	3.0912	39.1161
8/17/2006 8:46	16.0573	3.0912	38.6278
8/17/2006 8:46	15.8375	3.19619	38.6278
8/17/2006 8:46	15.7368	3.29874	38.8963

8/17/2006 8:47	15.633	3.29874	39.0184
8/17/2006 8:47	15.5323	3.40129	39.5068
8/17/2006 8:47	15.4194	3.5014	39.3847
8/17/2006 8:47	15.3186	3.5014	39.6777
8/17/2006 8:48	15.3186	3.5014	39.8242
8/17/2006 8:48	15.3186	3.5014	39.58
8/17/2006 8:48	15.3186	3.5014	39.7265
8/17/2006 8:48	15.3186	3.5014	39.7265
8/17/2006 8:49	15.3186	3.5014	40.4346
8/17/2006 8:49	15.3186	3.5014	40.7032
8/17/2006 8:49	15.4194	3.5014	40.5323
8/17/2006 8:49	15.4194	3.40129	40.5323
8/17/2006 8:50	15.5231	3.40129	40.5323
8/17/2006 8:50	15.5231	3.40129	40.3858
8/17/2006 8:50	15.5231	3.40129	40.0928
8/17/2006 8:50	15.5231	3.40129	40.2149
8/17/2006 8:51	15.5231	3.40129	40.1905
8/17/2006 8:51	15.5231	3.40129	39.7754
8/17/2006 8:51	15.5231	3.40129	39.9219
8/17/2006 8:51	15.5231	3.40129	39.7754
8/17/2006 8:52	15.4224	3.5014	39.6289
8/17/2006 8:52	15.3186	3.5014	38.6766
8/17/2006 8:52	15.3186	3.5014	38.7987
8/17/2006 8:52	15.3186	3.5014	38.6522
8/17/2006 8:53	15.3186	3.5014	38.3348
8/17/2006 8:53	15.3186	3.5014	38.6766
8/17/2006 8:53	15.3186	3.5014	38.5301
8/17/2006 8:53	15.3186	3.5014	38.3836
8/17/2006 8:54	15.3186	3.5014	38.5301
8/17/2006 8:54	15.3186	3.5014	38.8231
8/17/2006 8:54	15.3186	3.5014	38.5301
8/17/2006 8:54	15.3186	3.5014	38.3836
8/17/2006 8:55	15.3186	3.5014	38.1638
8/17/2006 8:55	15.3186	3.5014	38.5789
8/17/2006 8:55	15.3186	3.5014	38.5789
8/17/2006 8:55	15.3186	3.5014	38.9696
8/17/2006 8:56	15.3186	3.5014	39.58
8/17/2006 8:56	15.3186	3.5014	39.58
8/17/2006 8:56	15.3186	3.5014	39.58
8/17/2006 8:56	15.3186	3.5014	39.58
8/17/2006 8:57	15.3186	3.5014	39.7021
8/17/2006 8:57	15.3186	3.5014	39.58
8/17/2006 8:57	15.3186	3.5014	39.4335
8/17/2006 8:57	15.3186	3.5014	38.8475
8/17/2006 8:58	15.2088	3.5014	38.408
8/17/2006 8:58	15.2088	3.5014	38.0173
8/17/2006 8:58	15.2088	3.5014	38.2859
8/17/2006 8:58	15.2088	3.5014	38.5789
8/17/2006 8:59	15.2088	3.5014	38.115
8/17/2006 8:59	15.2088	3.5014	38.2615
8/17/2006 8:59	15.2088	3.5014	38.2371
8/17/2006 8:59	15.2088	3.5014	38.3592
8/17/2006 9:00	15.2088	3.5014	38.3592
8/17/2006 9:00	15.2088	3.5014	38.2371

8/17/2006 9:00	15.2088	3.5014	38.3836
8/17/2006 9:00	15.2088	3.5014	38.0662
8/17/2006 9:01	15.2088	3.5014	38.2127
8/17/2006 9:01	15.2088	3.5014	38.3592
8/17/2006 9:01	15.2088	3.5014	38.4813
8/17/2006 9:01	15.2088	3.5014	38.3836
8/17/2006 9:02	15.2088	3.5014	38.6766
8/17/2006 9:02	15.2088	3.5014	39.2382
8/17/2006 9:02	15.2088	3.5014	39.4824
8/17/2006 9:02	15.2088	3.5014	39.4824
8/17/2006 9:03	15.2088	3.5014	39.4824
8/17/2006 9:03	15.2088	3.5014	39.2382
8/17/2006 9:03	15.2088	3.5014	39.1161
8/17/2006 9:03	15.2088	3.5014	39.2382
8/17/2006 9:04	15.2088	3.5014	38.701
8/17/2006 9:04	15.1019	3.5014	38.5301
8/17/2006 9:04	15.1019	3.5014	38.3836
8/17/2006 9:04	15.1019	3.5014	38.115
8/17/2006 9:05	15.1019	3.5014	38.2371
8/17/2006 9:05	15.1019	3.5014	38.115
8/17/2006 9:05	15.1019	3.5014	37.9197
8/17/2006 9:05	15.1019	3.5014	38.2371
8/17/2006 9:06	15.1019	3.5014	37.9197
8/17/2006 9:06	15.1019	3.5014	37.9197
8/17/2006 9:06	15.1019	3.5014	38.0906
8/17/2006 9:06	15.1019	3.5014	38.0906
8/17/2006 9:07	15.1019	3.5014	38.2371
8/17/2006 9:07	15.1019	3.5014	38.3836
8/17/2006 9:07	15.0012	3.5014	38.5301
8/17/2006 9:07	15.0012	3.5014	38.408
8/17/2006 9:08	15.0012	3.5014	38.2859
8/17/2006 9:08	15.0012	3.5014	38.6278
8/17/2006 9:08	15.108	3.5014	39.2382
8/17/2006 9:08	15.108	3.5014	39.2626
8/17/2006 9:09	15.108	3.5014	39.5556
8/17/2006 9:09	15.108	3.5014	39.1405
8/17/2006 9:09	15.108	3.5014	39.4091
8/17/2006 9:09	15.108	3.5014	39.287
8/17/2006 9:10	15.108	3.5014	39.287
8/17/2006 9:10	15.108	3.5014	39.1405
8/17/2006 9:10	15.108	3.5014	38.2371
8/17/2006 9:10	15.0073	3.5014	37.822
8/17/2006 9:11	15.0073	3.60151	37.9441
8/17/2006 9:11	15.0073	3.60151	37.9441
8/17/2006 9:11	15.0073	3.60151	38.1883
8/17/2006 9:11	15.0073	3.60151	38.3348
8/17/2006 9:12	15.0073	3.60151	38.0906
8/17/2006 9:12	15.0073	3.60151	37.9197
8/17/2006 9:12	14.9066	3.60151	38.2615
8/17/2006 9:12	14.9066	3.60151	37.9441
8/17/2006 9:13	14.9066	3.60151	38.0662
8/17/2006 9:13	14.9066	3.60151	38.3836
8/17/2006 9:13	14.9066	3.60151	38.2615
8/17/2006 9:13	14.9066	3.60151	38.6278

8/17/2006 9:14	15.0073	3.5014	39.9463
8/17/2006 9:14	15.0073	3.5014	39.7754
8/17/2006 9:14	15.0073	3.5014	39.6533
8/17/2006 9:14	15.0073	3.5014	39.4091
8/17/2006 9:15	15.0073	3.5014	39.5312
8/17/2006 9:15	15.0073	3.5014	39.2626
8/17/2006 9:15	15.0073	3.5014	39.4335
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8/17/2006 16:17	13.2157	3.39641	31.791
8/17/2006 16:17	13.2157	3.39641	32.1572
8/17/2006 16:17	13.115	3.39641	32.4503
8/17/2006 16:18	13.115	3.39641	32.8898
8/17/2006 16:18	13.115	3.39641	32.4991
8/17/2006 16:18	13.115	3.39641	32.7921
8/17/2006 16:18	13.115	3.39641	33.0851
8/17/2006 16:19	13.115	3.39641	33.0851
8/17/2006 16:19	13.115	3.39641	33.1339
8/17/2006 16:19	13.115	3.39641	33.1339
8/17/2006 16:19	13.115	3.39641	33.4025
8/17/2006 16:20	13.115	3.39641	33.4025
8/17/2006 16:20	13.115	3.39641	33.549
8/17/2006 16:20	13.115	3.39641	32.963
8/17/2006 16:20	13.115	3.39641	33.2316
8/17/2006 16:21	13.115	3.39641	32.8165
8/17/2006 16:21	13.115	3.39641	32.9142
8/17/2006 16:21	13.115	3.39641	32.3037
8/17/2006 16:21	13.115	3.39641	32.9142
8/17/2006 16:22	13.115	3.39641	33.0851
8/17/2006 16:22	13.115	3.39641	32.9386
8/17/2006 16:22	13.2157	3.39641	32.67
8/17/2006 16:22	13.2157	3.39641	32.8165
8/17/2006 16:23	13.2157	3.39641	32.7921
8/17/2006 16:23	13.2157	3.39641	33.0851
8/17/2006 16:23	13.2157	3.39641	33.0851
8/17/2006 16:23	13.2157	3.39641	32.7921
8/17/2006 16:24	13.2157	3.39641	33.0851

8/17/2006 16:24	13.2157	3.39641	33.0851
8/17/2006 16:24	13.2157	3.39641	33.0851
8/17/2006 16:24	13.2157	3.39641	33.3537
8/17/2006 16:25	13.2157	3.39641	33.8664
8/17/2006 16:25	13.2157	3.39641	33.4758
8/17/2006 16:25	13.2157	3.39641	33.3537
8/17/2006 16:25	13.2157	3.39641	33.2316
8/17/2006 16:26	13.2157	3.39641	33.5246
8/17/2006 16:26	13.2157	3.39641	33.1339
8/17/2006 16:26	13.2157	3.39641	33.0118
8/17/2006 16:26	13.2157	3.39641	33.3293
8/17/2006 16:27	13.2157	3.39641	33.3537
8/17/2006 16:27	13.2157	3.39641	33.3537
8/17/2006 16:27	13.3164	3.39641	33.2316
8/17/2006 16:27	13.3164	3.39641	33.2316
8/17/2006 16:28	13.3164	3.39641	32.7921
8/17/2006 16:28	13.4263	3.39641	31.9375
8/17/2006 16:28	13.4263	3.39641	31.5224
8/17/2006 16:28	13.4263	3.39641	31.5224
8/17/2006 16:29	13.4263	3.39641	31.3515
8/17/2006 16:29	13.4263	3.39641	31.8887
8/17/2006 16:29	13.4263	3.39641	31.8887
8/17/2006 16:29	13.4263	3.39641	31.498
8/17/2006 16:30	13.4263	3.39641	31.5224
8/17/2006 16:30	13.4263	3.39641	32.2549
8/17/2006 16:30	13.4263	3.39641	32.4991
8/17/2006 16:30	13.4263	3.39641	32.6456
8/17/2006 16:31	13.4263	3.39641	33.2316
8/17/2006 16:31	13.4263	3.39641	33.5979
8/17/2006 16:31	13.4263	3.39641	33.3537
8/17/2006 16:31	13.4263	3.39641	33.5002
8/17/2006 16:32	13.4263	3.39641	33.6467
8/17/2006 16:32	13.4263	3.39641	33.9397
8/17/2006 16:32	13.3225	3.39641	34.6966
8/17/2006 16:32	13.3225	3.39641	35.1117
8/17/2006 16:33	13.3225	3.39641	35.3559
8/17/2006 16:33	13.3225	3.39641	35.2338
8/17/2006 16:33	13.3225	3.39641	35.2338
8/17/2006 16:33	13.3225	3.39641	35.3559
8/17/2006 16:34	13.3225	3.39641	35.478
8/17/2006 16:34	13.3225	3.39641	35.6489
8/17/2006 16:34	13.3225	3.39641	35.5024
8/17/2006 16:34	13.3225	3.39641	35.3559
8/17/2006 16:35	13.3225	3.39641	34.8187
8/17/2006 16:35	13.3225	3.39641	34.8187
8/17/2006 16:35	13.3225	3.39641	33.8176
8/17/2006 16:35	13.4324	3.39641	33.4513
8/17/2006 16:36	13.5362	3.39641	33.4513
8/17/2006 16:36	13.5362	3.39641	33.7444
8/17/2006 16:36	13.5362	3.39641	34.6478
8/17/2006 16:36	13.5362	3.39641	33.8909
8/17/2006 16:37	13.5362	3.39641	33.6467
8/17/2006 16:37	13.5362	3.39641	33.7932
8/17/2006 16:37	13.5362	3.39641	33.5002

8/17/2006 16:37	13.5362	3.39641	32.1817
8/17/2006 16:38	13.64	3.39641	32.1817
8/17/2006 16:38	13.64	3.39641	32.2061
8/17/2006 16:38	13.64	3.2963	32.2061
8/17/2006 16:38	13.64	3.2963	31.7666
8/17/2006 16:39	13.64	3.2963	31.9131
8/17/2006 16:39	13.64	3.2963	32.377
8/17/2006 16:39	13.64	3.2963	32.9874
8/17/2006 16:39	13.64	3.2963	33.2072
8/17/2006 16:40	13.5393	3.2963	33.2316
8/17/2006 16:40	13.5393	3.39641	33.6467
8/17/2006 16:40	13.5393	3.39641	34.0618
8/17/2006 16:40	13.5393	3.39641	33.7932
8/17/2006 16:41	13.5393	3.39641	34.8431
8/17/2006 16:41	13.5393	3.39641	35.2582
8/17/2006 16:41	13.5393	3.39641	35.1117
8/17/2006 16:41	13.5393	3.39641	35.1361
8/17/2006 16:42	13.5393	3.39641	35.1361
8/17/2006 16:42	13.5393	3.39641	28.4459
8/17/2006 16:42	13.5393	3.39641	29.7155
8/17/2006 16:42	13.5393	3.39641	30.7411
8/17/2006 16:43	13.5393	3.39641	31.1561
8/17/2006 16:43	13.5393	3.39641	31.8642
8/17/2006 16:43	13.5393	3.39641	31.8642
8/17/2006 16:43	13.5393	3.39641	31.5957
8/17/2006 16:44	13.5393	3.39641	31.8887
8/17/2006 16:44	13.5393	3.39641	32.2549
8/17/2006 16:44	13.5393	3.39641	32.084
8/17/2006 16:44	13.5393	3.39641	31.9619
8/17/2006 16:45	13.64	3.39641	30.9608
8/17/2006 16:45	13.64	3.39641	30.6678
8/17/2006 16:45	13.64	3.39641	30.9364
8/17/2006 16:45	13.64	3.39641	30.8143
8/17/2006 16:46	13.64	3.39641	30.8143
8/17/2006 16:46	13.7468	3.39641	30.6922
8/17/2006 16:46	13.7468	3.2963	29.5935
8/17/2006 16:46	13.8475	3.2963	28.9342
8/17/2006 16:47	13.8475	3.2963	28.7877
8/17/2006 16:47	13.8475	3.2963	28.7877
8/17/2006 16:47	13.8475	3.2963	29.3981
8/17/2006 16:47	13.8475	3.2963	29.276
8/17/2006 16:48	13.8475	3.2963	28.69
8/17/2006 16:48	13.8475	3.2963	28.69
8/17/2006 16:48	13.8475	3.2963	28.69
8/17/2006 16:48	13.8475	3.2963	29.2516
8/17/2006 16:49	13.8475	3.2963	29.569
8/17/2006 16:49	13.8475	3.2963	29.6911
8/17/2006 16:49	13.8475	3.2963	30.4969
8/17/2006 16:49	13.7468	3.2963	31.0585
8/17/2006 16:50	13.7468	3.2963	30.7411
8/17/2006 16:50	13.7468	3.2963	31.0096
8/17/2006 16:50	13.7468	3.39641	32.3037
8/17/2006 16:50	13.7468	3.39641	32.4258
8/17/2006 16:51	13.7468	3.39641	32.4258

8/17/2006 16:51	13.7468	3.39641	32.5479
8/17/2006 16:51	13.7468	3.39641	32.963
8/17/2006 16:51	13.7468	3.39641	32.7677
8/17/2006 16:52	13.7468	3.39641	32.7677
8/17/2006 16:52	13.7468	3.39641	32.8898
8/17/2006 16:52	13.7468	3.39641	32.6456
8/17/2006 16:52	13.7468	3.39641	33.0607
8/17/2006 16:53	13.7468	3.39641	32.6456
8/17/2006 16:53	13.7468	3.39641	32.7921
8/17/2006 16:53	13.7468	3.39641	32.8165
8/17/2006 16:53	13.7468	3.39641	32.8165
8/17/2006 16:54	13.7468	3.39641	32.9386
8/17/2006 16:54	13.7468	3.39641	33.2072
8/17/2006 16:54	13.7468	3.39641	33.0851
8/17/2006 16:54	13.7468	3.39641	33.256
8/17/2006 16:55	13.7468	3.39641	32.8409
8/17/2006 16:55	13.7468	3.39641	32.963
8/17/2006 16:55	13.7468	3.39641	32.963
8/17/2006 16:55	13.7468	3.39641	32.963

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	O2	CO2	CO	SO2	NOx	THC	ch4
8/15/2006 9:09	17.2	2.5	1.0	0.0	35.6	0.4	0.8
8/15/2006 9:09	17.6	2.4	1.0	-0.2	32.5	0.9	0.8
8/15/2006 9:09	17.6	2.4	10.7	0.0	32.9	21.9	2.2
8/15/2006 9:09	18.0	1.9	135.0	0.5	26.9	17.7	22.0
8/15/2006 9:10	18.3	1.7	416.8	15.9	23.6	0.6	40.6
8/15/2006 9:10	17.3	2.4	548.9	38.1	32.3	0.7	17.4
8/15/2006 9:10	16.3	2.9	438.8	57.1	41.8	0.4	4.7
8/15/2006 9:10	15.9	3.1	308.9	77.2	37.8	-0.2	1.4
8/15/2006 9:11	15.4	3.5	160.9	89.9	37.5	-0.5	0.5
8/15/2006 9:11	14.9	3.7	48.6	92.3	40.1	0.2	0.3
8/15/2006 9:11	14.8	3.8	12.9	86.7	41.2	0.0	0.3
8/15/2006 9:11	14.7	3.9	4.9	77.6	42.2	-0.5	0.4
8/15/2006 9:12	14.7	3.9	0.7	69.3	43.2	0.4	0.2
8/15/2006 9:12	14.7	3.9	0.7	62.3	43.6	-0.4	0.3
8/15/2006 9:12	14.7	3.9	0.7	54.0	44.6	0.2	0.3
8/15/2006 9:12	14.9	3.7	1.0	46.4	45.5	-0.5	0.3
8/15/2006 9:13	15.3	3.6	0.7	42.5	45.2	0.1	0.4
8/15/2006 9:13	15.5	3.5	0.7	39.8	45.0	-0.4	0.4
8/15/2006 9:13	15.6	3.4	0.7	35.9	44.9	0.4	0.3
8/15/2006 9:13	15.7	3.3	2.9	32.2	44.7	0.2	0.3
8/15/2006 9:14	16.0	3.2	4.9	29.8	45.0	0.2	0.3
8/15/2006 9:14	16.0	3.2	4.6	26.9	45.4	0.2	0.3
8/15/2006 9:14	16.1	3.2	4.9	24.7	45.2	0.2	0.3
8/15/2006 9:14	16.1	3.2	6.8	22.2	45.2	-0.4	0.3
8/15/2006 9:15	16.1	3.2	6.8	20.5	45.5	0.2	0.5
8/15/2006 9:15	16.1	3.2	4.9	19.3	44.7	0.2	0.4
8/15/2006 9:15	16.0	3.2	2.7	18.8	44.3	0.1	0.3
8/15/2006 9:15	15.8	3.3	2.7	17.1	44.6	0.2	0.3
8/15/2006 9:16	15.7	3.4	2.9	15.9	44.7	0.2	0.4
8/15/2006 9:16	15.7	3.4	0.7	14.7	44.9	-0.4	0.3
8/15/2006 9:16	15.7	3.4	1.0	14.2	45.1	-0.5	0.3
8/15/2006 9:16	15.7	3.4	0.7	14.2	45.1	0.2	0.3
8/15/2006 9:17	15.7	3.4	0.7	13.4	45.0	0.2	0.4
8/15/2006 9:17	15.7	3.4	0.7	13.4	45.1	0.4	0.3
8/15/2006 9:17	15.7	3.4	0.7	13.4	45.4	-0.1	0.3
8/15/2006 9:17	15.7	3.4	2.7	12.9	45.8	-0.2	0.4
8/15/2006 9:18	15.8	3.3	2.7	12.9	46.1	0.4	0.3
8/15/2006 9:18	15.8	3.3	2.9	12.9	46.4	-0.4	0.3
8/15/2006 9:18	15.8	3.3	2.7	12.9	46.6	0.0	0.3
8/15/2006 9:18	15.8	3.3	2.9	12.9	46.4	0.0	0.4
8/15/2006 9:19	15.8	3.3	2.9	12.9	46.4	-0.4	0.3

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8/15/2006 9:19	15.8	3.3	2.9	12.9	46.9	-0.5	0.3
8/15/2006 9:19	15.8	3.3	2.7	12.9	46.9	0.2	0.3
8/15/2006 9:19	15.8	3.3	2.9	12.9	46.9	-0.5	0.3
8/15/2006 9:20	15.8	3.3	2.7	12.9	47.0	0.2	0.4
8/15/2006 9:20	15.8	3.3	2.7	12.9	47.0	0.1	0.2
8/15/2006 9:20	15.8	3.3	3.4	12.9	47.2	-0.4	0.4
8/15/2006 9:20	15.8	3.3	2.7	12.9	47.2	0.2	0.3
8/15/2006 9:21	15.8	3.3	2.9	12.9	46.9	-0.4	0.5
8/15/2006 9:21	15.8	3.3	2.7	12.9	47.1	0.2	0.4
8/15/2006 9:21	15.7	3.3	2.9	12.9	47.3	-0.4	0.3
8/15/2006 9:21	15.7	3.3	2.9	12.9	47.5	0.0	0.3
8/15/2006 9:22	15.7	3.3	2.7	12.9	47.1	0.2	0.3
8/15/2006 9:22	15.7	3.3	2.9	12.9	47.1	-0.2	0.3
8/15/2006 9:22	15.7	3.3	2.9	12.9	47.3	-0.5	0.3
8/15/2006 9:22	15.7	3.3	2.7	12.7	46.8	0.0	0.3
8/15/2006 9:23	15.7	3.3	2.7	13.7	45.9	0.2	0.3
8/15/2006 9:23	15.7	3.3	2.7	14.2	43.8	0.0	0.3
8/15/2006 9:23	15.7	3.2	5.1	13.9	42.4	-0.5	0.3
8/15/2006 9:23	15.7	3.2	6.6	14.2	41.0	0.2	0.3
8/15/2006 9:24	15.7	3.2	6.8	14.7	40.5	-0.5	0.3
8/15/2006 9:24	15.6	3.3	9.0	14.7	40.6	0.4	0.2
8/15/2006 9:24	15.5	3.4	9.0	15.1	40.8	-0.6	0.3
8/15/2006 9:24	15.3	3.5	6.8	15.9	41.5	0.2	0.2
8/15/2006 9:25	15.2	3.6	4.9	16.4	42.3	0.1	0.3
8/15/2006 9:25	15.1	3.6	4.9	17.3	42.7	-0.2	0.3
8/15/2006 9:25	15.0	3.6	4.6	19.3	43.3	0.2	0.3
8/15/2006 9:25	15.0	3.6	4.9	20.5	43.8	-0.4	0.3
8/15/2006 9:26	15.0	3.6	6.8	21.7	44.7	0.4	0.3
8/15/2006 9:26	15.1	3.6	10.7	22.7	45.4	-0.2	0.3
8/15/2006 9:26	15.1	3.6	14.7	24.2	45.4	0.4	0.3
8/15/2006 9:26	15.2	3.5	16.8	25.1	45.2	0.0	0.3
8/15/2006 9:27	15.2	3.5	22.7	27.6	45.2	0.2	0.3
8/15/2006 9:27	15.2	3.5	26.9	30.0	45.2	-0.2	0.3
8/15/2006 9:27	15.2	3.5	24.9	31.7	45.5	-0.2	0.3
8/15/2006 9:27	15.2	3.5	26.9	32.7	45.6	0.4	0.3
8/15/2006 9:28	15.2	3.5	29.1	33.9	45.6	-0.4	0.3
8/15/2006 9:28	15.2	3.5	31.0	35.2	45.8	0.4	0.3
8/15/2006 9:28	15.2	3.5	33.0	37.1	45.6	0.1	0.3
8/15/2006 9:28	15.2	3.5	36.9	38.1	45.8	-0.2	0.3
8/15/2006 9:29	15.2	3.5	32.7	39.3	45.2	0.4	0.3
8/15/2006 9:29	15.1	3.5	29.3	39.8	44.8	0.0	0.3
8/15/2006 9:29	15.1	3.6	26.9	41.3	45.2	0.2	0.3
8/15/2006 9:29	14.9	3.6	20.8	42.2	45.0	0.0	0.2
8/15/2006 9:30	14.8	3.7	16.8	42.7	44.7	0.5	0.2

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8/15/2006 9:30	14.8	3.7	12.9	42.7	44.8	0.0	0.2
8/15/2006 9:30	14.8	3.7	12.9	43.5	44.8	-0.2	0.4
8/15/2006 9:30	14.8	3.7	12.9	43.5	44.5	0.7	0.2
8/15/2006 9:31	14.8	3.7	12.9	44.0	44.4	0.9	0.2
8/15/2006 9:31	14.8	3.7	14.9	44.0	44.6	-0.1	0.2
8/15/2006 9:31	14.8	3.7	16.8	44.7	45.0	0.4	0.2
8/15/2006 9:31	14.8	3.7	20.8	45.2	45.0	0.6	0.3
8/15/2006 9:32	14.9	3.6	28.8	45.4	45.6	0.6	0.2
8/15/2006 9:32	14.9	3.6	36.6	45.4	46.2	0.6	0.2
8/15/2006 9:32	14.9	3.6	38.8	45.2	46.1	0.1	0.1
8/15/2006 9:32	14.9	3.6	42.7	45.7	46.1	0.5	0.1
8/15/2006 9:33	14.9	3.6	46.9	46.1	45.8	0.5	0.2
8/15/2006 9:33	14.9	3.6	47.1	46.4	45.9	0.1	0.3
8/15/2006 9:33	14.9	3.6	44.7	46.4	45.6	0.5	0.1
8/15/2006 9:33	14.8	3.6	41.0	46.4	45.5	0.0	0.1
8/15/2006 9:34	14.7	3.7	33.0	46.4	44.5	0.7	0.1
8/15/2006 9:34	14.6	3.7	24.7	46.4	44.3	0.7	0.1
8/15/2006 9:34	14.6	3.7	23.0	46.4	44.2	-0.1	0.1
8/15/2006 9:34	14.6	3.7	23.0	45.9	44.0	0.1	0.2
8/15/2006 9:35	14.6	3.7	22.7	45.9	44.0	0.7	0.2
8/15/2006 9:35	14.6	3.7	21.0	45.9	44.4	0.1	0.2
8/15/2006 9:35	14.6	3.7	20.8	46.9	44.2	0.7	0.1
8/15/2006 9:35	14.6	3.7	23.0	47.6	44.2	0.0	0.3
8/15/2006 9:36	14.6	3.7	20.8	48.8	44.2	0.7	0.2
8/15/2006 9:36	14.5	3.7	22.7	48.1	44.0	0.0	0.2
8/15/2006 9:36	14.5	3.7	22.7	48.1	44.0	0.6	0.2
8/15/2006 9:36	14.5	3.7	23.0	48.1	43.9	0.0	0.2
8/15/2006 9:37	14.5	3.7	24.9	48.6	44.2	-0.1	0.0
8/15/2006 9:37	14.5	3.7	26.9	48.6	44.0	0.6	0.1
8/15/2006 9:37	14.5	3.7	34.9	48.6	45.0	-0.1	0.2
8/15/2006 9:37	14.6	3.7	46.9	48.3	45.2	0.6	0.1
8/15/2006 9:38	14.6	3.7	52.7	48.8	45.2	0.6	0.1
8/15/2006 9:38	14.6	3.7	52.7	49.3	45.2	-0.1	0.1
8/15/2006 9:38	14.6	3.7	52.7	50.5	45.1	0.0	0.2
8/15/2006 9:38	14.6	3.7	52.7	50.5	45.1	0.6	0.0
8/15/2006 9:39	14.6	3.7	54.7	50.1	44.8	0.6	0.2
8/15/2006 9:39	14.5	3.7	50.8	49.3	44.7	0.0	0.2
8/15/2006 9:39	14.4	3.7	42.7	49.3	44.3	0.7	-0.5
8/15/2006 9:39	14.4	3.7	43.0	49.3	44.3	0.0	0.1
8/15/2006 9:40	14.4	3.7	40.8	49.3	44.0	0.5	0.1
8/15/2006 9:40	14.3	3.8	30.8	49.3	43.5	0.7	0.0
8/15/2006 9:40	14.3	3.8	22.7	48.6	43.4	0.0	0.2
8/15/2006 9:40	14.3	3.8	21.0	49.3	43.4	0.0	0.2
8/15/2006 9:41	14.2	3.8	21.0	49.3	43.4	0.6	0.0

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8/15/2006 9:41	14.2	3.8	20.8	50.1	43.3	0.7	0.0
8/15/2006 9:41	14.2	3.8	22.7	51.0	43.4	0.1	0.2
8/15/2006 9:41	14.2	3.8	24.9	51.0	43.4	0.5	0.1
8/15/2006 9:42	14.3	3.8	34.9	51.8	44.4	0.1	0.1
8/15/2006 9:42	14.3	3.8	42.7	52.3	44.8	0.5	0.1
8/15/2006 9:42	14.3	3.8	44.9	53.0	44.8	0.7	0.1
8/15/2006 9:42	14.3	3.8	46.9	52.3	44.8	0.4	0.1
8/15/2006 9:43	14.3	3.8	50.8	52.3	44.7	1.0	0.1
8/15/2006 9:43	14.3	3.8	48.8	52.3	44.7	0.1	0.1
8/15/2006 9:43	14.3	3.8	50.8	52.3	44.8	0.9	0.1
8/15/2006 9:43	14.3	3.8	54.7	52.3	44.7	1.0	0.1
8/15/2006 9:44	14.3	3.8	56.9	51.5	44.7	1.7	0.1
8/15/2006 9:44	14.3	3.8	54.7	51.5	44.8	1.7	0.1
8/15/2006 9:44	14.3	3.8	54.7	52.3	45.0	1.8	0.1
8/15/2006 9:44	14.3	3.8	53.0	52.7	45.0	0.9	0.1
8/15/2006 9:45	14.3	3.8	46.9	52.7	45.4	1.2	0.1
8/15/2006 9:45	14.2	3.8	38.8	53.0	44.8	1.6	0.1
8/15/2006 9:45	14.2	3.8	34.7	52.7	44.5	1.6	0.1
8/15/2006 9:45	14.2	3.8	34.9	53.5	44.2	1.2	0.1
8/15/2006 9:46	14.1	3.8	31.0	53.2	44.4	0.9	0.1
8/15/2006 9:46	14.0	3.9	20.8	52.3	46.2	1.5	0.1
8/15/2006 9:46	14.0	3.9	14.9	51.8	46.6	1.3	0.0
8/15/2006 9:46	13.9	3.9	11.0	51.8	46.7	0.6	0.0
8/15/2006 9:47	13.9	3.9	10.7	51.5	47.6	1.5	0.0
8/15/2006 9:47	14.0	3.8	11.0	51.0	47.6	0.6	0.0
8/15/2006 9:47	14.2	3.7	12.7	50.5	47.5	1.3	0.0
8/15/2006 9:47	14.3	3.6	16.8	49.8	47.5	1.2	0.0
8/15/2006 9:48	14.4	3.5	22.7	49.3	47.9	0.9	0.0
8/15/2006 9:48	14.4	3.5	26.9	49.6	47.7	1.5	0.0
8/15/2006 9:48	14.5	3.5	28.8	49.1	47.3	0.9	0.0
8/15/2006 9:48	14.5	3.5	26.9	48.8	47.3	1.3	0.0
8/15/2006 9:49	14.5	3.4	24.9	48.6	47.2	0.6	0.0
8/15/2006 9:49	14.5	3.4	26.9	48.1	46.2	0.7	0.2
8/15/2006 9:49	14.4	3.4	23.0	48.1	46.0	0.5	0.0
8/15/2006 9:49	14.4	3.4	18.8	48.8	45.7	1.2	0.0
8/15/2006 9:50	14.4	3.4	14.9	48.8	45.3	1.2	0.1
8/15/2006 9:50	14.2	3.5	11.0	49.3	44.7	1.2	0.1
8/15/2006 9:50	14.2	3.5	8.8	48.8	44.7	0.7	0.1
8/15/2006 9:50	14.2	3.5	7.1	48.1	44.7	1.0	0.1
8/15/2006 9:51	14.1	3.5	6.8	47.9	44.8	1.3	0.0
8/15/2006 9:51	14.1	3.5	6.8	48.1	44.7	0.5	0.1
8/15/2006 9:51	14.1	3.5	4.9	48.1	44.7	1.0	0.1
8/15/2006 9:51	14.1	3.5	6.8	48.1	44.5	0.7	0.1
8/15/2006 9:52	14.1	3.5	4.9	48.6	45.1	0.5	0.1

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8/15/2006 9:52	14.1	3.5	6.8	48.1	45.3	0.6	0.1
8/15/2006 9:52	14.1	3.5	8.8	47.6	46.2	1.1	0.1
8/15/2006 9:52	14.2	3.4	12.9	46.9	46.6	1.2	0.1
8/15/2006 9:53	14.2	3.4	16.8	47.6	47.0	0.4	0.2
8/15/2006 9:53	14.2	3.4	16.8	47.6	47.0	0.2	0.2
8/15/2006 9:53	14.2	3.4	19.0	47.6	46.8	1.0	0.2
8/15/2006 9:53	14.2	3.4	18.6	46.4	47.1	1.1	0.0
8/15/2006 9:54	14.2	3.4	18.8	45.9	47.2	0.4	0.1
8/15/2006 9:54	14.1	3.4	14.9	45.9	46.5	0.9	0.1
8/15/2006 9:54	14.1	3.4	12.9	45.9	46.1	0.4	0.0
8/15/2006 9:54	14.0	3.4	11.0	45.9	46.1	0.1	0.2
8/15/2006 9:55	13.9	3.4	8.8	45.4	45.8	1.0	0.1
8/15/2006 9:55	13.9	3.5	6.8	45.2	45.2	0.2	0.1
8/15/2006 9:55	13.8	3.5	4.9	45.2	45.4	1.0	0.2
8/15/2006 9:55	13.8	3.5	4.9	45.9	45.2	0.7	0.1
8/15/2006 9:56	13.8	3.5	4.9	45.2	45.5	0.1	0.1
8/15/2006 9:56	13.8	3.5	4.6	45.4	45.6	0.9	0.1
8/15/2006 9:56	13.8	3.5	6.6	44.7	45.9	0.9	0.1
8/15/2006 9:56	13.8	3.5	6.8	45.2	47.3	0.0	0.1
8/15/2006 9:57	13.8	3.4	8.8	44.7	47.4	0.6	0.1
8/15/2006 9:57	13.8	3.4	8.8	44.7	47.3	0.5	0.2
8/15/2006 9:57	13.8	3.4	11.0	44.0	47.7	0.2	0.1
8/15/2006 9:57	13.9	3.3	12.7	43.5	48.2	1.0	0.1
8/15/2006 9:58	14.0	3.3	16.8	43.5	48.2	0.1	0.1
8/15/2006 9:58	14.0	3.3	20.8	44.0	48.0	1.0	0.1
8/15/2006 9:58	14.0	3.3	23.0	44.0	47.7	0.0	0.2
8/15/2006 9:58	14.0	3.3	22.7	43.5	46.9	0.2	0.2
8/15/2006 9:59	13.8	3.4	16.8	43.5	46.3	0.9	0.2
8/15/2006 9:59	13.7	3.4	11.0	43.5	46.0	0.2	0.0
8/15/2006 9:59	13.7	3.4	9.0	42.7	46.0	0.1	0.0
8/15/2006 9:59	13.7	3.4	8.8	42.5	46.0	0.7	0.1
8/15/2006 10:00	13.7	3.4	8.8	42.2	46.0	0.9	0.0
8/15/2006 10:00	13.6	3.4	6.8	42.7	45.6	0.9	0.1
8/15/2006 10:00	13.6	3.4	6.8	42.7	46.8	0.1	0.1
8/15/2006 10:00	13.6	3.4	6.8	42.2	46.3	0.0	0.1
8/15/2006 10:01	13.6	3.4	6.8	42.2	46.0	0.1	0.1
8/15/2006 10:01	13.6	3.4	6.8	41.8	46.4	0.5	0.2
8/15/2006 10:01	13.6	3.4	6.8	41.8	46.4	1.0	0.1
8/15/2006 10:01	13.5	3.4	4.9	41.0	46.4	0.9	0.2
8/15/2006 10:02	13.5	3.4	6.8	41.0	46.5	0.1	0.2
8/15/2006 10:02	13.5	3.4	6.8	41.0	46.2	0.1	0.2
8/15/2006 10:02	13.5	3.4	6.8	41.8	45.9	0.0	0.1
8/15/2006 10:02	13.4	3.4	6.6	41.5	46.9	0.7	0.1
8/15/2006 10:03	13.4	3.4	6.8	41.8	47.2	0.1	0.1

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8/15/2006 10:03	13.4	3.4	9.0	40.5	47.8	0.0	0.2
8/15/2006 10:03	13.5	3.3	12.9	40.5	48.0	0.2	0.1
8/15/2006 10:03	13.6	3.3	14.9	39.8	48.3	0.7	0.1
8/15/2006 10:04	13.6	3.3	16.8	39.8	48.2	0.0	0.1
8/15/2006 10:04	13.6	3.3	15.1	40.5	48.9	0.1	0.1
8/15/2006 10:04	13.6	3.3	14.9	40.5	48.8	0.5	0.1
8/15/2006 10:04	13.6	3.3	14.7	40.5	48.8	0.7	0.1
8/15/2006 10:05	13.5	3.3	14.9	40.5	48.1	-0.1	0.2
8/15/2006 10:05	13.5	3.4	12.9	40.5	47.8	0.9	0.1
8/15/2006 10:05	13.3	3.4	8.8	39.8	47.0	0.2	0.1
8/15/2006 10:05	13.2	3.5	6.8	40.0	46.9	0.1	0.1
8/15/2006 10:06	13.2	3.5	4.9	40.0	46.9	0.7	0.1
8/15/2006 10:06	13.2	3.5	4.9	40.0	47.0	0.5	0.1
8/15/2006 10:06	13.2	3.5	4.9	39.8	47.4	0.0	0.1
8/15/2006 10:06	13.2	3.5	4.6	39.6	47.1	0.7	0.1
8/15/2006 10:07	13.1	3.5	4.9	39.3	46.9	0.0	0.1
8/15/2006 10:07	13.1	3.5	6.8	40.0	46.9	0.7	0.1
8/15/2006 10:07	13.2	3.4	6.8	40.0	49.1	0.4	0.2
8/15/2006 10:07	13.2	3.4	11.0	39.8	49.2	0.2	0.1
8/15/2006 10:08	13.2	3.4	12.7	40.5	48.7	0.7	0.1
8/15/2006 10:08	13.2	3.4	12.9	40.5	49.0	0.1	0.2
8/15/2006 10:08	13.2	3.4	14.9	39.8	48.9	-0.1	0.1
8/15/2006 10:08	13.2	3.4	12.9	39.8	49.0	0.6	0.1
8/15/2006 10:09	13.2	3.4	12.9	39.8	49.2	0.9	0.2
8/15/2006 10:09	13.2	3.4	12.9	40.0	49.1	0.4	0.2
8/15/2006 10:09	13.0	1.1	11.0	32.7	28.9	0.0	0.2
8/15/2006 10:31	10.2	3.6	6.8	172.1	85.4	-0.1	0.7
8/15/2006 10:31	10.4	3.6	6.8	114.5	65.1	0.6	0.6
8/15/2006 10:31	10.4	3.6	8.8	98.2	60.7	0.4	0.8
8/15/2006 10:31	10.4	3.6	8.8	91.3	59.8	0.2	0.7
8/15/2006 10:32	10.4	3.6	6.8	87.4	58.7	-0.1	0.7
8/15/2006 10:32	10.4	3.6	6.8	85.9	59.1	0.5	0.7
8/15/2006 10:32	10.4	3.6	6.8	85.2	58.9	0.6	0.7
8/15/2006 10:32	10.4	3.6	6.6	84.5	58.8	0.7	0.7
8/15/2006 10:33	10.4	3.7	6.8	84.0	59.4	0.7	0.7
8/15/2006 10:33	10.4	3.7	6.8	84.0	58.2	0.0	0.7
8/15/2006 10:33	10.4	3.7	6.8	83.8	59.8	0.4	0.7
8/15/2006 10:33	10.4	3.7	6.8	84.5	60.0	0.6	0.7
8/15/2006 10:34	10.4	3.7	6.8	84.7	59.7	0.6	0.6
8/15/2006 10:34	10.4	3.7	8.8	84.5	59.8	0.6	0.6
8/15/2006 10:34	10.4	3.7	8.8	84.0	59.6	0.4	0.6
8/15/2006 10:34	10.4	3.7	8.8	83.8	58.9	0.4	0.6
8/15/2006 10:35	10.4	3.7	10.7	83.3	58.6	0.6	0.7
8/15/2006 10:35	10.4	3.7	11.0	82.3	57.3	0.7	0.7

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8/15/2006 10:35	10.4	3.7	11.0	81.8	55.1	0.6	0.6
8/15/2006 10:35	10.4	3.7	10.7	81.1	53.3	0.7	0.7
8/15/2006 10:36	10.5	3.7	11.2	79.6	51.3	0.6	0.7
8/15/2006 10:36	10.5	3.6	15.1	78.6	48.9	-0.1	0.7
8/15/2006 10:36	10.5	3.6	16.8	78.6	48.3	0.5	0.7
8/15/2006 10:36	10.5	3.6	16.8	78.4	48.5	0.5	0.7
8/15/2006 10:37	10.5	3.6	14.9	78.1	48.7	0.0	0.8
8/15/2006 10:37	10.5	3.6	12.7	78.1	48.6	0.1	0.7
8/15/2006 10:37	10.5	3.6	12.9	80.1	48.6	0.5	0.7
8/15/2006 10:37	10.5	3.6	14.9	83.3	48.3	-0.1	0.8
8/15/2006 10:38	10.5	3.6	14.9	85.2	48.3	0.6	0.7
8/15/2006 10:38	10.5	3.6	12.9	84.5	48.8	0.1	0.6
8/15/2006 10:38	10.5	3.6	14.9	83.5	48.4	0.6	0.6
8/15/2006 10:38	10.4	3.6	12.9	82.3	48.3	-0.1	0.8
8/15/2006 10:39	10.4	3.6	12.9	81.8	48.6	0.6	0.7
8/15/2006 10:39	10.4	3.6	12.9	81.1	48.2	0.2	0.8
8/15/2006 10:39	10.3	3.6	14.9	83.0	48.3	0.6	0.7
8/15/2006 10:39	10.3	3.6	12.9	84.0	47.7	-0.2	0.7
8/15/2006 10:40	10.3	3.7	11.0	83.3	47.4	0.6	0.7
8/15/2006 10:40	10.3	3.7	10.7	81.1	47.7	0.2	0.7
8/15/2006 10:40	10.2	3.7	11.0	81.8	48.2	-0.1	0.7
8/15/2006 10:40	10.2	3.7	8.8	82.3	48.3	0.6	0.7
8/15/2006 10:41	10.2	3.7	6.8	82.8	48.5	-0.2	0.7
8/15/2006 10:41	10.2	3.7	8.8	83.0	48.7	0.6	0.7
8/15/2006 10:41	10.1	3.7	9.0	82.8	48.1	-0.1	0.7
8/15/2006 10:41	10.1	3.7	8.8	82.3	48.3	0.4	0.7
8/15/2006 10:42	10.1	3.7	8.5	81.6	48.5	0.6	0.7
8/15/2006 10:42	10.0	3.7	6.8	79.8	48.7	0.0	0.7
8/15/2006 10:42	10.0	3.7	7.1	77.4	48.8	0.1	0.6
8/15/2006 10:42	10.0	3.7	4.9	74.7	49.1	0.6	0.6
8/15/2006 10:43	10.0	3.7	6.8	72.3	49.0	0.6	0.6
8/15/2006 10:43	10.0	3.7	6.8	71.3	48.9	0.7	0.6
8/15/2006 10:43	10.0	3.7	8.8	70.6	49.5	0.6	0.6
8/15/2006 10:43	10.0	3.7	8.8	70.6	49.1	0.6	0.6
8/15/2006 10:44	10.0	3.7	8.8	71.3	49.6	0.7	0.6
8/15/2006 10:44	10.0	3.7	10.7	72.8	49.2	0.7	0.6
8/15/2006 10:44	10.0	3.7	11.2	73.5	49.2	0.7	0.8
8/15/2006 10:44	10.0	3.7	13.2	72.0	48.5	0.6	0.6
8/15/2006 10:45	10.0	3.7	16.8	71.8	47.8	0.7	0.6
8/15/2006 10:45	10.0	3.7	18.8	72.3	48.0	0.6	0.5
8/15/2006 10:45	10.0	3.7	18.8	72.3	47.5	0.6	0.7
8/15/2006 10:45	10.0	3.7	18.8	73.0	47.8	0.6	0.7
8/15/2006 10:46	10.0	3.7	20.8	74.0	48.0	0.6	0.7
8/15/2006 10:46	10.0	3.7	18.8	74.5	47.4	0.4	0.7

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8/15/2006 10:46	9.9	3.7	16.8	74.7	48.0	0.1	0.7
8/15/2006 10:46	9.9	3.7	14.9	75.2	47.5	0.4	0.5
8/15/2006 10:47	9.9	3.7	14.9	75.9	47.5	0.7	0.7
8/15/2006 10:47	9.9	3.7	12.9	77.6	48.4	0.6	0.7
8/15/2006 10:47	9.9	3.7	10.7	78.1	48.7	0.5	0.7
8/15/2006 10:47	9.8	3.7	10.7	78.6	48.3	0.6	0.5
8/15/2006 10:48	9.7	3.7	10.7	79.8	48.1	0.6	0.6
8/15/2006 10:48	9.7	3.7	11.0	80.1	48.1	0.1	0.7
8/15/2006 10:48	9.6	3.7	11.0	79.8	48.5	0.2	0.7
8/15/2006 10:48	9.6	3.7	11.0	80.6	48.2	0.1	0.7
8/15/2006 10:49	9.6	3.7	24.9	81.1	47.4	0.0	0.5
8/15/2006 10:49	10.2	3.6	44.9	81.6	43.3	-0.1	0.5
8/15/2006 10:49	10.0	3.7	36.9	81.6	46.1	0.2	0.5
8/15/2006 10:49	10.0	3.7	26.9	81.6	46.4	0.7	0.7
8/15/2006 10:50	10.1	3.7	40.8	81.8	43.3	0.4	0.5
8/15/2006 10:50	10.7	3.4	211.0	82.3	37.3	0.2	0.6
8/15/2006 10:50	11.4	3.4	524.7	84.0	31.3	2.8	0.6
8/15/2006 10:50	11.8	3.2	1080.9	99.9	26.8	0.7	1.3
8/15/2006 10:51	11.9	3.2	1538.8	113.5	24.7	0.2	1.5
8/15/2006 10:51	11.7	3.4	1290.9	123.1	24.7	0.1	0.8
8/15/2006 10:51	11.4	3.6	667.1	123.6	25.5	0.4	0.6
8/15/2006 10:51	11.3	3.7	254.9	120.1	26.7	0.7	0.6
8/15/2006 10:52	11.2	3.8	97.4	116.5	27.4	-0.1	0.5
8/15/2006 10:52	11.1	3.8	44.9	108.7	27.9	0.6	0.4
8/15/2006 10:52	11.1	3.8	30.8	102.3	28.3	0.6	0.5
8/15/2006 10:52	11.1	3.8	24.9	99.4	28.3	-0.1	0.4
8/15/2006 10:53	11.2	3.8	23.0	95.7	28.5	-0.1	0.6
8/15/2006 10:53	11.2	3.8	20.8	94.0	28.9	0.6	0.6
8/15/2006 10:53	11.3	3.8	29.1	92.3	29.2	0.6	0.4
8/15/2006 10:53	11.3	3.8	44.9	91.6	29.0	0.0	0.5
8/15/2006 10:54	11.4	3.7	73.0	91.8	29.2	0.5	0.5
8/15/2006 10:54	11.5	3.7	92.8	90.6	29.3	0.6	0.5
8/15/2006 10:54	11.5	3.7	103.0	90.1	29.1	0.1	0.5
8/15/2006 10:54	11.5	3.7	106.9	88.1	29.1	0.2	0.5
8/15/2006 10:55	11.5	3.7	106.9	86.9	29.1	0.9	0.5
8/15/2006 10:55	11.5	3.6	150.9	85.7	29.4	0.0	0.5
8/15/2006 10:55	11.6	3.6	204.9	85.9	28.9	0.9	0.5
8/15/2006 10:55	11.6	3.6	219.0	85.9	29.1	0.0	0.5
8/15/2006 10:56	11.6	3.6	214.9	84.0	29.6	0.7	0.6
8/15/2006 10:56	11.6	3.6	232.9	82.8	28.9	0.2	0.6
8/15/2006 10:56	11.6	3.6	240.8	83.0	28.6	0.6	0.5
8/15/2006 10:56	11.6	3.6	211.0	83.5	28.6	0.6	0.5
8/15/2006 10:57	11.4	3.6	154.8	83.0	28.3	0.1	0.6
8/15/2006 10:57	11.4	3.6	120.9	82.3	28.1	0.9	0.6

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8/15/2006 10:57	11.4	3.6	118.9	82.3	28.1	0.6	0.6
8/15/2006 10:57	11.4	3.6	113.1	83.5	28.1	0.1	0.7
8/15/2006 10:58	11.4	3.7	92.8	84.7	28.1	1.0	0.6
8/15/2006 10:58	11.3	3.7	80.6	84.7	28.0	0.5	0.6
8/15/2006 10:58	11.3	3.7	76.7	84.5	28.0	0.9	0.6
8/15/2006 10:58	11.3	3.7	83.0	85.2	27.8	0.2	0.5
8/15/2006 10:59	11.3	3.7	86.9	86.4	27.9	0.1	0.5
8/15/2006 10:59	11.3	3.7	82.8	87.2	28.0	1.1	0.6
8/15/2006 10:59	11.3	3.7	78.9	86.4	27.9	1.1	0.6
8/15/2006 10:59	11.2	3.7	73.0	86.9	28.1	0.4	0.6
8/15/2006 11:00	11.2	3.7	68.6	87.4	28.3	0.7	0.7
8/15/2006 11:00	11.2	3.7	68.9	88.1	28.1	1.1	0.5
8/15/2006 11:00	11.2	3.7	69.1	88.6	28.0	0.2	0.6
8/15/2006 11:00	11.2	3.7	64.7	89.4	28.2	0.9	0.5
8/15/2006 11:01	11.2	3.7	64.9	89.9	28.3	0.4	0.6
8/15/2006 11:01	11.2	3.7	70.8	89.9	28.3	0.6	0.5
8/15/2006 11:01	11.2	3.7	98.9	91.3	28.6	1.1	0.5
8/15/2006 11:01	11.2	3.7	130.9	92.3	28.6	0.5	0.5
8/15/2006 11:02	11.2	3.7	132.8	93.0	28.7	1.1	0.5
8/15/2006 11:02	11.2	3.7	128.9	93.0	28.7	0.4	0.5
8/15/2006 11:02	11.2	3.7	130.9	92.8	28.7	0.2	0.6
8/15/2006 11:02	11.2	3.7	125.0	93.5	29.2	0.2	0.6
8/15/2006 11:03	11.2	3.7	125.0	94.5	29.2	1.1	0.6
8/15/2006 11:03	11.2	3.7	148.9	96.0	28.9	1.0	0.6
8/15/2006 11:03	11.2	3.7	179.0	96.4	28.6	0.5	0.6
8/15/2006 11:03	11.2	3.7	222.9	96.9	28.3	0.4	0.6
8/15/2006 11:04	11.3	3.7	302.8	96.9	27.9	1.1	0.5
8/15/2006 11:04	11.3	3.7	372.8	97.7	27.8	1.1	0.6
8/15/2006 11:04	11.3	3.7	410.7	98.2	27.5	0.5	0.5
8/15/2006 11:04	11.3	3.7	358.7	99.9	27.3	1.0	0.7
8/15/2006 11:05	11.2	3.7	293.0	101.1	27.5	1.2	0.5
8/15/2006 11:05	11.0	3.8	220.7	102.3	27.5	1.1	0.5
8/15/2006 11:05	10.9	3.8	170.9	103.0	27.6	1.1	0.5
8/15/2006 11:05	10.9	3.8	154.8	104.7	27.7	1.1	0.5
8/15/2006 11:06	10.8	3.8	148.7	106.5	27.7	1.2	0.6
8/15/2006 11:06	10.8	3.9	148.9	108.7	27.6	0.4	0.5
8/15/2006 11:06	10.8	3.9	150.7	111.1	27.7	1.0	0.6
8/15/2006 11:06	10.8	3.9	148.9	113.5	27.7	1.1	0.5
8/15/2006 11:07	10.7	3.9	127.0	115.2	27.9	0.4	0.6
8/15/2006 11:07	10.7	3.9	118.7	116.2	27.9	1.1	0.6
8/15/2006 11:07	10.7	3.9	157.0	118.2	28.1	0.5	0.6
8/15/2006 11:07	10.7	3.9	208.8	120.6	28.3	1.2	0.6
8/15/2006 11:08	10.7	3.9	237.1	121.6	28.2	0.7	0.6
8/15/2006 11:08	10.7	3.9	282.7	122.8	28.5	0.6	0.6

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8/15/2006 11:08	10.7	3.9	366.7	124.0	29.0	1.1	0.6
8/15/2006 11:08	10.7	3.9	440.7	125.7	28.6	1.1	0.6
8/15/2006 11:09	10.7	3.8	462.5	128.2	28.8	0.4	0.6
8/15/2006 11:09	10.7	3.8	440.7	130.4	28.9	1.1	0.6
8/15/2006 11:09	10.7	3.8	416.8	131.1	29.1	1.0	0.6
8/15/2006 11:09	10.7	3.8	428.8	131.1	29.0	0.5	0.6
8/15/2006 11:10	10.7	3.8	436.8	132.1	28.9	0.5	0.6
8/15/2006 11:10	10.5	3.8	424.9	134.5	29.2	0.9	0.6
8/15/2006 11:10	10.5	3.8	414.8	136.5	29.0	0.5	0.6
8/15/2006 11:10	10.5	3.8	396.8	137.5	28.8	0.2	0.6
8/15/2006 11:11	10.5	3.9	330.9	137.5	28.5	0.2	0.6
8/15/2006 11:11	10.4	3.9	262.7	138.2	28.6	1.0	0.5
8/15/2006 11:11	10.4	3.9	246.9	140.4	28.1	0.7	0.5
8/15/2006 11:11	10.4	3.9	234.6	141.6	28.4	1.0	0.6
8/15/2006 11:12	10.3	3.9	226.8	142.1	28.4	0.4	0.6
8/15/2006 11:12	10.3	3.9	222.9	143.3	28.3	0.2	0.5
8/15/2006 11:12	10.2	3.9	219.0	144.5	28.2	0.2	0.7
8/15/2006 11:12	10.2	3.9	216.8	146.3	28.2	0.9	0.5
8/15/2006 11:13	10.2	3.9	208.8	147.0	28.5	1.2	0.5
8/15/2006 11:13	10.2	3.9	229.0	148.7	28.5	0.4	0.6
8/15/2006 11:13	10.2	3.9	296.9	150.4	28.8	0.2	0.5
8/15/2006 11:13	10.2	3.9	348.7	151.6	29.1	0.6	0.5
8/15/2006 11:14	10.2	3.9	378.7	152.4	29.1	1.1	0.5
8/15/2006 11:14	10.2	3.9	406.8	153.3	28.8	0.5	0.6
8/15/2006 11:14	10.2	3.9	418.8	156.0	28.8	1.2	0.5
8/15/2006 11:14	10.2	3.9	399.0	157.0	28.8	0.4	0.5
8/15/2006 11:15	10.1	3.9	394.6	158.2	28.8	1.1	0.6
8/15/2006 11:15	10.1	3.9	390.7	159.9	28.7	0.5	0.6
8/15/2006 11:15	10.1	3.9	382.9	160.9	28.9	0.2	0.5
8/15/2006 11:15	10.1	3.9	390.7	161.6	29.1	1.1	0.5
8/15/2006 11:16	10.1	3.9	386.8	161.9	29.1	0.6	0.5
8/15/2006 11:16	10.1	3.9	380.9	162.9	28.9	0.4	0.5
8/15/2006 11:16	10.1	3.9	370.9	165.3	28.9	0.2	0.6
8/15/2006 11:16	10.0	3.9	355.0	166.5	28.8	0.4	0.5
8/15/2006 11:17	10.0	3.9	350.6	167.7	28.9	0.7	0.5
8/15/2006 11:17	10.0	3.9	356.7	168.2	28.8	1.1	0.5
8/15/2006 11:17	9.9	3.9	350.9	169.5	28.8	0.5	0.5
8/15/2006 11:17	9.9	3.9	333.0	171.7	28.8	0.4	0.5
8/15/2006 11:18	9.9	4.0	308.9	172.9	29.0	0.2	0.6
8/15/2006 11:18	9.9	4.0	318.9	174.1	28.9	0.4	0.5
8/15/2006 11:18	9.9	4.0	366.7	176.5	28.8	1.0	0.6
8/15/2006 11:18	9.9	4.0	478.8	178.7	28.9	1.1	0.6
8/15/2006 11:19	9.9	4.0	552.8	179.2	28.9	0.7	0.6
8/15/2006 11:19	9.9	3.9	577.0	179.2	29.0	0.6	0.6

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8/15/2006 11:19	9.9	3.9	600.7	180.4	28.9	0.6	0.6
8/15/2006 11:19	9.7	3.9	608.7	182.4	28.7	1.1	0.6
8/15/2006 11:20	9.7	3.9	560.6	185.3	28.9	1.1	0.5
8/15/2006 11:20	9.7	3.9	496.9	186.5	28.6	0.9	0.6
8/15/2006 11:20	9.7	3.9	447.1	187.5	28.9	0.4	0.5
8/15/2006 11:20	9.6	3.9	426.8	188.7	28.8	2.4	0.5
8/15/2006 11:21	9.6	3.9	431.0	190.5	28.8	2.2	0.5
8/15/2006 11:21	9.6	3.9	430.5	190.9	28.5	4.5	0.5
8/15/2006 11:21	9.5	4.0	330.9	190.9	28.2	3.5	0.5
8/15/2006 11:21	9.4	4.1	224.9	191.7	28.2	2.7	0.5
8/15/2006 11:22	9.4	4.1	180.7	193.9	28.3	2.6	0.5
8/15/2006 11:22	9.4	4.1	170.7	197.5	28.3	2.3	0.5
8/15/2006 11:22	9.4	4.1	182.6	198.3	28.2	2.2	0.5
8/15/2006 11:22	9.4	4.1	260.8	198.3	28.5	2.3	0.5
8/15/2006 11:23	9.5	4.0	410.7	199.5	28.8	2.0	0.6
8/15/2006 11:23	9.5	4.0	540.8	203.2	28.8	1.5	0.5
8/15/2006 11:23	9.5	4.0	568.9	205.8	29.1	1.3	0.5
8/15/2006 11:23	9.5	4.0	532.8	208.3	29.0	1.2	0.5
8/15/2006 11:24	9.5	4.0	518.9	207.5	29.3	1.2	0.6
8/15/2006 11:24	9.5	4.0	540.8	208.3	29.0	1.8	0.6
8/15/2006 11:24	9.5	4.0	548.7	210.0	29.0	1.2	0.6
8/15/2006 11:24	9.5	4.0	522.8	211.7	29.2	1.5	0.6
8/15/2006 11:25	9.4	4.0	525.0	212.2	29.2	1.2	0.6
8/15/2006 11:25	9.3	4.0	544.7	214.6	29.1	1.1	0.6
8/15/2006 11:25	9.3	4.0	532.8	218.3	28.9	1.7	0.4
8/15/2006 11:25	9.2	4.0	464.7	221.7	28.9	1.6	0.6
8/15/2006 11:26	9.2	4.0	406.8	222.2	28.8	1.1	0.6
8/15/2006 11:26	9.2	4.0	389.0	222.7	29.1	0.9	0.6
8/15/2006 11:26	9.2	4.0	376.8	222.9	29.1	1.6	0.6
8/15/2006 11:26	9.2	4.0	367.0	223.4	29.2	1.3	0.6
8/15/2006 11:27	9.2	4.0	372.8	225.1	29.0	0.9	0.6
8/15/2006 11:27	9.2	4.0	378.7	227.3	29.0	1.2	0.6
8/15/2006 11:27	9.2	4.0	362.8	229.5	29.2	1.6	0.5
8/15/2006 11:27	9.2	4.0	326.9	230.5	29.2	1.0	0.6
8/15/2006 11:28	9.1	4.0	306.9	232.2	29.4	0.7	0.5
8/15/2006 11:28	9.1	4.0	318.6	235.1	29.4	1.6	0.5
8/15/2006 11:28	9.0	4.1	312.8	239.3	29.3	1.6	0.5
8/15/2006 11:28	9.0	4.1	315.0	241.2	29.3	1.6	0.5
8/15/2006 11:29	9.0	4.1	330.9	239.8	29.3	0.7	0.6
8/15/2006 11:29	9.0	4.1	378.7	239.8	29.3	1.6	0.6
8/15/2006 11:29	9.0	4.1	422.9	241.2	29.4	1.7	0.5
8/15/2006 11:29	9.0	4.1	456.8	244.7	29.4	1.2	0.5
8/15/2006 11:30	9.0	4.1	478.8	247.6	29.3	1.1	0.5
8/15/2006 11:30	9.0	4.1	462.7	250.0	29.3	1.6	0.6

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8/15/2006 11:30	9.0	4.1	456.8	251.7	29.4	1.0	0.6
8/15/2006 11:30	8.9	4.1	454.9	253.9	29.5	1.2	0.6
8/15/2006 11:31	8.9	4.1	538.6	256.4	29.2	1.5	0.9
8/15/2006 11:31	8.9	4.1	652.7	256.9	29.1	0.9	0.9
8/15/2006 11:31	8.9	4.1	690.8	257.1	29.2	1.0	0.6
8/15/2006 11:31	8.9	4.0	750.6	259.1	29.2	1.2	0.5
8/15/2006 11:32	8.9	4.0	828.7	262.7	28.9	1.0	0.5
8/15/2006 11:32	8.9	4.0	804.5	266.9	29.2	1.3	0.6
8/15/2006 11:32	8.9	4.0	668.8	268.6	29.4	0.9	0.6
8/15/2006 11:32	8.8	4.0	573.1	270.1	29.4	1.6	0.5
8/15/2006 11:33	8.8	4.0	576.7	270.5	29.3	0.7	0.5
8/15/2006 11:33	8.8	4.0	574.8	271.5	29.5	1.5	0.5
8/15/2006 11:33	8.7	4.1	525.0	272.5	29.6	0.7	0.7
8/15/2006 11:33	8.7	4.1	410.7	275.2	29.6	1.5	0.6
8/15/2006 11:34	8.7	4.1	335.0	276.2	29.2	1.0	0.6
8/15/2006 11:34	8.6	4.1	308.9	276.9	29.1	1.5	0.6
8/15/2006 11:34	8.6	4.2	276.6	277.4	29.1	1.5	0.6
8/15/2006 11:34	8.6	4.2	268.8	280.3	29.2	0.9	0.6
8/15/2006 11:35	8.5	4.2	322.8	284.7	29.3	1.3	0.6
8/15/2006 11:35	8.5	4.2	390.7	287.9	29.5	1.1	0.6
8/15/2006 11:35	8.5	4.2	446.8	289.8	29.5	1.2	0.6
8/15/2006 11:35	8.5	4.2	522.8	291.5	29.6	1.5	0.6
8/15/2006 11:36	8.5	4.1	586.7	292.8	29.8	1.0	0.7
8/15/2006 11:36	8.5	4.1	622.9	293.5	29.8	1.6	0.6
8/15/2006 11:36	8.5	4.1	645.1	295.2	29.6	0.9	0.6
8/15/2006 11:36	8.5	4.1	638.8	298.6	29.6	1.5	0.6
8/15/2006 11:37	8.5	4.1	599.0	301.8	29.9	1.2	0.6
8/15/2006 11:37	8.5	4.1	584.8	302.8	29.9	0.7	0.6
8/15/2006 11:37	8.5	4.1	596.8	302.8	29.9	1.5	0.6
8/15/2006 11:37	8.4	4.1	598.7	303.3	29.6	0.7	0.6
8/15/2006 11:38	8.4	4.1	604.8	306.4	29.6	1.5	0.6
8/15/2006 11:38	8.4	4.1	608.5	309.9	29.4	1.2	0.4
8/15/2006 11:38	8.4	4.1	630.9	312.8	29.4	1.2	0.6
8/15/2006 11:38	8.3	3.8	654.9	312.3	29.1	1.5	0.8
8/15/2006 11:49	8.0	4.2	731.0	284.0	28.8	0.7	0.8
8/15/2006 11:49	7.5	4.3	906.6	362.3	30.1	1.5	0.7
8/15/2006 11:49	7.4	4.3	928.8	386.3	30.7	1.2	0.7
8/15/2006 11:50	7.3	4.3	908.6	397.5	30.7	0.9	0.7
8/15/2006 11:50	7.2	4.4	876.8	403.4	31.1	0.9	0.7
8/15/2006 11:50	7.2	4.4	862.9	409.2	30.9	0.7	0.8
8/15/2006 11:50	7.2	4.4	850.7	428.0	30.9	1.5	0.6
8/15/2006 11:51	7.2	4.4	826.8	433.4	30.9	1.6	0.6
8/15/2006 11:51	7.1	4.4	768.9	434.1	30.9	1.0	0.6
8/15/2006 11:51	7.1	4.4	742.8	433.9	31.2	1.3	0.6

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8/15/2006 11:51	7.1	4.4	720.8	438.0	31.0	1.8	0.6
8/15/2006 11:52	7.0	4.4	690.8	461.7	31.2	1.5	0.7
8/15/2006 11:52	7.0	4.4	699.1	452.7	31.1	1.2	0.7
8/15/2006 11:52	7.0	4.4	706.9	445.1	31.0	1.1	0.7
8/15/2006 11:52	7.0	4.5	682.7	445.1	31.1	1.6	0.7
8/15/2006 11:53	7.0	4.5	656.8	445.9	30.9	1.7	0.7
8/15/2006 11:53	7.0	4.5	668.8	445.6	31.1	1.7	0.7
8/15/2006 11:53	6.9	4.5	726.7	445.1	30.9	1.8	0.6
8/15/2006 11:53	6.9	4.4	918.8	446.3	30.8	1.7	0.7
8/15/2006 11:54	6.9	4.4	1104.9	449.3	30.8	1.1	0.7
8/15/2006 11:54	6.9	4.4	1164.9	455.9	30.9	1.7	0.7
8/15/2006 11:54	6.9	4.4	1216.7	460.8	30.6	1.8	0.7
8/15/2006 11:54	6.9	4.4	1262.9	462.5	30.4	2.0	0.7
8/15/2006 11:55	6.9	4.4	1284.8	461.0	30.5	1.8	0.7
8/15/2006 11:55	6.9	4.4	1248.9	463.9	30.4	1.1	0.7
8/15/2006 11:55	6.9	4.4	1176.9	468.8	30.4	1.0	0.7
8/15/2006 11:55	6.8	4.4	1172.8	471.5	30.5	1.7	0.7
8/15/2006 11:56	6.8	4.4	1188.9	470.5	30.1	2.0	0.7
8/15/2006 11:56	6.8	4.4	1163.0	469.3	30.1	1.0	0.8
8/15/2006 11:56	6.8	4.4	1094.9	470.5	30.1	1.0	0.8
8/15/2006 11:56	6.7	4.4	974.7	473.9	30.0	1.0	0.7
8/15/2006 11:57	6.7	4.5	918.8	480.0	30.0	1.7	0.7
8/15/2006 11:57	6.6	4.5	882.9	484.7	30.1	1.2	0.7
8/15/2006 11:57	6.6	4.5	825.1	484.2	30.0	1.1	0.7
8/15/2006 11:57	6.6	4.5	780.9	479.3	29.9	1.7	0.6
8/15/2006 11:58	6.5	4.5	766.7	476.4	29.9	1.6	0.6
8/15/2006 11:58	6.5	4.5	730.8	480.0	30.0	1.2	0.7
8/15/2006 11:58	6.5	4.5	706.9	485.7	30.2	1.2	0.6
8/15/2006 11:58	6.5	4.5	772.6	491.0	29.7	1.6	0.7
8/15/2006 11:59	6.5	4.5	814.8	495.2	30.2	1.7	0.6
8/15/2006 11:59	6.5	4.5	777.0	499.3	30.7	0.9	0.6
8/15/2006 11:59	6.5	4.5	834.3	500.5	30.9	1.6	0.7
8/15/2006 11:59	6.6	4.5	950.8	498.4	31.0	1.7	0.7
8/15/2006 12:00	6.6	4.5	972.8	498.1	31.0	0.9	0.7
8/15/2006 12:00	6.6	4.5	858.7	499.3	30.9	1.6	0.5
8/15/2006 12:00	6.6	4.5	770.8	498.6	30.7	0.7	0.7
8/15/2006 12:00	6.6	4.5	722.7	495.9	30.4	1.7	0.6
8/15/2006 12:01	6.6	4.5	700.8	494.4	30.3	0.9	0.7
8/15/2006 12:01	6.6	4.4	838.7	494.7	30.0	1.3	0.7
8/15/2006 12:01	6.6	4.3	1037.0	493.5	29.8	0.7	0.7
8/15/2006 12:01	6.6	4.3	1112.9	491.3	29.9	1.7	0.7
8/15/2006 12:02	6.6	4.3	1087.1	489.1	29.7	1.5	0.7
8/15/2006 12:02	6.5	4.3	1053.1	491.8	29.3	0.9	0.7
8/15/2006 12:02	6.5	4.3	996.7	498.1	29.3	1.6	0.6

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8/15/2006 12:02	6.5	4.3	966.9	505.2	29.2	1.0	0.6
8/15/2006 12:03	6.5	4.3	822.9	508.1	29.2	1.0	0.7
8/15/2006 12:03	6.5	4.4	658.8	506.9	29.0	0.9	0.7
8/15/2006 12:03	6.4	4.4	562.8	506.2	29.0	1.3	0.8
8/15/2006 12:03	6.4	4.4	544.7	509.8	28.9	1.5	0.7
8/15/2006 12:04	6.4	4.4	506.7	512.8	28.9	1.3	0.6
8/15/2006 12:04	6.4	4.4	446.8	512.3	29.4	0.9	0.7
8/15/2006 12:04	6.4	4.4	486.6	511.5	28.9	1.2	0.6
8/15/2006 12:04	6.4	4.4	574.8	514.0	29.2	1.5	0.7
8/15/2006 12:05	6.4	4.4	620.9	519.8	29.2	0.7	0.7
8/15/2006 12:05	6.4	4.4	619.2	523.5	29.2	1.3	0.7
8/15/2006 12:05	6.4	4.4	684.7	524.7	29.3	1.5	0.7
8/15/2006 12:05	6.4	4.3	876.8	522.8	29.3	0.9	0.7
8/15/2006 12:06	6.4	4.3	1016.7	519.8	29.6	0.9	0.7
8/15/2006 12:06	6.4	4.3	1066.8	518.1	29.4	1.6	0.7
8/15/2006 12:06	6.4	4.3	1076.8	518.9	29.8	1.5	0.7
8/15/2006 12:06	6.4	4.3	1109.0	521.1	29.7	1.2	0.7
8/15/2006 12:07	6.4	4.3	1116.8	521.5	29.4	0.9	0.7
8/15/2006 12:07	6.4	4.3	1012.8	521.1	29.4	1.6	0.7
8/15/2006 12:07	6.4	4.3	912.7	522.3	29.4	1.2	0.6
8/15/2006 12:07	6.4	4.4	766.7	524.0	29.4	0.7	0.8
8/15/2006 12:08	6.3	4.4	588.7	526.2	29.0	1.1	0.7
8/15/2006 12:08	6.3	4.4	520.3	527.4	28.8	1.3	0.6
8/15/2006 12:08	6.3	4.4	574.8	526.9	28.6	1.5	0.7
8/15/2006 12:08	6.3	4.4	574.8	527.4	28.6	1.3	0.7
8/15/2006 12:09	6.3	4.4	518.9	531.1	28.4	1.3	0.7
8/15/2006 12:09	6.3	4.4	482.7	535.5	28.3	1.2	0.7
8/15/2006 12:09	5.8	4.5	640.7	541.1	28.7	1.8	0.6
8/15/2006 12:09	6.0	4.5	972.8	544.7	29.0	1.6	0.7
8/15/2006 12:10	6.2	4.2	1482.9	546.9	28.5	1.1	0.7
8/15/2006 12:10	6.5	4.2	1641.3	541.8	28.5	6.2	0.7
8/15/2006 12:10	6.5	4.2	1584.9	533.5	28.3	3.3	0.6
8/15/2006 12:10	6.5	4.2	1486.8	529.4	28.1	2.4	0.6
8/15/2006 12:11	6.4	4.2	1256.8	531.1	27.8	2.2	0.5
8/15/2006 12:11	6.4	4.3	962.8	534.7	27.9	1.8	0.6
8/15/2006 12:11	6.4	4.3	838.7	538.9	27.9	1.7	0.7
8/15/2006 12:11	6.4	4.4	654.9	541.1	27.9	1.8	0.6
8/15/2006 12:12	6.2	4.4	444.9	539.1	27.9	1.1	0.7
8/15/2006 12:12	6.2	4.4	326.9	534.0	28.1	1.2	0.6
8/15/2006 12:12	6.2	4.4	288.9	531.1	28.3	1.3	0.7
8/15/2006 12:12	6.4	4.4	432.9	532.0	28.3	1.5	0.6
8/15/2006 12:13	6.4	4.3	662.7	535.2	28.5	1.3	0.6
8/15/2006 12:13	6.4	4.3	750.6	536.9	28.8	1.6	0.6
8/15/2006 12:13	6.4	4.3	743.0	539.4	28.8	1.3	0.6

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8/15/2006 12:13	6.4	4.3	778.9	536.2	28.8	1.0	0.6
8/15/2006 12:14	6.4	4.3	792.8	531.6	28.8	1.1	0.7
8/15/2006 12:14	6.4	4.3	738.6	530.6	28.8	1.6	0.7
8/15/2006 12:14	6.4	4.3	904.9	536.4	28.7	0.9	0.6
8/15/2006 12:14	6.5	4.3	1185.0	539.9	28.7	0.7	0.6
8/15/2006 12:15	6.5	4.3	1260.9	540.6	28.5	1.5	0.7
8/15/2006 12:15	6.4	4.3	1220.9	541.1	28.5	1.6	0.6
8/15/2006 12:15	6.4	4.3	1103.2	545.2	28.4	0.9	0.6
8/15/2006 12:15	6.3	4.3	1033.1	551.1	28.4	1.1	0.7
8/15/2006 12:16	6.3	4.3	940.5	557.0	28.1	1.5	0.7
8/15/2006 12:16	6.3	4.3	840.9	560.6	27.3	1.3	0.6
8/15/2006 12:16	6.3	4.3	822.9	560.4	27.5	1.1	0.6
8/15/2006 12:16	6.3	4.3	878.8	557.4	27.1	0.7	0.7
8/15/2006 12:17	6.3	4.3	849.7	555.2	27.2	1.1	0.7
8/15/2006 12:17	6.3	4.4	650.7	555.2	27.1	1.2	0.7
8/15/2006 12:17	6.2	4.5	426.8	557.4	27.3	1.5	0.6
8/15/2006 12:17	6.2	4.5	344.8	559.9	27.0	1.5	0.7
8/15/2006 12:18	6.2	4.5	376.8	562.1	27.2	1.3	0.6
8/15/2006 12:18	6.2	4.5	532.8	564.5	27.6	0.7	0.7
8/15/2006 12:18	6.3	4.4	648.8	566.7	28.0	1.0	0.6
8/15/2006 12:18	6.3	4.4	718.8	568.4	27.7	1.0	0.6
8/15/2006 12:19	6.3	4.4	860.7	568.7	27.7	0.9	0.7
8/15/2006 12:19	6.3	4.3	1104.6	571.1	27.6	1.7	0.7
8/15/2006 12:19	6.4	4.3	1304.9	573.1	27.6	1.6	0.7
8/15/2006 12:19	6.4	4.3	1378.8	573.6	27.6	1.6	0.7
8/15/2006 12:20	6.4	4.3	1352.7	574.0	27.6	1.6	0.7
8/15/2006 12:20	6.4	4.3	1330.7	576.0	27.3	1.6	0.7
8/15/2006 12:20	6.3	4.4	1096.8	577.0	27.2	1.5	0.7
8/15/2006 12:20	6.2	4.4	872.9	578.7	26.9	1.1	0.7
8/15/2006 12:21	6.2	4.4	827.0	579.9	27.0	0.7	0.7
8/15/2006 12:21	6.2	4.4	810.9	580.9	26.7	0.7	0.7
8/15/2006 12:21	6.2	4.4	780.9	580.9	26.6	1.2	0.7
8/15/2006 12:21	6.3	4.4	808.7	582.8	26.4	1.3	0.7
8/15/2006 12:22	6.3	4.4	882.7	585.8	26.6	1.3	0.7
8/15/2006 12:22	6.4	4.4	912.7	587.0	26.4	1.5	0.7
8/15/2006 12:22	6.3	4.4	808.7	586.3	26.3	1.2	0.8
8/15/2006 12:22	6.3	4.4	724.7	585.8	26.6	1.5	0.8
8/15/2006 12:23	6.3	4.4	686.9	589.4	26.6	1.5	0.8
8/15/2006 12:23	6.3	4.4	640.9	590.4	26.6	1.1	0.8
8/15/2006 12:23	6.3	4.4	612.9	588.7	26.6	0.7	0.7
8/15/2006 12:23	6.3	4.4	629.0	584.3	26.6	0.9	0.7
8/15/2006 12:24	6.3	4.4	606.8	583.3	26.7	1.1	0.7
8/15/2006 12:24	6.3	4.4	542.8	585.0	26.9	1.5	0.8
8/15/2006 12:24	6.3	4.4	543.0	588.5	27.0	0.9	0.8

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8/15/2006 12:24	6.3	4.4	672.7	591.6	27.3	1.3	0.8
8/15/2006 12:25	6.3	4.4	836.8	589.9	27.3	1.5	0.7
8/15/2006 12:25	6.3	4.4	902.9	586.5	27.2	1.6	0.7
8/15/2006 12:25	6.3	4.4	916.9	585.0	27.3	1.1	0.7
8/15/2006 12:25	6.3	4.4	940.8	585.8	27.3	1.0	0.8
8/15/2006 12:26	6.3	4.4	968.9	586.5	27.3	1.3	0.8
8/15/2006 12:26	6.3	4.4	930.8	588.2	27.2	1.0	0.8
8/15/2006 12:26	6.3	4.4	875.1	591.1	27.3	1.0	0.8
8/15/2006 12:26	6.4	4.4	888.8	589.9	27.3	3.3	0.8
8/15/2006 12:27	6.4	4.4	896.8	585.8	27.2	2.1	0.8
8/15/2006 12:27	6.3	4.4	802.8	584.1	27.4	1.7	0.8
8/15/2006 12:27	6.3	4.4	694.7	586.5	27.6	2.0	0.7
8/15/2006 12:27	6.3	4.4	661.0	587.0	27.7	1.2	0.8
8/15/2006 12:28	6.3	4.4	681.0	586.3	27.7	1.1	0.7
8/15/2006 12:28	6.3	4.4	684.9	585.5	27.9	1.0	0.6
8/15/2006 12:28	6.4	4.4	667.1	583.3	27.7	1.1	0.8
8/15/2006 12:28	6.4	4.4	731.0	579.2	27.9	1.1	0.7
8/15/2006 12:29	6.5	4.4	958.9	578.0	27.7	1.2	0.7
8/15/2006 12:29	6.4	4.4	1060.9	582.8	27.6	1.8	0.7
8/15/2006 12:29	6.4	4.4	990.8	590.6	27.7	1.7	0.7
8/15/2006 12:29	6.4	4.4	948.6	595.8	27.7	1.7	0.7
8/15/2006 12:30	6.3	4.4	928.6	596.3	27.7	1.5	0.7
8/15/2006 12:30	6.3	4.4	948.8	593.3	27.4	1.2	0.7
8/15/2006 12:30	6.3	4.4	998.7	589.2	27.6	1.5	0.7
8/15/2006 12:30	6.3	4.4	963.0	587.5	27.4	1.0	0.7
8/15/2006 12:31	6.3	4.4	826.8	588.2	27.4	0.7	0.7
8/15/2006 12:31	6.4	4.4	747.2	589.7	27.2	0.7	0.7
8/15/2006 12:31	6.4	4.4	738.9	592.1	27.1	0.7	0.7
8/15/2006 12:31	6.4	4.4	736.9	594.1	27.1	1.5	0.5
8/15/2006 12:32	6.4	4.4	726.9	591.6	26.9	1.6	0.5
8/15/2006 12:32	6.4	4.4	740.8	587.5	26.8	1.6	0.5
8/15/2006 12:32	6.4	4.4	726.9	587.5	26.9	0.7	0.4
8/15/2006 12:32	6.4	4.4	702.0	588.7	26.9	1.2	0.4
8/15/2006 12:33	6.4	4.4	672.7	586.3	27.6	1.3	0.5
8/15/2006 12:33	6.4	4.4	636.8	584.3	28.1	1.2	0.4
8/15/2006 12:33	6.4	4.4	613.1	585.0	27.9	1.0	0.5
8/15/2006 12:33	6.4	4.4	572.6	585.5	27.8	0.9	0.4
8/15/2006 12:34	6.4	4.4	500.8	585.5	27.8	1.2	0.4
8/15/2006 12:34	6.4	4.4	522.8	588.5	27.8	1.5	0.5
8/15/2006 12:34	6.4	4.4	562.8	593.8	28.0	1.6	0.5
8/15/2006 12:34	6.4	4.4	750.8	598.0	27.9	1.7	0.4
8/15/2006 12:35	6.5	4.3	1208.6	599.2	27.8	1.8	0.5
8/15/2006 12:35	6.5	4.3	1584.9	599.9	27.5	1.5	0.5
8/15/2006 12:35	6.5	4.3	1576.6	604.8	27.7	1.7	0.4

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8/15/2006 12:35	6.3	4.3	1280.9	610.2	27.6	1.6	0.5
8/15/2006 12:36	6.3	4.4	1042.9	614.1	28.0	1.6	0.5
8/15/2006 12:36	6.3	4.4	852.4	612.1	27.7	1.5	0.5
8/15/2006 12:36	6.2	4.5	616.8	607.5	27.5	1.5	0.3
8/15/2006 12:36	6.2	4.5	440.7	605.8	27.8	1.5	0.4
8/15/2006 12:37	6.2	4.5	367.0	608.2	28.1	1.5	0.4
8/15/2006 12:37	6.2	4.5	362.8	608.2	28.2	1.3	0.3
8/15/2006 12:37	6.4	4.5	578.7	604.1	28.7	1.5	0.5
8/15/2006 12:37	6.4	4.4	842.9	600.4	28.7	0.9	0.5
8/15/2006 12:38	6.4	4.4	924.9	604.1	28.8	1.0	0.4
8/15/2006 12:38	6.4	4.4	936.9	610.7	28.8	1.8	0.3
8/15/2006 12:38	6.4	4.4	965.0	612.9	28.5	1.6	0.5
8/15/2006 12:38	6.5	4.4	975.0	612.9	28.7	1.8	0.4
8/15/2006 12:39	6.4	4.4	850.7	612.1	29.0	1.8	0.4
8/15/2006 12:39	6.4	4.4	778.9	612.9	29.0	1.7	0.3
8/15/2006 12:39	6.4	4.4	780.9	611.6	29.0	1.8	0.4
8/15/2006 12:39	6.4	4.4	720.5	611.2	29.3	1.7	0.4
8/15/2006 12:40	6.4	4.4	676.8	612.1	29.4	1.6	0.4
8/15/2006 12:40	6.4	4.4	642.9	612.9	29.4	1.6	0.4
8/15/2006 12:40	6.4	4.4	609.0	611.6	29.6	1.6	0.4
8/15/2006 12:40	6.4	4.4	630.7	611.2	29.2	1.3	0.4
8/15/2006 12:41	6.4	4.4	632.6	612.1	29.2	1.2	0.4
8/15/2006 12:41	6.4	4.4	592.8	613.4	29.5	0.6	0.4
8/15/2006 12:41	6.4	4.4	580.9	613.8	29.3	0.6	0.4
8/15/2006 12:41	6.4	4.5	746.9	614.1	29.3	1.0	0.4
8/15/2006 12:42	6.5	4.3	1296.8	616.0	29.3	1.2	0.4
8/15/2006 12:42	6.5	4.3	1584.9	616.5	29.4	1.3	0.4
8/15/2006 12:42	6.5	4.4	1398.9	617.8	29.0	1.3	0.4
8/15/2006 12:42	6.4	4.5	1007.0	619.9	28.9	1.5	0.4
8/15/2006 12:43	6.4	4.5	640.7	621.7	28.7	1.3	0.4
8/15/2006 12:43	6.4	4.5	456.8	624.1	28.8	1.3	0.4
8/15/2006 12:43	6.4	4.5	357.0	626.3	29.1	1.5	0.4
8/15/2006 12:43	6.4	4.5	346.7	626.8	29.1	1.5	0.4
8/15/2006 12:44	6.4	4.5	602.4	625.8	29.7	1.3	0.4
8/15/2006 12:44	6.4	4.4	986.7	627.5	30.0	1.3	0.5
8/15/2006 12:44	6.5	4.4	1150.5	630.4	30.0	1.5	0.4
8/15/2006 12:44	6.5	4.4	1185.0	632.9	30.1	1.5	0.4
8/15/2006 12:45	6.5	4.4	1159.1	634.1	30.1	1.3	0.3
8/15/2006 12:45	6.5	4.4	1025.0	634.6	29.6	1.2	0.5
8/15/2006 12:45	6.5	4.4	904.9	633.4	29.5	1.0	0.4
8/15/2006 12:45	6.4	4.5	790.9	631.9	29.6	1.3	0.5
8/15/2006 12:46	6.3	4.5	568.7	632.9	29.0	1.2	0.5
8/15/2006 12:46	6.3	4.6	373.1	634.6	29.3	0.6	0.4
8/15/2006 12:46	6.3	4.6	270.8	636.3	29.4	0.9	0.4

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8/15/2006 12:46	6.3	4.6	288.9	638.0	29.7	1.5	0.4
8/15/2006 12:47	6.4	4.5	438.8	640.5	30.7	1.1	0.4
8/15/2006 12:47	6.4	4.5	571.1	642.7	31.0	0.7	0.1
8/15/2006 12:47	6.4	4.5	630.7	643.1	31.0	1.0	0.4
8/15/2006 12:47	6.4	4.5	700.8	642.2	30.4	1.3	0.4
8/15/2006 12:48	6.5	4.5	736.7	641.4	30.7	0.9	0.4
8/15/2006 12:48	6.5	4.5	714.9	641.7	30.6	0.7	0.4
8/15/2006 12:48	6.5	4.5	722.7	640.5	30.7	0.7	0.4
8/15/2006 12:48	6.5	4.5	742.8	640.0	30.6	0.6	0.4
8/15/2006 12:49	6.5	4.5	732.8	644.1	30.9	1.1	0.4
8/15/2006 12:49	6.5	4.5	709.1	648.8	30.9	1.5	0.4
8/15/2006 12:49	6.5	4.5	676.8	652.7	31.1	1.2	0.4
8/15/2006 12:49	6.5	4.5	648.8	654.6	30.9	1.1	0.4
8/15/2006 12:50	6.4	4.5	550.8	657.3	31.4	0.5	0.4
8/15/2006 12:50	6.3	4.5	528.9	663.4	31.1	0.6	0.6
8/15/2006 12:50	6.5	4.3	1138.8	669.5	30.7	1.3	0.5
8/15/2006 12:50	6.6	4.3	1798.6	673.4	30.4	1.3	0.5
8/15/2006 12:51	6.5	4.5	1492.9	674.6	30.1	1.2	0.5
8/15/2006 12:51	6.3	4.6	786.5	673.9	29.5	1.1	0.6
8/15/2006 12:51	6.3	4.6	450.7	674.2	29.5	1.3	0.5
8/15/2006 12:51	6.3	4.6	380.7	674.6	29.5	1.5	0.5
8/15/2006 12:52	6.3	4.6	337.0	674.4	29.9	1.7	0.5
8/15/2006 12:52	6.4	4.6	330.9	672.2	30.3	1.2	0.4
8/15/2006 12:52	6.4	4.5	568.9	672.0	30.2	1.1	0.6
8/15/2006 12:52	6.6	4.4	1057.0	674.6	30.5	1.1	0.5
8/15/2006 12:53	6.6	4.4	1338.8	676.4	30.4	1.0	0.5
8/15/2006 12:53	6.6	4.4	1293.1	678.1	30.1	0.9	0.5
8/15/2006 12:53	6.5	4.5	1020.9	682.2	29.7	1.0	0.6
8/15/2006 12:53	6.4	4.6	640.7	686.4	29.4	1.3	0.6
8/15/2006 12:54	6.4	4.6	392.6	686.9	29.7	1.3	0.5
8/15/2006 12:54	6.4	4.6	298.9	684.4	29.8	0.9	0.5
8/15/2006 12:54	6.3	4.6	288.9	684.7	30.0	0.7	0.5
8/15/2006 12:54	6.4	4.6	456.8	686.4	30.5	1.3	0.5
8/15/2006 12:55	6.6	4.5	790.6	685.1	31.0	1.2	0.5
8/15/2006 12:55	6.6	4.5	1063.1	682.2	31.1	0.7	0.5
8/15/2006 12:55	6.6	4.4	1248.9	680.5	31.1	0.5	0.5
8/15/2006 12:55	6.6	4.4	1139.1	681.0	30.8	0.5	0.5
8/15/2006 12:56	6.5	4.5	827.0	682.7	30.8	0.6	0.5
8/15/2006 12:56	6.5	4.5	642.9	686.9	31.1	0.5	0.5
8/15/2006 12:56	6.5	4.5	595.0	694.4	31.1	0.6	0.5
8/15/2006 12:56	6.5	4.5	546.9	699.3	31.5	0.5	0.5
8/15/2006 12:57	6.5	4.5	525.0	699.1	31.4	1.2	0.5
8/15/2006 12:57	6.5	4.6	484.9	696.4	31.7	1.2	0.5
8/15/2006 12:57	6.5	4.6	432.7	693.4	31.7	1.2	0.5

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8/15/2006 12:57	6.5	4.6	402.9	690.5	31.7	1.2	0.5
8/15/2006 12:58	6.5	4.6	382.9	689.3	31.9	0.6	0.5
8/15/2006 12:58	6.5	4.6	382.6	692.7	31.8	0.6	0.5
8/15/2006 12:58	6.5	4.6	406.8	699.3	31.6	1.2	0.5
8/15/2006 12:58	6.5	4.6	398.7	701.7	31.8	1.3	0.5
8/15/2006 12:59	6.5	4.6	473.0	698.6	31.9	0.5	0.5
8/15/2006 12:59	6.5	4.6	554.8	696.9	32.0	0.5	0.5
8/15/2006 12:59	6.5	4.6	574.8	697.6	31.9	1.2	0.5
8/15/2006 12:59	6.5	4.6	548.9	700.0	31.7	1.3	0.5
8/15/2006 13:00	6.5	4.6	555.0	703.9	32.0	1.3	0.5
8/15/2006 13:00	6.5	4.6	530.8	706.9	32.0	1.7	0.5
8/15/2006 13:00	6.5	4.6	513.0	704.9	32.1	0.7	0.5
8/15/2006 13:00	6.5	4.6	566.7	700.5	31.4	1.6	0.6
8/15/2006 13:01	6.5	4.6	620.7	701.0	31.5	1.1	0.6
8/15/2006 13:01	6.5	4.6	644.9	706.9	31.5	1.2	0.6
8/15/2006 13:01	6.5	4.6	660.5	712.7	31.4	0.9	0.6
8/15/2006 13:01	6.5	4.6	676.8	714.9	31.4	0.7	0.6
8/15/2006 13:02	6.5	4.6	666.8	716.9	31.3	1.3	0.6
8/15/2006 13:02	6.5	4.6	743.0	719.1	30.8	0.9	0.6
8/15/2006 13:02	6.5	4.6	730.8	720.3	31.1	1.3	0.6
8/15/2006 13:02	6.5	4.6	704.4	718.8	31.2	1.0	0.6
8/15/2006 13:03	6.5	4.6	718.8	716.4	31.2	0.7	0.6
8/15/2006 13:03	6.5	4.6	616.8	716.4	31.4	1.1	0.6
8/15/2006 13:03	6.5	4.6	448.8	715.7	31.4	1.1	0.6
8/15/2006 13:03	6.5	4.6	344.8	714.4	31.5	1.0	0.6
8/15/2006 13:04	6.5	4.6	316.9	716.9	31.8	0.6	0.5
8/15/2006 13:04	6.5	4.6	316.7	720.1	31.8	1.0	0.7
8/15/2006 13:04	6.5	4.6	310.8	724.0	31.9	1.1	0.7
8/15/2006 13:04	6.5	4.6	348.7	724.0	32.1	1.3	0.6
8/15/2006 13:05	6.5	4.6	429.0	722.7	31.9	0.5	0.6
8/15/2006 13:05	6.6	4.6	538.9	725.7	31.6	0.6	0.6
8/15/2006 13:05	6.6	4.6	587.0	729.8	31.5	1.3	0.5
8/15/2006 13:05	6.6	4.5	578.9	731.0	31.5	1.3	0.5
8/15/2006 13:06	8.0	4.2	488.8	551.1	36.7	1.5	0.6
8/15/2006 13:06	8.8	4.2	247.1	379.7	45.7	0.9	0.6
8/15/2006 13:06	8.9	4.2	78.9	326.5	47.4	0.5	0.7
8/15/2006 13:06	8.9	4.2	33.0	309.9	47.4	0.5	0.8
8/15/2006 13:07	8.7	4.3	18.8	305.5	48.7	0.2	0.8
8/15/2006 13:07	8.7	4.3	11.0	300.3	48.7	0.1	0.8
8/15/2006 13:07	8.5	4.3	7.1	295.7	49.2	0.2	0.7
8/15/2006 13:07	8.5	4.3	4.9	295.0	48.8	0.2	0.7
8/15/2006 13:08	8.7	4.3	2.9	294.0	49.8	0.9	0.7
8/15/2006 13:08	8.7	4.3	3.2	295.7	49.6	0.9	0.7
8/15/2006 13:08	8.7	4.3	0.7	292.0	49.6	1.2	0.6

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8/15/2006 13:08	8.6	4.3	0.7	291.5	50.1	1.2	0.7
8/15/2006 13:09	8.6	4.3	0.7	291.5	49.5	0.7	0.6
8/15/2006 13:09	8.6	4.3	1.0	288.6	49.8	0.6	0.7
8/15/2006 13:09	8.7	4.3	0.7	288.1	49.5	1.1	0.7
8/15/2006 13:09	8.8	4.2	1.0	287.4	49.4	0.4	0.7
8/15/2006 13:10	8.8	4.1	4.9	287.9	48.4	0.9	0.7
8/15/2006 13:10	9.0	4.0	8.8	289.8	47.2	0.7	0.7
8/15/2006 13:10	9.0	4.0	11.0	291.1	47.5	0.4	0.7
8/15/2006 13:10	9.1	4.0	14.9	292.8	46.3	0.2	0.7
8/15/2006 13:11	9.1	4.0	20.8	295.2	45.8	0.6	0.7
8/15/2006 13:11	9.2	3.9	27.1	296.2	44.9	0.7	0.7
8/15/2006 13:11	9.2	3.9	31.0	295.0	45.0	0.1	0.6
8/15/2006 13:11	9.2	3.9	30.8	294.0	44.9	0.9	0.6
8/15/2006 13:12	9.2	3.9	30.8	292.8	44.7	0.7	0.5
8/15/2006 13:12	9.2	3.9	29.1	292.8	44.6	0.1	0.7
8/15/2006 13:12	9.2	3.9	24.9	292.8	44.6	0.7	0.5
8/15/2006 13:12	9.1	3.9	24.9	294.0	45.0	0.0	0.5
8/15/2006 13:13	9.1	4.0	18.8	294.5	45.3	0.6	0.6
8/15/2006 13:13	9.1	4.0	12.9	295.7	45.2	1.2	0.6
8/15/2006 13:13	9.1	4.0	10.7	296.7	45.9	1.0	0.6
8/15/2006 13:13	9.1	4.0	10.7	296.7	45.7	1.0	0.6
8/15/2006 13:14	9.1	4.0	9.0	294.0	46.3	0.2	0.6
8/15/2006 13:14	9.1	4.0	4.9	290.3	46.8	0.1	0.6
8/15/2006 13:14	9.0	4.1	4.9	290.6	47.9	0.1	0.6
8/15/2006 13:14	9.0	4.1	2.9	292.5	47.7	0.5	0.5
8/15/2006 13:15	9.0	4.1	2.9	293.2	47.0	0.2	0.6
8/15/2006 13:15	9.1	4.1	2.9	292.3	46.9	0.9	0.6
8/15/2006 13:15	9.1	4.1	2.9	291.5	47.3	0.6	0.5
8/15/2006 13:15	9.1	4.1	0.7	291.5	47.4	1.0	0.5
8/15/2006 13:16	9.1	4.1	2.7	293.2	47.6	0.9	0.5
8/15/2006 13:16	9.1	4.0	4.9	296.2	47.8	0.9	0.5
8/15/2006 13:16	9.2	4.0	6.8	296.9	46.8	0.9	0.6
8/15/2006 13:16	9.2	4.0	8.8	295.2	46.2	0.7	0.6
8/15/2006 13:17	9.2	3.8	11.0	293.7	46.2	0.1	0.6
8/15/2006 13:17	9.3	3.8	12.9	295.0	45.7	0.1	0.6
8/15/2006 13:17	9.2	3.8	12.7	296.9	45.9	0.7	0.6
8/15/2006 13:17	9.2	3.8	12.7	297.9	46.2	0.9	0.6
8/15/2006 13:18	9.2	3.8	14.9	299.1	45.7	0.5	0.6
8/15/2006 13:18	9.2	3.8	14.9	298.6	45.3	0.1	0.6
8/15/2006 13:18	9.2	3.8	12.9	297.6	45.4	0.0	0.6
8/15/2006 13:18	9.2	3.8	12.9	296.7	45.9	0.2	0.6
8/15/2006 13:19	9.2	3.8	12.7	295.7	45.9	0.2	0.6
8/15/2006 13:19	9.3	3.8	12.7	294.5	45.3	0.7	0.6
8/15/2006 13:19	9.4	3.8	11.0	293.2	45.6	0.9	0.6

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8/15/2006 13:19	9.3	3.8	12.9	295.0	45.7	0.9	0.6
8/15/2006 13:20	9.3	3.8	12.7	296.9	45.5	0.9	0.6
8/15/2006 13:20	9.3	3.8	12.7	296.9	45.8	0.6	0.6
8/15/2006 13:20	9.3	3.8	10.7	295.0	46.1	0.6	0.6
8/15/2006 13:20	9.3	3.8	12.9	295.0	45.4	0.2	0.6
8/15/2006 13:21	9.3	3.8	10.7	295.0	46.0	0.5	0.6
8/15/2006 13:21	9.4	3.8	10.7	295.7	45.4	0.1	0.6
8/15/2006 13:21	9.3	3.8	11.0	298.6	46.4	0.0	0.6
8/15/2006 13:21	9.3	3.8	11.0	301.6	47.0	0.6	0.6
8/15/2006 13:22	9.3	3.8	8.8	300.3	46.2	0.2	0.6
8/15/2006 13:22	9.3	3.8	9.0	297.4	46.1	0.1	0.6
8/15/2006 13:22	9.2	3.8	8.8	298.1	46.5	0.7	0.6
8/15/2006 13:22	9.3	3.8	8.8	299.8	46.3	0.7	0.6
8/15/2006 13:23	9.3	3.8	8.8	301.1	45.9	0.9	0.6
8/15/2006 13:23	9.3	3.8	8.8	300.3	46.0	0.7	0.6
8/15/2006 13:23	9.3	3.8	8.8	301.1	45.7	0.7	0.6
8/15/2006 13:23	9.3	3.8	8.8	301.6	46.0	0.7	0.6
8/15/2006 13:24	9.3	3.8	8.8	301.6	45.9	0.7	0.6
8/15/2006 13:24	9.4	3.8	8.8	299.8	45.7	0.7	0.6
8/15/2006 13:24	9.4	3.8	7.1	297.4	45.7	0.7	0.6
8/15/2006 13:24	9.4	3.8	9.0	297.2	46.1	0.5	0.6
8/15/2006 13:25	9.3	3.8	8.8	301.8	46.3	0.0	0.6
8/15/2006 13:25	9.4	3.8	6.8	304.0	46.2	0.2	0.5
8/15/2006 13:25	9.4	3.8	6.8	302.8	47.9	-0.1	0.5
8/15/2006 13:25	9.4	3.8	6.8	300.8	47.5	0.2	0.5
8/15/2006 13:26	9.4	3.8	6.8	301.6	46.4	0.7	0.5
8/15/2006 13:26	9.4	3.8	6.8	302.8	46.0	0.7	0.6
8/15/2006 13:26	9.4	3.8	8.8	303.5	44.8	0.6	0.6
8/15/2006 13:26	9.4	3.8	10.7	303.5	44.8	0.6	0.5
8/15/2006 13:27	9.5	3.8	11.0	301.6	44.5	0.7	0.5
8/15/2006 13:27	9.5	3.8	10.7	299.8	44.0	0.7	0.5
8/15/2006 13:27	9.5	3.8	10.7	300.3	44.0	0.7	0.5
8/15/2006 13:27	9.5	3.8	10.7	303.3	44.4	0.6	0.5
8/15/2006 13:28	9.5	3.8	8.8	305.7	44.1	0.4	0.5
8/15/2006 13:28	9.5	3.8	9.0	306.2	44.3	0.2	0.5
8/15/2006 13:28	9.5	3.8	9.0	304.5	44.0	0.2	0.5
8/15/2006 13:28	9.6	3.8	8.8	301.8	44.2	0.9	0.5
8/15/2006 13:29	9.5	3.8	8.8	300.3	44.4	0.7	0.4
8/15/2006 13:29	9.5	3.8	8.8	300.3	44.2	0.4	0.4
8/15/2006 13:29	9.5	3.8	8.8	301.6	44.2	0.0	0.5
8/15/2006 13:29	9.5	3.8	9.0	302.3	44.0	0.0	0.4
8/15/2006 13:30	9.5	3.8	8.8	303.5	44.1	0.4	0.4
8/15/2006 13:30	9.5	3.8	9.0	305.2	44.1	-0.1	0.4
8/15/2006 13:30	9.8	3.7	10.7	305.9	42.9	0.7	0.4

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8/15/2006 13:30	9.8	3.7	12.7	304.5	42.3	0.6	0.4
8/15/2006 13:31	9.8	3.7	14.9	303.3	42.1	-0.1	0.5
8/15/2006 13:31	9.8	3.7	12.9	304.0	42.0	0.0	0.5
8/15/2006 13:31	9.8	3.7	12.9	304.0	41.9	0.4	0.4
8/15/2006 13:31	9.6	3.7	12.7	305.5	42.9	0.5	0.4
8/15/2006 13:32	9.7	3.7	12.7	305.9	42.4	0.6	0.5
8/15/2006 13:32	9.8	3.7	11.0	301.6	41.9	0.6	0.5
8/15/2006 13:32	9.8	3.7	11.0	295.2	42.3	0.6	0.5
8/15/2006 13:32	9.8	3.7	10.7	291.5	42.0	0.6	0.3
8/15/2006 13:33	9.8	3.7	10.7	293.2	42.6	0.7	0.5
8/15/2006 13:33	9.8	3.7	10.7	296.2	41.9	0.5	0.5
8/15/2006 13:33	9.8	3.7	11.0	299.6	42.5	-0.1	0.5
8/15/2006 13:33	9.8	3.7	11.0	302.0	42.6	-0.1	0.5
8/15/2006 13:34	9.8	3.7	11.0	303.3	42.2	-0.1	0.5
8/15/2006 13:34	9.7	3.7	10.7	304.0	42.6	0.1	0.5
8/15/2006 13:34	9.7	3.7	8.8	305.2	42.6	0.6	0.5
8/15/2006 13:34	9.6	3.7	6.8	305.7	43.0	-0.1	0.5
8/15/2006 13:35	9.6	3.7	6.8	308.1	43.2	0.1	0.4
8/15/2006 13:35	9.7	3.7	6.8	310.6	42.5	0.5	0.5
8/15/2006 13:35	9.7	3.7	6.8	307.7	42.2	0.4	0.3
8/15/2006 13:35	9.7	3.7	6.8	302.3	42.2	0.6	0.4
8/15/2006 13:36	9.8	3.7	4.6	298.6	42.4	0.5	0.4
8/15/2006 13:36	9.7	3.7	4.9	299.4	42.9	0.2	0.4
8/15/2006 13:36	9.7	3.7	4.6	301.6	42.0	-0.2	0.4
8/15/2006 13:36	9.7	3.7	4.9	303.5	42.7	-0.2	0.5
8/15/2006 13:37	9.7	3.7	4.9	306.4	43.0	0.6	0.4
8/15/2006 13:37	9.7	3.7	2.7	307.7	42.6	0.5	0.4
8/15/2006 13:37	9.7	3.7	2.9	309.4	42.7	-0.1	0.4
8/15/2006 13:37	9.7	3.7	4.9	309.9	42.8	0.0	0.4
8/15/2006 13:38	9.7	3.7	2.9	310.6	42.9	0.1	0.5
8/15/2006 13:38	9.7	3.8	2.9	310.3	42.8	0.5	0.5
8/15/2006 13:38	9.6	3.8	4.9	312.3	42.8	0.5	0.4
8/15/2006 13:38	9.7	3.8	4.6	314.0	42.1	0.4	0.4
8/15/2006 13:39	9.7	3.8	4.9	316.4	42.8	-0.2	0.5
8/15/2006 13:39	9.7	3.7	4.9	317.7	42.2	0.0	0.5
8/15/2006 13:39	9.9	3.7	9.0	315.0	40.6	-0.2	0.5
8/15/2006 13:39	9.9	3.7	11.0	309.9	40.5	-0.2	0.5
8/15/2006 13:40	9.9	3.7	11.0	307.9	40.2	-0.1	0.5
8/15/2006 13:40	9.9	3.7	12.9	311.6	40.4	-0.2	0.5
8/15/2006 13:40	9.9	3.7	12.9	315.0	40.2	-0.2	0.5
8/15/2006 13:40	9.9	3.7	12.9	315.7	40.1	-0.2	0.5
8/15/2006 13:41	9.9	3.7	11.0	315.2	39.8	-0.4	0.5
8/15/2006 13:41	10.1	3.7	12.9	315.0	39.7	-0.1	0.5
8/15/2006 13:41	10.1	3.7	12.9	315.7	39.9	-0.4	0.5

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8/15/2006 13:41	10.0	3.7	12.9	316.9	39.5	0.1	0.5
8/15/2006 13:42	10.0	3.7	12.9	317.9	40.5	-0.2	0.5
8/15/2006 13:42	10.0	3.7	12.9	318.2	40.1	-0.2	0.5
8/15/2006 13:42	10.0	3.7	12.9	315.5	39.7	0.5	0.5
8/15/2006 13:42	10.0	3.7	12.9	314.5	40.2	0.4	0.5
8/15/2006 13:43	10.0	3.7	12.9	314.7	39.6	-0.1	0.5
8/15/2006 13:43	10.0	3.7	12.9	317.4	39.5	-0.2	0.5
8/15/2006 13:43	10.0	3.7	12.9	319.4	39.8	-0.2	0.5
8/15/2006 13:43	10.0	3.7	12.9	319.9	40.2	-0.1	0.6
8/15/2006 13:44	10.0	3.7	11.0	321.6	40.5	-0.2	0.6
8/15/2006 13:44	10.0	3.7	8.8	323.3	40.6	0.1	0.6
8/15/2006 13:44	10.0	3.7	8.8	324.5	40.1	0.2	0.5
8/15/2006 13:44	10.0	3.7	8.8	324.0	40.0	0.6	0.6
8/15/2006 13:45	10.0	3.7	8.8	322.1	39.9	0.5	0.6
8/15/2006 13:45	9.9	3.7	6.8	322.3	40.6	0.0	0.5
8/15/2006 13:45	9.9	3.7	6.8	324.0	41.0	0.4	0.5
8/15/2006 13:45	9.9	3.7	6.8	326.5	40.7	-0.2	0.5
8/15/2006 13:46	9.9	3.7	7.1	327.4	41.1	0.0	0.6
8/15/2006 13:46	9.9	3.7	6.8	326.2	41.1	-0.2	0.6
8/15/2006 13:46	9.9	3.7	4.9	325.7	41.2	-0.2	0.5
8/15/2006 13:46	9.9	3.7	4.9	327.2	40.9	0.4	0.4
8/15/2006 13:47	10.2	3.7	4.9	325.5	40.4	0.0	0.5
8/15/2006 13:47	10.0	3.7	4.9	322.1	40.7	0.5	0.6
8/15/2006 13:47	9.9	3.7	4.9	321.8	40.9	0.4	0.6
8/15/2006 13:47	9.9	3.7	4.9	324.0	41.1	0.4	0.6
8/15/2006 13:48	9.9	3.7	4.9	326.9	41.2	0.4	0.5
8/15/2006 13:48	9.9	3.7	4.9	328.4	40.9	-0.4	0.5
8/15/2006 13:48	9.9	3.7	4.9	330.9	41.5	-0.2	0.6
8/15/2006 13:48	9.9	3.7	2.9	333.3	41.0	-0.2	0.5
8/15/2006 13:49	9.9	3.7	4.9	335.7	40.8	-0.2	0.6
8/15/2006 13:49	9.9	3.7	4.9	338.4	40.8	0.0	0.6
8/15/2006 13:49	9.9	3.7	2.9	337.4	41.1	0.5	0.5
8/15/2006 13:49	9.9	3.7	2.9	331.8	40.7	0.2	0.5
8/15/2006 13:50	10.1	3.7	2.9	323.8	39.9	-0.2	0.5
8/15/2006 13:50	10.1	3.7	2.9	321.6	40.5	0.0	0.5
8/15/2006 13:50	10.0	3.7	2.7	324.5	40.2	0.1	0.5
8/15/2006 13:50	10.1	3.7	2.9	326.9	40.1	0.4	0.5
8/15/2006 13:51	10.0	3.7	4.9	329.1	39.9	0.5	0.5
8/15/2006 13:51	10.1	3.7	4.6	331.1	39.6	0.2	0.5
8/15/2006 13:51	10.1	3.7	4.6	333.3	40.2	0.2	0.5
8/15/2006 13:51	10.1	3.7	4.6	335.2	39.9	0.1	0.5
8/15/2006 13:52	10.2	3.6	9.0	337.0	37.7	-0.1	0.6
8/15/2006 13:52	10.4	3.6	12.9	339.4	36.9	0.0	0.6
8/15/2006 13:52	10.4	3.6	14.9	339.4	37.5	0.4	0.6

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8/15/2006 13:52	10.2	3.6	16.8	338.2	37.2	0.4	0.6
8/15/2006 13:53	10.3	3.6	18.8	337.4	37.2	-0.4	0.5
8/15/2006 13:53	10.3	3.6	16.8	339.4	37.0	-0.2	0.6
8/15/2006 13:53	10.3	3.6	18.8	339.9	37.2	0.4	0.5
8/15/2006 13:53	10.3	3.6	21.0	338.7	36.7	-0.4	0.5
8/15/2006 13:54	10.3	3.6	20.8	338.2	36.9	-0.2	0.5
8/15/2006 13:54	10.3	3.6	20.8	339.6	36.6	0.0	0.6
8/15/2006 13:54	10.3	3.6	18.8	343.3	37.3	0.5	0.6
8/15/2006 13:54	10.3	3.6	14.9	345.7	37.7	0.5	0.6
8/15/2006 13:55	10.2	3.6	12.7	347.9	38.5	0.2	0.6
8/15/2006 13:55	10.2	3.6	11.0	347.9	38.0	-0.1	0.5
8/15/2006 13:55	10.3	3.6	11.0	348.4	39.3	-0.4	0.5
8/15/2006 13:55	10.2	3.7	8.8	350.6	39.6	0.2	0.5
8/15/2006 13:56	10.1	3.7	6.8	354.8	40.7	-0.2	0.5
8/15/2006 13:56	10.1	3.7	4.9	357.5	40.8	-0.4	0.5
8/15/2006 13:56	10.1	3.7	4.9	357.0	40.4	-0.4	0.6
8/15/2006 13:56	10.1	3.7	4.9	354.0	40.1	-0.4	0.6
8/15/2006 13:57	10.3	3.7	2.9	352.3	40.4	-0.2	0.6
8/15/2006 13:57	10.4	3.7	2.9	349.9	39.6	-0.4	0.6
8/15/2006 13:57	10.3	3.7	2.7	347.5	40.3	0.0	0.6
8/15/2006 13:57	10.3	3.7	2.9	345.5	40.5	-0.4	0.6
8/15/2006 13:58	10.4	3.7	1.0	346.2	40.4	0.0	0.5
8/15/2006 13:58	10.4	3.7	0.7	347.0	40.9	0.2	0.6
8/15/2006 13:58	10.3	3.7	1.0	349.4	40.4	0.5	0.5
8/15/2006 13:58	10.4	3.7	1.0	349.7	40.2	-0.1	0.6
8/15/2006 13:59	10.4	3.7	1.0	349.9	40.7	-0.2	0.6
8/15/2006 13:59	10.3	3.7	1.0	348.2	40.7	-0.4	0.6
8/15/2006 13:59	10.4	3.7	1.0	346.7	39.8	-0.4	0.5
8/15/2006 13:59	10.4	3.7	0.7	345.3	39.8	0.4	0.7
8/15/2006 14:00	10.4	3.7	0.7	344.5	39.9	0.0	0.5
8/15/2006 14:00	10.5	3.7	0.7	344.0	39.5	0.1	0.5
8/15/2006 14:00	10.4	3.7	2.7	342.8	39.4	0.5	0.7
8/15/2006 14:00	10.5	3.6	4.9	341.8	37.5	-0.4	0.7
8/15/2006 14:01	10.6	3.6	6.8	342.3	37.3	0.2	0.7
8/15/2006 14:01	10.6	3.6	9.0	342.3	37.0	0.4	0.6
8/15/2006 14:01	10.5	3.6	8.8	343.5	37.5	0.2	0.7
8/15/2006 14:01	10.5	3.6	8.8	344.0	37.2	0.1	0.5
8/15/2006 14:02	10.5	3.6	11.0	343.3	37.4	-0.4	0.7
8/15/2006 14:02	10.6	3.5	14.7	344.5	35.5	0.1	0.5
8/15/2006 14:02	10.7	3.5	19.0	347.5	35.3	0.2	0.6
8/15/2006 14:02	10.7	3.5	20.8	352.3	34.6	0.4	0.6
8/15/2006 14:03	10.7	3.5	23.0	354.5	34.6	-0.4	0.6
8/15/2006 14:03	10.8	3.5	26.9	355.3	34.2	-0.5	0.7
8/15/2006 14:03	10.8	3.5	28.8	355.8	34.5	0.2	0.6

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8/15/2006 14:03	10.8	3.5	28.8	357.5	34.5	0.4	0.6
8/15/2006 14:04	10.7	3.5	24.9	359.9	35.1	0.4	0.6
8/15/2006 14:04	10.7	3.5	21.0	361.6	35.0	0.1	0.6
8/15/2006 14:04	10.7	3.5	16.8	360.9	35.7	-0.1	0.7
8/15/2006 14:04	10.6	3.5	12.9	359.2	35.9	-0.2	0.5
8/15/2006 14:05	10.7	3.5	12.9	359.7	35.9	-0.4	0.6
8/15/2006 14:05	10.6	3.6	10.7	360.2	36.8	0.1	0.6
8/15/2006 14:05	10.6	3.6	8.8	358.7	37.4	0.0	0.6
8/15/2006 14:05	10.5	3.7	6.8	356.0	38.3	0.5	0.6
8/15/2006 14:06	10.5	3.7	4.6	351.6	38.7	0.2	0.6
8/15/2006 14:06	10.5	3.7	2.9	347.5	38.8	-0.5	0.6
8/15/2006 14:06	10.6	3.7	1.0	346.0	38.9	0.2	0.6
8/15/2006 14:06	10.6	3.7	0.7	347.5	38.9	0.4	0.6
8/15/2006 14:07	10.6	3.7	1.0	350.9	39.3	-0.2	0.6
8/15/2006 14:07	10.5	3.7	1.2	356.2	39.4	-0.2	0.6
8/15/2006 14:07	10.5	3.7	0.7	359.7	39.3	0.1	0.6
8/15/2006 14:07	10.5	3.7	0.7	360.4	39.3	0.4	0.6
8/15/2006 14:08	10.5	3.7	0.7	359.9	39.6	0.4	0.6
8/15/2006 14:08	10.5	3.7	0.7	360.4	39.6	0.2	0.6
8/15/2006 14:08	10.6	3.7	0.7	361.6	39.8	0.2	0.6
8/15/2006 14:08	10.7	3.7	0.7	362.8	39.1	0.1	0.6
8/15/2006 14:09	10.7	3.7	-1.0	362.6	39.6	-0.5	0.6
8/15/2006 14:09	10.7	3.7	1.0	361.4	39.3	-0.4	0.6
8/15/2006 14:09	10.7	3.7	0.7	358.7	39.1	-0.4	0.6
8/15/2006 14:09	10.7	3.7	1.0	358.7	38.8	-0.4	0.6
8/15/2006 14:10	10.7	3.7	2.9	361.6	38.1	0.0	0.6
8/15/2006 14:10	10.7	3.6	2.7	365.0	37.4	0.1	0.6
8/15/2006 14:10	10.8	3.6	7.1	369.2	36.3	-0.5	0.6
8/15/2006 14:10	10.9	3.5	9.0	369.9	35.7	-0.1	0.6
8/15/2006 14:11	10.9	3.5	10.7	368.7	35.6	0.1	0.6
8/15/2006 14:11	10.8	3.5	11.0	367.7	35.8	-0.2	0.6
8/15/2006 14:11	10.8	3.5	12.9	368.5	36.1	0.2	0.6
8/15/2006 14:11	10.9	3.5	12.9	369.9	36.0	-0.4	0.6
8/15/2006 14:12	10.9	3.5	11.0	369.4	36.0	0.2	0.5
8/15/2006 14:12	10.9	3.5	12.9	368.7	36.1	0.2	0.5
8/15/2006 14:12	10.9	3.5	12.9	366.7	35.8	-0.2	0.7
8/15/2006 14:12	11.0	3.5	12.9	364.5	35.7	0.1	0.6
8/15/2006 14:13	11.0	3.5	12.9	361.6	35.3	0.1	0.7
8/15/2006 14:13	11.0	3.5	12.9	359.2	35.4	-0.5	0.7
8/15/2006 14:13	11.0	3.5	13.2	358.2	35.8	-0.4	0.7
8/15/2006 14:13	11.0	3.5	10.7	358.7	35.5	0.4	0.5
8/15/2006 14:14	11.0	3.5	12.9	359.2	35.2	0.0	0.5
8/15/2006 14:14	10.9	3.5	11.0	360.4	36.2	-0.4	0.6
8/15/2006 14:14	10.9	3.5	9.0	361.1	36.3	-0.2	0.4

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8/15/2006 14:14	10.9	3.5	8.8	361.4	35.9	0.1	0.5
8/15/2006 14:15	10.9	3.5	8.8	362.8	36.1	0.4	0.6
8/15/2006 14:15	10.9	3.6	6.8	364.5	36.6	0.2	0.6
8/15/2006 14:15	10.8	3.6	6.8	367.5	36.9	-0.5	0.6
8/15/2006 14:15	10.9	3.6	4.9	366.7	36.8	-0.2	0.6
8/15/2006 14:16	10.9	3.6	4.9	366.3	37.4	-0.1	0.6
8/15/2006 14:16	10.9	3.6	2.9	365.5	37.2	0.1	0.6
8/15/2006 14:16	10.9	3.6	2.7	365.3	37.7	0.1	0.6
8/15/2006 14:16	10.9	3.6	2.7	364.3	37.2	-0.1	0.6
8/15/2006 14:17	11.0	3.6	2.9	366.3	37.0	-0.5	0.6
8/15/2006 14:17	11.0	3.6	2.9	367.0	37.2	-0.5	0.6
8/15/2006 14:17	11.0	3.6	2.7	366.5	37.5	0.2	0.6
8/15/2006 14:17	11.0	3.6	2.7	366.5	36.6	0.2	0.6
8/15/2006 14:18	11.1	3.6	2.9	367.0	36.8	0.1	0.6
8/15/2006 14:18	11.0	3.6	2.9	367.0	37.2	-0.4	0.6
8/15/2006 14:18	11.0	3.6	2.9	367.7	37.5	0.0	0.6
8/15/2006 14:18	11.0	3.6	2.7	369.2	37.1	0.4	0.7
8/15/2006 14:19	11.0	3.6	2.7	370.2	37.1	0.4	0.6
8/15/2006 14:19	11.0	3.6	2.7	374.1	37.4	0.2	0.6
8/15/2006 14:19	10.9	3.6	2.9	376.5	37.3	0.0	0.6
8/15/2006 14:19	10.9	3.6	2.9	377.2	37.7	-0.4	0.6
8/15/2006 14:20	11.1	3.6	2.9	373.8	37.4	-0.4	0.6
8/15/2006 14:20	11.1	3.6	1.0	369.2	37.6	-0.5	0.6
8/15/2006 14:20	11.1	3.6	0.7	367.5	37.6	0.1	0.6
8/15/2006 14:20	11.1	3.6	0.7	367.2	37.5	-0.6	0.6
8/15/2006 14:21	11.1	3.6	0.7	367.5	37.5	0.1	0.6
8/15/2006 14:21	11.1	3.6	0.7	368.7	37.7	0.1	0.6
8/15/2006 14:21	11.1	3.6	1.0	369.4	37.7	0.2	0.6
8/15/2006 14:21	11.1	3.6	0.7	369.4	37.4	-0.1	0.6
8/15/2006 14:22	11.1	3.6	1.0	368.9	37.5	0.0	0.6
8/15/2006 14:22	11.1	3.6	1.0	369.2	37.4	0.1	0.6
8/15/2006 14:22	11.2	3.6	0.7	369.4	37.1	0.1	0.6
8/15/2006 14:22	11.1	3.6	0.7	370.4	37.6	0.2	0.6
8/15/2006 14:23	11.1	3.6	0.7	369.4	37.0	0.2	0.6
8/15/2006 14:23	11.1	3.6	0.7	368.0	37.3	0.1	0.6
8/15/2006 14:23	11.1	3.6	0.7	366.7	37.4	0.2	0.6
8/15/2006 14:23	11.1	3.6	0.7	367.5	36.8	-0.2	0.6
8/15/2006 14:24	11.2	3.5	2.9	368.0	35.9	-0.1	0.6
8/15/2006 14:24	11.2	3.5	2.7	367.5	35.9	0.4	0.5
8/15/2006 14:24	11.2	3.5	4.9	368.0	36.3	-0.4	0.5
8/15/2006 14:24	11.2	3.5	5.1	369.2	36.1	-0.4	0.6
8/15/2006 14:25	11.2	3.5	4.6	369.9	35.9	0.2	0.6
8/15/2006 14:25	11.2	3.5	4.9	372.1	36.0	-0.4	0.7
8/15/2006 14:25	11.2	3.5	4.9	374.6	36.0	0.2	0.7

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8/15/2006 14:25	11.2	3.5	4.9	375.0	36.4	0.2	0.6
8/15/2006 14:26	11.2	3.5	4.9	374.6	36.4	-0.5	0.7
8/15/2006 14:26	11.2	3.5	4.9	375.0	36.2	0.2	0.7
8/15/2006 14:26	11.2	3.5	4.9	376.3	36.2	-0.5	0.6
8/15/2006 14:26	11.5	3.5	2.9	374.8	35.6	0.0	0.7
8/15/2006 14:27	11.4	3.5	4.9	375.8	35.9	0.2	0.6
8/15/2006 14:27	11.4	3.5	32.7	378.0	34.8	74.1	0.6
8/15/2006 14:27	11.4	3.4	993.0	379.9	33.8	2.0	4.5
8/15/2006 14:27	11.4	3.1	2000.2	381.6	31.4	-0.1	23.7
8/15/2006 14:28	11.0	3.8	2000.2	387.3	37.5	-0.1	20.4
8/15/2006 14:28	10.4	4.2	1591.0	392.4	42.2	0.6	10.0
8/15/2006 14:28	10.2	4.5	456.6	391.2	42.7	0.7	4.2
8/15/2006 14:28	10.0	4.6	112.8	385.8	44.0	0.0	2.0
8/15/2006 14:29	9.9	4.6	33.0	382.1	44.0	0.1	1.2
8/15/2006 14:29	9.9	4.6	10.7	378.7	44.6	0.9	0.9
8/15/2006 14:29	10.0	4.6	2.7	374.6	46.2	0.7	0.7
8/15/2006 14:29	10.1	4.4	4.6	371.6	47.6	0.7	0.7
8/15/2006 14:30	10.2	4.2	4.9	372.6	46.8	0.4	0.6
	10.1	3.9	282.0	292.8	37.4	0.8	0.6

PCC Icinerator
Inlet Raw Data
Run1

Inlet
98.9
98.9
130.6
312.5
527.4
709.3
821.6
876.6
890.0
839.9
759.4
683.7
601.9
521.3
448.1
389.5
334.5
293.0
256.4
230.7
206.3
184.3
164.8
153.8
140.4
130.6
124.5
120.9
117.2
114.8
113.5
111.1
108.7
108.7
108.7
111.1
111.1
113.5
139.2
153.8
116.0

PCC Icinerator
Inlet Raw Data
Run1

116.0
116.0
118.4
119.6
120.9
123.3
124.5
129.4
128.2
131.9
133.1
134.3
136.7
139.2
139.2
139.2
142.8
144.1
147.7
153.8
157.5
164.8
169.7
177.0
184.3
185.6
190.5
194.1
197.8
197.8
201.4
199.0
205.1
205.1
202.7
210.0
206.3
208.8
211.2
211.2
211.2
213.6
214.9
216.1

PCC Icinerator
Inlet Raw Data
Run1

218.5
221.0
227.1
234.4
224.6
224.6
225.9
229.5
229.5
233.2
233.2
235.6
235.6
238.1
239.3
240.5
240.5
244.2
246.6
247.8
249.1
250.3
253.9
252.7
256.4
255.2
262.5
261.3
261.3
266.1
266.1
267.4
268.6
271.0
273.5
274.7
278.4
326.0
277.1
283.2
283.2
285.7
283.2
286.9

PCC Icinerator
Inlet Raw Data
Run1

289.3
289.3
293.0
296.7
295.4
299.1
299.1
305.2
313.8
311.3
316.2
317.4
317.4
319.9
326.0
322.3
323.5
327.2
328.4
332.1
333.3
332.1
330.9
328.4
332.1
327.2
326.0
321.1
321.1
318.6
321.1
318.6
319.9
319.9
318.6
317.4
318.6
321.1
324.7
327.2
327.2
328.4
334.5
334.5

PCC Icinerator
Inlet Raw Data
Run1

334.5
337.0
343.1
346.7
343.1
344.3
351.6
351.6
354.0
358.9
360.2
361.4
369.9
368.7
369.9
372.4
378.5
379.7
380.9
384.6
387.0
388.2
388.2
395.6
394.3
398.0
404.1
401.7
410.2
409.0
412.6
416.3
416.3
426.1
426.1
435.8
439.5
439.5
444.4
443.2
452.9
454.2
452.9
457.8

PCC Icinerator
Inlet Raw Data
Run1

465.1
466.4
470.0
476.1
476.1
474.9
481.0
487.1
484.7
493.2
495.7
499.3
510.3
511.5
516.4
522.5
520.1
523.7
528.6
529.9
537.2
537.2
540.8
545.7
549.4
549.4
896.1
896.1
908.3
907.1
915.6
919.3
920.5
932.7
937.6
942.5
946.2
947.4
951.0
960.8
963.3
974.2
979.1
980.3

PCC Icinerator
Inlet Raw Data
Run1

996.2
1001.1
1001.1
1012.1
1009.6
1017.0
1026.7
1035.3
1034.1
1049.9
1048.7
1058.5
1058.5
1064.6
1074.4
1076.8
1080.5
1095.1
1089.0
1093.9
1106.1
1100.0
1111.0
1117.1
1124.4
1134.2
1141.5
1143.9
1157.4
1159.8
1173.2
1173.2
1180.6
1186.7
1184.2
1195.2
1206.2
1203.8
1220.9
1228.2
1228.2
1240.4
1244.1
1250.2

PCC Icinerator
Inlet Raw Data
Run1

1261.1
1273.4
1268.5
1281.9
1284.3
1291.7
1296.5
1305.1
1317.3
1325.9
1314.9
1280.7
1311.2
1312.4
1296.5
1268.5
1290.4
1342.9
1410.1
1447.9
1412.5
1369.8
1322.2
1269.7
1195.2
1161.0
1128.1
1087.8
1073.1
1043.8
1028.0
1017.0
1006.0
980.3
984.0
975.5
965.7
962.0
940.1
937.6
940.1
929.1
926.6
925.4

PCC Icinerator
Inlet Raw Data
Run1

921.7
926.6
923.0
927.8
932.7
934.0
934.0
924.2
935.2
944.9
935.2
943.7
949.8
943.7
938.8
951.0
946.2
953.5
944.9
947.4
947.4
953.5
952.3
951.0
949.8
952.3
957.1
949.8
946.2
948.6
953.5
976.7
971.8
980.3
998.7
995.0
1002.3
993.8
1008.4
1007.2
1009.6
1013.3
1025.5
1019.4

PCC Icinerator
Inlet Raw Data
Run1

1029.2
1020.6
1026.7
1031.6
1045.1
1042.6
1059.7
1054.8
1059.7
1053.6
1068.3
1074.4
1076.8
1070.7
1087.8
1078.0
1081.7
1079.2
1093.9
1098.8
1095.1
1095.1
1093.9
1106.1
1109.8
1109.8
1106.1
1118.3
1115.9
1117.1
1129.3
1142.7
1131.7
1159.8
1156.2
1152.5
1167.1
1161.0
1161.0
1168.4
1172.0
1208.6
1195.2
1200.1

PCC Icinerator
Inlet Raw Data
Run1

1200.1
1208.6
1205.0
1201.3
1213.5
1233.1
1231.8
1213.5
1231.8
1241.6
1248.9
1247.7
1245.3
1259.9
1257.5
1268.5
1264.8
1286.8
1289.2
1294.1
1291.7
1300.2
1291.7
1350.3
1325.9
1330.7
1327.1
1341.7
1316.1
1325.9
1324.6
1368.6
1346.6
1364.9
1342.9
1341.7
1340.5
1358.8
1379.6
1366.1
1389.3
1388.1
1402.8
1410.1

PCC Icinerator
Inlet Raw Data
Run1

1418.6
1422.3
1421.1
1419.9
1441.8
1445.5
1421.1
1445.5
1466.2
1450.4
1480.9
1465.0
1491.9
1488.2
1495.5
1489.4
1498.0
1498.0
1502.9
1491.9
1498.0
1489.4
1507.8
1518.7
1528.5
1534.6
1571.2
1609.1
1572.5
1594.4
1600.5
1582.2
1581.0
1581.0
1865.5
1888.7
1893.5
1881.3
1911.9
1909.4
1907.0
1899.7
1953.4
1969.2

PCC Icinerator
Inlet Raw Data
Run1

1964.4
1953.4
1950.9
1965.6
1982.7
1969.2
1998.5
2009.5
2040.0
2016.9
1998.5
2005.9
2025.4
2047.4
2086.4
2070.6
2060.8
2081.6
2082.8
2096.2
2101.1
2103.5
2126.7
2106.0
2140.2
2176.8
2184.1
2149.9
2169.5
2164.6
2165.8
2174.3
2176.8
2181.7
2190.2
2245.2
2223.2
2219.5
2211.0
2179.2
2215.9
2236.6
2253.7
2269.6

PCC Icinerator
Inlet Raw Data
Run1

2226.8
2253.7
2248.8
2239.0
2239.0
2274.5
2275.7
2247.6
2273.2
2269.6
2283.0
2316.0
2326.9
2301.3
2320.8
2346.5
2362.4
2342.8
2341.6
2367.2
2372.1
2377.0
2370.9
2403.9
2413.6
2419.7
2428.3
2427.1
2436.8
2445.4
2451.5
2460.0
2469.8
2468.6
2495.4
2490.5
2483.2
2471.0
2485.7
2479.6
2508.9
2534.5
2538.2
2539.4

PCC Icinerator
Inlet Raw Data
Run1

2557.7
2557.7
2573.6
2563.8
2573.6
2567.5
2634.6
2611.4
2644.4
2635.8
2627.3
2648.0
2638.3
2666.3
2645.6
2696.9
2679.8
2683.4
2710.3
2698.1
2710.3
2715.2
2767.7
2745.7
2749.4
2767.7
2764.0
2757.9
2753.0
2797.0
2815.3
2822.6
2822.6
2809.2
2836.0
2855.6
2861.7
2862.9
2866.6
2881.2
2891.0
2897.1
2898.3
2881.2

PCC Icinerator
Inlet Raw Data
Run1

2892.2
2910.5
2948.4
2974.0
2947.1
2936.2
2928.8
2982.5
2953.2
2980.1
2963.0
2961.8
2960.6
2954.5
2953.2
2986.2
3008.2
3032.6
3022.8
3033.8
3004.5
3027.7
3036.3
3033.8
3048.5
3058.2
3113.2
3069.2
3081.4
3081.4
3063.1
3044.8
3043.6
3049.7
3041.1
3049.7
3060.7
3032.6
3022.8
3014.3
3026.5
3026.5
3010.6
3003.3

PCC Icinerator
Inlet Raw Data
Run1

2978.9
2952.0
2926.4
2939.8
2921.5
2913.0
2911.7
2908.1
2914.2
2913.0
2909.3
2938.6
2930.1
2927.6
2906.9
2900.7
2927.6
2921.5
2906.9
2910.5
2910.5
2904.4
2906.9
2909.3
2928.8
2917.8
2927.6
2921.5
2926.4
2925.2
2928.8
2921.5
2908.1
2919.1
2913.0
2913.0
2913.0
2919.1
2909.3
2899.5
2922.7
2928.8
2925.2
2911.7

PCC Icinerator
Inlet Raw Data
Run1

2906.9
2904.4
2925.2
2926.4
2930.1
2954.5
2936.2
2947.1
2917.8
2932.5
2955.7
2949.6
2959.4
2945.9
2950.8
2937.4
2976.4
2947.1
2948.4
2944.7
2933.7
2948.4
2981.3
2967.9
2944.7
2971.6
2985.0
2978.9
2954.5
2965.5
3011.8
2991.1
3016.7
2998.4
2974.0
3000.9
2997.2
3011.8
3011.8
3008.2
3025.3
3021.6
3003.3
3005.7

PCC Icinerator
Inlet Raw Data
Run1

3018.0
3015.5
3032.6
3053.4
3035.0
3033.8
3039.9
3064.3
3077.8
3050.9
3102.2
3077.8
3096.1
3148.6
3112.0
3136.4
3120.5
3094.9
3099.7
3125.4
3124.2
3121.7
3113.2
3113.2
3122.9
3115.6
3146.1
3143.7
3148.6
3149.8
3140.0
3174.2
3177.9
2959.4
2826.3
2793.3
2756.7
2750.6
2751.8
2723.7
2738.4
2715.2
2727.4
2726.2

PCC Icinerator
Inlet Raw Data
Run1

2703.0
2723.7
2700.5
2711.5
2714.0
2694.4
2709.1
2693.2
2700.5
2718.8
2717.6
2707.9
2715.2
2710.3
2718.8
2731.1
2743.3
2734.7
2734.7
2740.8
2732.3
2746.9
2729.8
2751.8
2733.5
2740.8
2750.6
2728.6
2760.4
2748.1
2739.6
2760.4
2742.0
2764.0
2772.6
2753.0
2766.5
2775.0
2766.5
2768.9
2771.3
2756.7
2770.1
2779.9

PCC Icinerator
Inlet Raw Data
Run1

2759.1
2784.8
2781.1
2784.8
2773.8
2783.5
2801.9
2801.9
2788.4
2790.9
2808.0
2789.7
2794.5
2819.0
2820.2
2828.7
2826.3
2820.2
2832.4
2847.0
2817.7
2842.1
2838.5
2827.5
2836.0
2858.0
2840.9
2847.0
2844.6
2862.9
2850.7
2864.1
2878.8
2871.4
2865.3
2884.9
2887.3
2866.6
2876.3
2900.7
2881.2
2882.4
2903.2
2915.4

PCC Icinerator
Inlet Raw Data
Run1

2895.9
2899.5
2920.3
2937.4
2919.1
2919.1
2931.3
2938.6
2919.1
2923.9
2930.1
2937.4
2956.9
2928.8
2954.5
2956.9
2947.1
2952.0
2970.3
2949.6
2976.4
2977.7
2970.3
2958.1
2977.7
2981.3
2975.2
2960.6
2980.1
2985.0
2994.8
2976.4
3003.3
2991.1
3008.2
3004.5
3008.2
3002.1
3002.1
3021.6
2993.5
3013.1
3015.5
3011.8

PCC Icinerator
Inlet Raw Data
Run1

3019.2
3026.5
3020.4
3024.1
3024.1
3035.0
3048.5
3032.6
3043.6
3027.7
3038.7
3037.5
3036.3
3059.5
3059.5
3050.9
3070.4
3063.1
3061.9
3088.8
3097.3
3093.6
3079.0
3087.5
3077.8
3109.5
3083.9
3096.1
3122.9
3088.8
3109.5
3119.3
3107.1
3127.8
3141.3
3118.1
3121.7
3140.0
3157.1
3147.4
3158.3
3177.9
3171.8
3168.1

PCC Icinerator
Inlet Raw Data
Run1

3187.6
3204.7
3177.9
3176.7
3181.5
3210.8
3225.5
3215.7
3204.7
3209.6
3230.4
3227.9
3245.0
3252.4
3253.6
3241.4
3258.5
3274.3
3271.9
3254.8
3280.4
3262.1
3279.2
3290.2
3279.2
3302.4
3307.3
3301.2
3298.7
3323.2
3297.5
3326.8
3320.7
3341.5
3356.1
3343.9
3352.5
3358.6
3334.2
3335.4
3356.1
3340.3
3367.1
3369.6

PCC Icinerator
Inlet Raw Data
Run1

3370.8
3358.6
3361.0
3391.5
3391.5
3392.8
3392.8
3364.7
3389.1
3389.1
3397.6
3408.6
3405.0
3412.3
3402.5
3407.4
3405.0
3400.1
3400.1
3417.2
3442.8
3434.3
3434.3
3439.1
3457.5
3455.0
3447.7
3459.9
3464.8
3483.1
3458.7
3448.9
3459.9
3470.9
3436.7
3450.1
3469.7
3477.0
3461.1
3480.7
3489.2
3490.4
3484.3
3506.3

PCC Icinerator
Inlet Raw Data
Run1

3513.6
3490.4
3484.3
3501.4
3518.5
3516.1
3485.5
3505.1
3531.9
3528.3
3512.4
3518.5
3530.7
3528.3
3523.4
3542.9
3514.8
3506.3
3534.4
3551.5
3516.1
3512.4
3529.5
3524.6
3542.9
3525.8
3516.1
3527.0
3541.7
3544.1
3529.5
3531.9
3542.9
3545.4
3538.0
3527.0
3539.3
3541.7
3566.1
3566.1
3536.8
3545.4
3568.6
3578.3

PCC Icinerator
Inlet Raw Data
Run1

3558.8
3572.2
3545.4
3552.7
3546.6
3585.6
3571.0
3553.9
3582.0
3577.1
3558.8
3552.7
3558.8
3584.4
3578.3
3571.0
3560.0
3555.1

1966.7

PCC Incinerator
Inlet Raw Data
Run 2

	O2	CO2	CO	SO2	NOx	THC	Inlet
8/16/2006 9:10	16.2953	2.67367	44.9274	9.27848	40.5811	41.3869	421.194
8/16/2006 9:10	17.3575	2.11207	390.429	34.9164	28.7144	24.0508	604.322
8/16/2006 9:10	17.3575	2.21707	864.607	78.6229	29.0563	0.24417	794.775
8/16/2006 9:10	16.3625	2.89342	862.898	108.9	32.8898	0.122085	893.664
8/16/2006 9:11	15.3034	3.51361	446.832	114.272	35.4047	-0.36626	924.185
8/16/2006 9:11	14.8364	3.62349	126.724	106.458	37.4557	-0.36626	866.805
8/16/2006 9:11	14.8364	3.72604	26.8587	96.9357	38.4813	-0.12209	804.542
8/16/2006 9:11	14.7265	3.72604	6.83677	89.3664	38.994	-0.36626	728.849
8/16/2006 9:12	14.7265	3.72604	2.93005	79.8437	39.1405	-0.24417	655.598
8/16/2006 9:12	14.8395	3.72604	0.732511	70.5653	39.7021	-0.48834	584.788
8/16/2006 9:12	14.8395	3.72604	0.976682	62.7518	40.1905	-0.48834	522.525
8/16/2006 9:12	14.8395	3.72604	0.976682	56.1592	40.6055	-0.24417	470.028
8/16/2006 9:13	15.0562	3.62105	0.732511	49.8108	41.1183	0	424.857
8/16/2006 9:13	15.2759	3.51605	0.976682	42.974	40.9962	-0.48834	384.568
8/16/2006 9:13	15.6055	3.41106	2.93005	39.3114	40.8253	0	354.047
8/16/2006 9:13	15.6055	3.41106	2.68587	38.3348	41.1183	-0.36626	327.188
8/16/2006 9:14	15.7063	3.31095	2.93005	36.3814	41.1183	0.122085	306.434
8/16/2006 9:14	15.7063	3.31095	4.88341	33.6955	41.2404	-0.24417	285.679
8/16/2006 9:14	15.9169	3.21084	4.88341	31.0096	41.1183	0.122085	273.471
8/16/2006 9:14	15.9169	3.21084	7.08094	29.3005	40.9962	-0.12209	258.821
8/16/2006 9:15	15.9169	3.21084	6.83677	27.1029	40.9962	-0.24417	250.275
8/16/2006 9:15	15.9169	3.21084	6.83677	25.1496	40.8497	-0.12209	241.729
8/16/2006 9:15	15.9169	3.21084	6.83677	23.4404	40.9962	-0.12209	239.287
8/16/2006 9:15	15.9169	3.21084	6.83677	22.2195	40.8985	-0.36626	235.624
8/16/2006 9:16	15.9169	3.21084	4.88341	21.7312	40.7276	0.732511	231.962
8/16/2006 9:16	15.8131	3.21084	4.88341	20.9987	40.166	0.488341	230.741
8/16/2006 9:16	15.7124	3.31095	2.93005	19.7778	39.8974	0.732511	224.637
8/16/2006 9:16	15.7124	3.31095	2.93005	19.0453	39.7509	0.976682	228.299
8/16/2006 9:17	15.7124	3.31095	2.68587	19.2895	40.4102	0.732511	227.079
8/16/2006 9:17	15.7124	3.31095	2.68587	18.8011	40.4102	0.488341	225.858
8/16/2006 9:17	15.7124	3.31095	2.68587	18.8011	40.2393	0.732511	223.416
8/16/2006 9:17	15.7124	3.31095	0.976682	18.557	40.2149	0.488341	220.974
8/16/2006 9:18	15.6055	3.31095	2.68587	18.0686	40.2149	0.854597	225.858
8/16/2006 9:18	15.6055	3.31095	2.93005	18.3128	40.0928	0.488341	223.416
8/16/2006 9:18	15.6055	3.31095	2.93005	17.8244	39.9463	0.732511	219.753
8/16/2006 9:18	15.6055	3.31095	0.976682	18.0686	39.8242	0.854597	223.416
8/16/2006 9:19	15.6055	3.31095	2.93005	17.8244	39.9463	0.976682	223.416
8/16/2006 9:19	15.7093	3.21084	2.68587	18.3128	40.3858	0.488341	222.195
8/16/2006 9:19	15.81	3.21084	2.93005	18.0686	40.5567	0.976682	224.637
8/16/2006 9:19	15.81	3.21084	2.68587	18.0686	40.5567	0.488341	223.416
8/16/2006 9:20	15.81	3.21084	4.88341	18.0686	40.7032	1.09877	224.637

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8/16/2006 9:20	15.81	3.21084	2.93005	18.0686	41.0206	0.610426	223.416
8/16/2006 9:20	15.81	3.21084	2.68587	18.8011	41.1427	0.976682	224.637
8/16/2006 9:20	15.81	3.21084	2.93005	18.557	41.4113	0.854597	224.637
8/16/2006 9:21	15.7063	3.21084	2.93005	18.8011	41.1671	0.488341	225.858
8/16/2006 9:21	15.7063	3.21084	2.68587	18.557	40.7765	0.976682	229.52
8/16/2006 9:21	15.7063	3.21084	2.93005	18.8011	41.045	0.488341	227.079
8/16/2006 9:21	15.7063	3.21084	2.93005	18.8011	40.8985	0.854597	229.52
8/16/2006 9:22	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:22	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:22	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:22	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:23	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:23	15.7063	3.21084	4.88341	18.8011	40.8985	0.732511	227.079
8/16/2006 9:23	15.5964	3.07166	12.941	21.487	38.994	-0.24417	-7.32511
8/16/2006 9:23	15.4896	3.17422	12.941	22.2195	38.994	-0.8546	-9.76682
8/16/2006 9:24	15.2851	3.37444	12.6969	22.952	39.9951	-0.61043	-7.32511
8/16/2006 9:24	15.1843	3.37444	12.941	24.6612	40.2637	-0.24417	-7.32511
8/16/2006 9:24	15.0836	3.47455	12.941	25.8821	40.5567	-0.36626	-8.54597
8/16/2006 9:24	14.9799	3.57466	12.941	26.8587	41.2648	-0.61043	-10.9877
8/16/2006 9:25	14.9799	3.57466	12.941	28.3238	41.2892	-0.73251	-9.76682
8/16/2006 9:25	14.873	3.57466	12.941	30.2771	41.5578	-0.24417	-7.32511
8/16/2006 9:25	14.873	3.57466	12.941	32.2305	41.9485	-0.73251	-9.76682
8/16/2006 9:25	14.873	3.67476	12.941	34.6722	41.9485	-0.61043	-10.9877
8/16/2006 9:26	14.873	3.67476	12.6969	36.8697	42.2415	-0.48834	178.244
8/16/2006 9:26	14.873	3.67476	14.8944	37.6022	42.388	-0.73251	280.796
8/16/2006 9:26	14.873	3.67476	20.7545	38.5789	42.388	0.610426	286.9
8/16/2006 9:26	14.9768	3.56977	29.0563	39.7998	42.9252	0.854597	290.563
8/16/2006 9:27	14.9768	3.56977	36.8697	41.0206	42.9252	1.09877	301.55
8/16/2006 9:27	14.9768	3.56977	38.8231	42.2415	42.8031	0.732511	297.888
8/16/2006 9:27	14.9768	3.56977	39.0673	43.2182	43.4135	0.732511	297.888
8/16/2006 9:27	14.9768	3.56977	41.0206	44.6832	43.7553	0.976682	303.992
8/16/2006 9:28	14.9768	3.56977	40.7765	45.904	43.7309	0.976682	307.655
8/16/2006 9:28	14.9768	3.56977	44.9274	46.3924	43.9995	0.854597	311.317
8/16/2006 9:28	14.9768	3.56977	44.6832	46.8807	43.9995	0.732511	308.876
8/16/2006 9:28	14.9768	3.56977	46.8807	47.6132	43.9751	0.732511	310.096
8/16/2006 9:29	14.9768	3.56977	46.8807	48.3457	43.9751	0.732511	310.096
8/16/2006 9:29	14.873	3.56977	44.9274	49.3224	43.853	0.610426	311.317
8/16/2006 9:29	14.873	3.56977	41.0206	49.5666	43.853	0.976682	318.642
8/16/2006 9:29	14.873	3.56977	38.8231	49.8108	43.56	1.09877	319.863
8/16/2006 9:30	14.6624	3.66988	31.0096	49.8108	43.0717	0.976682	322.305
8/16/2006 9:30	14.6624	3.66988	24.9054	49.8108	42.9252	0.976682	328.409
8/16/2006 9:30	14.6624	3.66988	24.9054	50.0549	42.9007	0.854597	325.968
8/16/2006 9:30	14.6624	3.66988	24.9054	49.8108	42.7787	0.854597	327.188
8/16/2006 9:31	14.6624	3.66988	22.7079	50.0549	43.2426	2.31962	330.851

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8/16/2006 9:31	14.5617	3.66988	22.952	51.0316	43.2426	2.4417	329.63
8/16/2006 9:31	14.5617	3.66988	22.7079	51.7641	43.2914	5.73801	333.293
8/16/2006 9:31	15.8558	2.16335	20.7545	50.2991	27.0541	2.80796	335.734
8/16/2006 9:32	15.0745	3.60396	22.7079	44.6832	41.6066	4.1509	335.734
8/16/2006 9:32	14.6105	3.60396	22.952	49.3224	42.8031	5.37175	338.176
8/16/2006 9:32	14.5037	3.60396	22.7079	52.2525	43.0961	5.37175	345.501
8/16/2006 9:32	14.5037	3.60396	22.7079	52.7408	43.0961	5.24966	339.397
8/16/2006 9:33	14.5037	3.60396	29.0563	52.7408	43.2914	-0.48834	455.378
8/16/2006 9:33	14.5037	3.60396	32.7188	51.7641	43.6333	-1.46502	346.722
8/16/2006 9:33	14.5037	3.60396	36.8697	52.985	43.6577	-1.83128	349.164
8/16/2006 9:33	14.5037	3.60396	36.8697	53.2292	43.1937	-1.22085	354.047
8/16/2006 9:34	14.5037	3.60396	36.8697	53.4733	43.1449	0.854597	355.268
8/16/2006 9:34	14.5037	3.60396	36.8697	54.45	43.1449	1.09877	352.826
8/16/2006 9:34	14.5037	3.60396	34.9164	53.2292	43.4623	1.46502	357.71
8/16/2006 9:34	14.5037	3.60396	32.963	53.4733	43.3403	1.09877	357.71
8/16/2006 9:35	14.5037	3.60396	34.9164	53.9617	43.4623	1.34294	357.71
8/16/2006 9:35	14.5037	3.60396	34.9164	53.9617	43.6088	1.46502	365.035
8/16/2006 9:35	14.5037	3.60396	34.9164	54.6942	43.4868	0.976682	362.593
8/16/2006 9:35	14.403	3.60396	34.6722	54.6942	43.6088	0.976682	368.697
8/16/2006 9:36	14.403	3.60396	36.8697	54.6942	43.3647	1.34294	369.918
8/16/2006 9:36	14.403	3.60396	36.8697	55.1825	43.6577	1.09877	371.139
8/16/2006 9:36	14.403	3.60396	34.9164	55.1825	43.4623	1.34294	372.36
8/16/2006 9:36	14.403	3.60396	34.6722	55.1825	43.7553	0.976682	373.581
8/16/2006 9:37	14.403	3.60396	34.6722	55.1825	43.4623	0.976682	379.685
8/16/2006 9:37	14.403	3.60396	34.9164	55.4267	43.4623	1.09877	385.789
8/16/2006 9:37	14.3023	3.60396	36.8697	55.915	43.6577	0.976682	384.568
8/16/2006 9:37	14.3023	3.60396	36.8697	55.6709	43.3891	1.34294	391.894
8/16/2006 9:38	14.3023	3.60396	36.8697	55.1825	43.6577	1.46502	390.673
8/16/2006 9:38	14.3023	3.60396	34.9164	55.1825	43.8042	0.976682	387.01
8/16/2006 9:38	14.3023	3.60396	34.9164	55.6709	43.6577	1.09877	391.894
8/16/2006 9:38	14.3023	3.60396	34.6722	55.915	43.9751	0.976682	397.998
8/16/2006 9:39	14.3023	3.60396	34.9164	55.915	43.5844	1.22085	401.66
8/16/2006 9:39	14.3023	3.60396	34.9164	55.915	43.5844	1.22085	404.102
8/16/2006 9:39	14.3023	3.60396	34.9164	55.915	43.7065	1.22085	405.323
8/16/2006 9:39	14.3023	3.60396	42.974	55.915	44.3414	1.22085	407.765
8/16/2006 9:40	14.3023	3.60396	54.9383	55.915	44.6099	1.34294	410.206
8/16/2006 9:40	14.3023	3.60396	58.8451	55.6709	44.6344	1.34294	418.752
8/16/2006 9:40	14.3023	3.60396	64.9493	56.4034	44.6344	1.46502	419.973
8/16/2006 9:40	14.3023	3.60396	71.0536	56.4034	44.8053	0.976682	432.182
8/16/2006 9:41	14.3023	3.60396	70.8094	56.8917	43.8042	1.09877	460.261
8/16/2006 9:41	14.3023	3.60396	62.996	57.6242	43.5112	1.09877	427.298
8/16/2006 9:41	14.1985	3.70651	48.8341	57.6242	42.974	0.976682	432.182
8/16/2006 9:41	14.0978	3.70651	36.8697	57.6242	42.8519	1.46502	438.286
8/16/2006 9:42	14.0978	3.70651	32.963	57.3801	42.7298	1.22085	438.286

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8/16/2006 9:42	14.0978	3.70651	34.9164	57.6242	42.9984	1.46502	439.507
8/16/2006 9:42	14.0978	3.70651	32.963	57.6242	42.9984	1.22085	439.507
8/16/2006 9:42	14.0978	3.70651	30.7655	58.1126	43.1449	1.22085	446.832
8/16/2006 9:43	14.0978	3.70651	28.8121	58.6009	43.267	1.46502	445.611
8/16/2006 9:43	13.9971	3.70651	29.0563	58.8451	43.1449	0.976682	445.611
8/16/2006 9:43	13.9971	3.70651	28.8121	58.6009	43.1449	1.58711	449.274
8/16/2006 9:43	13.9971	3.70651	28.8121	59.3334	43.1449	1.46502	449.274
8/16/2006 9:44	13.9971	3.70651	28.8121	60.0659	43.0228	1.09877	446.832
8/16/2006 9:44	13.9971	3.70651	29.0563	60.5543	43.1449	1.46502	452.936
8/16/2006 9:44	13.8902	3.70651	28.8121	61.7751	43.2914	1.34294	461.482
8/16/2006 9:44	13.8902	3.70651	30.7655	63.4843	43.4135	0.976682	452.936
8/16/2006 9:45	13.8902	3.70651	34.9164	66.9027	43.0961	1.34294	455.378
8/16/2006 9:45	13.8902	3.70651	44.9274	69.3444	44.0728	1.22085	544.5
8/16/2006 9:45	13.8902	3.70651	58.8451	69.8327	44.6099	1.22085	455.378
8/16/2006 9:45	13.8902	3.70651	56.8917	70.5653	45.1471	1.34294	462.703
8/16/2006 9:46	13.8902	3.70651	44.9274	70.5653	45.7575	0.976682	461.482
8/16/2006 9:46	13.8902	3.70651	32.963	71.0536	46.7586	1.46502	468.807
8/16/2006 9:46	13.7895	3.70651	26.6146	71.7861	46.6121	1.22085	468.807
8/16/2006 9:46	13.8902	3.70651	24.9054	72.0303	46.9051	1.22085	468.807
8/16/2006 9:47	13.8902	3.70651	22.7079	73.007	46.7586	1.22085	473.691
8/16/2006 9:47	13.991	3.6064	22.952	73.2511	46.4901	1.22085	467.586
8/16/2006 9:47	13.991	3.6064	22.7079	73.9836	47.1493	1.46502	470.028
8/16/2006 9:47	13.991	3.6064	19.0453	73.2511	47.1493	1.22085	462.703
8/16/2006 9:48	13.991	3.5014	20.7545	73.4953	47.2714	1.09877	461.482
8/16/2006 9:48	14.2077	3.5014	24.9054	73.2511	47.0028	1.46502	463.924
8/16/2006 9:48	14.2077	3.5014	25.8821	73.4953	47.247	1.09877	460.261
8/16/2006 9:48	14.2077	3.40129	25.3937	73.2511	47.1005	1.46502	457.82
8/16/2006 9:49	14.2077	3.40129	22.7079	73.4953	47.1005	1.22085	459.04
8/16/2006 9:49	14.2077	3.40129	22.952	73.007	47.1493	1.22085	462.703
8/16/2006 9:49	14.2077	3.40129	22.7079	72.0303	46.7342	1.58711	463.924
8/16/2006 9:49	14.2077	3.40129	20.9987	71.5419	46.7098	1.34294	461.482
8/16/2006 9:50	14.2077	3.40129	18.8011	71.7861	46.4168	1.09877	463.924
8/16/2006 9:50	14.1039	3.40129	14.6502	71.7861	46.661	1.09877	470.028
8/16/2006 9:50	14.0032	3.40129	10.7435	71.7861	46.197	1.22085	470.028
8/16/2006 9:50	14.0032	3.40129	10.9877	71.7861	46.3435	0.976682	471.249
8/16/2006 9:51	14.0032	3.40129	8.79014	71.7861	46.3924	1.46502	481.016
8/16/2006 9:51	14.0032	3.40129	9.03431	71.0536	46.2459	1.34294	482.237
8/16/2006 9:51	13.8963	3.40129	8.79014	71.0536	46.2459	0.976682	505.433
8/16/2006 9:51	13.8963	3.40129	8.79014	71.2978	46.661	1.34294	487.12
8/16/2006 9:52	13.8963	3.40129	6.5926	71.0536	46.954	1.46502	492.003
8/16/2006 9:52	13.8963	3.40129	6.83677	70.5653	46.954	1.09877	495.666
8/16/2006 9:52	13.8963	3.40129	6.83677	69.8327	46.8075	1.46502	501.77
8/16/2006 9:52	13.7956	3.40129	6.83677	69.3444	46.9784	0.854597	500.549
8/16/2006 9:53	13.7956	3.40129	6.83677	69.3444	46.5145	1.09877	509.095

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8/16/2006 9:53	13.7956	3.40129	4.88341	69.3444	46.8075	1.46502	515.2
8/16/2006 9:53	13.7956	3.40129	5.37175	69.3444	46.7098	1.22085	512.758
8/16/2006 9:53	13.7956	3.40129	4.88341	69.3444	47.0516	0.854597	510.316
8/16/2006 9:54	13.7956	3.40129	4.88341	68.1236	47.8574	1.34294	521.304
8/16/2006 9:54	13.7956	3.40129	7.08094	67.6352	47.7109	1.34294	520.083
8/16/2006 9:54	13.9086	3.40129	9.03431	67.6352	48.3946	0.854597	521.304
8/16/2006 9:54	13.9086	3.30118	12.941	67.6352	48.1016	1.34294	528.629
8/16/2006 9:55	13.9086	3.30118	15.1386	67.6352	48.3213	1.34294	533.512
8/16/2006 9:55	13.9086	3.30118	14.8944	66.9027	49.1027	0.976682	535.954
8/16/2006 9:55	13.9086	3.30118	15.1386	65.6818	48.9562	1.34294	543.279
8/16/2006 9:55	13.9086	3.30118	14.8944	65.1935	48.5411	1.22085	543.279
8/16/2006 9:56	13.9086	3.30118	16.8478	64.461	48.419	1.09877	546.942
8/16/2006 9:56	13.9086	3.30118	14.8944	63.9727	48.8341	1.34294	551.825
8/16/2006 9:56	13.6919	3.40618	8.79014	62.7518	48.5411	0.976682	557.929
8/16/2006 9:56	13.6919	3.40618	6.83677	60.3101	48.5411	1.22085	559.15
8/16/2006 9:57	13.6919	3.40618	6.83677	57.6242	48.5655	1.09877	561.592
8/16/2006 9:57	13.6919	3.40618	6.83677	55.1825	48.1504	1.34294	562.813
8/16/2006 9:57	13.6919	3.40618	6.83677	52.2525	48.3457	0.976682	568.917
8/16/2006 9:57	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 9:58	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 9:58	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 9:58	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 9:58	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 9:59	13.6919	3.40618	6.83677	52.2525	48.3457	1.09877	572.58
8/16/2006 10:01	13.5209	3.31583	4.88341	41.509	52.399	-0.12209	589.672
8/16/2006 10:01	13.4172	3.31583	4.88341	42.7298	49.9573	-0.36626	605.543
8/16/2006 10:01	13.4172	3.31583	4.88341	41.9973	50.9584	-0.36626	607.984
8/16/2006 10:01	13.4172	3.41594	4.88341	41.0206	53.2047	1.22085	618.972
8/16/2006 10:02	13.3164	3.41594	4.88341	41.0206	51.8374	0.732511	621.414
8/16/2006 10:02	13.3164	3.41594	5.12758	41.0206	50.2259	0.976682	743.499
8/16/2006 10:02	13.3164	3.41594	4.88341	40.5323	49.5666	1.09877	633.622
8/16/2006 10:02	13.3164	3.41594	4.88341	40.5323	49.5666	0.854597	637.285
8/16/2006 10:03	13.3164	3.41594	4.88341	39.7998	50.3968	1.22085	645.831
8/16/2006 10:03	13.3164	3.41594	6.83677	40.044	49.7619	0.732511	649.493
8/16/2006 10:03	13.3164	3.41594	6.83677	40.044	49.5178	1.09877	659.26
8/16/2006 10:03	13.3164	3.41594	6.83677	39.5556	49.9084	0.732511	656.818
8/16/2006 10:04	13.3164	3.41594	6.83677	39.5556	49.4445	1.22085	669.027
8/16/2006 10:04	13.3164	3.41594	6.83677	39.3114	49.4201	1.09877	673.91
8/16/2006 10:04	13.3164	3.41594	7.08094	39.3114	49.9084	0.976682	680.015
8/16/2006 10:04	13.4202	3.31583	10.9877	39.3114	50.47	0.976682	678.794
8/16/2006 10:05	13.4202	3.31583	12.941	38.5789	50.8607	1.09877	691.002
8/16/2006 10:05	13.4202	3.31583	12.6969	38.8231	50.6898	0.976682	699.548
8/16/2006 10:05	13.4202	3.31583	12.941	38.5789	51.3002	1.09877	701.99
8/16/2006 10:05	13.4202	3.31583	12.941	38.8231	51.0316	1.22085	708.094

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8/16/2006 10:06	13.3164	3.31583	12.941	38.8231	50.0305	0.976682	714.199
8/16/2006 10:06	13.2127	3.31583	10.9877	38.8231	50.6165	0.854597	716.64
8/16/2006 10:06	13.1089	3.42571	7.08094	38.5789	49.6154	0.976682	715.419
8/16/2006 10:06	13.1089	3.42571	4.88341	38.8231	49.1271	1.22085	725.186
8/16/2006 10:07	13.1089	3.42571	4.63924	38.8231	48.8341	0.854597	732.511
8/16/2006 10:07	13.0082	3.42571	2.93005	38.5789	49.2003	0.732511	737.395
8/16/2006 10:07	13.0082	3.42571	2.93005	38.5789	49.3468	1.22085	739.836
8/16/2006 10:07	13.0082	3.42571	2.68587	38.8231	49.2248	0.976682	748.382
8/16/2006 10:08	13.0082	3.42571	2.93005	38.8231	49.2003	0.732511	749.603
8/16/2006 10:08	13.0082	3.42571	2.93005	38.5789	49.4445	1.09877	756.928
8/16/2006 10:08	12.9075	3.42571	2.93005	38.5789	49.7619	0.854597	755.707
8/16/2006 10:08	12.9075	3.42571	2.93005	38.5789	49.4689	1.09877	758.149
8/16/2006 10:09	13.0082	3.3256	4.88341	38.0906	51.5688	1.22085	766.695
8/16/2006 10:09	13.112	3.3256	6.83677	38.0906	52.2525	1.22085	774.02
8/16/2006 10:09	13.112	3.3256	8.79014	38.0906	52.2281	0.854597	778.904
8/16/2006 10:09	13.112	3.3256	8.79014	38.0906	53.0582	0.854597	781.345
8/16/2006 10:10	13.112	3.3256	9.03431	38.0906	53.5954	0.610426	783.787
8/16/2006 10:10	13.112	3.3256	9.03431	38.0906	54.0105	0.976682	783.787
8/16/2006 10:10	13.112	3.3256	8.79014	38.0906	53.6198	1.22085	791.112
8/16/2006 10:10	13.112	3.3256	8.79014	38.0906	53.2047	0.976682	802.1
8/16/2006 10:11	13.112	3.3256	10.9877	38.0906	52.8385	0.732511	804.542
8/16/2006 10:11	13.112	3.3256	10.9877	38.0906	53.1559	0.854597	805.762
8/16/2006 10:11	13.0112	3.3256	10.9877	38.0906	52.8629	0.732511	805.762
8/16/2006 10:11	13.0112	3.3256	9.03431	38.0906	53.5466	0.854597	809.425
8/16/2006 10:12	12.9044	3.3256	6.83677	38.0906	52.7896	1.22085	813.088
8/16/2006 10:12	12.9044	3.3256	6.83677	38.0906	52.5211	0.732511	817.971
8/16/2006 10:12	12.9044	3.3256	4.88341	37.3581	52.9606	0.732511	819.192
8/16/2006 10:12	12.9044	3.3256	4.88341	38.0906	53.4001	0.976682	825.296
8/16/2006 10:13	12.8037	3.42571	4.88341	38.0906	53.5466	1.22085	838.725
8/16/2006 10:13	12.8037	3.42571	4.88341	38.0906	53.2047	1.09877	844.83
8/16/2006 10:13	12.8037	3.42571	4.88341	38.0906	53.4733	0.976682	847.271
8/16/2006 10:13	12.8037	3.42571	4.88341	38.0906	53.7175	0.732511	850.934
8/16/2006 10:14	12.587	3.41594	9.03431	38.5789	50.4456	1.22085	854.597
8/16/2006 10:14	12.6999	3.41594	10.7435	39.3114	50.9584	1.22085	859.48
8/16/2006 10:14	12.8128	3.41594	10.7435	39.3114	52.5699	0.732511	864.363
8/16/2006 10:14	12.7121	3.41594	6.83677	38.8231	52.0083	0.732511	870.468
8/16/2006 10:15	12.7121	3.41594	4.63924	38.8231	52.5943	0.732511	872.909
8/16/2006 10:15	12.7121	3.41594	4.88341	38.5789	52.0083	0.732511	877.793
8/16/2006 10:15	12.7121	3.41594	4.88341	38.8231	52.8385	0.610426	882.676
8/16/2006 10:15	12.6084	3.41594	5.12758	38.8231	52.985	0.610426	890.001
8/16/2006 10:16	12.6084	3.41594	4.88341	38.0906	52.7408	0.610426	885.118
8/16/2006 10:16	12.6084	3.41594	2.68587	38.5789	52.5943	1.09877	893.664
8/16/2006 10:16	12.6084	3.41594	4.63924	38.5789	53.0582	1.22085	904.651
8/16/2006 10:16	12.6084	3.41594	4.88341	38.8231	53.9372	1.09877	908.314

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8/16/2006 10:17	12.6084	3.41594	4.88341	38.5789	53.9128	1.22085	911.977
8/16/2006 10:17	12.6084	3.41594	4.88341	38.5789	52.8385	1.22085	918.081
8/16/2006 10:17	12.6084	3.41594	6.83677	38.8231	52.7164	0.976682	919.302
8/16/2006 10:17	12.6084	3.41594	4.88341	38.0906	53.2047	1.22085	927.848
8/16/2006 10:18	12.6084	3.31583	8.79014	38.0906	53.2292	1.22085	931.51
8/16/2006 10:18	12.8098	3.31583	12.941	38.0906	53.0827	1.09877	935.173
8/16/2006 10:18	12.8098	3.31583	14.8944	38.5789	52.7896	0.976682	935.173
8/16/2006 10:18	12.8098	3.31583	14.8944	38.8231	53.3512	0.610426	933.952
8/16/2006 10:19	12.8098	3.31583	14.8944	38.8231	52.7408	0.732511	941.277
8/16/2006 10:19	12.7091	3.31583	12.6969	38.8231	52.7896	1.09877	951.044
8/16/2006 10:19	12.6053	3.42083	8.79014	38.5789	52.0083	1.09877	951.044
8/16/2006 10:19	12.4954	3.42083	4.88341	38.8231	51.2025	0.732511	951.044
8/16/2006 10:20	12.3886	3.42083	2.68587	38.8231	50.8607	0.854597	955.927
8/16/2006 10:20	12.3886	3.42083	2.93005	38.5789	51.056	1.09877	960.811
8/16/2006 10:20	12.3886	3.42083	2.93005	38.8231	50.8119	0.976682	966.915
8/16/2006 10:20	12.3886	3.42083	2.93005	38.0906	50.8119	0.854597	974.24
8/16/2006 10:21	12.3886	3.42083	2.93005	38.8231	50.6898	0.732511	976.682
8/16/2006 10:21	12.2879	3.52094	2.93005	38.8231	50.9584	0.732511	974.24
8/16/2006 10:21	12.2879	3.52094	2.93005	38.5789	51.5444	0.610426	981.565
8/16/2006 10:21	12.3886	3.41594	4.88341	38.8231	53.1803	0.732511	984.007
8/16/2006 10:22	12.4893	3.41594	7.08094	38.8231	53.7175	0.610426	988.89
8/16/2006 10:22	12.59	3.41594	9.03431	38.5789	53.7419	0.854597	992.553
8/16/2006 10:22	12.59	3.41594	9.03431	37.8464	52.9606	1.22085	997.436
8/16/2006 10:22	12.59	3.41594	8.79014	38.8231	53.4977	0.854597	1001.1
8/16/2006 10:23	12.59	3.41594	8.79014	38.8231	53.6198	0.610426	1005.98
8/16/2006 10:23	12.59	3.41594	10.7435	38.8231	53.4977	0.610426	1016.97
8/16/2006 10:23	12.59	3.41594	10.9877	38.5789	52.6431	0.976682	1021.85
8/16/2006 10:23	12.4893	3.41594	11.2318	38.8231	53.6442	1.22085	1024.29
8/16/2006 10:24	12.4893	3.41594	8.79014	38.5789	53.7907	1.09877	1025.52
8/16/2006 10:24	12.3855	3.41594	6.83677	38.5789	52.7408	0.610426	1023.07
8/16/2006 10:24	12.3855	3.41594	7.32511	38.5789	53.3268	0.854597	1021.85
8/16/2006 10:24	12.3855	3.41594	4.88341	38.8231	53.1559	0.976682	1036.5
8/16/2006 10:25	12.2787	3.41594	4.88341	38.5789	52.8385	1.09877	1037.72
8/16/2006 10:25	12.2787	3.41594	4.88341	38.5789	53.0582	1.09877	1045.05
8/16/2006 10:25	12.2787	3.41594	4.88341	38.8231	52.399	0.976682	1041.39
8/16/2006 10:25	12.2787	3.41594	4.88341	38.5789	52.7652	0.854597	1041.39
8/16/2006 10:26	12.2787	3.41594	4.88341	38.8231	52.6431	0.976682	1049.93
8/16/2006 10:26	12.2787	3.41594	4.88341	38.8231	52.3013	0.610426	1056.04
8/16/2006 10:26	12.1719	3.41594	4.63924	38.5789	52.6676	1.22085	1065.8
8/16/2006 10:26	12.1719	3.41594	2.93005	38.8231	52.9117	0.610426	1063.36
8/16/2006 10:27	12.1719	3.41594	2.68587	38.8231	53.1803	1.09877	1068.25
8/16/2006 10:27	12.1719	3.41594	2.93005	38.8231	53.1559	0.854597	1068.25
8/16/2006 10:27	12.1719	3.41594	4.63924	38.5789	53.4489	0.976682	1078.01
8/16/2006 10:27	12.0651	3.41594	2.93005	38.5789	53.1071	0.610426	1082.9

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8/16/2006 10:28	12.0651	3.41594	2.68587	38.8231	52.9361	1.09877	1092.66
8/16/2006 10:28	12.0651	3.51605	2.93005	38.5789	53.0094	0.610426	1087.78
8/16/2006 10:28	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:28	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:29	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:29	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:29	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:29	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:30	12.0651	3.51605	2.93005	38.8231	52.5943	0.610426	1081.68
8/16/2006 10:31	12.2146	3.2084	8.79014	40.5323	51.3979	0.610426	1024.29
8/16/2006 10:31	12.2146	3.2084	8.79014	40.5323	51.6665	0.976682	1087.78
8/16/2006 10:31	12.1109	3.2084	8.79014	41.2648	50.6898	0.610426	1087.78
8/16/2006 10:32	12.1109	3.31095	9.03431	40.5323	50.2991	0.854597	1093.88
8/16/2006 10:32	12.0101	3.31095	6.83677	40.5323	50.5677	0.976682	1099.99
8/16/2006 10:32	12.0101	3.41106	6.83677	40.5323	51.056	0.610426	1102.43
8/16/2006 10:32	12.0101	3.41106	4.88341	40.5323	49.4201	1.09877	1101.21
8/16/2006 10:33	12.0101	3.41106	6.83677	40.5323	48.5899	1.22085	1093.88
8/16/2006 10:33	12.0101	3.41106	4.88341	40.7765	49.0538	0.610426	1091.44
8/16/2006 10:33	12.0101	3.41106	5.12758	40.5323	49.4445	0.976682	1098.77
8/16/2006 10:33	11.7843	3.5185	2.68587	41.0206	48.9073	1.22085	1099.99
8/16/2006 10:34	11.7843	3.5185	0.732511	41.7531	48.4922	1.09877	1106.09
8/16/2006 10:34	11.7843	3.5185	0.732511	41.7531	48.6876	0.976682	1113.42
8/16/2006 10:34	11.7843	3.5185	0.732511	41.509	48.6876	0.854597	1128.07
8/16/2006 10:34	11.7843	3.5185	0.732511	41.509	49.4933	1.09877	1135.39
8/16/2006 10:35	11.888	3.5185	2.68587	41.7531	51.6176	1.09877	1142.72
8/16/2006 10:35	11.9888	3.5185	4.88341	41.0206	51.6909	1.09877	1158.59
8/16/2006 10:35	11.9888	3.41594	4.63924	41.2648	51.4711	0.854597	1162.25
8/16/2006 10:35	11.9888	3.41594	4.88341	41.9973	51.6176	0.610426	1167.13
8/16/2006 10:36	11.9888	3.41594	6.83677	42.2415	52.2525	0.976682	1180.56
8/16/2006 10:36	11.9888	3.41594	6.83677	42.2415	51.2758	0.976682	1195.21
8/16/2006 10:36	11.9888	3.41594	9.03431	42.4857	51.2514	0.610426	1192.77
8/16/2006 10:36	11.9888	3.41594	9.03431	42.2415	51.0072	0.976682	1197.66
8/16/2006 10:37	11.9888	3.41594	8.79014	42.2415	51.3002	0.732511	1212.31
8/16/2006 10:37	11.9888	3.41594	10.9877	41.9973	51.0072	1.09877	1215.97
8/16/2006 10:37	11.9888	3.41594	10.7435	42.4857	50.8851	0.732511	1219.63
8/16/2006 10:37	11.9888	3.41594	10.9877	42.2415	50.9584	0.732511	1226.96
8/16/2006 10:38	11.9888	3.41594	10.7435	42.2415	50.9584	1.22085	1233.06
8/16/2006 10:38	11.885	3.41594	8.79014	42.2415	51.7397	0.610426	1228.18
8/16/2006 10:38	11.885	3.41594	9.03431	42.7298	51.8618	1.09877	1247.71
8/16/2006 10:38	11.885	3.41594	6.83677	43.4623	51.0316	0.610426	1250.15
8/16/2006 10:39	11.7843	3.41594	7.08094	43.4623	51.1537	0.976682	1250.15
8/16/2006 10:39	11.7843	3.41594	6.5926	42.7298	50.9584	0.610426	1255.04
8/16/2006 10:39	11.7843	3.41594	4.88341	42.7298	51.4223	1.09877	1262.36
8/16/2006 10:39	11.6683	3.52094	4.88341	42.974	51.2025	0.732511	1261.14

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8/16/2006 10:40	11.5676	3.52094	2.68587	43.2182	51.3246	1.09877	1259.92
8/16/2006 10:40	11.5676	3.52094	0.732511	43.4623	51.2025	0.610426	1269.69
8/16/2006 10:40	11.5676	3.52094	0.976682	43.4623	51.2025	1.09877	1270.91
8/16/2006 10:40	11.5676	3.52094	0.732511	43.4623	50.5921	0.732511	1274.57
8/16/2006 10:41	11.5676	3.52094	0.976682	43.4623	52.692	1.09877	1289.22
8/16/2006 10:41	11.6683	3.52094	2.93005	43.4623	52.7896	0.732511	1281.89
8/16/2006 10:41	11.6683	3.52094	2.68587	42.974	52.8385	0.732511	1292.88
8/16/2006 10:41	11.6683	3.52094	4.88341	43.4623	52.9606	1.09877	1297.77
8/16/2006 10:42	11.6683	3.42083	4.88341	43.9507	52.4478	0.610426	1296.54
8/16/2006 10:42	11.6683	3.42083	4.88341	43.4623	52.3257	0.854597	1298.99
8/16/2006 10:42	11.6683	3.42083	6.83677	43.4623	51.6909	0.854597	1308.75
8/16/2006 10:42	11.6683	3.42083	6.83677	43.4623	52.399	0.610426	1316.08
8/16/2006 10:43	11.6683	3.42083	4.88341	43.4623	51.642	0.854597	1322.18
8/16/2006 10:43	11.6683	3.42083	6.83677	44.1948	51.8618	0.854597	1328.29
8/16/2006 10:43	11.6683	3.42083	6.83677	44.1948	51.5932	0.854597	1331.95
8/16/2006 10:43	11.6683	3.42083	6.83677	44.6832	51.8374	0.732511	1331.95
8/16/2006 10:44	11.6683	3.42083	6.83677	44.6832	52.2525	0.610426	1339.27
8/16/2006 10:44	11.6683	3.42083	6.83677	45.4157	51.4467	0.732511	1349.04
8/16/2006 10:44	11.6683	3.42083	6.83677	45.904	51.9106	0.976682	1349.04
8/16/2006 10:44	11.6683	3.42083	6.83677	45.6599	51.4955	1.09877	1360.03
8/16/2006 10:45	11.6683	3.42083	6.83677	45.904	51.2025	0.732511	1368.58
8/16/2006 10:45	11.5676	3.42083	6.83677	45.904	51.3735	0.610426	1358.81
8/16/2006 10:45	11.5676	3.42083	6.83677	45.6599	51.1293	0.854597	1368.58
8/16/2006 10:45	11.5676	3.42083	6.83677	45.904	51.7397	1.09877	1383.23
8/16/2006 10:46	11.5676	3.42083	6.83677	45.904	51.9839	1.09877	1378.34
8/16/2006 10:46	11.5676	3.42083	6.5926	45.904	50.9095	0.732511	1390.55
8/16/2006 10:46	11.5676	3.42083	6.83677	45.6599	51.2758	0.732511	1380.78
8/16/2006 10:46	11.5676	3.42083	6.83677	45.6599	51.1537	0.854597	1389.33
8/16/2006 10:47	11.5676	3.42083	6.5926	46.3924	51.3002	1.09877	1410.08
8/16/2006 10:47	11.5676	3.42083	4.88341	46.3924	51.056	0.610426	1403.98
8/16/2006 10:47	11.5676	3.42083	4.88341	46.8807	51.7397	1.09877	1400.32
8/16/2006 10:47	11.4669	3.42083	4.88341	46.8807	51.3979	0.854597	1416.19
8/16/2006 10:48	11.4669	3.52094	4.88341	46.8807	51.3979	0.732511	1411.31
8/16/2006 10:48	11.4669	3.52094	2.93005	46.8807	51.5444	0.976682	1418.63
8/16/2006 10:48	11.4669	3.52094	2.93005	46.8807	51.7153	1.09877	1421.07
8/16/2006 10:48	11.4669	3.52094	2.93005	46.8807	51.4223	0.610426	1413.75
8/16/2006 10:49	11.4669	3.52094	4.88341	46.3924	51.2758	0.976682	1421.07
8/16/2006 10:49	11.4669	3.52094	3.17422	45.6599	51.5688	0.854597	1430.84
8/16/2006 10:49	11.4669	3.52094	2.93005	45.1715	50.7142	0.976682	1428.4
8/16/2006 10:49	11.4669	3.52094	2.93005	45.904	51.4955	0.732511	1427.18
8/16/2006 10:50	11.4669	3.52094	3.41839	45.6599	51.8862	0.732511	1438.16
8/16/2006 10:50	11.4669	3.52094	2.93005	45.6599	51.5932	0.976682	1446.71
8/16/2006 10:50	11.4669	3.52094	2.68587	46.3924	51.5932	0.976682	1450.37
8/16/2006 10:50	11.3661	3.52094	2.68587	46.3924	51.642	0.610426	1440.61

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8/16/2006 10:51	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:51	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:51	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:51	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:52	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:52	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:52	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:52	11.3661	3.52094	1322.92	46.3924	51.7885	-7.93554	1427.18
8/16/2006 10:53	12.883	2.68587	606.519	119.644	22.1707	0.854597	1552.92
8/16/2006 10:53	12.6541	3.01306	398.73	130.387	23.6845	0.732511	1593.21
8/16/2006 10:53	12.5443	3.21328	208.766	131.12	22.9276	0.732511	1555.37
8/16/2006 10:53	12.5443	3.21328	144.793	123.062	21.6579	0.488341	1491.88
8/16/2006 10:54	12.648	3.21328	142.84	113.295	20.2417	0.976682	1463.8
8/16/2006 10:54	12.648	3.31339	132.829	103.528	18.9965	0.732511	1405.2
8/16/2006 10:54	12.7487	3.31339	112.807	93.5173	17.8244	0.610426	1333.17
8/16/2006 10:54	12.7487	3.42083	88.878	84.483	16.628	0.854597	1269.69
8/16/2006 10:55	12.7487	3.42083	68.8561	75.6928	15.5292	1.09877	1244.05
8/16/2006 10:55	12.8525	3.42083	52.7408	67.391	12.9899	0.854597	1200.1
8/16/2006 10:55	12.8525	3.42083	38.8231	62.2635	11.0853	0.854597	1165.91
8/16/2006 10:55	12.9532	3.42083	30.7655	59.8218	9.40056	0.732511	1151.26
8/16/2006 10:56	12.8525	3.42083	24.9054	58.1126	8.08204	1.34294	1131.73
8/16/2006 10:56	12.8525	3.42083	18.8011	55.4267	6.56818	0.854597	1115.86
8/16/2006 10:56	12.8525	3.42083	16.8478	52.985	5.2985	0.976682	1108.53
8/16/2006 10:56	12.8525	3.42083	16.8478	51.52	3.97998	1.22085	1106.09
8/16/2006 10:57	12.8525	3.42083	18.8011	51.0316	2.63704	1.09877	1110.98
8/16/2006 10:57	12.9532	3.42083	26.8587	50.5433	1.48944	0.976682	1095.1
8/16/2006 10:57	13.057	3.42083	44.6832	50.5433	0.390673	1.09877	1086.56
8/16/2006 10:57	13.057	3.42083	58.8451	50.5433	-0.17092	1.22085	1098.77
8/16/2006 10:58	13.057	3.42083	64.7052	50.5433	-0.29301	1.22085	1114.64
8/16/2006 10:58	13.1577	3.42083	76.9137	50.5433	-0.17092	0.976682	1089
8/16/2006 10:58	13.1577	3.42083	90.8314	50.5433	-0.17092	1.09877	1103.65
8/16/2006 10:58	13.1577	3.42083	103.04	51.0316	-0.02442	0.976682	1097.55
8/16/2006 10:59	13.1577	3.42083	110.853	51.7641	-0.02442	1.34294	1085.34
8/16/2006 10:59	13.057	3.42083	114.76	52.2525	-0.48834	1.58711	1104.87
8/16/2006 10:59	13.057	3.42083	118.911	52.985	-0.36626	1.22085	1108.53
8/16/2006 10:59	13.057	3.42083	124.771	53.7175	-0.68368	1.34294	1117.08
8/16/2006 11:00	13.057	3.42083	122.818	53.4733	-0.41509	0.976682	1106.09
8/16/2006 11:00	13.057	3.42083	118.911	53.2292	-0.53718	1.58711	1125.63
8/16/2006 11:00	13.057	3.42083	112.807	54.2058	-0.41509	1.09877	1123.18
8/16/2006 11:00	13.057	3.42083	104.993	53.9617	1.36735	1.46502	1119.52
8/16/2006 11:01	13.057	3.42083	98.889	54.45	37.4313	1.58711	1115.86
8/16/2006 11:01	13.057	3.42083	96.6915	55.1825	48.9073	1.22085	1110.98
8/16/2006 11:01	12.9471	3.42083	82.7738	55.915	43.0228	1.09877	1107.31
8/16/2006 11:01	12.8464	3.42083	66.9027	56.4034	35.2582	1.22085	1114.64

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8/16/2006 11:02	12.8464	3.42083	58.8451	56.4034	29.74	1.22085	1121.96
8/16/2006 11:02	12.8464	3.42083	54.9383	55.6709	27.1762	1.09877	1121.96
8/16/2006 11:02	12.8464	3.42083	59.0892	56.1592	26.2483	1.34294	1132.95
8/16/2006 11:02	12.8464	3.42083	54.6942	56.8917	25.9553	1.46502	1124.4
8/16/2006 11:03	12.7426	3.42083	48.8341	56.8917	25.6135	1.58711	1126.85
8/16/2006 11:03	12.7426	3.42083	46.8807	56.8917	25.7356	1.58711	1142.72
8/16/2006 11:03	12.7426	3.42083	44.9274	57.3801	25.7356	1.58711	1153.71
8/16/2006 11:03	12.7426	3.52094	40.7765	57.6242	26.2483	1.46502	1150.04
8/16/2006 11:04	12.6419	3.52094	44.9274	58.1126	26.1262	1.34294	1150.04
8/16/2006 11:04	12.6419	3.52094	50.7874	58.8451	25.8576	1.09877	1134.17
8/16/2006 11:04	12.6419	3.52094	52.7408	58.8451	25.9797	1.34294	1141.5
8/16/2006 11:04	12.7518	3.52094	64.9493	58.6009	26.3948	1.34294	1151.26
8/16/2006 11:05	12.7518	3.52094	80.8204	59.3334	25.2716	1.09877	1147.6
8/16/2006 11:05	12.7518	3.42083	96.9357	59.3334	25.5158	1.46502	1158.59
8/16/2006 11:05	12.7518	3.42083	120.864	59.8218	25.6623	1.58711	1147.6
8/16/2006 11:05	12.8525	3.42083	144.793	60.0659	25.9797	1.22085	1145.16
8/16/2006 11:06	12.8525	3.42083	164.815	60.5543	25.9797	1.09877	1137.83
8/16/2006 11:06	12.8525	3.42083	188.744	61.0426	25.9797	1.58711	1150.04
8/16/2006 11:06	12.8525	3.42083	202.906	62.2635	26.2483	1.09877	1141.5
8/16/2006 11:06	12.8525	3.42083	202.906	62.996	26.1262	1.34294	1141.5
8/16/2006 11:07	12.7396	3.42083	214.87	63.2401	26.2483	1.46502	1152.48
8/16/2006 11:07	12.6389	3.42083	212.917	64.2168	26.1262	1.34294	1151.26
8/16/2006 11:07	12.6389	3.42083	198.999	65.1935	26.1262	0.976682	1162.25
8/16/2006 11:07	12.5382	3.52582	184.837	66.4144	26.2483	1.22085	1150.04
8/16/2006 11:08	12.5382	3.52582	166.768	67.6352	25.9309	1.34294	1152.48
8/16/2006 11:08	12.4374	3.52582	142.84	68.3677	25.9309	1.22085	1162.25
8/16/2006 11:08	12.4374	3.52582	134.782	68.8561	25.8088	0.976682	1178.12
8/16/2006 11:08	12.4374	3.52582	128.678	70.5653	25.8088	0.976682	1185.45
8/16/2006 11:09	12.4374	3.52582	124.771	71.7861	25.9309	1.34294	1175.68
8/16/2006 11:09	12.3367	3.52582	125.015	72.5186	25.9309	1.34294	1186.67
8/16/2006 11:09	12.3367	3.52582	126.724	73.4953	25.9309	1.09877	1187.89
8/16/2006 11:09	12.236	3.62837	118.911	74.472	26.0774	0.976682	1184.23
8/16/2006 11:10	12.236	3.62837	116.958	75.2045	26.0774	1.22085	1189.11
8/16/2006 11:10	12.236	3.62837	128.678	76.4253	25.8332	1.34294	1190.33
8/16/2006 11:10	12.236	3.62837	128.678	77.1579	25.8332	1.46502	1196.44
8/16/2006 11:10	12.236	3.62837	120.864	78.1345	26.0774	1.09877	1204.98
8/16/2006 11:11	12.236	3.62837	123.062	78.867	25.9553	1.22085	1206.2
8/16/2006 11:11	12.236	3.62837	140.886	79.3554	25.8332	1.46502	1213.53
8/16/2006 11:11	12.236	3.62837	162.862	80.5762	26.2239	1.09877	1204.98
8/16/2006 11:11	12.236	3.62837	164.815	81.5529	26.346	1.34294	1219.63
8/16/2006 11:12	12.236	3.62837	174.582	82.2854	26.1751	1.09877	1208.64
8/16/2006 11:12	12.236	3.62837	217.068	82.2854	26.4925	1.34294	1217.19
8/16/2006 11:12	12.236	3.62837	246.856	83.0179	26.639	1.34294	1235.5
8/16/2006 11:12	12.236	3.62837	258.821	83.5063	26.5169	1.22085	1231.84

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8/16/2006 11:13	12.236	3.62837	261.018	83.9946	26.9808	1.46502	1234.28
8/16/2006 11:13	12.1292	3.62837	280.796	84.7271	26.6878	0.976682	1246.49
8/16/2006 11:13	12.1292	3.62837	288.854	85.7038	26.6878	1.46502	1255.04
8/16/2006 11:13	12.1292	3.62837	298.62	86.6805	25.9553	1.22085	1248.93
8/16/2006 11:14	12.1292	3.62837	304.969	86.9247	26.1018	1.22085	1270.91
8/16/2006 11:14	12.1292	3.62837	306.922	87.6572	26.4437	1.22085	1269.69
8/16/2006 11:14	12.1292	3.62837	300.818	87.6572	26.4437	0.976682	1259.92
8/16/2006 11:14	12.0284	3.62837	281.04	88.1455	26.5657	1.22085	1279.45
8/16/2006 11:15	12.0284	3.62837	254.914	88.6339	26.7611	1.46502	1296.54
8/16/2006 11:15	12.0284	3.62837	246.856	88.878	26.4437	1.22085	1286.78
8/16/2006 11:15	12.0284	3.62837	254.67	89.3664	26.4437	0.976682	1272.13
8/16/2006 11:15	12.0284	3.62837	252.716	89.8547	26.4437	1.09877	1298.99
8/16/2006 11:16	11.9216	3.62837	238.799	90.5872	26.5902	1.34294	1297.77
8/16/2006 11:16	11.9216	3.62837	230.741	90.5872	26.7367	1.34294	1422.29
8/16/2006 11:16	11.9216	3.62837	230.985	91.0756	26.6878	1.22085	1285.56
8/16/2006 11:16	11.9216	3.62837	226.834	91.8081	26.6634	0.976682	1300.21
8/16/2006 11:17	11.6958	3.62837	220.974	92.2964	26.5413	1.22085	1384.45
8/16/2006 11:17	11.6958	3.62837	194.848	92.7848	26.6878	1.22085	1314.86
8/16/2006 11:17	11.6958	3.62837	156.757	94.0056	26.5413	1.22085	1346.6
8/16/2006 11:17	11.6958	3.62837	136.98	94.7381	26.2239	0.976682	1331.95
8/16/2006 11:18	11.6958	3.62837	132.829	94.0056	26.0774	1.34294	1325.85
8/16/2006 11:18	11.6958	3.62837	132.829	94.0056	26.0774	1.22085	1344.16
8/16/2006 11:18	11.6958	3.72848	128.678	94.7381	26.4437	0.976682	1344.16
8/16/2006 11:18	11.6958	3.72848	140.886	95.7148	26.5657	1.22085	1352.7
8/16/2006 11:19	11.6958	3.72848	152.851	96.2031	26.5413	1.34294	1364.91
8/16/2006 11:19	11.6958	3.72848	172.873	96.2031	27.1273	1.34294	1369.8
8/16/2006 11:19	11.6958	3.72848	212.917	96.9357	26.8343	0.976682	1366.13
8/16/2006 11:19	11.6958	3.72848	236.845	97.424	27.225	1.09877	1364.91
8/16/2006 11:20	11.6958	3.72848	240.996	98.1565	27.3471	1.34294	1391.77
8/16/2006 11:20	11.6958	3.72848	242.95	98.6449	27.3471	1.46502	1380.78
8/16/2006 11:20	11.6958	3.72848	244.903	98.889	27.4692	1.34294	1364.91
8/16/2006 11:20	11.6958	3.62593	274.936	99.3774	27.4692	1.09877	1375.9
8/16/2006 11:21	11.6958	3.62593	304.969	99.8657	27.7378	1.58711	1380.78
8/16/2006 11:21	11.6958	3.62593	340.862	99.8657	27.4448	1.58711	1405.2
8/16/2006 11:21	11.6958	3.62593	356.977	100.598	27.5913	1.46502	1410.08
8/16/2006 11:21	11.6958	3.62593	348.92	101.575	27.4448	1.22085	1408.86
8/16/2006 11:22	11.595	3.62593	356.733	102.307	27.3227	1.46502	1416.19
8/16/2006 11:22	11.595	3.62593	354.78	103.04	27.3471	1.34294	1410.08
8/16/2006 11:22	11.4913	3.62593	312.782	103.528	27.225	1.09877	1414.97
8/16/2006 11:22	11.4913	3.62593	282.749	103.528	27.3471	1.09877	1413.75
8/16/2006 11:23	11.4913	3.62593	282.505	104.261	27.4692	1.34294	1447.93
8/16/2006 11:23	11.4913	3.62593	278.843	104.749	27.7378	1.22085	1438.16
8/16/2006 11:23	11.3906	3.72604	232.939	105.97	27.1518	1.22085	1447.93
8/16/2006 11:23	11.3906	3.72604	184.837	105.97	27.1518	0.976682	1440.61

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8/16/2006 11:24	11.3906	3.72604	156.757	106.458	27.0297	0.976682	1439.38
8/16/2006 11:24	11.2868	3.72604	142.84	107.435	27.0297	1.09877	1458.92
8/16/2006 11:24	11.2868	3.72604	126.724	108.9	27.2983	1.46502	1449.15
8/16/2006 11:24	11.2868	3.72604	108.656	109.144	27.4692	0.976682	1451.59
8/16/2006 11:25	11.1861	3.72604	110.853	109.144	27.0785	1.34294	1469.91
8/16/2006 11:25	11.1861	3.72604	138.689	109.388	27.3471	1.22085	1473.57
8/16/2006 11:25	11.1861	3.72604	166.768	110.365	27.6401	1.34294	1474.79
8/16/2006 11:25	11.1861	3.72604	200.952	111.83	27.6401	0.976682	1490.66
8/16/2006 11:26	11.2868	3.72604	260.774	112.807	28.2994	1.22085	1485.78
8/16/2006 11:26	11.2868	3.72604	308.876	112.807	28.1773	0.976682	1331.95
8/16/2006 11:26	11.2868	3.72604	308.876	113.295	28.4214	1.46502	1476.01
8/16/2006 11:26	11.2868	3.72604	320.84	114.028	28.2994	0.976682	1441.83
8/16/2006 11:27	11.2868	3.72604	332.804	114.516	28.4459	1.22085	1501.65
8/16/2006 11:27	11.2868	3.72604	352.826	115.248	28.0552	1.46502	1505.31
8/16/2006 11:27	11.2868	3.72604	362.837	116.469	28.397	0.976682	1500.43
8/16/2006 11:27	11.2868	3.72604	366.988	116.225	28.2505	1.22085	1501.65
8/16/2006 11:28	11.2868	3.72604	374.802	116.225	28.2505	1.22085	1526.07
8/16/2006 11:28	11.1861	3.72604	368.697	117.202	28.2505	0.854597	1521.18
8/16/2006 11:28	11.1861	3.72604	340.862	117.446	28.2749	1.34294	1546.82
8/16/2006 11:28	11.1861	3.72604	306.922	118.178	28.2749	0.854597	1552.92
8/16/2006 11:29	11.0762	3.72604	256.867	118.911	27.4692	1.34294	1546.82
8/16/2006 11:29	11.0762	3.72604	202.906	119.888	27.7378	0.854597	1528.51
8/16/2006 11:29	10.9755	3.72604	164.815	120.376	27.7378	1.34294	1543.16
8/16/2006 11:29	10.9755	3.72604	144.793	121.841	27.7378	0.854597	1559.03
8/16/2006 11:30	10.9755	3.72604	140.886	121.353	27.7378	1.34294	1567.57
8/16/2006 11:30	10.9755	3.72604	160.664	121.841	27.7622	0.854597	1549.26
8/16/2006 11:30	10.9755	3.72604	172.873	122.818	27.7622	1.09877	1557.81
8/16/2006 11:30	10.8717	3.72604	172.628	124.039	27.6401	1.34294	1570.02
8/16/2006 11:31	10.8717	3.72604	186.79	124.527	28.0063	0.854597	1585.89
8/16/2006 11:31	10.8717	3.72604	206.812	124.771	28.1284	0.976682	1563.91
8/16/2006 11:31	10.8717	3.72604	216.823	124.527	28.0063	1.34294	1600.54
8/16/2006 11:31	10.8717	3.72604	292.76	125.992	27.9819	1.22085	1573.68
8/16/2006 11:32	10.9877	3.72604	406.788	127.701	28.3482	0.976682	1584.67
8/16/2006 11:32	10.9877	3.72604	480.772	127.945	28.3482	1.34294	1587.11
8/16/2006 11:32	10.9877	3.72604	482.237	129.41	28.4947	1.34294	1627.4
8/16/2006 11:32	10.9877	3.72604	460.75	130.631	28.4947	1.09877	1616.41
8/16/2006 11:33	10.9877	3.72604	422.659	130.631	28.4947	0.976682	1600.54
8/16/2006 11:33	10.8839	3.72604	366.744	129.899	28.4947	1.09877	1610.3
8/16/2006 11:33	10.8839	3.72604	336.711	131.12	28.2994	0.854597	1628.62
8/16/2006 11:33	10.7832	3.72604	330.851	132.096	27.9819	1.09877	1645.71
8/16/2006 11:34	10.7832	3.72604	284.703	133.317	27.9819	1.34294	1613.97
8/16/2006 11:34	10.6825	3.82615	230.741	135.27	27.7133	1.09877	1623.73
8/16/2006 11:34	10.5756	3.82615	202.661	136.003	27.9819	0.854597	1644.49
8/16/2006 11:34	10.5756	3.82615	196.801	136.491	27.9819	0.854597	1655.48

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8/16/2006 11:35	10.5756	3.82615	196.801	136.247	27.9819	1.09877	1650.59
8/16/2006 11:35	10.5756	3.82615	198.755	137.468	27.7378	1.34294	1665.24
8/16/2006 11:35	10.5756	3.82615	192.895	138.2	27.7133	1.09877	1671.35
8/16/2006 11:35	10.5756	3.82615	182.884	138.689	27.7133	0.854597	1650.59
8/16/2006 11:36	10.5756	3.82615	176.779	138.689	27.8354	1.22085	1661.58
8/16/2006 11:36	10.5756	3.82615	196.801	139.421	27.9819	1.22085	1684.78
8/16/2006 11:36	10.5756	3.82615	222.683	140.398	28.2749	0.854597	1670.13
8/16/2006 11:36	10.5756	3.82615	296.911	142.107	28.5435	1.09877	1690.88
8/16/2006 11:37	10.5756	3.72604	390.673	142.107	28.7877	1.09877	1705.53
8/16/2006 11:37	10.5756	3.72604	466.854	142.107	28.7877	1.46502	1690.88
8/16/2006 11:37	10.5756	3.72604	494.933	144.061	28.7877	1.34294	1711.63
8/16/2006 11:37	10.5756	3.72604	502.747	145.77	28.7877	0.976682	1699.43
8/16/2006 11:38	10.5756	3.72604	506.409	147.479	28.7877	0.976682	1729.95
8/16/2006 11:38	10.5756	3.72604	488.829	148.7	28.7877	0.976682	1744.6
8/16/2006 11:38	10.5756	3.72604	460.75	149.188	28.7877	1.22085	1716.52
8/16/2006 11:38	10.4688	3.72604	408.985	149.921	28.2261	1.22085	1716.52
8/16/2006 11:39	10.3681	3.82859	308.876	150.653	27.8354	1.09877	1747.04
8/16/2006 11:39	10.3681	3.82859	236.845	151.63	27.8354	0.732511	1717.74
8/16/2006 11:39	10.2674	3.82859	209.01	152.118	27.8354	2.31962	1717.74
8/16/2006 11:39	12.3916	1.36247	144.793	117.934	14.5037	2.56379	1748.26
8/16/2006 11:50	9.77903	3.84568	278.843	148.7	28.8854	0.976682	2042.49
8/16/2006 11:50	9.56538	3.94824	362.837	181.419	29.447	1.09877	2032.72
8/16/2006 11:50	9.46466	3.94824	386.766	192.895	29.5935	0.976682	2004.64
8/16/2006 11:50	9.36394	3.94824	390.673	199.487	29.5935	1.09877	2040.04
8/16/2006 11:51	9.36394	3.94824	386.766	202.906	29.5935	0.976682	2043.71
8/16/2006 11:51	9.36394	3.94824	394.579	206.812	29.5935	0.976682	2058.36
8/16/2006 11:51	9.36394	3.94824	370.407	209.498	29.5446	0.854597	2063.24
8/16/2006 11:51	9.36394	3.94824	402.881	211.696	29.4714	0.854597	2036.38
8/16/2006 11:52	9.36394	3.94824	470.761	213.405	29.3249	0.732511	2055.92
8/16/2006 11:52	9.36394	3.94824	493.224	215.847	29.2028	1.09877	2110.85
8/16/2006 11:52	9.26322	3.94824	512.758	226.834	28.69	1.34294	2121.84
8/16/2006 11:52	9.26322	3.94824	566.72	231.229	28.5679	1.34294	2115.74
8/16/2006 11:53	9.26322	3.94824	620.925	234.159	28.397	1.22085	2093.76
8/16/2006 11:53	9.26322	3.94824	666.829	236.845	28.2749	1.22085	2058.36
8/16/2006 11:53	9.1625	3.94824	696.862	237.089	28.4459	1.34294	2103.53
8/16/2006 11:53	9.1625	3.94824	738.86	238.066	28.5679	1.09877	2123.06
8/16/2006 11:54	9.1625	3.94824	774.997	241.729	28.69	0.976682	2114.52
8/16/2006 11:54	9.1625	3.94824	756.928	241.729	28.5435	1.46502	2094.98
8/16/2006 11:54	9.06178	3.94824	704.676	240.02	28.5435	1.09877	2119.4
8/16/2006 11:54	9.06178	3.94824	714.931	239.775	28.4214	1.34294	2127.95
8/16/2006 11:55	8.95495	4.04835	632.646	243.926	28.2994	1.34294	2126.72
8/16/2006 11:55	8.85423	4.04835	482.725	247.1	27.8843	0.976682	2147.48
8/16/2006 11:55	8.85423	4.04835	404.835	248.81	27.8843	1.22085	2182.88
8/16/2006 11:55	8.85423	4.04835	414.846	251.007	27.8843	1.34294	2176.78

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8/16/2006 11:56	8.85423	4.04835	426.81	253.937	27.7622	0.976682	2198.75
8/16/2006 11:56	8.85423	4.04835	410.695	256.867	27.7622	1.09877	2212.18
8/16/2006 11:56	8.75351	4.04835	402.881	259.309	27.6401	1.46502	2214.63
8/16/2006 11:56	8.75351	4.04835	388.719	261.751	27.9819	1.22085	2190.21
8/16/2006 11:57	8.75351	4.04835	446.832	264.192	28.3238	0.976682	2217.07
8/16/2006 11:57	8.75351	4.04835	523.013	264.437	28.5924	1.34294	2219.51
8/16/2006 11:57	8.75351	4.04835	562.813	265.902	28.5924	1.09877	2223.17
8/16/2006 11:57	8.75351	4.04835	570.87	268.099	28.5435	1.58711	2242.71
8/16/2006 11:58	8.75351	4.04835	595.043	269.076	28.397	1.09877	2245.15
8/16/2006 11:58	8.75351	4.04835	714.931	271.029	28.397	1.46502	2232.94
8/16/2006 11:58	8.75351	4.04835	792.821	273.471	28.69	1.09877	2163.35
8/16/2006 11:58	8.75351	4.04835	785.008	275.668	29.0074	1.34294	2112.07
8/16/2006 11:59	8.75351	4.04835	800.635	276.889	28.8854	1.22085	2037.6
8/16/2006 11:59	8.75351	4.04835	827.005	277.622	28.8854	1.34294	1964.35
8/16/2006 11:59	8.75351	4.04835	850.934	278.843	28.7389	1.22085	1922.84
8/16/2006 11:59	8.65279	4.04835	844.83	281.04	28.7389	1.46502	1900.87
8/16/2006 12:00	8.65279	4.04835	852.887	283.97	28.6168	1.09877	1887.44
8/16/2006 12:00	8.65279	4.04835	832.865	285.679	28.7389	1.46502	1853.25
8/16/2006 12:00	8.54902	4.04835	904.896	287.633	28.7389	1.09877	1845.93
8/16/2006 12:00	8.54902	4.04835	984.739	289.83	28.2261	1.58711	1845.93
8/16/2006 12:01	8.4483	4.04835	904.896	291.784	28.3482	1.09877	1832.5
8/16/2006 12:01	8.34758	4.04835	782.81	292.76	28.2261	1.58711	1816.63
8/16/2006 12:01	8.34758	4.04835	742.766	292.76	28.104	1.09877	1874.01
8/16/2006 12:01	8.34758	4.04835	754.731	292.76	27.8598	1.46502	1866.68
8/16/2006 12:02	8.34758	4.04835	754.731	294.714	28.0063	1.09877	1853.25
8/16/2006 12:02	8.24686	4.1509	565.01	295.69	28.0063	1.34294	1834.94
8/16/2006 12:02	8.14614	4.25101	326.944	295.202	28.1284	0.976682	1841.05
8/16/2006 12:02	8.14614	4.25101	198.755	292.028	28.2505	1.22085	1830.06
8/16/2006 12:03	8.14614	4.25101	160.908	289.83	28.8854	1.46502	1809.3
8/16/2006 12:03	8.24686	4.1509	196.801	288.609	29.2516	1.09877	1799.54
8/16/2006 12:03	8.24686	4.1509	264.925	288.365	29.2516	1.22085	1787.33
8/16/2006 12:03	8.34758	4.05079	324.747	289.342	29.1051	1.09877	1777.56
8/16/2006 12:04	8.34758	4.05079	390.917	289.83	28.8854	1.34294	1760.47
8/16/2006 12:04	8.34758	3.95068	468.807	290.319	28.7144	1.34294	1751.92
8/16/2006 12:04	8.34758	3.95068	496.887	291.051	28.8365	1.22085	1740.94
8/16/2006 12:04	8.34758	3.95068	486.632	292.272	28.8365	1.34294	1734.83
8/16/2006 12:05	8.34758	3.95068	466.854	292.516	28.5679	1.09877	1720.18
8/16/2006 12:05	8.34758	3.95068	438.774	293.981	28.5679	1.34294	1720.18
8/16/2006 12:05	8.34758	3.95068	492.98	296.179	28.4459	1.22085	1715.3
8/16/2006 12:05	8.34758	3.95068	572.824	299.109	28.4459	1.46502	1729.95
8/16/2006 12:06	8.34758	3.95068	608.961	301.062	28.4459	1.09877	1726.28
8/16/2006 12:06	8.24686	3.95068	618.972	303.016	28.2994	0.976682	1722.62
8/16/2006 12:06	8.24686	3.95068	600.903	303.992	28.4459	0.976682	1731.17
8/16/2006 12:06	8.14614	3.95068	598.95	305.701	28.4459	1.34294	1737.27

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8/16/2006 12:07	8.14614	3.95068	650.958	308.876	28.0308	1.46502	1737.27
8/16/2006 12:07	8.14614	3.95068	614.821	311.806	28.2749	0.854597	1743.38
8/16/2006 12:07	8.14614	3.95068	513.002	312.782	28.397	1.09877	1749.48
8/16/2006 12:07	8.04542	3.95068	424.857	314.003	28.2505	1.34294	1753.14
8/16/2006 12:08	8.04542	3.95068	372.848	315.712	28.1284	1.22085	1751.92
8/16/2006 12:08	8.04542	3.95068	352.826	317.422	28.0063	1.34294	1758.03
8/16/2006 12:08	7.94164	3.95068	316.933	320.596	28.1529	0.976682	1786.11
8/16/2006 12:08	7.94164	3.95068	284.947	323.282	28.2994	1.09877	1784.89
8/16/2006 12:09	7.94164	3.95068	288.854	325.723	28.1529	0.976682	1775.12
8/16/2006 12:09	7.84092	3.95068	294.958	327.433	28.0308	1.09877	1784.89
8/16/2006 12:09	7.84092	4.05079	300.818	329.386	27.9087	0.854597	1783.66
8/16/2006 12:09	7.84092	4.05079	288.854	332.072	28.2505	0.976682	1797.09
8/16/2006 12:10	7.84092	4.05079	286.9	335.002	28.2505	1.34294	1819.07
8/16/2006 12:10	7.84092	4.05079	318.887	336.467	28.2505	1.22085	1815.41
8/16/2006 12:10	7.84092	4.05079	434.868	338.909	28.397	1.22085	1811.74
8/16/2006 12:10	7.84092	4.05079	522.769	341.839	28.2749	1.09877	1814.19
8/16/2006 12:11	7.84092	4.05079	556.953	345.257	28.1529	0.976682	1827.62
8/16/2006 12:11	7.84092	4.05079	556.953	346.478	27.8598	1.09877	1837.38
8/16/2006 12:11	7.84092	4.05079	528.873	347.699	28.1529	0.976682	1833.72
8/16/2006 12:11	7.7402	4.05079	513.002	351.361	28.1529	0.854597	1836.16
8/16/2006 12:12	7.7402	4.05079	510.805	354.78	28.1529	0.854597	1833.72
8/16/2006 12:12	7.7402	4.05079	506.898	355.756	28.2994	0.854597	1843.49
8/16/2006 12:12	7.7402	4.05079	490.538	356.489	28.2994	0.854597	1847.15
8/16/2006 12:12	7.7402	4.05079	452.448	358.198	28.2994	1.22085	1863.02
8/16/2006 12:13	7.7402	4.05079	462.703	360.396	28.1529	1.46502	1891.1
8/16/2006 12:13	7.7402	4.05079	482.725	362.837	28.2994	1.46502	1880.11
8/16/2006 12:13	7.63643	4.05079	522.769	366.744	28.1529	1.46502	1900.87
8/16/2006 12:13	7.63643	4.05079	496.887	370.407	28.4947	1.22085	1905.75
8/16/2006 12:14	7.63643	4.05079	449.029	373.337	28.3238	1.09877	1905.75
8/16/2006 12:14	7.63643	4.05079	428.519	374.069	28.3482	0.854597	1919.18
8/16/2006 12:14	7.63643	4.05079	428.763	374.069	28.2261	0.976682	1925.28
8/16/2006 12:14	7.63643	4.05079	412.892	375.29	28.104	1.09877	1937.49
8/16/2006 12:15	7.5235	4.05079	396.777	378.464	28.104	1.34294	1958.25
8/16/2006 12:15	7.5235	4.05079	384.813	382.127	28.104	1.22085	1964.35
8/16/2006 12:15	7.5235	4.05079	382.859	385.057	28.2505	1.09877	1958.25
8/16/2006 12:15	7.5235	4.05079	402.881	387.498	28.397	0.976682	1963.13
8/16/2006 12:16	7.41973	4.05079	536.931	389.452	28.397	0.976682	1971.68
8/16/2006 12:16	7.52045	4.05079	630.692	390.917	28.397	0.976682	1968.01
8/16/2006 12:16	7.52045	4.05079	678.794	393.847	28.2505	1.46502	1975.34
8/16/2006 12:16	7.52045	4.05079	692.956	397.998	28.2505	1.34294	1998.53
8/16/2006 12:17	7.52045	4.05079	708.827	400.684	28.2505	0.854597	2005.86
8/16/2006 12:17	7.52045	4.05079	686.851	401.416	28.2505	1.34294	2016.85
8/16/2006 12:17	7.41973	4.05079	664.876	403.858	28.397	0.854597	2024.17
8/16/2006 12:17	7.41973	4.05079	654.865	406.788	28.4703	1.34294	2036.38

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8/16/2006 12:18	7.41973	4.05079	630.936	410.45	28.5924	1.09877	2031.5
8/16/2006 12:18	7.41973	4.05079	586.986	415.09	28.2994	0.976682	2035.16
8/16/2006 12:18	7.31596	4.05079	560.127	418.264	28.1773	0.854597	2041.26
8/16/2006 12:18	7.31596	4.05079	488.829	419.973	27.9087	0.854597	2063.24
8/16/2006 12:19	7.21218	4.05079	402.881	420.95	27.8843	1.09877	2079.11
8/16/2006 12:19	7.21218	4.1509	356.977	423.147	27.7622	1.34294	2090.1
8/16/2006 12:19	7.21218	4.1509	328.898	425.345	27.7622	1.09877	2083.99
8/16/2006 12:19	7.21218	4.1509	293.005	428.519	28.1529	0.854597	2086.44
8/16/2006 12:20	7.11146	4.1509	322.793	431.693	28.0308	0.976682	2094.98
8/16/2006 12:20	7.11146	4.1509	362.837	435.112	28.7633	1.34294	2103.53
8/16/2006 12:20	7.11146	4.1509	480.772	438.042	28.4947	0.976682	2130.39
8/16/2006 12:20	7.21524	4.05079	670.736	441.704	28.2017	1.34294	2129.17
8/16/2006 12:21	7.21524	4.05079	802.832	443.169	28.0552	1.34294	2141.37
8/16/2006 12:21	7.21524	4.05079	814.797	444.879	28.0552	1.46502	2147.48
8/16/2006 12:21	7.21524	4.05079	814.797	445.611	28.0552	1.34294	2168.23
8/16/2006 12:21	7.21524	4.05079	786.961	448.053	28.0552	1.34294	2175.56
8/16/2006 12:22	7.21524	4.05079	758.882	452.936	27.9331	1.46502	2176.78
8/16/2006 12:22	7.21524	4.05079	756.684	457.575	28.0552	1.34294	2181.66
8/16/2006 12:22	7.21524	4.05079	784.764	460.017	27.5913	1.22085	2173.12
8/16/2006 12:22	7.11146	4.05079	730.802	460.017	27.5668	0.854597	2180.44
8/16/2006 12:23	7.11146	4.1509	598.706	462.215	27.6157	1.34294	2187.77
8/16/2006 12:23	7.01074	4.1509	514.955	467.098	27.7378	1.09877	2188.99
8/16/2006 12:23	7.01074	4.1509	496.887	468.807	27.4448	0.976682	2209.74
8/16/2006 12:23	7.01074	4.1509	482.725	470.272	27.6157	0.854597	2217.07
8/16/2006 12:24	7.01074	4.1509	432.67	471.737	27.8598	0.976682	2213.4
8/16/2006 12:24	7.01074	4.1509	378.708	474.667	27.8598	1.09877	2220.73
8/16/2006 12:24	7.01074	4.1509	362.837	475.156	27.7378	1.22085	2226.83
8/16/2006 12:24	7.01074	4.1509	392.87	476.621	27.8598	1.46502	2229.28
8/16/2006 12:25	7.01074	4.1509	434.868	478.574	28.0552	1.46502	2239.04
8/16/2006 12:25	7.01074	4.1509	462.947	482.237	28.0552	1.34294	2256.13
8/16/2006 12:25	7.01074	4.1509	554.755	484.434	27.9331	1.09877	2262.24
8/16/2006 12:25	7.01074	4.0459	810.89	488.097	27.811	1.46502	2275.67
8/16/2006 12:26	7.01074	4.0459	993.041	491.515	28.2017	1.34294	2275.67
8/16/2006 12:26	7.01074	4.0459	1067.02	493.224	28.0796	1.09877	2281.77
8/16/2006 12:26	7.01074	4.0459	1099.01	492.98	27.9575	0.976682	2279.33
8/16/2006 12:26	7.01074	4.0459	1068.98	494.201	27.8354	1.22085	2290.32
8/16/2006 12:27	7.01074	4.0459	884.874	495.178	27.5424	1.34294	2312.29
8/16/2006 12:27	7.01074	4.14846	718.838	496.398	27.7133	1.34294	2315.96
8/16/2006 12:27	7.01074	4.14846	696.862	496.887	27.8598	1.09877	2308.63
8/16/2006 12:27	7.01074	4.14846	712.978	500.549	27.6401	0.976682	2313.51
8/16/2006 12:28	6.91002	4.14846	659.016	502.747	27.3959	1.34294	2314.74
8/16/2006 12:28	6.8093	4.24857	496.887	502.259	27.3471	0.854597	2334.27
8/16/2006 12:28	6.8093	4.24857	362.837	502.259	27.3471	1.34294	2347.7
8/16/2006 12:28	6.8093	4.24857	316.933	504.456	27.3471	1.22085	2351.36

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8/16/2006 12:29	6.8093	4.24857	304.725	508.119	26.932	1.09877	2347.7
8/16/2006 12:29	6.8093	4.24857	356.977	506.654	27.0541	1.46502	2351.36
8/16/2006 12:29	6.91613	4.14601	514.711	504.7	27.518	1.09877	2350.14
8/16/2006 12:29	6.91613	4.14601	584.788	505.921	27.6401	1.34294	2377
8/16/2006 12:30	6.91613	4.14601	592.602	510.316	27.7622	1.22085	2372.12
8/16/2006 12:30	6.91613	4.14601	640.703	515.444	27.4692	1.22085	2389.21
8/16/2006 12:30	7.0199	4.14601	853.131	515.688	27.7133	1.46502	2385.55
8/16/2006 12:30	7.12367	4.0459	1214.99	515.444	27.4448	1.09877	2383.1
8/16/2006 12:31	7.12367	4.0459	1569.04	516.42	27.225	1.34294	2397.75
8/16/2006 12:31	7.12367	4.0459	1472.84	520.571	27.2006	1.46502	2420.95
8/16/2006 12:31	7.01074	4.14601	1085.09	522.281	27.0785	1.34294	2428.27
8/16/2006 12:31	7.01074	4.14601	838.97	520.571	27.0785	1.22085	2429.5
8/16/2006 12:32	7.01074	4.14601	720.791	520.327	27.0785	1.22085	2434.38
8/16/2006 12:32	6.79404	4.14601	602.857	523.013	26.2972	0.976682	2478.33
8/16/2006 12:32	6.91613	4.24612	468.807	524.234	26.3948	0.976682	2446.59
8/16/2006 12:32	6.91613	4.24612	386.766	524.722	26.3948	1.09877	2457.58
8/16/2006 12:33	6.91613	4.24612	370.895	525.211	26.5413	1.22085	2447.81
8/16/2006 12:33	6.91613	4.24612	382.859	526.187	26.5413	1.46502	2452.69
8/16/2006 12:33	6.91613	4.24612	410.939	527.408	26.6878	1.34294	2466.12
8/16/2006 12:33	6.91613	4.24612	526.92	530.582	27.2006	1.09877	2477.11
8/16/2006 12:34	7.01685	4.14113	756.928	532.536	27.3471	1.22085	2496.64
8/16/2006 12:34	7.01685	4.14113	928.824	533.512	27.4936	1.58711	2516.18
8/16/2006 12:34	7.01685	4.14113	986.937	534.489	27.4936	1.46502	2519.84
8/16/2006 12:34	7.01685	4.14113	1013.06	538.884	27.2006	0.976682	2511.29
8/16/2006 12:35	7.01685	4.14113	994.995	540.105	27.3471	1.22085	2500.31
8/16/2006 12:35	7.01685	4.14113	968.868	540.105	27.225	1.46502	2516.18
8/16/2006 12:35	7.01685	4.14113	954.951	541.57	27.3471	1.34294	2513.73
8/16/2006 12:35	7.01685	4.14113	850.934	544.744	27.6401	0.976682	2525.94
8/16/2006 12:36	7.01685	4.14113	706.629	545.477	27.225	1.09877	2554.02
8/16/2006 12:36	7.01685	4.14113	666.829	545.233	27.1762	0.976682	2554.02
8/16/2006 12:36	6.91613	4.14113	626.785	547.674	27.2983	1.22085	2563.79
8/16/2006 12:36	6.91613	4.14113	550.848	548.407	27.4448	1.22085	2561.35
8/16/2006 12:37	6.91613	4.24368	494.933	549.139	27.2983	1.46502	2556.46
8/16/2006 12:37	6.91613	4.24368	472.714	550.36	27.4448	1.34294	2571.11
8/16/2006 12:37	6.91613	4.24368	490.783	554.023	27.5668	1.46502	2562.57
8/16/2006 12:37	6.91613	4.24368	484.922	556.953	27.5913	1.22085	2578.44
8/16/2006 12:38	6.91613	4.24368	446.832	559.15	27.5913	1.22085	2584.54
8/16/2006 12:38	6.91613	4.24368	510.805	559.15	27.5913	0.976682	2589.43
8/16/2006 12:38	6.91613	4.24368	656.818	559.394	27.8598	1.22085	2601.64
8/16/2006 12:38	6.91613	4.24368	736.906	559.15	28.0063	1.46502	2601.64
8/16/2006 12:39	7.01685	4.24368	754.975	560.371	28.1529	1.34294	2605.3
8/16/2006 12:39	7.01685	4.24368	824.808	561.104	28.0063	1.09877	2622.39
8/16/2006 12:39	7.01685	4.24368	886.827	564.034	28.0063	0.976682	2643.14
8/16/2006 12:39	7.01685	4.24368	877.06	567.696	27.8843	1.46502	2645.59

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8/16/2006 12:40	7.01685	4.24368	850.69	568.185	28.0063	1.34294	2622.39
8/16/2006 12:40	7.01685	4.24368	844.83	568.185	27.8843	1.09877	2624.83
8/16/2006 12:40	7.01685	4.24368	850.934	570.626	27.7622	1.09877	2641.92
8/16/2006 12:40	7.01685	4.24368	794.775	571.847	27.9087	1.34294	2654.13
8/16/2006 12:41	7.01685	4.24368	773.044	572.824	27.9087	1.34294	2644.37
8/16/2006 12:41	7.01685	4.24368	764.986	573.556	27.9087	0.976682	2663.9
8/16/2006 12:41	7.01685	4.24368	734.709	575.754	28.0552	1.22085	2672.45
8/16/2006 12:41	7.01685	4.24368	760.835	577.219	28.0552	1.09877	2670
8/16/2006 12:42	7.01685	4.24368	736.906	577.463	28.2994	1.34294	2667.56
8/16/2006 12:42	7.01685	4.24368	660.481	576.975	28.2994	1.22085	2657.8
8/16/2006 12:42	7.01685	4.24368	628.739	579.172	28.1284	1.09877	2665.12
8/16/2006 12:42	7.01685	4.24368	622.879	581.614	28.2505	1.46502	2691.98
8/16/2006 12:43	7.01685	4.24368	605.054	582.835	28.397	1.34294	2688.32
8/16/2006 12:43	6.91308	4.24368	630.936	585.032	28.104	0.976682	2713.95
8/16/2006 12:43	6.91308	4.24368	624.832	588.207	27.9819	1.22085	2742.03
8/16/2006 12:43	6.91308	4.24368	590.892	588.207	28.104	1.34294	2718.84
8/16/2006 12:44	6.91308	4.24368	558.662	587.474	28.397	1.34294	2723.72
8/16/2006 12:44	7.01685	4.24368	510.805	588.451	28.2261	1.34294	2734.71
8/16/2006 12:44	7.01685	4.24368	500.549	590.404	28.2017	1.46502	2735.93
8/16/2006 12:44	7.01685	4.24368	513.002	590.892	28.2017	1.34294	2737.15
8/16/2006 12:45	7.01685	4.24368	491.027	589.183	28.2017	1.09877	2761.57
8/16/2006 12:45	7.01685	4.24368	481.016	590.892	28.2017	1.22085	2753.02
8/16/2006 12:45	7.01685	4.24368	618.972	593.822	28.0552	1.34294	2739.59
8/16/2006 12:45	7.11757	4.24368	796.728	596.264	28.2017	1.46502	2760.35
8/16/2006 12:46	7.11757	4.14113	948.846	598.462	28.0796	1.46502	2773.78
8/16/2006 12:46	7.11757	4.14113	1019.17	597.973	27.9575	1.34294	2761.57
8/16/2006 12:46	7.11757	4.14113	1008.91	601.148	27.9575	1.09877	2768.89
8/16/2006 12:46	7.11757	4.14113	962.764	604.81	28.104	1.46502	2783.54
8/16/2006 12:47	7.11757	4.14113	919.058	607.008	28.104	1.22085	2783.54
8/16/2006 12:47	7.11757	4.14113	898.791	607.252	27.7866	0.976682	2773.78
8/16/2006 12:47	7.11757	4.24368	746.917	608.473	27.7866	0.976682	2793.31
8/16/2006 12:47	7.01685	4.24368	586.986	608.717	27.7866	1.46502	2811.62
8/16/2006 12:48	7.01685	4.24368	510.805	608.229	28.1773	1.34294	2820.17
8/16/2006 12:48	7.01685	4.24368	470.761	608.717	27.9575	1.09877	2837.26
8/16/2006 12:48	7.01685	4.24368	450.983	609.938	27.7866	0.976682	2864.12
8/16/2006 12:48	6.91613	4.24368	420.706	614.089	27.9087	1.22085	2858.01
8/16/2006 12:49	6.91613	4.24368	420.706	618.728	27.9087	1.46502	2844.59
8/16/2006 12:49	6.91613	4.24368	486.876	622.39	28.4214	0.976682	2837.26
8/16/2006 12:49	6.91613	4.24368	562.813	622.879	28.2994	1.09877	2844.59
8/16/2006 12:49	6.91613	4.24368	622.879	623.123	28.1529	1.34294	2853.13
8/16/2006 12:50	7.01685	4.13136	988.89	624.588	28.4459	1.58711	2871.44
8/16/2006 12:50	7.11757	4.13136	1535.34	631.181	28.1529	1.22085	2871.44
8/16/2006 12:50	7.11757	4.02393	1772.92	637.041	27.7378	0.976682	2833.6
8/16/2006 12:50	7.11757	4.22903	1368.82	638.262	27.4936	0.976682	2853.13

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8/16/2006 12:51	7.01685	4.22903	814.553	634.599	27.3471	1.09877	2844.59
8/16/2006 12:51	7.01685	4.22903	550.604	633.622	27.4692	1.22085	2853.13
8/16/2006 12:51	7.01685	4.22903	490.783	635.087	27.7133	1.58711	2887.32
8/16/2006 12:51	7.01685	4.22903	488.585	637.529	27.4448	1.09877	2888.54
8/16/2006 12:52	7.01685	4.22903	448.785	638.262	27.5668	0.976682	2899.52
8/16/2006 12:52	7.01685	4.22903	392.626	637.529	27.6889	0.976682	2904.41
8/16/2006 12:52	7.01685	4.32914	364.791	638.017	27.811	1.34294	2894.64
8/16/2006 12:52	7.01685	4.32914	488.829	639.727	28.2505	1.46502	2921.5
8/16/2006 12:53	7.12062	4.21927	855.085	645.098	28.7144	1.09877	2914.17
8/16/2006 12:53	7.12062	4.21927	1152.97	649.249	28.7144	1.34294	2904.41
8/16/2006 12:53	7.12062	4.21927	1288.98	649.493	28.5924	1.09877	2923.94
8/16/2006 12:53	7.12062	4.21927	1090.47	651.203	28.4459	0.976682	2928.82
8/16/2006 12:54	6.99853	4.21927	774.753	656.574	28.1529	1.34294	2920.28
8/16/2006 12:54	6.99853	4.21927	605.054	662.923	28.4459	1.58711	2938.59
8/16/2006 12:54	6.99853	4.21927	564.522	665.12	28.4459	1.09877	2937.37
8/16/2006 12:54	6.99853	4.21927	575.021	666.585	28.5924	0.976682	2939.81
8/16/2006 12:55	6.99853	4.21927	620.925	664.632	28.2994	1.22085	2937.37
8/16/2006 12:55	6.99853	4.21927	642.657	666.341	28.4459	1.34294	2991.09
8/16/2006 12:55	6.99853	4.21927	676.596	669.759	28.2994	1.34294	2980.1
8/16/2006 12:55	6.99853	4.21927	664.632	675.131	28.2994	1.22085	2975.22
8/16/2006 12:56	6.99853	4.21927	630.936	678.55	28.2994	1.09877	2983.76
8/16/2006 12:56	6.99853	4.21927	644.854	678.55	28.0552	1.09877	2960.57
8/16/2006 12:56	6.99853	4.21927	648.761	676.352	28.0552	0.976682	2984.98
8/16/2006 12:56	6.99853	4.21927	662.679	675.131	28.1773	1.46502	3015.5
8/16/2006 12:57	6.99853	4.21927	672.69	676.84	28.2994	1.46502	3036.26
8/16/2006 12:57	6.99853	4.21927	704.92	678.55	28.1529	1.46502	3052.13
8/16/2006 12:57	6.99853	4.21927	752.533	680.503	28.1529	1.34294	3082.65
8/16/2006 12:57	6.99853	4.21927	734.953	680.991	27.9819	1.46502	3093.64
8/16/2006 12:58	6.99853	4.21927	666.829	682.212	28.104	1.34294	3113.17
8/16/2006 12:58	6.99853	4.21927	634.843	685.875	28.104	1.09877	3125.38
8/16/2006 12:58	6.99853	4.21927	660.725	688.805	28.2505	0.976682	3136.37
8/16/2006 12:58	6.99853	4.21927	664.876	688.072	28.2505	0.976682	3125.38
8/16/2006 12:59	6.99853	4.21927	625.076	688.561	28.1284	1.34294	3118.06
8/16/2006 12:59	6.99853	4.31937	574.777	689.781	28.104	1.46502	3141.25
8/16/2006 12:59	6.99853	4.31937	542.791	691.002	28.2505	1.09877	3135.15
8/16/2006 12:59	6.99853	4.31937	498.84	692.223	28.104	0.976682	3129.04
8/16/2006 13:00	6.99853	4.31937	468.807	692.956	28.2505	1.34294	3154.68
8/16/2006 13:00	6.99853	4.31937	584.788	696.374	28.5435	1.34294	3153.46
8/16/2006 13:00	6.99853	4.31937	754.731	701.746	28.5924	0.976682	3182.76
8/16/2006 13:00	6.99853	4.31937	786.961	702.234	28.4459	1.09877	3120.5
8/16/2006 13:01	7.09926	4.31937	748.871	701.746	28.4459	1.09877	3098.52
8/16/2006 13:01	7.09926	4.31937	691.002	704.432	28.3238	0.976682	3152.24
8/16/2006 13:01	7.09926	4.31937	618.728	709.559	28.9586	1.09877	3181.54
8/16/2006 13:01	6.99548	4.31937	578.928	711.024	28.8121	1.22085	3194.97

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8/16/2006 13:02	6.99548	4.31937	562.813	710.048	28.8121	1.22085	3214.5
8/16/2006 13:02	6.99548	4.31937	558.906	709.315	28.9342	1.58711	3247.47
8/16/2006 13:02	7.11146	4.09474	1127.09	711.757	28.6412	1.34294	3254.79
8/16/2006 13:02	7.11146	4.09474	1843	716.884	28.4947	1.09877	3197.41
8/16/2006 13:03	7.11146	4.19729	1757.05	721.768	28.3482	1.09877	3214.5
8/16/2006 13:03	7.00769	4.30472	1057.01	723.477	27.6401	1.09877	3232.82
8/16/2006 13:03	7.00769	4.30472	609.938	723.965	27.4936	0.976682	3234.04
8/16/2006 13:03	6.90392	4.40483	420.706	726.407	27.3471	0.976682	3223.05
8/16/2006 13:04	6.90392	4.40483	328.898	726.407	27.9087	1.09877	3251.13
8/16/2006 13:04	6.90392	4.40483	310.829	727.384	28.0552	1.34294	3241.36
8/16/2006 13:04	6.90392	4.29007	646.807	731.046	28.1529	1.22085	3237.7
8/16/2006 13:04	7.10841	4.18508	1152.97	732.511	28.4947	1.34294	3242.58
8/16/2006 13:05	7.10841	4.18508	1462.83	733	28.0552	1.09877	3256.01
8/16/2006 13:05	7.10841	4.18508	1443.05	734.22	28.0552	1.46502	3265.78
8/16/2006 13:05	7.10841	4.28519	1035.04	736.174	27.7622	1.46502	3251.13
8/16/2006 13:05	7.00769	4.3853	578.928	736.174	27.9087	1.46502	3265.78
8/16/2006 13:06	7.00769	4.3853	342.815	737.395	27.7866	1.34294	3245.03
8/16/2006 13:06	7.00769	4.3853	286.9	735.686	27.7866	1.46502	3252.35
8/16/2006 13:06	7.00769	4.3853	361.128	734.953	28.1529	1.58711	3267
8/16/2006 13:06	7.10841	4.28275	748.871	738.616	28.7877	1.46502	3263.34
8/16/2006 13:07	7.10841	4.1802	1112.93	744.476	28.2017	1.46502	3251.13
8/16/2006 13:07	7.10841	4.1802	1141.01	749.847	28.6168	1.22085	3253.57
8/16/2006 13:07	7.10841	4.1802	1030.64	750.824	28.6168	1.46502	3251.13
8/16/2006 13:07	7.00464	4.28031	874.863	754.731	28.2261	1.46502	3259.68
8/16/2006 13:08	7.00464	4.28031	698.572	756.928	28.4947	0.976682	3253.57
8/16/2006 13:08	7.00464	4.28031	572.824	759.126	28.9098	0.976682	3276.77
8/16/2006 13:08	7.00464	4.28031	496.887	759.37	28.9098	0.976682	3282.87
8/16/2006 13:08	7.00464	4.38042	452.692	759.858	29.0563	0.976682	3260.9
8/16/2006 13:09	7.00464	4.38042	408.985	760.347	28.9342	1.34294	3293.86
8/16/2006 13:09	7.00464	4.38042	402.881	758.882	29.3493	1.34294	3318.28
8/16/2006 13:09	7.00464	4.38042	410.695	757.661	29.3493	1.34294	3303.63
8/16/2006 13:09	7.10536	4.38042	476.621	758.149	29.6423	1.22085	3290.2
8/16/2006 13:10	7.10536	4.38042	550.848	759.858	29.6423	1.34294	3285.31
8/16/2006 13:10	7.10536	4.38042	576.731	762.3	29.6423	1.22085	3326.82
8/16/2006 13:10	7.10536	4.38042	636.796	767.672	29.4958	1.09877	3314.61
8/16/2006 13:10	7.10536	4.38042	626.785	768.649	29.4958	1.34294	3291.42
8/16/2006 13:11	7.10536	4.38042	608.961	765.474	29.6179	1.09877	3312.17
8/16/2006 13:11	7.10536	4.38042	592.846	765.23	29.4958	1.09877	3312.17
8/16/2006 13:11	7.10536	4.38042	550.604	770.358	29.6179	0.976682	3309.73
8/16/2006 13:11	7.10536	4.38042	468.807	774.509	29.862	1.09877	3284.09
8/16/2006 13:12	7.10536	4.38042	492.98	772.799	29.4958	0.976682	3301.18
8/16/2006 13:12	7.21524	4.38042	576.975	771.334	29.2272	1.09877	3312.17
8/16/2006 13:12	7.21524	4.38042	602.857	774.753	29.2516	1.09877	3313.39
8/16/2006 13:12	7.21524	4.38042	618.972	778.171	29.2516	0.976682	3318.28

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8/16/2006 13:13	7.11146	4.38042	640.947	779.88	29.1051	1.09877	3317.06
8/16/2006 13:13	7.11146	4.38042	600.659	782.81	29.3981	0.976682	3329.26
8/16/2006 13:13	7.11146	4.38042	532.536	784.52	29.3981	0.976682	3343.91
8/16/2006 13:13	7.11146	4.38042	492.736	786.473	29.276	0.976682	3310.95
8/16/2006 13:14	7.11146	4.38042	442.681	787.694	29.3981	1.09877	3325.6
8/16/2006 13:14	7.11146	4.38042	398.974	792.333	29.5446	0.854597	3389.09
8/16/2006 13:14	7.11146	4.38042	530.582	794.042	29.1539	1.09877	3341.47
8/16/2006 13:14	7.11146	4.38042	692.956	795.019	28.7389	1.58711	3339.03
8/16/2006 13:15	7.11146	4.38042	790.868	797.949	28.6168	1.46502	3362.23
8/16/2006 13:15	7.11146	4.38042	878.525	804.542	28.4947	1.09877	3357.34
8/16/2006 13:15	7.11146	4.38042	968.868	806.495	28.4947	1.34294	3350.02
8/16/2006 13:15	7.11146	4.28031	950.8	804.053	28.3482	1.34294	3334.15
8/16/2006 13:16	7.11146	4.28031	768.649	802.588	28.4703	1.46502	3371.99
8/16/2006 13:16	7.11146	4.28031	650.958	807.472	28.3482	1.46502	3376.88
8/16/2006 13:16	7.11146	4.38042	612.868	809.181	28.2505	1.09877	3362.23
8/16/2006 13:16	7.11146	4.38042	509.095	806.983	28.7144	0.976682	3361.01
8/16/2006 13:17	7.00464	4.38042	370.895	806.495	28.69	1.09877	3382.98
8/16/2006 13:17	7.00464	4.38042	287.144	806.495	28.69	1.34294	3409.84
8/16/2006 13:17	7.00464	4.38042	254.914	807.96	28.8365	1.34294	3400.07
8/16/2006 13:17	7.00464	4.38042	254.914	808.448	28.9586	1.22085	3364.67
8/16/2006 13:18	7.00464	4.38042	278.843	809.913	29.4714	0.976682	3342.69
8/16/2006 13:18	7.10536	4.38042	452.692	809.913	28.9098	1.09877	3371.99
8/16/2006 13:18	7.21218	4.38042	750.824	811.134	28.5191	1.22085	3371.99
8/16/2006 13:18	7.21218	4.28031	1050.91	815.041	28.2749	1.46502	3364.67
8/16/2006 13:19	7.21218	4.28031	1167.13	817.483	28.1529	1.34294	3379.32
8/16/2006 13:19	7.21218	4.28031	1013.06	816.994	28.0063	1.46502	3362.23
8/16/2006 13:19	7.21218	4.38042	768.893	816.262	28.1529	1.22085	3375.66
8/16/2006 13:19	7.11146	4.38042	558.906	820.413	28.2994	1.09877	3382.98
8/16/2006 13:20	7.01074	4.38042	452.936	820.901	28.2994	0.976682	3397.63
8/16/2006 13:20	7.01074	4.38042	396.777	821.634	28.2994	0.976682	3393.97
8/16/2006 13:20	7.01074	4.38042	348.675	825.296	28.2994	1.09877	3407.4
8/16/2006 13:20	7.01074	4.38042	318.642	827.249	28.2994	1.46502	3422.05
8/16/2006 13:21	7.01074	4.38042	314.98	821.878	28.4214	1.34294	3422.05
8/16/2006 13:21	7.01074	4.38042	321.084	814.797	28.4214	0.976682	3379.32
8/16/2006 13:21	7.01074	4.38042	306.922	814.064	28.4214	1.22085	3411.06
8/16/2006 13:21	7.01074	4.38042	356.977	817.483	28.5435	1.58711	3411.06
8/16/2006 13:22	7.21524	4.38042	464.656	820.413	28.5435	1.58711	3430.59
8/16/2006 13:22	7.21524	4.38042	570.87	820.901	28.397	1.46502	3453.79
8/16/2006 13:22	7.21524	4.38042	603.101	822.61	28.5435	1.34294	3407.4
8/16/2006 13:22	7.21524	4.38042	562.813	822.366	28.5435	1.09877	3411.06
8/16/2006 13:23	7.21524	4.38042	484.922	822.366	28.69	1.34294	3431.82
8/16/2006 13:23	7.21524	4.38042	430.717	824.564	28.69	1.46502	3475.77
8/16/2006 13:23	7.21524	4.38042	420.706	824.319	28.69	1.46502	3474.55
8/16/2006 13:23	7.21524	4.38042	414.846	825.052	28.9586	0.976682	3467.22

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8/16/2006 13:24	7.21524	4.38042	376.755	826.517	28.9586	1.34294	3433.04
8/16/2006 13:24	7.21524	4.38042	586.742	829.935	28.397	1.58711	3456.23
8/16/2006 13:24	7.31901	4.27542	999.145	832.377	27.8598	1.46502	3475.77
8/16/2006 13:24	7.31901	4.27542	1159.08	832.621	27.6889	1.22085	3467.22
8/16/2006 13:25	7.31901	4.38042	846.783	837.016	27.4448	0.976682	3445.24
8/16/2006 13:25	7.31901	4.38042	548.895	837.016	27.7133	1.34294	3473.32
8/16/2006 13:25	7.31901	4.38042	432.67	835.795	27.9575	1.46502	3486.75
8/16/2006 13:25	7.21829	4.38042	386.766	833.598	27.9575	1.46502	3468.44
8/16/2006 13:26	7.21829	4.38042	366.988	835.551	28.104	1.22085	3480.65
8/16/2006 13:26	7.21829	4.38042	366.744	836.284	28.2505	0.976682	3458.67
8/16/2006 13:26	7.21829	4.38042	354.78	836.284	28.2505	1.22085	3457.45
8/16/2006 13:26	7.21829	4.38042	338.909	836.772	28.5435	1.22085	3456.23
8/16/2006 13:27	7.21829	4.38042	308.876	837.505	28.2505	1.09877	3458.67
8/16/2006 13:27	7.21829	4.38042	296.911	837.26	28.397	1.46502	3485.53
8/16/2006 13:27	7.21829	4.38042	394.824	840.679	28.2505	1.34294	3498.96
8/16/2006 13:27	7.31901	4.38042	468.807	842.876	28.397	1.22085	3487.97
8/16/2006 13:28	7.31901	4.38042	528.873	843.365	28.397	1.46502	3508.73
8/16/2006 13:28	7.31901	4.38042	596.997	843.853	28.2749	0.976682	3470.88
8/16/2006 13:28	7.31901	4.38042	596.753	845.318	28.2505	1.34294	3473.32
8/16/2006 13:28	7.31901	4.38042	594.799	846.295	28.397	0.976682	3461.12
8/16/2006 13:29	7.31901	4.38042	570.87	844.586	28.2749	1.09877	3476.99
8/16/2006 13:29	7.31901	4.38042	532.78	844.586	28.397	1.34294	3505.07
8/16/2006 13:29	7.31901	4.38042	520.571	845.074	28.2505	0.976682	3525.82
8/16/2006 13:29	7.31901	4.38042	470.761	845.806	28.2505	1.46502	3518.5
8/16/2006 13:30	7.31901	4.38042	420.706	847.516	28.4214	0.976682	3511.17
8/16/2006 13:30	7.31901	4.38042	388.719	849.957	28.4214	1.46502	3525.82
8/16/2006 13:30	7.31901	4.38042	375.046	850.446	28.5435	1.34294	3500.18
8/16/2006 13:30	7.31901	4.38042	358.931	848.004	28.4214	1.09877	3518.5
8/16/2006 13:31	7.31901	4.38042	350.873	845.074	28.4459	1.46502	3547.8
8/16/2006 13:31	7.31901	4.38042	345.013	843.853	28.5679	1.34294	3529.48
8/16/2006 13:31	7.31901	4.38042	340.862	844.586	28.4214	0.976682	3536.81
8/16/2006 13:31	7.31901	4.38042	334.758	846.295	28.7144	1.09877	3523.38
8/16/2006 13:32	7.41973	4.38042	298.865	846.295	28.7144	1.34294	3518.5
8/16/2006 13:32	7.41973	4.38042	258.821	842.632	28.7144	1.46502	3534.37
8/16/2006 13:32	7.41973	4.38042	266.878	839.946	28.8365	0.976682	3511.17
8/16/2006 13:32	7.52045	4.38042	430.961	839.214	28.1529	1.58711	3500.18
8/16/2006 13:33	7.52045	4.38042	607.008	841.167	28.0063	1.22085	3527.04
8/16/2006 13:33	7.62117	4.38042	680.991	843.853	28.0063	0.976682	3534.37
8/16/2006 13:33	7.62117	4.38042	698.816	848.736	28.0063	1.34294	3518.5
8/16/2006 13:33	7.5174	4.38042	580.881	850.201	28.1284	1.34294	3546.58
8/16/2006 13:34	7.5174	4.38042	458.796	851.911	28.2505	1.46502	3523.38
8/16/2006 13:34	7.5174	4.38042	376.755	851.178	28.6656	0.976682	3511.17
8/16/2006 13:34	7.5174	4.38042	328.898	848.004	28.3482	1.34294	3528.26
8/16/2006 13:34	7.5174	4.38042	294.958	849.225	28.4703	1.34294	3519.72

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8/16/2006 13:35	7.5174	4.38042	288.854	853.62	28.5924	0.976682	3523.38
8/16/2006 13:35	7.5174	4.38042	276.889	856.794	28.6168	1.46502	3540.47
8/16/2006 13:35	7.5174	4.38042	252.716	857.038	28.4947	0.976682	3588.08
8/16/2006 13:35	7.5174	4.38042	242.95	857.282	28.4947	1.46502	3578.32
8/16/2006 13:36	7.5174	4.38042	258.821	859.236	28.4947	0.976682	3553.9
8/16/2006 13:36	7.61812	4.38042	290.807	858.992	28.4947	1.46502	3547.8
8/16/2006 13:36	7.61812	4.38042	336.955	854.352	28.3482	0.976682	3551.46
8/16/2006 13:36	7.61812	4.38042	408.741	852.643	28.0552	1.34294	3553.9
8/16/2006 13:37	7.72189	4.38042	416.799	850.934	28.3482	1.22085	3540.47
8/16/2006 13:37	7.72189	4.38042	360.884	851.178	28.0796	1.09877	3536.81
8/16/2006 13:37	7.72189	4.38042	346.966	851.422	28.0796	1.46502	3551.46
8/16/2006 13:37	7.72189	4.38042	331.095	852.887	28.0552	1.34294	3527.04
8/16/2006 13:38	7.62117	4.38042	295.202	853.376	28.0552	1.22085	3530.7
8/16/2006 13:38	7.72189	4.38042	294.958	853.864	28.2017	1.34294	3563.67
8/16/2006 13:38	7.72189	4.38042	324.991	854.108	28.2017	0.976682	3544.13
8/16/2006 13:38	7.72189	4.38042	332.804	853.376	28.0552	1.09877	3516.05
8/16/2006 13:39	7.72189	4.38042	478.818	853.131	27.3959	1.46502	3562.45
8/16/2006 13:39	7.72189	4.38042	686.851	857.527	27.0785	1.46502	3588.08
8/16/2006 13:39	7.82871	4.28031	864.852	862.654	26.9564	0.976682	3555.12
8/16/2006 13:39	7.82871	4.38042	720.791	861.677	27.0785	0.976682	3566.11
8/16/2006 13:40	7.82871	4.38042	442.681	856.062	27.7622	1.46502	3550.24
8/16/2006 13:40	7.82871	4.38042	362.837	853.376	28.0063	1.70919	3534.37
8/16/2006 13:40	9.54401	3.78953	382.615	601.636	32.7188	1.34294	3570.99
8/16/2006 13:40	10.2185	3.88963	240.996	415.578	39.4335	1.58711	3347.58
8/16/2006 13:41	10.2185	3.98974	78.867	369.674	42.9252	1.09877	3140.03
8/16/2006 13:41	10.014	4.08985	24.9054	361.616	44.8541	1.46502	3065.56
8/16/2006 13:41	10.014	4.18996	10.7435	352.094	46.4168	1.09877	3058.23
8/16/2006 13:41	9.91027	4.18996	4.88341	346.234	46.8075	1.46502	3030.16
8/16/2006 13:42	9.91027	4.18996	2.68587	341.839	46.8075	0.976682	3009.4
8/16/2006 13:42	9.91027	4.18996	2.68587	344.28	47.0028	1.46502	2999.63
8/16/2006 13:42	9.91027	4.18996	0.732511	343.548	47.6621	0.976682	2984.98
8/16/2006 13:42	9.91027	4.18996	0.732511	343.059	47.7842	1.46502	2976.44
8/16/2006 13:43	10.0324	4.08985	0.976682	340.862	46.7098	1.09877	2954.46
8/16/2006 13:43	10.2368	3.97998	2.68587	340.129	44.8053	0.976682	2942.25
8/16/2006 13:43	10.2368	3.87987	4.88341	340.374	43.0717	1.34294	2944.7
8/16/2006 13:43	10.5604	3.77487	6.83677	342.815	41.5578	1.22085	2936.15
8/16/2006 13:44	10.5604	3.77487	8.79014	343.548	40.6788	0.976682	2938.59
8/16/2006 13:44	10.6611	3.77487	10.9877	342.083	40.2637	1.34294	2921.5
8/16/2006 13:44	10.6611	3.67476	12.941	341.594	39.6289	0.976682	2910.51
8/16/2006 13:44	10.7649	3.67476	12.6969	340.618	39.2138	1.09877	2912.95
8/16/2006 13:45	10.7649	3.67476	14.8944	343.304	39.0917	1.46502	2917.84
8/16/2006 13:45	10.6641	3.67476	14.8944	346.234	39.5312	0.976682	2908.07
8/16/2006 13:45	10.6641	3.67476	16.8478	348.187	39.4335	1.09877	2901.97
8/16/2006 13:45	10.6641	3.67476	16.8478	348.675	38.8475	1.46502	2890.98

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8/16/2006 13:46	10.6641	3.67476	16.8478	348.431	39.5312	1.22085	2909.29
8/16/2006 13:46	10.6641	3.67476	14.6502	348.675	39.4824	0.976682	2900.74
8/16/2006 13:46	10.6641	3.67476	14.8944	346.722	39.5312	1.34294	2894.64
8/16/2006 13:46	10.6641	3.67476	14.6502	345.745	39.8486	0.976682	2900.74
8/16/2006 13:47	10.6641	3.67476	14.8944	345.745	40.0928	0.854597	2887.32
8/16/2006 13:47	10.6641	3.67476	14.8944	346.966	39.6289	1.34294	2892.2
8/16/2006 13:47	10.6641	3.67476	14.8944	346.478	39.4824	0.854597	2884.87
8/16/2006 13:47	10.7679	3.67476	14.8944	343.548	39.4824	1.22085	2887.32
8/16/2006 13:48	10.7679	3.67476	14.6502	342.327	39.4824	1.09877	2883.65
8/16/2006 13:48	10.7679	3.67476	14.8944	344.524	39.58	1.22085	2877.55
8/16/2006 13:48	10.7679	3.67476	14.8944	345.745	39.1649	0.976682	2884.87
8/16/2006 13:48	10.7679	3.67476	14.8944	342.815	39.0429	1.34294	2876.33
8/16/2006 13:49	10.8686	3.67476	12.941	340.129	39.0429	1.09877	2888.54
8/16/2006 13:49	10.8686	3.67476	12.941	339.397	38.8963	1.09877	2881.21
8/16/2006 13:49	10.8686	3.67476	12.941	339.885	39.58	1.34294	2893.42
8/16/2006 13:49	10.7649	3.67476	10.9877	340.374	39.58	1.09877	2876.33
8/16/2006 13:50	10.8808	3.67476	10.7435	341.106	39.4824	0.976682	2879.99
8/16/2006 13:50	10.774	3.67476	12.6969	342.815	39.5312	1.22085	2869
8/16/2006 13:50	10.774	3.67476	13.1852	344.769	39.0917	1.09877	2876.33
8/16/2006 13:50	10.774	3.67476	12.941	343.304	39.1894	1.09877	2872.67
8/16/2006 13:51	10.774	3.67476	10.7435	341.839	39.3359	0.732511	2881.21
8/16/2006 13:51	10.8778	3.67476	10.7435	341.106	39.0917	1.22085	2871.44
8/16/2006 13:51	10.9816	3.67476	10.9877	339.641	39.0917	1.22085	2878.77
8/16/2006 13:51	10.9816	3.67476	9.03431	336.467	39.5556	0.732511	2856.79
8/16/2006 13:52	10.9816	3.67476	8.79014	335.246	39.287	0.732511	2850.69
8/16/2006 13:52	10.9816	3.67476	8.79014	336.955	39.5068	1.22085	2864.12
8/16/2006 13:52	10.8778	3.67476	10.7435	338.664	39.2382	1.34294	2858.01
8/16/2006 13:52	10.9816	3.67476	10.7435	338.176	38.9696	1.22085	2860.46
8/16/2006 13:53	10.9816	3.67476	9.03431	338.664	39.2382	1.22085	2858.01
8/16/2006 13:53	11.0975	3.67476	8.79014	339.885	38.9452	0.854597	2839.7
8/16/2006 13:53	11.0975	3.67476	6.5926	339.397	39.4335	0.854597	2853.13
8/16/2006 13:53	10.9968	3.67476	8.79014	336.955	39.3847	1.09877	2853.13
8/16/2006 13:54	10.9968	3.67476	6.83677	335.734	38.994	1.22085	2849.47
8/16/2006 13:54	11.1006	3.67476	6.83677	335.002	39.4091	0.976682	2858.01
8/16/2006 13:54	10.9999	3.67476	6.83677	336.467	39.5556	0.854597	2844.59
8/16/2006 13:54	10.9999	3.67476	6.5926	338.176	39.4335	0.976682	2853.13
8/16/2006 13:55	10.9999	3.67476	6.83677	338.176	39.873	1.09877	2853.13
8/16/2006 13:55	11.1006	3.67476	6.83677	335.734	39.4824	1.22085	2848.25
8/16/2006 13:55	11.1006	3.67476	6.83677	334.513	39.3359	1.09877	2844.59
8/16/2006 13:55	11.1006	3.57466	8.79014	335.246	38.6522	0.854597	2851.91
8/16/2006 13:56	11.1006	3.57466	10.9877	335.002	38.701	1.22085	2836.04
8/16/2006 13:56	11.2105	3.57466	10.9877	335.002	38.0906	0.854597	2853.13
8/16/2006 13:56	11.2105	3.57466	10.7435	335.246	38.4813	1.22085	2844.59
8/16/2006 13:56	11.2105	3.57466	10.7435	335.002	38.2371	0.854597	2844.59

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8/16/2006 13:57	11.2105	3.57466	10.9877	335.002	38.5545	1.22085	2843.36
8/16/2006 13:57	11.2105	3.57466	10.9877	334.513	38.6766	0.732511	2848.25
8/16/2006 13:57	11.1067	3.57466	10.7435	335.002	38.8475	1.09877	2848.25
8/16/2006 13:57	11.1067	3.57466	10.9877	336.223	38.4324	0.976682	2853.13
8/16/2006 13:58	11.1067	3.57466	10.9877	336.467	38.3836	0.732511	2832.38
8/16/2006 13:58	11.1067	3.57466	10.7435	335.246	38.2371	0.854597	2850.69
8/16/2006 13:58	11.1067	3.57466	10.7435	335.246	38.5545	0.976682	2848.25
8/16/2006 13:58	11.2105	3.57466	8.79014	334.513	38.3836	0.610426	2840.92
8/16/2006 13:59	11.2105	3.57466	8.79014	332.804	38.2371	0.732511	2834.82
8/16/2006 13:59	11.2105	3.57466	8.79014	330.607	38.7987	0.732511	2842.14
8/16/2006 13:59	11.2105	3.57466	8.79014	331.095	38.7498	0.854597	2848.25
8/16/2006 13:59	11.2105	3.57466	9.03431	332.804	38.5057	0.854597	2834.82
8/16/2006 14:00	11.2105	3.57466	8.79014	331.583	38.6033	0.732511	2837.26
8/16/2006 14:00	11.2105	3.57466	9.03431	328.165	38.4813	1.09877	2833.6
8/16/2006 14:00	11.2105	3.57466	9.03431	329.386	38.7498	1.22085	2840.92
8/16/2006 14:00	11.2105	3.57466	9.03431	333.293	38.6278	1.09877	2843.36
8/16/2006 14:01	11.2105	3.57466	8.79014	336.467	38.2127	1.22085	2839.7
8/16/2006 14:01	11.2105	3.57466	8.79014	335.49	38.4813	1.34294	2845.81
8/16/2006 14:01	11.2105	3.57466	7.08094	334.513	38.2371	1.22085	2834.82
8/16/2006 14:01	11.3112	3.57466	6.83677	333.537	38.5545	1.09877	2843.36
8/16/2006 14:02	11.5309	3.46966	9.03431	332.072	36.5523	1.09877	2845.81
8/16/2006 14:02	11.5309	3.46966	10.7435	331.583	36.5523	1.09877	2829.94
8/16/2006 14:02	11.5309	3.46966	12.941	331.583	35.6245	0.854597	2840.92
8/16/2006 14:02	11.6317	3.46966	12.941	331.095	35.9419	0.854597	2831.16
8/16/2006 14:03	11.6317	3.46966	12.941	330.851	36.1861	0.732511	2837.26
8/16/2006 14:03	11.5279	3.46966	12.6969	332.316	36.0396	1.09877	2848.25
8/16/2006 14:03	11.5279	3.46966	14.8944	333.293	35.6	1.22085	2834.82
8/16/2006 14:03	11.5279	3.46966	14.8944	334.025	35.6	1.09877	2845.81
8/16/2006 14:04	11.5279	3.46966	14.8944	333.781	36.0884	0.976682	2848.25
8/16/2006 14:04	11.5279	3.46966	14.8944	332.316	36.1372	0.732511	2848.25
8/16/2006 14:04	11.5279	3.46966	14.8944	330.607	36.2837	0.854597	2850.69
8/16/2006 14:04	11.5279	3.46966	12.941	328.653	36.6988	1.09877	2845.81
8/16/2006 14:05	11.5279	3.46966	10.9877	329.142	36.5523	0.854597	2837.26
8/16/2006 14:05	11.5279	3.46966	10.7435	328.653	36.5523	0.976682	2838.48
8/16/2006 14:05	11.5279	3.56977	8.79014	326.944	37.0651	0.854597	2853.13
8/16/2006 14:05	11.4119	3.56977	8.79014	326.456	37.2116	0.732511	2845.81
8/16/2006 14:06	11.4119	3.56977	8.79014	327.921	37.236	1.09877	2932.49
8/16/2006 14:06	11.4119	3.56977	6.83677	331.583	37.236	0.732511	2849.47
8/16/2006 14:06	11.4119	3.56977	6.83677	334.513	37.0651	0.976682	2854.35
8/16/2006 14:06	11.5126	3.56977	6.83677	335.979	36.7965	0.976682	2845.81
8/16/2006 14:07	11.5126	3.56977	6.83677	338.176	36.3326	0.854597	2875.11
8/16/2006 14:07	11.5371	3.56977	4.63924	338.664	36.943	1.22085	2866.56
8/16/2006 14:07	11.5371	3.56977	4.88341	339.397	37.5778	0.610426	2872.67
8/16/2006 14:07	11.5371	3.56977	4.88341	341.106	37.6511	1.09877	2860.46

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8/16/2006 14:08	11.5371	3.56977	4.63924	342.815	36.9674	0.976682	2875.11
8/16/2006 14:08	11.6378	3.56977	4.88341	343.304	37.3825	0.610426	2866.56
8/16/2006 14:08	11.6378	3.56977	4.63924	344.036	37.2604	0.610426	2875.11
8/16/2006 14:08	11.6378	3.56977	4.63924	346.478	37.8464	0.854597	2860.46
8/16/2006 14:09	11.5309	3.56977	4.88341	346.966	38.0418	0.854597	2879.99
8/16/2006 14:09	11.5309	3.56977	4.88341	349.164	37.4557	0.976682	2872.67
8/16/2006 14:09	11.6317	3.56977	4.88341	349.896	37.8464	0.854597	2864.12
8/16/2006 14:09	11.6317	3.56977	4.63924	350.385	37.4069	0.610426	2878.77
8/16/2006 14:10	11.6317	3.56977	4.88341	351.117	37.7976	0.976682	2883.65
8/16/2006 14:10	11.6317	3.56977	4.88341	351.85	36.5279	0.854597	2873.89
8/16/2006 14:10	11.7324	3.46966	6.83677	352.338	35.9175	1.22085	2881.21
8/16/2006 14:10	11.7324	3.46966	8.79014	351.117	35.9419	1.09877	2875.11
8/16/2006 14:11	11.8331	3.46966	8.79014	349.652	35.7954	1.09877	2892.2
8/16/2006 14:11	11.8331	3.46966	9.03431	349.164	35.9175	1.09877	2894.64
8/16/2006 14:11	11.8362	3.46966	8.79014	348.431	35.5024	1.22085	2886.09
8/16/2006 14:11	11.8362	3.46966	10.7435	348.675	35.7466	0.976682	2904.41
8/16/2006 14:12	11.8362	3.46966	12.941	348.675	35.0385	0.854597	2882.43
8/16/2006 14:12	11.9369	3.46966	14.6502	349.896	35.2338	1.09877	2898.3
8/16/2006 14:12	11.9369	3.46966	16.8478	346.722	34.7943	1.22085	2899.52
8/16/2006 14:12	11.9369	3.46966	14.8944	344.524	34.9408	1.09877	2904.41
8/16/2006 14:13	11.9369	3.46966	14.8944	345.501	34.7943	0.854597	2888.54
8/16/2006 14:13	12.0529	3.46966	14.6502	351.117	34.3548	0.732511	2878.77
8/16/2006 14:13	11.9521	3.46966	14.6502	354.535	35.307	1.09877	2894.64
8/16/2006 14:13	11.9521	3.46966	12.941	355.756	35.185	0.976682	2879.99
8/16/2006 14:14	11.9521	3.46966	12.941	356.977	35.0385	0.732511	2890.98
8/16/2006 14:14	11.9521	3.46966	12.6969	358.686	34.7455	0.976682	2879.99
8/16/2006 14:14	11.9521	3.46966	12.941	361.372	34.7455	1.09877	2886.09
8/16/2006 14:14	12.0559	3.46966	12.6969	364.546	35.3803	0.976682	2876.33
8/16/2006 14:15	11.943	3.46966	12.941	368.209	35.5024	1.09877	2876.33
8/16/2006 14:15	11.943	3.46966	10.9877	371.139	35.9419	0.610426	2870.22
8/16/2006 14:15	11.943	3.46966	10.7435	372.604	35.6489	0.976682	2886.09
8/16/2006 14:15	11.8392	3.46966	11.2318	373.581	36.2837	0.732511	2890.98
8/16/2006 14:16	11.7354	3.56977	8.79014	375.29	36.5523	0.976682	2894.64
8/16/2006 14:16	11.7354	3.56977	7.08094	374.313	36.1372	0.854597	2908.07
8/16/2006 14:16	11.8514	3.56977	6.83677	374.069	36.4791	0.732511	2899.52
8/16/2006 14:16	11.8514	3.56977	4.88341	374.069	36.65	1.09877	2904.41
8/16/2006 14:17	11.7507	3.56977	7.08094	376.755	36.6256	0.732511	2901.97
8/16/2006 14:17	11.7507	3.56977	6.83677	379.929	36.8942	0.610426	2893.42
8/16/2006 14:17	11.7507	3.56977	6.83677	379.197	36.6011	0.854597	2909.29
8/16/2006 14:17	11.8575	3.56977	6.83677	376.999	36.2349	1.09877	2903.19
8/16/2006 14:18	11.8575	3.56977	6.83677	373.337	36.1128	0.854597	2903.19
8/16/2006 14:18	11.8575	3.56977	4.88341	367.476	35.7221	1.22085	2923.94
8/16/2006 14:18	11.8575	3.56977	4.88341	363.326	36.2837	0.610426	2920.28
8/16/2006 14:18	11.8575	3.56977	6.83677	364.546	35.5024	0.732511	2894.64

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8/16/2006 14:19	11.8575	3.56977	6.83677	367.965	35.478	1.09877	2908.07
8/16/2006 14:19	12.062	3.46966	6.83677	369.674	35.185	0.732511	2909.29
8/16/2006 14:19	12.062	3.46966	8.79014	370.651	34.2571	0.732511	2910.51
8/16/2006 14:19	12.062	3.46966	10.7435	372.604	33.842	1.22085	2909.29
8/16/2006 14:20	12.062	3.46966	10.9877	376.755	33.5246	0.976682	2909.29
8/16/2006 14:20	12.062	3.46966	10.7435	380.418	33.4025	0.610426	2919.06
8/16/2006 14:20	12.062	3.46966	12.6969	382.127	33.2072	0.976682	3053.35
8/16/2006 14:20	12.062	3.33293	42.7298	382.371	32.377	1.22085	3158.34
	10.68543	3.770904	271.6058	293.4497	35.40852	1.069909	1857.577

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	O2	CO2	CO	SO2	NOx	THC	Inlet
8/17/2006 8:28	16.1793	3.05701	0.732511	24.1729	46.1238	2.93005	440.728
8/17/2006 8:28	16.2923	2.72494	84.9713	25.1496	41.1671	8.42388	437.065
8/17/2006 8:29	17.3269	2.24393	396.777	26.3704	31.0585	7.20303	460.261
8/17/2006 8:29	17.1835	2.471	748.871	45.1715	32.9142	3.2963	623.855
8/17/2006 8:29	16.5242	2.80063	930.778	77.8904	36.5035	0.24417	1959.47
8/17/2006 8:29	15.8131	3.26944	736.906	107.191	36.2349	0.122085	4042.24
8/17/2006 8:30	15.1019	3.59419	364.791	126.48	35.8686	0	5937
8/17/2006 8:30	14.7784	3.81638	118.911	129.166	39.1894	0	7002.81
8/17/2006 8:30	14.6716	3.81638	29.0563	122.818	41.3625	0.122085	7549.75
8/17/2006 8:30	14.6716	3.81638	6.83677	116.958	41.9973	0.24417	7482.6
8/17/2006 8:31	14.6716	3.81638	3.17422	112.318	42.4368	-0.12209	6774.51
8/17/2006 8:31	14.6716	3.81638	-1.22085	104.017	42.8763	0.122085	6311.81
8/17/2006 8:31	14.7754	3.81638	-0.97668	95.2265	43.1693	0.24417	5762.42
8/17/2006 8:31	14.8761	3.81638	-0.97668	89.3664	43.3158	0.24417	5045.78
8/17/2006 8:32	14.9829	3.61616	0.976682	81.5529	42.8275	0.122085	4515.93
8/17/2006 8:32	15.4438	3.50629	0.976682	75.937	41.9241	0	4017.82
8/17/2006 8:32	15.5445	3.40129	0.976682	69.3444	41.6555	0.488341	3595.41
8/17/2006 8:32	15.6483	3.40129	2.93005	66.9027	40.9962	0.122085	3187.64
8/17/2006 8:33	15.749	3.30118	2.93005	63.2401	40.8253	0	2782.32
8/17/2006 8:33	15.749	3.30118	2.93005	58.8451	40.9474	0.366256	2422.17
8/17/2006 8:33	15.749	3.30118	2.68587	54.6942	40.9718	0.24417	2174.34
8/17/2006 8:33	15.8497	3.30118	4.88341	51.52	41.2404	0.122085	1960.69
8/17/2006 8:34	15.8497	3.30118	2.93005	49.3224	41.3625	0	1845.93
8/17/2006 8:34	15.8497	3.30118	2.93005	47.6132	41.4846	0	1717.74
8/17/2006 8:34	15.8497	3.30118	4.88341	45.904	41.3625	0.122085	1598.1
8/17/2006 8:34	15.8497	3.30118	4.88341	43.4623	41.6799	0.366256	1489.44
8/17/2006 8:35	15.8497	3.30118	2.93005	41.509	41.3625	0	1406.42
8/17/2006 8:35	15.8497	3.30118	2.68587	40.5323	41.4846	0	1368.58
8/17/2006 8:35	15.7459	3.30118	2.93005	40.044	41.3625	0.488341	1298.99
8/17/2006 8:35	15.7459	3.40129	0.976682	40.044	41.6311	0	1270.91
8/17/2006 8:36	15.6422	3.40129	-0.97668	39.5556	42.0217	0.366256	1235.5
8/17/2006 8:36	15.6422	3.40129	0.976682	38.5789	42.0217	0.122085	1204.98
8/17/2006 8:36	15.6422	3.40129	0.732511	38.3348	41.8752	0.24417	1213.53
8/17/2006 8:36	15.6422	3.40129	0.976682	37.6022	42.3147	0	1198.88
8/17/2006 8:37	15.6422	3.40129	0.976682	36.3814	42.9252	0.366256	1209.86
8/17/2006 8:37	15.6422	3.40129	0.976682	36.3814	43.6821	0.24417	1215.97
8/17/2006 8:37	15.6422	3.40129	0.976682	35.1605	44.8297	0.122085	1230.62
8/17/2006 8:37	15.7429	3.30118	0.732511	32.7188	44.5123	0.488341	1197.66
8/17/2006 8:38	15.8436	3.30118	0.976682	30.033	43.9263	0.24417	1129.29
8/17/2006 8:38	15.8436	3.30118	2.93005	27.5913	43.8042	0	1121.96
8/17/2006 8:38	15.9504	3.19619	2.93005	27.1029	43.4623	0.366256	1150.04

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8/17/2006 8:38	15.9504	3.19619	4.88341	26.6146	43.2182	0.122085	1184.23
8/17/2006 8:39	15.9504	3.19619	4.88341	26.3704	43.0717	0.24417	1190.33
8/17/2006 8:39	16.0542	3.19619	4.88341	25.8821	42.9252	0.122085	1220.85
8/17/2006 8:39	16.0542	3.19619	4.88341	25.8821	43.0228	0.122085	1250.15
8/17/2006 8:39	16.0542	3.19619	4.88341	25.8821	43.1693	0.24417	1280.67
8/17/2006 8:40	15.9535	3.19619	2.93005	25.8821	42.5833	0	1297.77
8/17/2006 8:40	15.9535	3.19619	2.93005	26.6146	42.7542	0.24417	1330.73
8/17/2006 8:40	15.8436	3.19619	2.93005	26.8587	42.388	0.24417	1339.27
8/17/2006 8:40	15.8436	3.2963	0.732511	27.3471	42.5833	0	1360.03
8/17/2006 8:41	15.8436	3.2963	0.976682	27.1029	42.4612	0.24417	1371.02
8/17/2006 8:41	15.8436	3.2963	0.976682	27.1029	42.5833	0	1401.54
8/17/2006 8:41	15.8436	3.2963	0.976682	27.1029	42.5833	0	1407.64
8/17/2006 8:41	15.8436	3.2963	0.732511	27.5913	42.7298	0.122085	1422.29
8/17/2006 8:42	15.8436	3.2963	0.732511	27.8354	43.0228	0.24417	1433.28
8/17/2006 8:42	15.8436	3.2963	0.732511	27.5913	42.7542	0.488341	1440.61
8/17/2006 8:42	15.8436	3.2963	0.976682	27.5913	42.7542	0.122085	1436.94
8/17/2006 8:42	15.8436	3.2963	0.976682	27.8354	42.7787	0.122085	1443.05
8/17/2006 8:43	15.8436	3.2963	0.976682	28.0796	42.7787	0	1461.36
8/17/2006 8:43	15.8436	3.2963	0.976682	28.0796	42.8031	0.24417	1461.36
8/17/2006 8:43	15.7368	3.2963	0.976682	27.5913	42.8031	0.122085	1456.48
8/17/2006 8:43	15.7368	3.2963	0.976682	28.0796	43.1449	0.24417	1476.01
8/17/2006 8:44	15.7368	3.2963	0.976682	28.0796	43.1449	0.122085	1476.01
8/17/2006 8:44	15.7368	3.2963	0.732511	28.3238	43.4379	0	1476.01
8/17/2006 8:44	15.7368	3.2963	0.732511	28.3238	43.4379	0.122085	1488.22
8/17/2006 8:44	15.7368	3.2963	0.976682	27.5913	43.0228	0.366256	1491.88
8/17/2006 8:45	15.8558	3.19131	3.17422	27.5913	42.8763	0.122085	1476.01
8/17/2006 8:45	15.9565	3.19131	4.88341	27.5913	41.9241	0.488341	1499.21
8/17/2006 8:45	16.0573	3.0912	6.83677	28.3238	41.3625	0	1504.09
8/17/2006 8:45	16.0573	3.0912	8.79014	28.3238	40.4346	0	1499.21
8/17/2006 8:46	16.0573	3.0912	12.6969	28.8121	39.1161	0.366256	1517.52
8/17/2006 8:46	16.0573	3.0912	12.941	28.8121	38.6278	0.366256	1523.62
8/17/2006 8:46	15.8375	3.19619	10.9877	28.8121	38.6278	0.24417	1515.08
8/17/2006 8:46	15.7368	3.29874	6.83677	29.3005	38.8963	0.366256	1533.39
8/17/2006 8:47	15.633	3.29874	6.83677	30.033	39.0184	0.366256	1559.03
8/17/2006 8:47	15.5323	3.40129	6.83677	30.5213	39.5068	0.488341	1583.45
8/17/2006 8:47	15.4194	3.5014	4.88341	31.7422	39.3847	0.488341	1602.98
8/17/2006 8:47	15.3186	3.5014	4.88341	32.7188	39.6777	0.366256	1623.73
8/17/2006 8:48	15.3186	3.5014	4.88341	34.6722	39.8242	0.24417	1644.49
8/17/2006 8:48	15.3186	3.5014	4.88341	36.3814	39.58	0.24417	1635.94
8/17/2006 8:48	15.3186	3.5014	4.88341	38.0906	39.7265	0.24417	1657.92
8/17/2006 8:48	15.3186	3.5014	6.83677	39.7998	39.7265	0	1670.13
8/17/2006 8:49	15.3186	3.5014	8.79014	41.7531	40.4346	0.366256	1678.67
8/17/2006 8:49	15.3186	3.5014	10.9877	43.4623	40.7032	0.122085	1688.44
8/17/2006 8:49	15.4194	3.5014	14.8944	46.1482	40.5323	0.24417	1684.78

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Run 3

8/17/2006 8:49	15.4194	3.40129	16.8478	47.3691	40.5323	0.24417	1689.66
8/17/2006 8:50	15.5231	3.40129	20.9987	49.3224	40.5323	0	1690.88
8/17/2006 8:50	15.5231	3.40129	20.9987	50.5433	40.3858	0	1695.76
8/17/2006 8:50	15.5231	3.40129	20.9987	51.7641	40.0928	0.122085	1709.19
8/17/2006 8:50	15.5231	3.40129	22.952	52.985	40.2149	0.122085	1710.41
8/17/2006 8:51	15.5231	3.40129	22.952	53.4733	40.1905	0.488341	1688.44
8/17/2006 8:51	15.5231	3.40129	22.952	53.9617	39.7754	0.122085	1693.32
8/17/2006 8:51	15.5231	3.40129	24.9054	54.6942	39.9219	0	1704.31
8/17/2006 8:51	15.5231	3.40129	24.9054	54.6942	39.7754	0	1720.18
8/17/2006 8:52	15.4224	3.5014	20.9987	55.1825	39.6289	0.122085	1726.28
8/17/2006 8:52	15.3186	3.5014	14.8944	55.915	38.6766	0.366256	1711.63
8/17/2006 8:52	15.3186	3.5014	12.6969	55.915	38.7987	0.366256	1734.83
8/17/2006 8:52	15.3186	3.5014	10.9877	55.6709	38.6522	0.24417	1718.96
8/17/2006 8:53	15.3186	3.5014	10.9877	55.6709	38.3348	0.24417	1714.08
8/17/2006 8:53	15.3186	3.5014	10.9877	55.6709	38.6766	0.122085	1714.08
8/17/2006 8:53	15.3186	3.5014	10.9877	55.6709	38.5301	0	1738.49
8/17/2006 8:53	15.3186	3.5014	9.03431	55.1825	38.3836	0.24417	1731.17
8/17/2006 8:54	15.3186	3.5014	8.79014	55.4267	38.5301	0.366256	1744.6
8/17/2006 8:54	15.3186	3.5014	8.79014	55.1825	38.8231	0.24417	1739.71
8/17/2006 8:54	15.3186	3.5014	9.03431	54.6942	38.5301	-0.12209	1744.6
8/17/2006 8:54	15.3186	3.5014	8.79014	54.6942	38.3836	0.122085	1748.26
8/17/2006 8:55	15.3186	3.5014	9.03431	54.2058	38.1638	0.366256	1761.69
8/17/2006 8:55	15.3186	3.5014	10.7435	53.9617	38.5789	0.366256	1762.91
8/17/2006 8:55	15.3186	3.5014	10.9877	53.4733	38.5789	0.122085	1754.36
8/17/2006 8:55	15.3186	3.5014	14.8944	53.4733	38.9696	-0.12209	1777.56
8/17/2006 8:56	15.3186	3.5014	18.8011	52.985	39.58	0	1765.35
8/17/2006 8:56	15.3186	3.5014	20.7545	52.985	39.58	0.488341	1767.79
8/17/2006 8:56	15.3186	3.5014	22.952	52.2525	39.58	0.122085	1784.89
8/17/2006 8:56	15.3186	3.5014	22.952	52.2525	39.58	0.366256	1771.46
8/17/2006 8:57	15.3186	3.5014	22.952	52.2525	39.7021	0	1776.34
8/17/2006 8:57	15.3186	3.5014	22.7079	51.7641	39.58	0.122085	1798.32
8/17/2006 8:57	15.3186	3.5014	22.7079	51.7641	39.4335	0.366256	1797.09
8/17/2006 8:57	15.3186	3.5014	19.0453	51.7641	38.8475	0	1780
8/17/2006 8:58	15.2088	3.5014	12.941	51.2758	38.408	0.24417	1809.3
8/17/2006 8:58	15.2088	3.5014	10.7435	51.0316	38.0173	0.488341	1804.42
8/17/2006 8:58	15.2088	3.5014	10.9877	50.5433	38.2859	0.366256	1789.77
8/17/2006 8:58	15.2088	3.5014	10.9877	49.8108	38.5789	0.122085	1795.87
8/17/2006 8:59	15.2088	3.5014	10.7435	50.0549	38.115	0.24417	1822.73
8/17/2006 8:59	15.2088	3.5014	10.9877	50.0549	38.2615	0.488341	1800.76
8/17/2006 8:59	15.2088	3.5014	10.9877	49.8108	38.2371	0.122085	1812.97
8/17/2006 8:59	15.2088	3.5014	10.9877	49.3224	38.3592	0	1806.86
8/17/2006 9:00	15.2088	3.5014	10.7435	49.3224	38.3592	0.24417	1828.84
8/17/2006 9:00	15.2088	3.5014	10.9877	49.3224	38.2371	0.366256	1828.84
8/17/2006 9:00	15.2088	3.5014	10.9877	48.8341	38.3836	0	1825.17

PCC Incinerator
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8/17/2006 9:00	15.2088	3.5014	10.7435	48.1016	38.0662	0.488341	1815.41
8/17/2006 9:01	15.2088	3.5014	10.9877	48.5899	38.2127	0	1826.39
8/17/2006 9:01	15.2088	3.5014	12.941	48.5899	38.3592	0.366256	1837.38
8/17/2006 9:01	15.2088	3.5014	12.941	48.3457	38.4813	0	1814.19
8/17/2006 9:01	15.2088	3.5014	12.941	48.1016	38.3836	0.366256	1833.72
8/17/2006 9:02	15.2088	3.5014	14.8944	47.6132	38.6766	0.488341	1831.28
8/17/2006 9:02	15.2088	3.5014	19.0453	47.3691	39.2382	0.24417	1806.86
8/17/2006 9:02	15.2088	3.5014	20.7545	47.1249	39.4824	0.24417	1825.17
8/17/2006 9:02	15.2088	3.5014	20.9987	46.8807	39.4824	0.366256	1834.94
8/17/2006 9:03	15.2088	3.5014	20.7545	46.3924	39.4824	0.366256	1826.39
8/17/2006 9:03	15.2088	3.5014	22.952	46.3924	39.2382	0.24417	1855.7
8/17/2006 9:03	15.2088	3.5014	22.7079	46.3924	39.1161	0	1839.82
8/17/2006 9:03	15.2088	3.5014	22.952	45.6599	39.2382	0.488341	1827.62
8/17/2006 9:04	15.2088	3.5014	20.7545	45.904	38.701	0.122085	1837.38
8/17/2006 9:04	15.1019	3.5014	17.0919	45.6599	38.5301	0.122085	1845.93
8/17/2006 9:04	15.1019	3.5014	12.941	45.6599	38.3836	0.122085	1844.71
8/17/2006 9:04	15.1019	3.5014	12.941	45.6599	38.115	0.488341	1856.92
8/17/2006 9:05	15.1019	3.5014	10.9877	45.904	38.2371	0	1852.03
8/17/2006 9:05	15.1019	3.5014	10.9877	45.904	38.115	0.122085	2336.71
8/17/2006 9:05	15.1019	3.5014	10.9877	45.1715	37.9197	0.488341	1874.01
8/17/2006 9:05	15.1019	3.5014	10.9877	45.1715	38.2371	0.122085	1855.7
8/17/2006 9:06	15.1019	3.5014	10.7435	45.4157	37.9197	0.488341	1874.01
8/17/2006 9:06	15.1019	3.5014	10.9877	45.1715	37.9197	0.24417	1874.01
8/17/2006 9:06	15.1019	3.5014	10.9877	45.4157	38.0906	0	1880.11
8/17/2006 9:06	15.1019	3.5014	10.9877	45.4157	38.0906	0.366256	1894.76
8/17/2006 9:07	15.1019	3.5014	10.9877	44.6832	38.2371	0.366256	1878.89
8/17/2006 9:07	15.1019	3.5014	10.9877	44.6832	38.3836	0	1904.53
8/17/2006 9:07	15.0012	3.5014	10.9877	44.6832	38.5301	0.488341	1895.98
8/17/2006 9:07	15.0012	3.5014	10.9877	44.6832	38.408	0.122085	1895.98
8/17/2006 9:08	15.0012	3.5014	12.941	44.6832	38.2859	0.122085	1916.74
8/17/2006 9:08	15.0012	3.5014	14.8944	43.9507	38.6278	0.488341	1893.54
8/17/2006 9:08	15.108	3.5014	19.0453	44.1948	39.2382	0	1915.52
8/17/2006 9:08	15.108	3.5014	20.7545	43.9507	39.2626	0.488341	1898.43
8/17/2006 9:09	15.108	3.5014	22.7079	43.9507	39.5556	0.488341	1903.31
8/17/2006 9:09	15.108	3.5014	22.7079	44.1948	39.1405	0.24417	1928.95
8/17/2006 9:09	15.108	3.5014	22.7079	44.1948	39.4091	0.366256	1917.96
8/17/2006 9:09	15.108	3.5014	20.9987	43.9507	39.287	0	1926.5
8/17/2006 9:10	15.108	3.5014	22.7079	43.4623	39.287	0.488341	1931.39
8/17/2006 9:10	15.108	3.5014	22.952	43.4623	39.1405	0.366256	1942.38
8/17/2006 9:10	15.108	3.5014	18.8011	43.7065	38.2371	0.122085	1950.92
8/17/2006 9:10	15.0073	3.5014	15.1386	43.9507	37.822	0.366256	1938.71
8/17/2006 9:11	15.0073	3.60151	12.941	43.9507	37.9441	0.24417	1957.03
8/17/2006 9:11	15.0073	3.60151	10.7435	44.1948	37.9441	0.488341	1958.25
8/17/2006 9:11	15.0073	3.60151	10.9877	43.9507	38.1883	0	1953.36

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8/17/2006 9:11	15.0073	3.60151	10.9877	43.9507	38.3348	0.24417	1959.47
8/17/2006 9:12	15.0073	3.60151	10.9877	43.4623	38.0906	0.366256	1958.25
8/17/2006 9:12	15.0073	3.60151	10.9877	44.1948	37.9197	0.366256	1987.55
8/17/2006 9:12	14.9066	3.60151	10.9877	44.1948	38.2615	0	1974.12
8/17/2006 9:12	14.9066	3.60151	10.9877	43.9507	37.9441	0.122085	1965.57
8/17/2006 9:13	14.9066	3.60151	10.9877	44.1948	38.0662	0.366256	1983.88
8/17/2006 9:13	14.9066	3.60151	10.9877	43.9507	38.3836	0.488341	1992.43
8/17/2006 9:13	14.9066	3.60151	10.9877	44.1948	38.2615	0.122085	1993.65
8/17/2006 9:13	14.9066	3.60151	12.941	43.9507	38.6278	0.122085	1994.87
8/17/2006 9:14	15.0073	3.5014	16.8478	43.9507	39.9463	0.488341	1997.31
8/17/2006 9:14	15.0073	3.5014	18.8011	43.9507	39.7754	0	1994.87
8/17/2006 9:14	15.0073	3.5014	20.9987	43.4623	39.6533	0.122085	1985.11
8/17/2006 9:14	15.0073	3.5014	20.7545	43.4623	39.4091	0.366256	1994.87
8/17/2006 9:15	15.0073	3.5014	22.952	43.4623	39.5312	0	2005.86
8/17/2006 9:15	15.0073	3.5014	22.952	43.4623	39.2626	0.24417	1999.76
8/17/2006 9:15	15.0073	3.5014	22.952	44.1948	39.4335	0.366256	2021.73
8/17/2006 9:15	15.0073	3.5014	22.7079	44.1948	39.3114	0.122085	2003.42
8/17/2006 9:16	15.0073	3.5014	22.952	43.2182	39.4579	0.366256	1999.76
8/17/2006 9:16	15.0073	3.5014	20.9987	43.7065	39.1161	0.24417	2027.84
8/17/2006 9:16	15.0073	3.5014	20.7545	42.974	39.1161	0.122085	2024.17
8/17/2006 9:16	15.0073	3.5014	19.0453	42.974	38.4568	0.488341	2013.19
8/17/2006 9:17	14.8974	3.60151	12.941	42.974	37.9197	0	2040.04
8/17/2006 9:17	14.8974	3.60151	10.9877	42.7298	38.2615	0.366256	2024.17
8/17/2006 9:17	14.8974	3.60151	10.9877	42.974	38.1394	0	2029.06
8/17/2006 9:17	14.8974	3.60151	9.03431	42.7298	38.1394	0.366256	2037.6
8/17/2006 9:18	14.8974	3.60151	10.9877	42.7298	37.9929	0	2038.82
8/17/2006 9:18	14.8974	3.60151	10.7435	43.7065	38.115	0.24417	2047.37
8/17/2006 9:18	14.8974	3.60151	10.9877	43.2182	38.115	0.122085	2047.37
8/17/2006 9:18	14.8974	3.60151	10.9877	42.974	38.115	0.122085	2040.04
8/17/2006 9:19	14.8974	3.60151	10.9877	42.7298	38.3836	0	2064.46
8/17/2006 9:19	14.8974	3.60151	10.7435	43.7065	38.3836	0.366256	2049.81
8/17/2006 9:19	14.8974	3.60151	14.8944	43.4623	39.1161	0.122085	2052.25
8/17/2006 9:19	14.9982	3.5014	18.8011	42.974	39.2382	0.366256	2066.9
8/17/2006 9:20	14.9982	3.5014	18.8011	43.4623	39.3603	0.488341	2062.02
8/17/2006 9:20	14.9982	3.5014	18.8011	43.4623	39.4824	0.122085	2086.44
8/17/2006 9:20	14.9982	3.5014	19.0453	42.974	39.6289	0.122085	2080.33
8/17/2006 9:20	14.9982	3.5014	18.8011	43.2182	39.8974	0.366256	2082.77
8/17/2006 9:21	14.9982	3.5014	18.8011	42.974	39.6044	0.122085	2096.2
8/17/2006 9:21	14.9982	3.5014	20.7545	43.4623	39.7265	0.366256	2104.75
8/17/2006 9:21	14.9982	3.5014	20.7545	43.7065	39.7265	0.24417	2112.07
8/17/2006 9:21	14.9982	3.5014	20.9987	43.4623	39.58	0.122085	2108.41
8/17/2006 9:22	14.9982	3.5014	20.7545	43.4623	39.58	0.366256	2096.2
8/17/2006 9:22	14.9982	3.5014	22.952	43.7065	39.7509	0.366256	2116.96
8/17/2006 9:22	14.9982	3.5014	20.9987	43.4623	39.9707	0	2121.84

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8/17/2006 9:22	14.9982	3.5014	18.8011	43.2182	39.9707	0.488341	2119.4
8/17/2006 9:23	14.8974	3.5014	18.8011	43.4623	39.9707	0	2134.05
8/17/2006 9:23	14.7967	3.60151	14.8944	43.4623	38.6278	0.488341	2113.3
8/17/2006 9:23	14.7967	3.60151	10.9877	43.7065	38.3103	0.122085	2142.6
8/17/2006 9:23	14.7967	3.60151	10.9877	43.4623	38.3348	0.488341	2142.6
8/17/2006 9:24	14.7967	3.60151	10.7435	43.4623	38.0906	0.122085	2131.61
8/17/2006 9:24	14.7967	3.60151	9.03431	43.4623	38.2127	0.488341	2154.8
8/17/2006 9:24	14.7967	3.60151	9.03431	43.4623	38.2127	0	2142.6
8/17/2006 9:24	14.7967	3.60151	10.9877	43.7065	37.7243	0.366256	2167.01
8/17/2006 9:25	14.7967	3.60151	10.9877	43.9507	38.0173	0.122085	2162.13
8/17/2006 9:25	14.7967	3.60151	10.9877	44.1948	38.0173	0	2159.69
8/17/2006 9:25	14.7967	3.60151	12.941	43.9507	38.3348	0	2178
8/17/2006 9:25	14.8974	3.5014	20.7545	44.1948	38.6766	0.366256	2178
8/17/2006 9:26	14.8974	3.5014	24.9054	43.9507	39.0917	0.24417	2160.91
8/17/2006 9:26	14.8974	3.5014	24.9054	44.1948	38.7743	0.122085	2196.31
8/17/2006 9:26	14.8974	3.5014	24.9054	44.1948	38.7743	0.610426	2351.36
8/17/2006 9:26	14.8974	3.5014	24.9054	44.1948	38.9208	0.366256	2188.99
8/17/2006 9:27	14.8974	3.5014	22.952	43.4623	39.0429	0.24417	2176.78
8/17/2006 9:27	14.8974	3.5014	22.952	43.4623	38.9208	0.122085	2187.77
8/17/2006 9:27	14.8974	3.5014	24.9054	43.4623	38.9208	0.366256	2214.63
8/17/2006 9:27	14.8974	3.5014	24.9054	44.1948	38.9208	0.24417	2187.77
8/17/2006 9:28	14.8974	3.5014	22.7079	43.7065	38.7743	0.122085	2220.73
8/17/2006 9:28	14.7906	3.60151	16.8478	43.4623	37.9441	0.366256	2217.07
8/17/2006 9:28	14.6838	3.60151	12.941	43.4623	37.7487	0.122085	3281.65
8/17/2006 9:28	14.6838	3.60151	10.9877	43.4623	37.7732	0.366256	2224.39
8/17/2006 9:29	14.6838	3.60151	10.9877	43.9507	37.8953	0.122085	2209.74
8/17/2006 9:29	14.6838	3.60151	9.03431	43.4623	38.1883	0.488341	2234.16
8/17/2006 9:29	14.6838	3.60151	9.03431	42.7298	38.4324	0.122085	2220.73
8/17/2006 9:29	14.577	3.60151	6.83677	42.974	38.9696	0.122085	2225.61
8/17/2006 9:30	14.577	3.60151	6.83677	42.7298	39.58	0.366256	2230.5
8/17/2006 9:30	14.6777	3.60151	7.08094	42.974	40.2881	0.24417	2228.06
8/17/2006 9:30	14.6777	3.60151	10.9877	42.7298	40.2881	0.24417	2234.16
8/17/2006 9:30	14.7784	3.49652	10.9877	42.7298	40.4102	0.122085	2231.72
8/17/2006 9:31	14.7784	3.49652	10.9877	42.4857	40.6788	0	2223.17
8/17/2006 9:31	14.7784	3.49652	10.9877	41.9973	40.9718	0.24417	2236.6
8/17/2006 9:31	14.989	3.39397	12.941	41.0206	40.63	0.488341	2235.38
8/17/2006 9:31	14.989	3.39397	14.8944	41.0206	40.6544	0.122085	2217.07
8/17/2006 9:32	14.989	3.39397	12.941	40.5323	40.6544	0.122085	2226.83
8/17/2006 9:32	14.989	3.39397	14.8944	40.7765	40.2149	0.24417	2206.08
8/17/2006 9:32	14.989	3.39397	12.6969	40.5323	41.0206	0.366256	2208.52
8/17/2006 9:32	14.989	3.29142	12.941	40.5323	40.3125	0.24417	2196.31
8/17/2006 9:33	14.989	3.29142	10.9877	40.044	40.4346	0.122085	2191.43
8/17/2006 9:33	14.989	3.29142	10.9877	40.044	40.1416	0.366256	2203.64
8/17/2006 9:33	14.989	3.29142	9.03431	40.044	39.5068	0.24417	2173.12

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8/17/2006 9:33	14.989	3.29142	6.83677	40.044	39.8242	0	2193.87
8/17/2006 9:34	14.989	3.29142	6.83677	39.7998	39.7021	0.366256	2180.44
8/17/2006 9:34	14.989	3.29142	7.32511	40.044	39.6777	0.24417	2174.34
8/17/2006 9:34	14.989	3.29142	6.83677	40.044	39.7265	0.366256	2186.55
8/17/2006 9:34	14.989	3.29142	4.88341	40.044	39.7265	0	2175.56
8/17/2006 9:35	14.989	3.29142	4.88341	39.3114	40.0195	0.366256	2191.43
8/17/2006 9:35	14.989	3.29142	4.88341	39.3114	39.873	0.488341	2181.66
8/17/2006 9:35	14.989	3.29142	4.88341	38.5789	40.0195	0.24417	2209.74
8/17/2006 9:35	14.8852	3.29142	4.88341	39.3114	39.8974	0.122085	2191.43
8/17/2006 9:36	14.8852	3.29142	4.88341	39.3114	39.7265	0.366256	2192.65
8/17/2006 9:36	14.8852	3.29142	4.88341	39.3114	39.9219	0.488341	2218.29
8/17/2006 9:36	14.8852	3.29142	4.88341	38.8231	39.8486	0.122085	2208.52
8/17/2006 9:36	14.8852	3.29142	4.88341	38.8231	40.1172	0.122085	2217.07
8/17/2006 9:37	14.8852	3.29142	4.88341	38.0906	40.4346	0.122085	2221.95
8/17/2006 9:37	14.8852	3.29142	2.93005	37.8464	39.9707	0.122085	2225.61
8/17/2006 9:37	14.8852	3.29142	2.68587	38.8231	40.044	0.366256	2243.93
8/17/2006 9:37	14.8852	3.29142	2.93005	38.8231	40.4835	0.366256	2236.6
8/17/2006 9:38	14.8852	3.29142	2.93005	38.0906	40.337	0.366256	2242.71
8/17/2006 9:38	14.8852	3.29142	2.93005	38.0906	40.337	0.122085	2261.02
8/17/2006 9:38	14.8852	3.29142	4.88341	37.6022	41.4601	0.122085	2250.03
8/17/2006 9:38	14.989	3.19131	6.83677	37.3581	41.4601	0.24417	2262.24
8/17/2006 9:39	14.989	3.19131	8.79014	37.6022	41.5822	0.488341	2258.58
8/17/2006 9:39	14.989	3.19131	8.79014	37.6022	41.5822	0.122085	2292.76
8/17/2006 9:39	14.989	3.19131	10.9877	37.3581	41.8508	0.24417	2279.33
8/17/2006 9:39	14.989	3.19131	10.9877	37.6022	41.7287	0.366256	2315.96
8/17/2006 9:40	14.989	3.19131	9.03431	37.6022	41.7287	0	2302.53
8/17/2006 9:40	14.8852	3.19131	6.83677	37.6022	41.4113	0.488341	2301.31
8/17/2006 9:40	14.8852	3.2963	7.08094	37.6022	41.2404	0.122085	2309.85
8/17/2006 9:40	14.7784	3.2963	4.88341	38.0906	40.6544	0.122085	2337.93
8/17/2006 9:41	14.7784	3.2963	4.88341	38.0906	40.923	0.366256	2326.94
8/17/2006 9:41	14.6777	3.2963	2.93005	37.6022	40.4835	0.366256	2317.18
8/17/2006 9:41	14.6777	3.2963	2.93005	36.8697	40.7276	0.366256	2345.26
8/17/2006 9:41	14.6777	3.2963	2.93005	36.3814	40.6055	0.24417	2337.93
8/17/2006 9:42	14.6777	3.2963	2.93005	36.3814	40.8741	0	2337.93
8/17/2006 9:42	14.6777	3.2963	2.93005	36.3814	40.7032	0.488341	2378.22
8/17/2006 9:42	14.6777	3.2963	2.93005	36.3814	40.9962	0.366256	2355.02
8/17/2006 9:42	14.6777	3.2963	2.93005	36.3814	40.9962	0	2400.2
8/17/2006 9:43	14.6777	3.2963	2.68587	36.6256	41.1183	0.24417	2391.65
8/17/2006 9:43	14.6777	3.2963	2.93005	36.3814	41.2404	0.366256	2377
8/17/2006 9:43	14.7784	3.2963	4.88341	35.8931	42.2659	0.366256	2409.96
8/17/2006 9:43	14.7784	3.2963	6.83677	35.6489	42.2659	0.122085	2379.44
8/17/2006 9:44	14.7784	3.2963	6.83677	35.6489	42.9252	0.366256	2406.3
8/17/2006 9:44	14.7784	3.2963	6.83677	35.8931	42.9252	0.24417	2423.39
8/17/2006 9:44	14.7784	3.2963	6.83677	35.8931	43.0717	0	2408.74

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8/17/2006 9:44	14.7784	3.2963	6.83677	35.6489	43.3891	0.24417	2425.83
8/17/2006 9:45	14.7784	3.2963	6.83677	35.6489	43.267	0.366256	2444.15
8/17/2006 9:45	14.7784	3.2963	6.83677	35.8931	43.0228	0	2457.58
8/17/2006 9:45	14.7784	3.2963	6.83677	35.8931	43.0472	0.366256	2450.25
8/17/2006 9:45	14.7784	3.2963	6.83677	35.8931	42.6322	0	2467.34
8/17/2006 9:46	14.6777	3.2963	7.08094	35.6489	41.802	0.24417	2462.46
8/17/2006 9:46	14.6777	3.2963	4.88341	35.8931	42.0706	0.122085	2492.98
8/17/2006 9:46	14.6777	3.2963	4.88341	35.1605	42.2171	0.122085	2479.55
8/17/2006 9:46	14.5739	3.2963	2.68587	35.1605	42.2171	0.366256	2511.29
8/17/2006 9:47	14.5739	3.2963	4.88341	35.1605	42.0461	0.122085	2490.54
8/17/2006 9:47	14.5739	3.2963	2.93005	35.4047	41.8752	0.366256	2525.94
8/17/2006 9:47	14.5739	3.2963	2.93005	34.6722	42.4857	0.122085	2505.19
8/17/2006 9:47	14.5739	3.2963	2.93005	34.6722	42.0706	0.488341	2543.04
8/17/2006 9:48	14.5739	3.2963	2.93005	34.6722	42.4857	0	2550.36
8/17/2006 9:48	14.5739	3.2963	2.93005	34.6722	42.2171	0.366256	2539.37
8/17/2006 9:48	14.5739	3.2963	2.93005	34.428	41.9241	0	2566.23
8/17/2006 9:48	14.5739	3.2963	2.93005	34.428	42.2171	0.24417	2544.26
8/17/2006 9:49	14.5739	3.2963	2.93005	34.6722	41.9485	0.366256	2550.36
8/17/2006 9:49	14.5739	3.2963	2.93005	33.9397	42.0706	0.24417	2551.58
8/17/2006 9:49	14.5739	3.2963	2.93005	33.9397	42.1682	0	2550.36
8/17/2006 9:49	14.4702	3.2963	2.93005	33.9397	42.4612	0.488341	2567.45
8/17/2006 9:50	14.4702	3.2963	2.93005	33.4513	42.7054	0	2568.67
8/17/2006 9:50	14.4702	3.2963	2.93005	33.4513	42.8763	0.24417	2577.22
8/17/2006 9:50	14.4702	3.2963	2.93005	33.6955	42.6077	0.24417	2572.34
8/17/2006 9:50	14.4702	3.2963	5.12758	33.4513	42.1438	0.122085	2594.31
8/17/2006 9:51	14.6777	3.19619	6.83677	33.6955	43.3891	0.366256	2591.87
8/17/2006 9:51	14.6777	3.19619	9.03431	33.6955	43.5356	0	2622.39
8/17/2006 9:51	14.6777	3.19619	10.9877	33.4513	43.3647	0.122085	2621.17
8/17/2006 9:51	14.6777	3.19619	10.9877	33.4513	43.6088	0.366256	2613.84
8/17/2006 9:52	14.6777	3.19619	8.79014	32.963	43.1205	0	2650.47
8/17/2006 9:52	14.6777	3.19619	6.83677	32.7188	42.8275	0.24417	2641.92
8/17/2006 9:52	14.4702	3.2963	6.83677	32.963	41.7776	0.24417	2667.56
8/17/2006 9:52	14.4702	3.2963	2.93005	32.2305	42.1194	0	2679.77
8/17/2006 9:53	14.3664	3.2963	2.93005	32.2305	42.1194	0.24417	2656.57
8/17/2006 9:53	14.3664	3.2963	2.93005	32.2305	41.9485	0	2685.87
8/17/2006 9:53	14.3664	3.2963	2.93005	32.2305	42.0706	0.366256	2700.52
8/17/2006 9:53	14.3664	3.2963	2.93005	32.4747	41.9241	0.122085	2684.65
8/17/2006 9:54	14.3664	3.2963	2.93005	32.2305	41.7531	0.366256	2702.97
8/17/2006 9:54	14.3664	3.2963	2.93005	32.4747	41.6311	-0.12209	2694.42
8/17/2006 9:54	14.3664	3.2963	2.93005	31.9863	41.9241	0.366256	2726.16
8/17/2006 9:54	14.3664	3.2963	2.93005	31.7422	42.2171	0	2715.18
8/17/2006 9:55	14.3664	3.2963	2.93005	31.7422	41.6799	0.122085	2731.05
8/17/2006 9:55	14.3664	3.2963	2.93005	31.7422	41.6799	0.122085	2738.37
8/17/2006 9:55	14.3664	3.2963	2.93005	31.498	42.4124	0.488341	2750.58

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8/17/2006 9:55	14.3664	3.2963	2.93005	31.498	42.6566	0	2760.35
8/17/2006 9:56	14.4702	3.2963	4.88341	31.2538	43.4868	0.24417	2770.11
8/17/2006 9:56	14.4702	3.2963	6.83677	31.2538	44.0239	0.366256	2759.13
8/17/2006 9:56	14.4702	3.2963	9.03431	31.2538	44.4634	0.488341	2790.87
8/17/2006 9:56	14.4702	3.2963	9.03431	31.0096	44.0239	0.122085	2775
8/17/2006 9:57	14.4702	3.2963	8.79014	31.2538	44.439	0.488341	2812.84
8/17/2006 9:57	14.4702	3.2963	9.03431	31.0096	43.9995	0.24417	2793.31
8/17/2006 9:57	14.4702	3.2963	6.83677	31.2538	42.8275	0.122085	2823.83
8/17/2006 9:57	14.4702	3.2963	6.83677	30.2771	42.9496	0.488341	2822.61
8/17/2006 9:58	14.2565	3.2963	4.88341	30.5213	42.5101	0.122085	2848.25
8/17/2006 9:58	14.2565	3.2963	2.93005	31.0096	42.2171	0.610426	2844.59
8/17/2006 9:58	14.2565	3.39641	2.93005	31.0096	42.3636	0.24417	2839.7
8/17/2006 9:58	14.2565	3.39641	0.732511	30.7655	42.1194	0.24417	2865.34
8/17/2006 9:59	14.2565	3.39641	2.93005	30.5213	41.9729	0.24417	2849.47
8/17/2006 9:59	14.2565	3.39641	2.93005	30.7655	41.8264	0.122085	2881.21
8/17/2006 9:59	14.2565	3.39641	0.732511	30.5213	41.8264	0.610426	2865.34
8/17/2006 9:59	14.1558	3.39641	0.976682	30.033	41.9729	0.488341	2877.55
8/17/2006 10:00	14.1558	3.39641	1.22085	29.7888	41.9241	0.366256	2888.54
8/17/2006 10:00	14.1558	3.39641	0.976682	30.033	42.0706	0.366256	2914.17
8/17/2006 10:00	14.1558	3.39641	0.976682	30.5213	42.3392	0.610426	2899.52
8/17/2006 10:00	14.1558	3.39641	0.976682	30.5213	42.6322	0.122085	2926.38
8/17/2006 10:01	14.1558	3.29386	2.93005	30.033	43.0228	0.488341	2921.5
8/17/2006 10:01	14.3847	3.29386	4.88341	30.033	43.8286	0.488341	2928.82
8/17/2006 10:01	14.3847	3.29386	7.08094	29.3005	44.1216	0.122085	2941.03
8/17/2006 10:01	14.3847	3.29386	9.03431	29.7888	43.6577	0	2948.36
8/17/2006 10:02	14.3847	3.29386	8.79014	30.033	43.3403	0.122085	2948.36
8/17/2006 10:02	14.3847	3.29386	8.79014	29.7888	43.9751	0.366256	2956.9
8/17/2006 10:02	14.3847	3.29386	6.83677	29.7888	43.3158	0	2952.02
8/17/2006 10:02	14.2748	3.29386	6.83677	29.3005	43.1693	0.488341	2975.22
8/17/2006 10:03	14.2748	3.29386	4.88341	29.3005	43.0472	0.24417	2978.88
8/17/2006 10:03	14.1619	3.39641	2.93005	29.5446	42.4857	0.122085	2972.77
8/17/2006 10:03	14.0612	3.39641	2.93005	29.3005	42.4857	0.24417	3016.73
8/17/2006 10:03	14.0612	3.39641	2.93005	29.5446	42.0217	0.488341	2965.45
8/17/2006 10:04	14.0612	3.39641	0.976682	29.3005	42.0217	0.488341	2970.33
8/17/2006 10:04	14.0612	3.39641	0.976682	29.5446	42.0217	0.122085	2997.19
8/17/2006 10:04	14.0612	3.39641	0.976682	30.033	41.7776	0.366256	2978.88
8/17/2006 10:04	14.0612	3.39641	0.976682	29.7888	42.1682	0	3003.3
8/17/2006 10:05	14.0612	3.39641	0.732511	29.3005	41.8996	0.488341	3022.83
8/17/2006 10:05	14.0612	3.39641	0.976682	28.5679	42.388	0.122085	3005.74
8/17/2006 10:05	14.0612	3.39641	2.68587	28.8121	42.2659	0	3014.28
8/17/2006 10:05	14.168	3.2963	4.88341	28.8121	43.8042	0.122085	3047.25
8/17/2006 10:06	14.168	3.2963	4.88341	28.8121	43.9263	0.488341	3072.88
8/17/2006 10:06	14.2687	3.2963	6.83677	28.8121	44.2193	0.24417	3072.88
8/17/2006 10:06	14.2687	3.2963	6.83677	28.8121	44.2193	0.24417	3060.68

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8/17/2006 10:06	14.2687	3.2963	7.08094	28.8121	43.8286	0	3066.78
8/17/2006 10:07	14.2687	3.2963	6.83677	28.8121	44.2437	0	3082.65
8/17/2006 10:07	14.2687	3.2963	6.83677	28.8121	44.2437	0	3121.72
8/17/2006 10:07	14.0673	3.2963	4.88341	28.8121	43.2182	0	3105.85
8/17/2006 10:07	14.0673	3.2963	2.93005	29.3005	43.2182	0.122085	3104.63
8/17/2006 10:08	13.9665	3.2963	2.93005	30.5213	43.4868	0.122085	3096.08
8/17/2006 10:08	13.9665	3.2963	2.93005	32.963	43.1205	0	3114.39
8/17/2006 10:08	13.9665	3.2963	2.93005	35.1605	42.5345	0	3129.04
8/17/2006 10:08	13.9665	3.2963	2.93005	36.3814	42.681	0	3153.46
8/17/2006 10:09	13.9665	3.2963	2.93005	37.3581	42.8275	0	3182.76
8/17/2006 10:09	13.9665	3.2963	2.93005	37.6022	42.3636	0.122085	3174.22
8/17/2006 10:09	13.9665	3.2963	2.93005	38.3348	42.1194	0.122085	3196.19
8/17/2006 10:09	13.9665	3.2963	2.93005	38.8231	42.2903	0.122085	3213.28
8/17/2006 10:10	13.9665	3.2963	2.93005	40.044	42.5589	0.122085	3218.17
8/17/2006 10:10	13.9665	3.39641	2.93005	41.2648	42.8275	0	3193.75
8/17/2006 10:10	13.8628	3.39641	0.976682	42.2415	42.8275	0	3225.49
8/17/2006 10:10	13.8628	3.39641	2.93005	43.4623	42.7298	0.122085	3251.13
8/17/2006 10:11	13.8628	3.39641	2.93005	44.6832	42.7298	0.366256	3260.9
8/17/2006 10:11	13.8628	3.39641	2.93005	45.904	42.8763	0.366256	3273.1
8/17/2006 10:11	13.8628	3.39641	2.93005	46.3924	42.9007	0.122085	3288.98
8/17/2006 10:11	13.8628	3.39641	0.976682	46.8807	42.7787	0.122085	3267
8/17/2006 10:12	13.8628	3.39641	2.93005	47.1249	43.1937	0.366256	3276.77
8/17/2006 10:12	13.8628	3.39641	2.68587	47.6132	43.3403	0.488341	3306.07
8/17/2006 10:12	13.8628	3.39641	2.68587	48.8341	44.3169	0.366256	3320.72
8/17/2006 10:12	13.8628	3.39641	2.93005	49.3224	44.2437	0.366256	3340.25
8/17/2006 10:13	13.8628	3.39641	4.88341	49.3224	43.9263	0.366256	3337.81
8/17/2006 10:13	13.8628	3.39641	2.93005	49.3224	44.0483	0.366256	3356.12
8/17/2006 10:13	13.8628	3.39641	4.88341	49.3224	43.56	0.488341	3369.55
8/17/2006 10:13	13.8628	3.39641	2.93005	49.3224	43.6821	0.366256	3342.69
8/17/2006 10:14	13.8628	3.39641	3.17422	49.3224	43.9751	0	3376.88
8/17/2006 10:14	13.8628	3.39641	2.93005	49.5666	43.7065	0	3375.66
8/17/2006 10:14	13.8628	3.39641	2.93005	49.5666	43.8286	0	3397.63
8/17/2006 10:14	13.8628	3.39641	4.88341	49.3224	43.8286	0.488341	3409.84
8/17/2006 10:15	13.8628	3.39641	2.93005	49.8108	43.8286	0.366256	3414.72
8/17/2006 10:15	13.8628	3.39641	2.93005	51.0316	43.8042	0	3434.26
8/17/2006 10:15	13.8628	3.39641	4.88341	51.7641	43.9263	0	3439.14
8/17/2006 10:15	13.8628	3.39641	2.93005	52.7408	44.0728	0.488341	3439.14
8/17/2006 10:16	13.759	3.39641	2.93005	52.7408	44.6832	0.24417	3444.02
8/17/2006 10:16	13.759	3.39641	2.93005	52.7408	44.3414	0.24417	3450.13
8/17/2006 10:16	13.759	3.39641	2.93005	52.4966	44.0728	0.122085	3481.87
8/17/2006 10:16	13.759	3.39641	2.93005	52.2525	44.0728	0.488341	3485.53
8/17/2006 10:17	13.759	3.39641	2.93005	51.7641	44.1948	0	3518.5
8/17/2006 10:17	13.759	3.39641	2.68587	51.52	43.9263	0.366256	3534.37
8/17/2006 10:17	13.759	3.39641	2.93005	51.2758	44.1704	0	3540.47

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8/17/2006 10:17	13.759	3.39641	2.93005	51.0316	44.0239	0.366256	3557.56
8/17/2006 10:18	13.759	3.39641	2.93005	51.0316	44.6832	0	3578.32
8/17/2006 10:18	13.759	3.39641	2.93005	51.0316	43.9751	0.366256	3575.88
8/17/2006 10:18	13.759	3.29142	4.88341	51.2758	45.1715	0	3599.07
8/17/2006 10:18	13.8658	3.29142	9.27848	51.0316	45.1959	0.24417	3592.97
8/17/2006 10:19	13.8658	3.29142	9.03431	51.0316	44.8053	0.366256	3588.08
8/17/2006 10:19	13.8658	3.29142	9.03431	50.2991	44.8053	0	3610.06
8/17/2006 10:19	13.7621	3.29142	6.83677	50.5433	43.8774	0.488341	3640.58
8/17/2006 10:19	13.7621	3.29142	6.83677	50.0549	43.267	0	3617.38
8/17/2006 10:20	13.7621	3.29142	4.88341	49.0783	43.3891	0.488341	3619.83
8/17/2006 10:20	13.5393	3.40129	2.93005	47.1249	42.388	0.24417	3641.8
8/17/2006 10:20	13.4385	3.40129	0.976682	43.4623	42.8275	0.122085	3651.57
8/17/2006 10:20	13.4385	3.40129	0.976682	39.5556	42.5345	0.24417	3702.84
8/17/2006 10:21	13.4385	3.40129	0.976682	37.1139	42.8763	-0.12209	3706.51
8/17/2006 10:21	13.4385	3.40129	0.732511	34.6722	42.681	0.24417	3721.16
8/17/2006 10:21	13.4385	3.40129	0.976682	33.4513	42.5589	-0.12209	3735.81
8/17/2006 10:21	13.4385	3.40129	0.732511	32.2305	42.8031	0.366256	3719.94
8/17/2006 10:22	13.4385	3.40129	0.976682	32.4747	43.4868	-0.12209	3743.13
8/17/2006 10:22	13.5515	3.29874	2.68587	31.9863	45.1715	0.24417	3779.76
8/17/2006 10:22	13.6583	3.29874	5.37175	31.498	45.5866	0.122085	3768.77
8/17/2006 10:22	13.6583	3.29874	4.88341	31.7422	46.1238	0.122085	3778.54
8/17/2006 10:23	13.6583	3.29874	6.83677	31.7422	45.5378	0.24417	3763.89
8/17/2006 10:23	13.6583	3.29874	6.83677	31.7422	45.782	0	3820.05
8/17/2006 10:23	13.6583	3.29874	6.83677	31.7422	45.782	0.366256	3826.15
8/17/2006 10:23	13.6583	3.29874	6.83677	31.7422	45.4157	-0.12209	3812.72
8/17/2006 10:24	13.6583	3.29874	6.83677	32.2305	45.8064	0.24417	3818.83
8/17/2006 10:24	13.5545	3.29874	6.83677	33.4513	45.4157	0.24417	3835.92
8/17/2006 10:24	13.5545	3.29874	6.83677	35.1605	44.732	0	3876.21
8/17/2006 10:24	13.5545	3.29874	4.88341	36.8697	44.9274	0	3874.98
8/17/2006 10:25	13.4477	3.40618	2.93005	38.3348	43.9995	0.24417	3900.62
8/17/2006 10:25	13.347	3.40618	0.976682	39.5556	43.5844	0	3890.86
8/17/2006 10:25	13.347	3.40618	0.976682	40.5323	43.7309	0.24417	3917.71
8/17/2006 10:25	13.347	3.40618	0.976682	41.7531	43.6088	0.122085	3917.71
8/17/2006 10:26	13.2432	3.50629	0.732511	43.2182	43.8774	0.366256	3900.62
8/17/2006 10:26	13.2432	3.50629	0.976682	44.6832	44.0239	0	3929.92
8/17/2006 10:26	13.2432	3.50629	1.22085	45.1715	43.9995	0	3953.12
8/17/2006 10:26	13.35	3.40374	2.93005	45.6599	45.611	0.366256	3982.42
8/17/2006 10:27	13.4538	3.40374	2.93005	46.8807	45.782	-0.12209	3979.98
8/17/2006 10:27	13.4538	3.40374	2.93005	48.1016	45.5378	0.366256	3981.2
8/17/2006 10:27	13.4538	3.40374	3.17422	49.8108	45.8308	0.122085	3990.97
8/17/2006 10:27	13.4538	3.40374	4.88341	51.52	45.8308	0.366256	4011.72
8/17/2006 10:28	13.4538	3.40374	2.93005	52.985	46.1238	-0.12209	4034.92
8/17/2006 10:28	13.3531	3.40374	2.68587	53.4733	45.8552	0.366256	4064.22
8/17/2006 10:28	13.3531	3.40374	4.88341	54.2058	45.4645	0	4086.19

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8/17/2006 10:28	13.3531	3.40374	4.88341	54.6942	45.782	0.366256	4081.31
8/17/2006 10:29	13.3531	3.40374	4.88341	55.1825	46.075	-0.12209	4108.17
8/17/2006 10:29	13.3531	3.40374	4.88341	55.6709	45.9773	0.366256	5064.09
8/17/2006 10:29	13.3531	3.40374	4.88341	56.4034	45.489	0	687.34
8/17/2006 10:29	13.3531	3.40374	2.93005	56.8917	45.5866	0.24417	335.734
8/17/2006 10:30	13.3531	3.40374	4.88341	58.3567	45.3669	-0.12209	233.183
8/17/2006 10:30	13.3531	3.40374	2.93005	59.3334	45.5866	0.366256	175.803
8/17/2006 10:30	13.3531	3.40374	2.93005	59.5776	45.7331	0	141.619
8/17/2006 10:30	13.3531	3.40374	2.93005	59.3334	45.8308	0.24417	113.539
8/17/2006 10:31	13.3531	3.40374	2.93005	59.3334	45.4157	0.24417	96.4473
8/17/2006 10:31	13.3531	3.40374	4.88341	60.0659	46.0261	0.366256	10001.2
8/17/2006 10:31	13.3531	3.40374	4.88341	60.0659	45.8552	0.24417	5529.24
8/17/2006 10:31	13.2524	3.40374	4.88341	60.5543	45.5378	0.488341	5117.81
8/17/2006 10:32	13.2524	3.40374	2.93005	61.0426	45.8796	0.732511	5025.03
8/17/2006 10:32	13.2524	3.40374	2.93005	61.0426	45.7575	0.366256	4137.47
8/17/2006 10:32	13.2524	3.40374	2.93005	61.2868	45.7575	0.24417	3872.54
8/17/2006 10:32	13.2524	3.40374	4.88341	61.0426	45.6355	0.488341	3827.37
8/17/2006 10:33	13.2524	3.40374	4.88341	61.2868	46.2703	0.610426	2447.81
8/17/2006 10:33	13.2524	3.40374	4.88341	60.5543	45.9529	0.24417	992.553
8/17/2006 10:33	13.2524	3.40374	2.68587	60.5543	46.2703	0.732511	561.592
8/17/2006 10:33	13.2524	3.40374	2.93005	60.0659	45.9773	0.488341	1126.85
8/17/2006 10:34	13.2524	3.40374	2.93005	58.6009	45.9773	0.488341	5021.36
8/17/2006 10:34	13.2524	3.40374	2.93005	58.1126	45.782	0.366256	4950.56
8/17/2006 10:34	13.2524	3.40374	2.93005	58.8451	45.8552	0.610426	4054.45
8/17/2006 10:34	13.1486	3.40374	2.93005	58.8451	45.9773	0.24417	3896.96
8/17/2006 10:35	13.1486	3.40374	4.88341	59.0892	45.8064	0.732511	2178
8/17/2006 10:35	13.1486	3.40374	2.93005	58.8451	46.075	0.366256	632.401
8/17/2006 10:35	13.1486	3.40374	2.93005	58.3567	46.6854	0.610426	550.604
8/17/2006 10:35	13.1486	3.40374	2.93005	54.6942	46.7098	0.24417	564.034
8/17/2006 10:36	13.1486	3.40374	2.93005	49.8108	46.6854	0.610426	584.788
8/17/2006 10:36	13.1486	3.40374	2.93005	45.4157	46.8319	0.24417	607.984
8/17/2006 10:36	13.1486	3.40374	2.93005	42.2415	46.4656	0.610426	616.53
8/17/2006 10:36	13.1486	3.40374	2.93005	40.5323	46.4412	0.24417	623.855
8/17/2006 10:37	13.1486	3.40374	3.17422	39.7998	46.8319	0.24417	628.739
8/17/2006 10:37	13.0418	3.40374	2.93005	39.3114	45.6843	0.488341	636.064
8/17/2006 10:37	13.0418	3.40374	2.93005	38.8231	45.3669	0.488341	643.389
8/17/2006 10:37	13.0418	3.40374	0.976682	38.0906	45.6599	0.366256	651.935
8/17/2006 10:38	13.0418	3.40374	0.976682	38.3348	45.6599	0.610426	661.702
8/17/2006 10:38	13.0418	3.40374	0.732511	38.3348	45.3913	0.366256	664.144
8/17/2006 10:38	13.0418	3.40374	0.976682	38.0906	45.8308	0.24417	662.923
8/17/2006 10:38	12.941	3.40374	0.976682	38.5789	45.6843	0.610426	672.69
8/17/2006 10:39	12.941	3.40374	0.976682	38.3348	46.0261	0.488341	666.585
8/17/2006 10:39	12.941	3.40374	0.976682	38.0906	45.782	0.24417	672.69
8/17/2006 10:39	12.941	3.40374	0.976682	38.0906	46.8319	0.488341	680.015

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8/17/2006 10:39	12.941	3.40374	2.93005	38.0906	46.8319	0.366256	684.898
8/17/2006 10:40	12.941	3.40374	2.93005	38.0906	46.4656	0.366256	682.456
8/17/2006 10:40	12.941	3.40374	2.93005	38.0906	46.6366	0.488341	687.34
8/17/2006 10:40	12.941	3.40374	2.93005	38.5789	46.661	0.610426	691.002
8/17/2006 10:40	13.1577	3.30118	4.88341	38.5789	46.368	0.366256	694.665
8/17/2006 10:41	13.1577	3.30118	8.79014	38.8231	46.3191	0.24417	703.211
8/17/2006 10:41	13.1577	3.30118	8.79014	38.8231	46.3924	0.610426	704.432
8/17/2006 10:41	13.1577	3.30118	8.79014	38.8231	46.4656	0.488341	705.653
8/17/2006 10:41	13.1577	3.30118	8.79014	38.8231	46.075	0.122085	701.99
8/17/2006 10:42	13.0509	3.30118	6.83677	38.8231	45.5622	0.610426	705.653
8/17/2006 10:42	12.9502	3.40129	4.88341	39.5556	45.0739	0.24417	706.873
8/17/2006 10:42	12.9502	3.40129	2.93005	39.3114	44.9274	0.610426	715.419
8/17/2006 10:42	12.9502	3.40129	2.93005	39.3114	45.2204	0.24417	716.64
8/17/2006 10:43	12.8495	3.51117	0.976682	39.5556	44.9274	0.24417	719.082
8/17/2006 10:43	12.7426	3.51117	0.976682	39.0673	44.1216	0.732511	723.965
8/17/2006 10:43	12.6419	3.51117	-0.97668	39.3114	44.0972	0.24417	720.303
8/17/2006 10:43	12.6419	3.51117	-0.97668	39.5556	44.2193	0.366256	728.849
8/17/2006 10:44	12.6419	3.51117	-1.22085	40.044	45.2204	0.732511	733.732
8/17/2006 10:44	12.6419	3.51117	0.732511	39.7998	46.5145	0.366256	772.799
8/17/2006 10:44	12.8495	3.41106	0.976682	40.044	46.8319	0.24417	733.732
8/17/2006 10:44	12.9502	3.30607	4.88341	40.044	45.0006	0.610426	739.836
8/17/2006 10:45	13.0662	3.30607	9.03431	39.7998	44.3658	0.24417	738.616
8/17/2006 10:45	13.0662	3.30607	18.8011	40.044	44.6344	0.732511	741.057
8/17/2006 10:45	13.0662	3.30607	14.8944	40.044	44.4879	0.24417	745.941
8/17/2006 10:45	13.0662	3.30607	12.941	40.044	44.2437	0.610426	749.603
8/17/2006 10:46	13.0662	3.30607	10.9877	39.7998	44.1216	0.732511	753.266
8/17/2006 10:46	12.9624	3.30607	29.0563	40.044	39.0917	0.610426	752.045
8/17/2006 10:46	13.6278	3.08387	88.878	39.3114	31.7422	0.24417	743.499
8/17/2006 10:46	13.7376	3.08387	132.829	40.044	29.5935	0.488341	747.162
8/17/2006 10:47	13.7376	3.08387	168.966	42.974	27.3715	0.732511	763.033
8/17/2006 10:47	13.7376	3.08387	280.796	47.6132	25.1496	0.610426	789.891
8/17/2006 10:47	13.7376	3.18642	324.991	53.9617	25.3205	0.488341	824.075
8/17/2006 10:47	13.5087	3.28653	228.788	59.5776	25.8088	0.732511	828.959
8/17/2006 10:48	13.408	3.38909	118.911	61.7751	26.0774	0.24417	811.867
8/17/2006 10:48	13.3073	3.49408	62.996	62.2635	26.5169	0.488341	803.321
8/17/2006 10:48	13.3073	3.49408	42.974	61.7751	26.4925	0.488341	787.45
8/17/2006 10:48	13.3073	3.49408	30.7655	59.3334	26.4681	0.366256	772.799
8/17/2006 10:49	13.3073	3.49408	24.9054	56.8917	26.2239	0.122085	752.045
8/17/2006 10:49	13.3073	3.49408	24.6612	55.1825	25.9797	0.488341	737.395
8/17/2006 10:49	13.3073	3.49408	26.8587	52.985	25.5646	0.366256	730.07
8/17/2006 10:49	13.3073	3.49408	28.8121	51.0316	24.7345	0.24417	720.303
8/17/2006 10:50	13.3073	3.49408	31.0096	49.3224	24.7345	0.366256	712.978
8/17/2006 10:50	13.3073	3.49408	31.0096	47.6132	24.6124	0.610426	700.769
8/17/2006 10:50	13.3073	3.49408	32.963	45.1715	24.6124	0.24417	688.561

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8/17/2006 10:50	13.408	3.49408	34.9164	42.7298	25.174	0.610426	670.248
8/17/2006 10:51	13.408	3.49408	36.8697	41.7531	25.0031	0.24417	660.481
8/17/2006 10:51	13.408	3.49408	38.8231	40.7765	24.6368	0.610426	654.377
8/17/2006 10:51	13.408	3.49408	41.0206	40.5323	24.3194	0.366256	647.052
8/17/2006 10:51	13.408	3.49408	41.0206	40.044	24.1729	0.24417	642.168
8/17/2006 10:52	13.408	3.49408	42.974	40.044	23.6357	0.488341	636.064
8/17/2006 10:52	13.408	3.49408	42.974	39.5556	23.7578	0.122085	627.518
8/17/2006 10:52	13.408	3.49408	42.974	39.3114	23.9043	0.610426	628.739
8/17/2006 10:52	13.408	3.49408	44.9274	39.3114	24.2705	0.610426	627.518
8/17/2006 10:53	13.408	3.49408	46.8807	39.5556	24.417	0.24417	617.751
8/17/2006 10:53	13.408	3.49408	48.8341	38.5789	24.5635	0.610426	621.414
8/17/2006 10:53	13.408	3.49408	46.8807	38.5789	24.5635	0.610426	622.635
8/17/2006 10:53	13.408	3.49408	48.8341	38.3348	24.6856	0.610426	618.972
8/17/2006 10:54	13.5209	3.29386	122.818	37.6022	23.3183	0.366256	621.414
8/17/2006 10:54	13.6949	3.29386	162.862	37.1139	23.7578	0.366256	604.322
8/17/2006 10:54	13.5911	3.39885	118.911	36.3814	24.2705	0.610426	605.543
8/17/2006 10:54	13.5911	3.39885	83.0179	35.8931	23.8555	0.610426	596.997
8/17/2006 10:55	13.5911	3.39885	69.3444	35.8931	24.124	0.610426	599.438
8/17/2006 10:55	13.4904	3.39885	60.7984	35.8931	23.8555	0.854597	598.218
8/17/2006 10:55	13.4904	3.39885	62.7518	36.6256	23.7089	0.610426	594.555
8/17/2006 10:55	13.4904	3.39885	59.0892	36.6256	23.8555	0.488341	583.567
8/17/2006 10:56	13.4904	3.39885	54.9383	36.3814	23.8555	0.366256	590.892
8/17/2006 10:56	13.4904	3.39885	54.9383	36.8697	23.8555	0.488341	586.009
8/17/2006 10:56	13.4904	3.39885	53.2292	36.8697	23.7334	0.610426	589.672
8/17/2006 10:56	13.4904	3.39885	51.0316	37.6022	23.8555	0.366256	582.346
8/17/2006 10:57	13.3836	3.5014	44.9274	37.6022	24.2217	0.366256	688.561
8/17/2006 11:09	13.1822	3.5771	126.969	46.8807	25.76	0.610426	686.119
8/17/2006 11:09	13.0814	3.5771	141.131	52.0083	25.9065	0.24417	695.886
8/17/2006 11:09	12.9654	3.5771	142.84	53.4733	25.8088	0.366256	708.094
8/17/2006 11:09	12.9654	3.67721	150.897	55.915	25.5646	0.732511	759.37
8/17/2006 11:10	12.9654	3.67721	155.048	57.6242	25.5646	0.24417	708.094
8/17/2006 11:10	12.9654	3.67721	154.804	59.3334	25.7111	0.732511	716.64
8/17/2006 11:10	12.9654	3.67721	158.955	60.5543	25.7356	0.24417	715.419
8/17/2006 11:10	12.9654	3.67721	162.862	62.0193	25.7111	0.610426	722.744
8/17/2006 11:11	12.8617	3.67721	153.095	64.7052	25.5158	0.24417	721.524
8/17/2006 11:11	12.8617	3.67721	135.026	65.1935	25.6867	0.610426	728.849
8/17/2006 11:11	12.8617	3.67721	126.969	67.1469	25.5646	0.24417	826.517
8/17/2006 11:11	12.8617	3.67721	122.818	69.5886	25.5646	0.366256	728.849
8/17/2006 11:12	12.8617	3.67721	119.155	70.5653	25.8576	0.732511	737.395
8/17/2006 11:12	12.8617	3.67721	116.958	72.2744	25.7111	0.732511	738.616
8/17/2006 11:12	12.8617	3.67721	116.958	73.007	25.9553	0.366256	738.616
8/17/2006 11:12	12.8617	3.67721	116.958	72.7628	26.0774	0.610426	745.941
8/17/2006 11:13	12.7579	3.67721	113.051	72.2744	26.0774	0.488341	747.162
8/17/2006 11:13	12.7579	3.67721	113.051	72.2744	26.2239	0.488341	736.174

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8/17/2006 11:13	12.7579	3.67721	113.051	73.2511	26.346	0.610426	742.278
8/17/2006 11:13	12.7579	3.67721	120.864	77.1579	26.346	0.732511	749.603
8/17/2006 11:14	12.7579	3.67721	128.922	78.867	26.346	0.488341	745.941
8/17/2006 11:14	12.7579	3.67721	148.944	76.9137	26.346	0.854597	748.382
8/17/2006 11:14	12.8617	3.67721	164.815	73.4953	26.5902	0.732511	753.266
8/17/2006 11:14	12.8617	3.67721	176.779	72.2744	26.4681	0.366256	755.707
8/17/2006 11:15	12.8617	3.67721	178.733	72.5186	26.4925	0.610426	754.487
8/17/2006 11:15	12.8617	3.67721	177.024	72.2744	26.6146	0.488341	756.928
8/17/2006 11:15	12.8617	3.67721	174.826	72.7628	26.8832	0.854597	760.591
8/17/2006 11:15	12.8617	3.67721	172.873	73.007	26.932	0.366256	759.37
8/17/2006 11:16	12.8617	3.67721	170.919	73.7395	26.8099	0.610426	764.253
8/17/2006 11:16	12.761	3.67721	167.013	74.2278	26.8099	0.366256	765.474
8/17/2006 11:16	12.761	3.67721	170.919	74.2278	26.8099	0.488341	774.02
8/17/2006 11:16	12.761	3.67721	172.873	73.4953	26.6878	0.854597	770.358
8/17/2006 11:17	12.761	3.67721	170.919	73.7395	26.8099	0.488341	766.695
8/17/2006 11:17	12.761	3.67721	170.919	73.4953	26.8099	0.976682	772.799
8/17/2006 11:17	12.761	3.67721	177.024	74.2278	26.6634	0.366256	766.695
8/17/2006 11:17	12.761	3.67721	172.873	74.7162	26.6634	0.488341	767.916
8/17/2006 11:18	12.761	3.67721	162.862	75.4487	26.6634	0.732511	771.579
8/17/2006 11:18	12.761	3.67721	158.955	74.472	26.8099	0.976682	772.799
8/17/2006 11:18	12.761	3.67721	158.711	74.7162	26.5169	0.732511	770.358
8/17/2006 11:18	12.761	3.67721	162.862	75.2045	26.3948	0.488341	767.916
8/17/2006 11:19	12.761	3.67721	158.711	75.2045	26.5657	0.854597	778.904
8/17/2006 11:19	12.761	3.67721	165.059	75.2045	26.2972	0.854597	775.241
8/17/2006 11:19	12.761	3.67721	190.941	74.7162	26.4192	0.610426	771.579
8/17/2006 11:19	12.761	3.67721	220.73	74.7162	27.0052	0.976682	782.566
8/17/2006 11:20	12.761	3.67721	236.845	75.2045	26.4437	0.854597	782.566
8/17/2006 11:20	12.761	3.67721	229.032	76.6695	26.6878	0.488341	782.566
8/17/2006 11:20	12.761	3.67721	223.172	76.4253	26.639	0.854597	782.566
8/17/2006 11:20	12.761	3.67721	222.928	75.937	26.7611	0.366256	781.345
8/17/2006 11:21	12.761	3.67721	232.939	75.937	26.639	0.732511	792.333
8/17/2006 11:21	12.761	3.67721	222.928	76.4253	26.7611	0.488341	788.67
8/17/2006 11:21	12.761	3.67721	216.823	76.4253	26.639	0.854597	785.008
8/17/2006 11:21	12.761	3.67721	218.777	76.6695	26.639	0.610426	788.67
8/17/2006 11:22	12.6572	3.67721	208.766	76.9137	26.5169	0.732511	785.008
8/17/2006 11:22	12.6572	3.67721	187.035	77.1579	26.3948	0.732511	797.216
8/17/2006 11:22	12.6572	3.67721	178.977	77.1579	26.3948	0.488341	794.775
8/17/2006 11:22	12.6572	3.67721	176.779	77.1579	26.3948	0.976682	797.216
8/17/2006 11:23	12.6572	3.67721	174.826	77.1579	26.5169	0.610426	793.554
8/17/2006 11:23	12.6572	3.67721	167.013	76.9137	26.5169	0.610426	797.216
8/17/2006 11:23	12.6572	3.67721	158.955	76.4253	26.7855	0.610426	804.542
8/17/2006 11:23	12.6572	3.67721	163.106	76.4253	26.7611	0.610426	802.1
8/17/2006 11:24	12.6572	3.67721	174.826	77.1579	26.6146	0.610426	797.216
8/17/2006 11:24	12.6572	3.67721	175.07	77.8904	26.7367	0.488341	793.554

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8/17/2006 11:24	12.5565	3.77732	168.966	77.6462	26.7122	0.854597	800.879
8/17/2006 11:24	12.5565	3.77732	168.966	77.6462	26.7122	0.732511	806.983
8/17/2006 11:25	12.5565	3.77732	166.768	77.6462	26.8587	0.732511	802.1
8/17/2006 11:25	12.5565	3.77732	160.664	77.6462	26.8587	0.732511	806.983
8/17/2006 11:25	12.5565	3.77732	160.908	78.1345	26.7122	0.488341	802.1
8/17/2006 11:25	12.5565	3.77732	157.002	77.6462	26.8343	0.610426	802.1
8/17/2006 11:26	12.5565	3.77732	152.851	77.8904	26.8343	0.854597	806.983
8/17/2006 11:26	12.5565	3.77732	150.897	78.3787	26.7122	0.488341	808.204
8/17/2006 11:26	12.5565	3.77732	158.955	79.8437	26.8587	0.610426	804.542
8/17/2006 11:26	12.5565	3.77732	160.908	79.8437	26.7122	0.854597	804.542
8/17/2006 11:27	12.5565	3.77732	148.944	79.3554	26.8587	0.488341	810.646
8/17/2006 11:27	12.5565	3.77732	145.037	78.867	26.7367	0.610426	804.542
8/17/2006 11:27	12.5565	3.77732	152.851	78.867	26.7367	0.488341	814.308
8/17/2006 11:27	12.5565	3.77732	155.292	79.3554	26.7367	0.366256	816.75
8/17/2006 11:28	12.4557	3.77732	146.991	78.6229	26.7367	0.732511	824.075
8/17/2006 11:28	12.4557	3.77732	142.84	78.867	26.5902	0.488341	819.192
8/17/2006 11:28	12.4557	3.77732	140.886	78.6229	26.7122	0.732511	821.634
8/17/2006 11:28	12.4557	3.77732	138.933	79.3554	26.5902	0.488341	816.75
8/17/2006 11:29	12.4557	3.77732	150.897	80.8204	26.5902	0.610426	824.075
8/17/2006 11:29	12.4557	3.77732	157.002	80.5762	26.8587	0.488341	822.854
8/17/2006 11:29	12.4557	3.77732	160.908	80.3321	26.8587	0.732511	825.296
8/17/2006 11:29	12.4557	3.77732	177.024	80.5762	26.8587	0.610426	826.517
8/17/2006 11:30	12.4557	3.77732	206.812	80.3321	26.9808	0.488341	827.738
8/17/2006 11:30	12.4557	3.77732	229.032	80.5762	26.9808	0.976682	832.621
8/17/2006 11:30	12.4557	3.77732	254.914	81.3088	26.8587	0.488341	835.063
8/17/2006 11:30	12.4557	3.77732	278.843	81.0646	26.8587	0.610426	839.946
8/17/2006 11:31	12.4557	3.77732	274.936	81.7971	26.8587	0.610426	832.621
8/17/2006 11:31	12.4557	3.77732	264.925	82.2854	27.1273	0.854597	833.842
8/17/2006 11:31	12.4557	3.77732	256.867	82.2854	26.8832	0.732511	849.713
8/17/2006 11:31	12.4557	3.77732	254.914	81.7971	27.1273	0.366256	847.271
8/17/2006 11:32	12.4557	3.77732	252.961	81.7971	27.1273	0.732511	844.83
8/17/2006 11:32	12.4557	3.77732	256.867	82.5296	27.1518	0.732511	846.051
8/17/2006 11:32	12.4557	3.77732	267.122	82.7738	27.2738	0.366256	850.934
8/17/2006 11:32	12.4557	3.77732	268.832	83.5063	27.2738	0.854597	860.701
8/17/2006 11:33	12.4557	3.77732	261.018	83.0179	27.1518	0.366256	855.817
8/17/2006 11:33	12.4557	3.77732	235.136	82.2854	27.1518	0.732511	857.038
8/17/2006 11:33	12.4557	3.77732	220.974	83.0179	27.2983	0.854597	860.701
8/17/2006 11:33	12.4557	3.77732	214.87	83.7505	27.1762	0.366256	855.817
8/17/2006 11:34	12.355	3.77732	210.963	83.9946	27.3227	0.488341	860.701
8/17/2006 11:34	12.355	3.77732	212.917	84.2388	27.0785	0.732511	866.805
8/17/2006 11:34	12.355	3.77732	190.941	84.2388	27.0785	0.488341	858.259
8/17/2006 11:34	12.355	3.77732	170.919	84.2388	26.8099	0.732511	861.922
8/17/2006 11:35	12.2543	3.77732	162.862	85.2155	26.6634	0.610426	859.48
8/17/2006 11:35	12.2543	3.77732	152.851	85.948	26.8099	0.488341	874.13

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8/17/2006 11:35	12.2543	3.77732	148.944	85.948	26.6634	0.610426	871.688
8/17/2006 11:35	12.2543	3.77732	150.897	85.948	26.6634	0.488341	869.247
8/17/2006 11:36	12.2543	3.77732	153.095	85.7038	26.6634	0.488341	876.572
8/17/2006 11:36	12.2543	3.77732	150.897	86.6805	26.5413	0.488341	875.351
8/17/2006 11:36	12.2543	3.77732	152.851	87.1688	26.4192	0.976682	877.793
8/17/2006 11:36	12.2543	3.77732	150.897	86.9247	26.5657	0.732511	870.468
8/17/2006 11:37	12.2543	3.77732	150.897	87.1688	26.7122	0.854597	882.676
8/17/2006 11:37	12.2543	3.77732	152.851	86.9247	26.5169	0.976682	881.455
8/17/2006 11:37	12.2543	3.77732	168.966	86.9247	26.8099	0.610426	882.676
8/17/2006 11:37	12.2543	3.77732	190.941	87.1688	26.9564	0.610426	893.664
8/17/2006 11:38	12.2543	3.77732	198.999	87.6572	26.7611	0.854597	896.105
8/17/2006 11:38	12.2543	3.77732	204.859	88.3897	26.639	0.488341	887.56
8/17/2006 11:38	12.2543	3.77732	212.917	88.878	26.7611	0.732511	899.768
8/17/2006 11:38	12.2543	3.77732	246.856	88.878	26.9076	0.976682	903.431
8/17/2006 11:39	12.2543	3.77732	291.051	89.3664	26.6146	0.488341	898.547
8/17/2006 11:39	12.2543	3.77732	300.818	90.0989	27.0541	0.610426	900.989
8/17/2006 11:39	12.2543	3.77732	318.887	89.3664	26.9564	0.976682	903.431
8/17/2006 11:39	12.2543	3.77732	340.862	89.6105	26.9564	0.732511	908.314
8/17/2006 11:40	12.2543	3.77732	343.059	89.8547	26.9564	0.366256	910.756
8/17/2006 11:40	12.2543	3.77732	326.944	90.5872	27.0785	0.732511	916.86
8/17/2006 11:40	12.2543	3.77732	312.782	90.8314	26.9564	0.854597	919.302
8/17/2006 11:40	12.2543	3.77732	308.876	90.5872	26.9564	0.366256	907.093
8/17/2006 11:41	12.2543	3.77732	293.005	91.0756	26.9808	0.854597	918.081
8/17/2006 11:41	12.2543	3.77732	274.936	92.2964	26.9808	0.732511	918.081
8/17/2006 11:41	12.2543	3.77732	268.832	93.0289	27.1273	0.366256	904.651
8/17/2006 11:41	12.2543	3.77732	258.821	92.2964	27.1273	0.488341	910.756
8/17/2006 11:42	12.1536	3.77732	244.903	92.5406	27.0052	0.854597	915.639
8/17/2006 11:42	12.1536	3.77732	229.032	93.0289	26.8832	0.488341	929.068
8/17/2006 11:42	12.1536	3.77732	194.848	93.5173	26.5902	0.366256	925.406
8/17/2006 11:42	12.1536	3.77732	168.966	92.7848	26.8099	0.854597	929.068
8/17/2006 11:43	12.1536	3.77732	160.908	93.5173	26.8099	0.366256	927.848
8/17/2006 11:43	12.0529	3.77732	152.851	93.5173	26.8099	0.488341	933.952
8/17/2006 11:43	12.0529	3.87743	136.98	94.0056	26.8099	0.732511	935.173
8/17/2006 11:43	12.0529	3.87743	128.922	94.0056	26.932	0.610426	946.16
8/17/2006 11:44	12.0529	3.87743	126.724	94.0056	26.932	0.854597	942.498
8/17/2006 11:44	12.0529	3.87743	126.969	93.7614	26.8099	0.366256	944.94
8/17/2006 11:44	12.0529	3.87743	136.98	94.7381	26.9564	0.488341	941.277
8/17/2006 11:44	12.0529	3.87743	157.002	95.7148	27.1029	0.488341	937.614
8/17/2006 11:45	12.0529	3.87743	194.848	96.4473	27.1029	0.488341	935.173
8/17/2006 11:45	12.0529	3.87743	227.079	95.959	27.4936	0.732511	943.719
8/17/2006 11:45	12.0529	3.87743	237.089	96.2031	27.4692	0.366256	944.94
8/17/2006 11:45	12.0529	3.87743	236.845	96.9357	27.2983	0.366256	954.706
8/17/2006 11:46	12.0529	3.87743	239.043	97.6682	27.2983	0.488341	955.927
8/17/2006 11:46	12.0529	3.87743	237.089	97.6682	27.4203	0.610426	949.823

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8/17/2006 11:46	12.0529	3.87743	247.1	97.6682	27.1518	0.488341	962.031
8/17/2006 11:46	12.0529	3.87743	260.774	98.889	27.1518	0.732511	970.577
8/17/2006 11:47	12.0529	3.87743	261.018	99.3774	27.1762	0.366256	982.786
8/17/2006 11:47	12.0529	3.87743	250.763	99.3774	27.2983	0.366256	980.344
8/17/2006 11:47	12.0529	3.87743	242.95	99.3774	27.2738	0.610426	976.682
8/17/2006 11:47	12.0529	3.87743	240.996	99.6215	27.2738	0.610426	984.007
8/17/2006 11:48	12.0529	3.87743	229.032	99.8657	27.1518	0.610426	984.007
8/17/2006 11:48	12.0529	3.87743	264.925	100.598	26.9076	0.610426	990.111
8/17/2006 11:48	12.0529	3.87743	304.969	101.087	26.6146	0.488341	985.228
8/17/2006 11:48	12.0529	3.87743	288.854	101.331	26.8587	0.610426	990.111
8/17/2006 11:49	12.0529	3.87743	246.856	101.087	27.0052	0.24417	991.332
8/17/2006 11:49	12.0529	3.87743	214.87	101.575	27.0052	0.488341	996.215
8/17/2006 11:49	12.0529	3.87743	177.024	102.307	27.1518	0.732511	1001.1
8/17/2006 11:49	11.9521	3.87743	167.013	102.307	27.0297	0.488341	999.878
8/17/2006 11:50	12.0529	3.87743	170.919	102.307	27.2983	0.488341	1004.76
8/17/2006 11:50	12.0529	3.87743	166.768	102.063	27.5668	0.610426	1012.09
8/17/2006 11:50	12.0529	3.87743	150.897	101.819	27.4203	0.366256	1005.98
8/17/2006 11:50	12.0529	3.87743	132.829	101.819	27.5668	0.488341	1005.98
8/17/2006 11:51	12.0529	3.77732	121.109	102.552	27.1273	0.610426	1004.76
8/17/2006 11:51	12.0529	3.77732	126.969	102.307	27.1518	0.854597	999.878
8/17/2006 11:51	12.0529	3.77732	140.886	101.819	27.2983	0.488341	988.89
8/17/2006 11:51	12.1536	3.77732	140.886	101.087	27.2983	0.366256	992.553
8/17/2006 11:52	12.1536	3.77732	132.829	101.087	27.4203	0.854597	996.215
8/17/2006 11:52	12.1536	3.77732	136.98	101.819	27.1518	0.854597	996.215
8/17/2006 11:52	12.1536	3.77732	130.875	102.307	27.2738	0.488341	984.007
8/17/2006 11:52	12.1536	3.77732	118.911	103.04	27.3227	0.366256	980.344
8/17/2006 11:53	12.1536	3.77732	116.713	102.307	27.3227	0.366256	985.228
8/17/2006 11:53	12.1536	3.77732	114.76	101.575	27.0541	0.732511	991.332
8/17/2006 11:53	12.1536	3.77732	115.004	102.307	27.0541	0.24417	986.449
8/17/2006 11:53	12.1536	3.77732	111.098	102.796	27.1762	0.366256	986.449
8/17/2006 11:54	12.0468	3.77732	101.087	103.284	27.2006	0.24417	980.344
8/17/2006 11:54	12.0468	3.77732	96.9357	103.528	27.4692	0.732511	997.436
8/17/2006 11:54	12.0468	3.77732	93.0289	102.796	27.4692	0.24417	988.89
8/17/2006 11:54	12.0468	3.77732	86.9247	102.796	27.6157	0.732511	990.111
8/17/2006 11:55	12.0468	3.77732	83.0179	103.528	27.6157	0.24417	991.332
8/17/2006 11:55	12.0468	3.77732	76.9137	103.528	27.7622	0.732511	996.215
8/17/2006 11:55	12.0468	3.66988	112.807	103.528	27.6157	0.24417	994.995
8/17/2006 11:55	12.0468	3.66988	180.93	104.017	27.4936	0.854597	994.995
8/17/2006 11:56	12.0468	3.66988	210.963	104.017	27.2494	0.24417	987.669
8/17/2006 11:56	12.0468	3.66988	209.01	104.261	27.3715	0.610426	993.774
8/17/2006 11:56	12.0468	3.66988	200.952	104.749	27.6401	0.732511	1002.32
8/17/2006 11:56	12.0468	3.66988	180.93	105.237	27.3715	0.366256	993.774
8/17/2006 11:57	12.0468	3.66988	167.013	105.97	27.518	0.24417	981.565
8/17/2006 11:57	12.0468	3.66988	146.991	105.482	27.2494	0.488341	988.89

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8/17/2006 11:57	11.9399	3.66988	109.144	105.97	26.8343	0.488341	993.774
8/17/2006 11:57	11.9399	3.66988	74.9603	106.458	27.1029	0.610426	987.669
8/17/2006 11:58	11.9399	3.66988	64.9493	105.726	27.1029	0.610426	987.669
8/17/2006 11:58	11.9399	3.66988	66.9027	105.726	26.7122	0.732511	992.553
8/17/2006 11:58	11.9399	3.66988	62.7518	106.214	27.1518	0.732511	992.553
8/17/2006 11:58	11.9399	3.66988	58.6009	106.947	27.4203	0.488341	987.669
8/17/2006 11:59	11.8362	3.66988	58.8451	107.435	27.2738	0.24417	992.553
8/17/2006 11:59	11.8362	3.66988	61.0426	107.923	27.0297	0.24417	998.657
8/17/2006 11:59	11.8362	3.66988	58.8451	108.656	27.1518	0.610426	996.215
8/17/2006 11:59	11.8362	3.66988	56.8917	109.388	27.1518	0.732511	994.995
8/17/2006 12:00	11.8362	3.66988	56.8917	111.098	26.7611	0.366256	1002.32
8/17/2006 12:00	11.8362	3.66988	74.7162	113.539	27.0541	0.366256	1007.2
8/17/2006 12:00	11.8362	3.66988	99.1332	114.516	27.7622	0.366256	1012.09
8/17/2006 12:00	11.8362	3.66988	110.853	115.737	27.8843	0.610426	1010.87
8/17/2006 12:01	11.8362	3.66988	118.911	117.202	27.7133	0.488341	1015.75
8/17/2006 12:01	11.8362	3.66988	116.958	119.399	27.9819	0.24417	1016.97
8/17/2006 12:01	11.8362	3.66988	108.9	120.62	27.9819	0.366256	1010.87
8/17/2006 12:01	11.8362	3.66988	108.9	121.109	27.9819	0.488341	1015.75
8/17/2006 12:02	11.8362	3.66988	110.853	121.109	27.9819	0.732511	1009.64
8/17/2006 12:02	11.8362	3.66988	116.958	121.841	27.8598	0.24417	1007.2
8/17/2006 12:02	11.8362	3.66988	107.191	123.062	28.0063	0.366256	1014.53
8/17/2006 12:02	11.8362	3.66988	98.889	124.771	27.8598	0.610426	1014.53
8/17/2006 12:03	11.8362	3.66988	99.1332	126.48	27.8598	0.732511	1016.97
8/17/2006 12:03	11.8362	3.66988	98.889	126.724	27.7378	0.24417	1027.96
8/17/2006 12:03	11.8362	3.66988	98.889	127.457	27.6157	0.366256	1026.74
8/17/2006 12:03	11.8362	3.66988	91.0756	127.945	27.7622	0.732511	1026.74
8/17/2006 12:04	11.7354	3.66988	83.0179	128.678	27.9575	0.488341	1030.4
8/17/2006 12:04	11.7354	3.66988	78.867	128.678	27.8354	0.366256	1024.29
8/17/2006 12:04	11.7354	3.66988	76.9137	129.654	28.0063	0.366256	1035.28
8/17/2006 12:04	11.7354	3.66988	80.8204	131.12	27.8598	0.366256	1036.5
8/17/2006 12:05	11.7354	3.66988	100.842	132.096	27.9819	0.366256	1036.5
8/17/2006 12:05	11.7354	3.66988	118.911	132.096	27.7378	0.24417	1035.28
8/17/2006 12:05	11.7354	3.66988	125.015	132.829	27.6157	0.366256	1030.4
8/17/2006 12:05	11.7354	3.66988	123.062	133.317	27.6157	0.366256	1038.95
8/17/2006 12:06	11.7354	3.66988	118.911	133.805	27.6401	0.366256	1046.27
8/17/2006 12:06	11.7354	3.66988	115.004	134.538	27.811	0.488341	1046.27
8/17/2006 12:06	11.7354	3.66988	116.958	135.026	27.811	0.366256	1043.83
8/17/2006 12:06	11.7354	3.66988	116.958	135.759	27.8354	0.24417	1040.17
8/17/2006 12:07	11.7354	3.66988	115.004	136.735	27.8354	0.366256	1046.27
8/17/2006 12:07	11.7354	3.66988	119.155	137.468	27.7133	0.24417	1051.15
8/17/2006 12:07	11.7354	3.66988	118.911	138.2	27.7133	0.24417	1054.82
8/17/2006 12:07	11.7354	3.66988	120.864	137.224	27.7378	0.732511	1053.6
8/17/2006 12:08	11.7354	3.66988	121.109	136.247	27.9087	0.24417	1058.48
8/17/2006 12:08	11.6347	3.66988	112.807	135.759	28.2017	0.488341	1073.13

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8/17/2006 12:08	11.6347	3.66988	110.853	136.98	28.0552	0.732511	1068.25
8/17/2006 12:08	11.6347	3.66988	113.051	137.468	27.811	0.610426	1074.35
8/17/2006 12:09	11.6347	3.66988	109.144	137.712	27.6645	0.24417	1078.01
8/17/2006 12:09	11.6347	3.66988	104.993	136.735	27.518	0.488341	1073.13
8/17/2006 12:09	11.6347	3.66988	100.842	136.247	27.6645	0.366256	1075.57
8/17/2006 12:09	11.6347	3.66988	96.9357	136.491	27.3959	0.610426	1069.47
8/17/2006 12:10	11.534	3.66988	88.878	136.003	27.3715	0.24417	1073.13
8/17/2006 12:10	11.534	3.66988	78.867	136.247	27.6401	0.610426	1084.12
8/17/2006 12:10	11.534	3.66988	73.007	136.247	27.4936	0.366256	1086.56
8/17/2006 12:10	11.534	3.77243	66.9027	135.759	27.6157	0.366256	1078.01
8/17/2006 12:11	11.4272	3.77243	64.9493	133.317	27.6157	0.488341	1086.56
8/17/2006 12:11	11.4272	3.77243	66.9027	131.608	27.6157	0.366256	1090.22
8/17/2006 12:11	11.4272	3.77243	68.8561	130.387	27.8843	0.24417	1089
8/17/2006 12:11	11.4272	3.77243	69.1002	129.654	27.7133	0.24417	1093.88
8/17/2006 12:12	11.4272	3.77243	66.6585	129.166	27.8598	0.732511	1104.87
8/17/2006 12:12	11.4272	3.77243	64.9493	129.654	27.8598	0.24417	1107.31
8/17/2006 12:12	11.4272	3.77243	70.8094	129.899	27.8598	0.366256	1104.87
8/17/2006 12:12	11.4272	3.77243	87.1688	129.654	27.9819	0.610426	1091.44
8/17/2006 12:13	11.4272	3.77243	96.9357	129.41	27.9819	0.488341	1104.87
8/17/2006 12:13	11.4272	3.77243	103.04	129.899	27.9819	0.24417	1107.31
8/17/2006 12:13	11.4272	3.77243	100.842	129.166	27.7133	0.610426	1109.75
8/17/2006 12:13	11.4272	3.77243	96.9357	130.387	27.9575	0.488341	1102.43
8/17/2006 12:14	11.4272	3.77243	100.842	132.34	27.811	0.24417	1113.42
8/17/2006 12:14	11.4272	3.77243	98.889	133.317	27.9331	0.488341	1117.08
8/17/2006 12:14	11.4272	3.77243	88.878	132.829	27.811	0.24417	1130.51
8/17/2006 12:14	11.4272	3.77243	93.0289	132.096	27.6645	0.366256	1119.52
8/17/2006 12:15	11.4272	3.77243	108.9	132.585	27.6645	0.732511	1128.07
8/17/2006 12:15	11.4272	3.77243	126.969	134.05	27.6645	0.488341	1131.73
8/17/2006 12:15	11.4272	3.77243	135.026	134.538	27.9331	0.24417	1131.73
8/17/2006 12:15	11.4272	3.77243	125.015	134.538	28.0552	0.24417	1131.73
8/17/2006 12:16	11.4272	3.77243	118.911	135.759	28.0552	0.488341	1141.5
8/17/2006 12:16	11.4272	3.77243	115.004	135.759	27.6645	0.488341	1146.38
8/17/2006 12:16	11.3265	3.77243	112.807	136.247	27.6645	0.366256	1153.71
8/17/2006 12:16	11.3265	3.77243	116.958	138.2	27.6645	0.366256	1161.03
8/17/2006 12:17	11.3265	3.77243	123.062	140.398	27.518	0.24417	1151.26
8/17/2006 12:17	11.3265	3.77243	118.911	141.131	27.518	0.610426	1143.94
8/17/2006 12:17	11.3265	3.77243	115.004	141.619	27.6401	0.366256	1148.82
8/17/2006 12:17	11.3265	3.77243	116.958	143.328	27.6401	0.732511	1158.59
8/17/2006 12:18	11.3265	3.77243	116.713	145.281	27.518	0.122085	1154.93
8/17/2006 12:18	11.3265	3.77243	115.004	145.526	27.7622	0.610426	1150.04
8/17/2006 12:18	11.3265	3.77243	108.9	146.991	27.9087	0.24417	1143.94
8/17/2006 12:18	11.3265	3.77243	108.9	149.188	27.9087	0.610426	1147.6
8/17/2006 12:19	11.3265	3.77243	109.144	151.63	28.0552	0.24417	1158.59
8/17/2006 12:19	11.3265	3.77243	106.947	153.583	28.0552	0.488341	1167.13

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8/17/2006 12:19	11.3265	3.77243	109.144	154.072	27.9331	0.610426	1162.25
8/17/2006 12:19	11.3265	3.77243	104.993	156.025	28.0552	0.24417	1162.25
8/17/2006 12:20	11.2257	3.77243	98.889	157.49	28.0552	0.24417	1157.37
8/17/2006 12:20	11.2257	3.77243	94.9823	158.711	28.0552	0.24417	1162.25
8/17/2006 12:20	11.2257	3.77243	90.8314	159.199	28.1773	0.24417	1169.58
8/17/2006 12:20	11.2257	3.77243	91.0756	159.932	27.8598	0.24417	1163.47
8/17/2006 12:21	11.2257	3.77243	88.878	160.42	27.8598	0.366256	1161.03
8/17/2006 12:21	11.2257	3.77243	90.8314	160.908	28.0308	0.610426	1158.59
8/17/2006 12:21	11.2257	3.77243	88.878	161.397	28.0308	0.366256	1162.25
8/17/2006 12:21	11.2257	3.77243	80.8204	162.129	28.2749	0.24417	1176.9
8/17/2006 12:22	11.2257	3.77243	76.9137	163.35	28.0063	0.488341	1183.01
8/17/2006 12:22	11.2257	3.77243	76.9137	162.862	28.1529	0.732511	1181.78
8/17/2006 12:22	11.2257	3.77243	78.867	162.129	28.2749	0.488341	1175.68
8/17/2006 12:22	11.2257	3.77243	78.867	162.862	28.1529	0.488341	1176.9
8/17/2006 12:23	11.2257	3.77243	80.8204	163.838	28.1529	0.488341	1190.33
8/17/2006 12:23	11.2257	3.77243	80.8204	165.059	28.397	0.366256	1189.11
8/17/2006 12:23	11.2257	3.77243	75.2045	164.083	28.4214	0.610426	1181.78
8/17/2006 12:23	11.122	3.77243	73.007	163.594	28.5679	0.366256	1176.9
8/17/2006 12:24	11.122	3.77243	86.9247	163.35	28.0796	0.732511	1191.55
8/17/2006 12:24	11.122	3.77243	96.9357	164.571	28.2017	0.732511	1201.32
8/17/2006 12:24	11.122	3.77243	93.0289	165.303	28.2017	0.610426	1203.76
8/17/2006 12:24	11.122	3.77243	88.878	165.303	28.0552	0.610426	1198.88
8/17/2006 12:25	11.122	3.77243	123.062	166.036	28.0552	0.24417	1202.54
8/17/2006 12:25	11.2257	3.77243	188.988	166.524	27.6401	0.24417	1202.54
8/17/2006 12:25	11.2257	3.77243	230.985	167.501	27.7622	0.366256	1196.44
8/17/2006 12:25	11.2257	3.77243	266.878	168.233	27.6157	0.366256	1197.66
8/17/2006 12:26	11.2257	3.77243	272.738	167.013	27.7622	0.610426	1202.54
8/17/2006 12:26	11.2257	3.77243	251.007	167.013	27.4692	0.610426	1197.66
8/17/2006 12:26	11.2257	3.77243	233.183	167.501	27.3471	0.366256	1201.32
8/17/2006 12:26	11.2257	3.77243	204.859	167.501	27.1029	0.610426	1214.75
8/17/2006 12:27	11.2257	3.77243	162.862	167.501	27.0541	0.732511	1214.75
8/17/2006 12:27	11.122	3.77243	135.026	166.524	27.1762	0.24417	1207.42
8/17/2006 12:27	11.122	3.77243	119.155	163.838	27.5424	0.610426	1208.64
8/17/2006 12:27	11.122	3.77243	108.9	163.106	27.4203	0.732511	1208.64
8/17/2006 12:28	11.0151	3.77243	86.9247	162.373	27.5668	0.488341	1211.09
8/17/2006 12:28	11.0151	3.77243	71.0536	160.42	27.5424	0.24417	1211.09
8/17/2006 12:28	11.0151	3.77243	64.9493	157.734	27.5424	0.24417	1211.09
8/17/2006 12:28	11.0151	3.77243	62.996	156.757	27.4203	0.24417	1214.75
8/17/2006 12:29	11.0151	3.77243	62.7518	156.757	27.2983	0.732511	1224.51
8/17/2006 12:29	11.0151	3.77243	60.7984	157.002	27.2983	0.610426	1225.74
8/17/2006 12:29	11.0151	3.77243	56.8917	156.269	27.5668	0.24417	1224.51
8/17/2006 12:29	11.0151	3.77243	62.996	157.002	27.3959	0.366256	1231.84
8/17/2006 12:30	11.0151	3.77243	62.996	157.002	27.518	0.488341	1226.96
8/17/2006 12:30	11.0151	3.77243	66.9027	156.513	27.518	0.488341	1236.72

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8/17/2006 12:30	11.0151	3.77243	76.9137	156.269	27.6645	0.610426	1241.61
8/17/2006 12:30	11.1159	3.77243	88.878	156.269	27.6645	0.366256	1236.72
8/17/2006 12:31	11.1159	3.77243	106.947	157.002	27.9819	0.366256	1241.61
8/17/2006 12:31	11.1159	3.77243	142.84	157.734	27.9819	0.732511	1239.16
8/17/2006 12:31	11.1159	3.77243	177.024	157.49	27.8598	0.24417	1233.06
8/17/2006 12:31	11.1159	3.77243	186.79	158.711	27.8598	0.366256	1248.93
8/17/2006 12:32	11.1159	3.77243	188.744	159.443	27.8598	0.732511	1251.37
8/17/2006 12:32	11.1159	3.77243	198.999	159.443	27.7378	0.24417	1247.71
8/17/2006 12:32	11.1159	3.77243	209.01	158.222	27.6157	0.488341	1252.59
8/17/2006 12:32	11.1159	3.77243	204.859	158.222	27.3471	0.488341	1252.59
8/17/2006 12:33	11.1159	3.77243	177.024	158.711	27.4692	0.366256	1245.27
8/17/2006 12:33	11.1159	3.77243	162.862	159.443	27.3471	0.610426	1258.7
8/17/2006 12:33	11.1159	3.77243	158.955	159.443	27.4448	0.122085	1253.82
8/17/2006 12:33	11.1159	3.77243	145.037	159.687	27.4448	0.366256	1256.26
8/17/2006 12:34	11.1159	3.77243	118.911	159.932	27.1518	0.610426	1266.02
8/17/2006 12:34	11.0121	3.77243	91.0756	159.199	27.2006	0.24417	1262.36
8/17/2006 12:34	11.0121	3.77243	78.867	159.443	27.0541	0.488341	1257.48
8/17/2006 12:34	11.0121	3.77243	74.9603	160.42	27.1762	0.24417	1255.04
8/17/2006 12:35	11.0121	3.77243	69.1002	160.664	27.2494	0.24417	1258.7
8/17/2006 12:35	11.0121	3.77243	66.9027	159.932	27.1029	0.488341	1262.36
8/17/2006 12:35	11.0121	3.77243	68.8561	159.199	27.1029	0.24417	1263.58
8/17/2006 12:35	11.0121	3.77243	68.8561	159.443	26.9808	0.488341	1269.69
8/17/2006 12:36	11.0121	3.77243	62.7518	159.687	27.2983	0.610426	1277.01
8/17/2006 12:36	11.0121	3.77243	56.8917	159.443	27.4203	0.366256	1272.13
8/17/2006 12:36	11.0121	3.77243	62.7518	159.199	27.1518	0.366256	1264.8
8/17/2006 12:36	11.0121	3.77243	83.0179	159.932	27.2983	0.610426	1269.69
8/17/2006 12:37	11.0121	3.77243	113.051	160.42	27.8354	0.366256	1267.24
8/17/2006 12:37	11.0121	3.77243	125.015	160.664	27.6889	0.488341	1278.23
8/17/2006 12:37	11.0121	3.77243	128.922	160.42	27.811	0.366256	1266.02
8/17/2006 12:37	11.0121	3.77243	132.829	160.42	27.6889	0.610426	1268.47
8/17/2006 12:38	11.0121	3.77243	136.98	159.932	27.4203	0.488341	1268.47
8/17/2006 12:38	11.0121	3.77243	132.829	159.932	27.7133	0.610426	1272.13
8/17/2006 12:38	11.0121	3.77243	130.875	161.152	27.7133	0.488341	1283.12
8/17/2006 12:38	11.0121	3.77243	133.073	161.152	27.8598	0.366256	1277.01
8/17/2006 12:39	11.0121	3.77243	135.026	160.908	27.4448	0.366256	1281.89
8/17/2006 12:39	11.0121	3.77243	132.829	161.152	27.7133	0.610426	1281.89
8/17/2006 12:39	11.0121	3.77243	130.875	161.152	27.7133	0.24417	1273.35
8/17/2006 12:39	11.0121	3.77243	135.026	160.908	27.5668	0.488341	1266.02
8/17/2006 12:40	11.0121	3.77243	145.037	160.42	27.5668	0.488341	1269.69
8/17/2006 12:40	11.0121	3.77243	142.84	160.42	27.5668	0.610426	1269.69
8/17/2006 12:40	11.0121	3.77243	130.875	160.664	27.5668	0.488341	1284.34
8/17/2006 12:40	11.0121	3.77243	125.015	161.152	27.9087	0.366256	1285.56
8/17/2006 12:41	11.0121	3.77243	125.015	161.641	28.0308	0.366256	1281.89
8/17/2006 12:41	11.0121	3.77243	125.015	160.908	27.9087	0.24417	1280.67

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8/17/2006 12:41	11.0121	3.77243	118.911	160.42	28.1529	0.732511	1279.45
8/17/2006 12:41	11.0121	3.77243	118.911	160.42	28.0063	0.366256	1275.79
8/17/2006 12:42	11.0121	3.77243	115.004	160.42	27.8843	0.732511	1278.23
8/17/2006 12:42	11.0121	3.77243	96.9357	159.932	27.7622	0.488341	1277.01
8/17/2006 12:42	11.0121	3.77243	76.9137	159.932	27.8843	0.366256	1269.69
8/17/2006 12:42	11.0121	3.77243	68.8561	160.176	27.8843	0.488341	1275.79
8/17/2006 12:43	11.0121	3.77243	62.996	160.42	28.0063	0.24417	1273.35
8/17/2006 12:43	11.0121	3.77243	62.7518	160.42	27.8598	0.610426	1283.12
8/17/2006 12:43	11.0121	3.77243	62.996	161.641	27.5668	0.488341	1294.1
8/17/2006 12:43	11.0121	3.77243	64.9493	160.908	27.6889	0.24417	1284.34
8/17/2006 12:44	11.0121	3.77243	60.7984	160.908	27.6889	0.610426	1285.56
8/17/2006 12:44	10.9083	3.77243	56.8917	161.885	27.811	0.366256	1275.79
8/17/2006 12:44	10.9083	3.77243	58.8451	162.129	27.7133	0.610426	1285.56
8/17/2006 12:44	10.9083	3.77243	64.7052	161.885	27.7133	0.366256	1296.54
8/17/2006 12:45	11.009	3.77243	94.9823	161.152	28.104	0.488341	1286.78
8/17/2006 12:45	11.009	3.77243	136.98	161.152	27.9575	0.488341	1300.21
8/17/2006 12:45	11.009	3.77243	152.851	161.641	27.9575	0.488341	1292.88
8/17/2006 12:45	11.009	3.77243	155.048	162.373	28.2017	0.610426	1295.32
8/17/2006 12:46	11.009	3.77243	146.746	162.862	27.7622	0.732511	1289.22
8/17/2006 12:46	11.009	3.77243	138.933	162.862	27.6157	0.366256	1303.87
8/17/2006 12:46	11.009	3.77243	151.386	162.862	27.7622	0.24417	1305.09
8/17/2006 12:46	11.009	3.77243	153.095	162.129	28.0552	0.488341	1297.77
8/17/2006 12:47	11.009	3.77243	145.037	162.862	28.0063	0.732511	1303.87
8/17/2006 12:47	11.009	3.77243	145.037	162.862	27.7133	0.488341	1309.97
8/17/2006 12:47	11.009	3.77243	135.026	163.35	28.0063	0.488341	1311.2
8/17/2006 12:47	11.009	3.77243	130.875	163.35	28.0063	0.366256	1308.75
8/17/2006 12:48	11.009	3.77243	135.026	163.35	28.0063	0.488341	1309.97
8/17/2006 12:48	11.009	3.77243	132.829	162.862	28.0063	0.488341	1307.53
8/17/2006 12:48	11.009	3.77243	119.155	162.129	28.0063	0.122085	1308.75
8/17/2006 12:48	11.009	3.77243	100.842	163.838	27.4203	0.732511	1316.08
8/17/2006 12:49	10.9053	3.77243	88.878	164.815	27.225	0.366256	1308.75
8/17/2006 12:49	10.9053	3.77243	84.9713	164.571	27.6401	0.610426	1316.08
8/17/2006 12:49	10.9053	3.77243	81.0646	163.35	27.811	0.122085	1317.3
8/17/2006 12:49	10.9053	3.77243	80.8204	163.594	27.2494	0.488341	1312.42
8/17/2006 12:50	10.9053	3.77243	84.9713	162.862	27.3715	0.488341	1314.86
8/17/2006 12:50	10.9053	3.77243	80.8204	162.862	27.2494	0.366256	1317.3
8/17/2006 12:50	10.9053	3.77243	78.867	162.862	27.1273	0.610426	1316.08
8/17/2006 12:50	10.9053	3.77243	78.867	163.594	27.2494	0.24417	1318.52
8/17/2006 12:51	10.9053	3.77243	78.867	164.083	27.1029	0.610426	1322.18
8/17/2006 12:51	10.9053	3.77243	76.9137	164.083	27.1029	0.24417	1314.86
8/17/2006 12:51	10.9053	3.77243	76.9137	163.594	27.1029	0.24417	1328.29
8/17/2006 12:51	10.9053	3.77243	74.9603	163.35	27.2494	0.610426	1328.29
8/17/2006 12:52	10.9053	3.77243	74.9603	163.594	27.4936	0.24417	1329.51
8/17/2006 12:52	10.9053	3.77243	78.867	164.815	27.4936	0.488341	1333.17

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8/17/2006 12:52	10.9053	3.77243	82.7738	165.303	27.6157	0.610426	1335.61
8/17/2006 12:52	10.9053	3.77243	86.9247	165.792	27.2006	0.24417	1336.83
8/17/2006 12:53	10.9053	3.77243	88.878	164.571	27.0297	0.610426	1335.61
8/17/2006 12:53	10.9053	3.77243	84.9713	162.618	27.3227	0.366256	1331.95
8/17/2006 12:53	10.9053	3.77243	110.853	162.862	27.7378	0.366256	1330.73
8/17/2006 12:53	11.0121	3.77243	190.941	164.571	27.8598	0.732511	1335.61
8/17/2006 12:54	11.0121	3.77243	262.972	165.792	27.7133	0.488341	1334.39
8/17/2006 12:54	11.0121	3.77243	284.947	165.303	27.6157	0.24417	1334.39
8/17/2006 12:54	11.0121	3.77243	288.854	164.815	27.4692	0.732511	1338.05
8/17/2006 12:54	11.0121	3.77243	261.018	164.083	27.2738	0.488341	1340.5
8/17/2006 12:55	11.0121	3.77243	190.941	163.594	27.2738	0.24417	1334.39
8/17/2006 12:55	11.0121	3.77243	120.864	164.083	26.6146	0.488341	1342.94
8/17/2006 12:55	11.0121	3.77243	84.7271	165.303	27.0297	0.488341	1350.26
8/17/2006 12:55	11.0121	3.77243	76.9137	165.303	26.8832	0.610426	1341.72
8/17/2006 12:56	11.0121	3.77243	70.8094	163.35	26.8832	0.732511	1338.05
8/17/2006 12:56	10.9114	3.77243	67.1469	163.35	26.7611	0.488341	1336.83
8/17/2006 12:56	10.9114	3.77243	68.8561	164.083	26.7611	0.24417	1339.27
8/17/2006 12:56	10.9114	3.77243	68.8561	164.083	26.7611	0.732511	1355.15
8/17/2006 12:57	10.9114	3.77243	64.9493	164.571	27.0297	0.488341	1355.15
8/17/2006 12:57	10.9114	3.77243	61.0426	165.303	26.9076	0.24417	1351.48
8/17/2006 12:57	10.9114	3.77243	62.996	164.815	26.9076	0.488341	1355.15
8/17/2006 12:57	10.9114	3.77243	64.9493	163.106	26.7855	0.488341	1346.6
8/17/2006 12:58	10.9114	3.77243	66.9027	163.35	26.9076	0.610426	1346.6
8/17/2006 12:58	10.9114	3.77243	66.9027	164.571	27.2006	0.24417	1350.26
8/17/2006 12:58	10.9114	3.77243	96.9357	166.036	27.3715	0.610426	1364.91
8/17/2006 12:58	11.0212	3.77243	142.84	165.303	27.6645	0.24417	1356.37
8/17/2006 12:59	11.0212	3.77243	173.117	164.571	27.518	0.732511	1352.7
8/17/2006 12:59	11.0212	3.77243	178.977	166.28	27.6645	0.24417	1345.38
8/17/2006 12:59	11.0212	3.77243	197.046	167.013	27.3471	0.366256	1345.38
8/17/2006 12:59	11.0212	3.77243	204.859	167.013	27.518	0.732511	1352.7
8/17/2006 13:00	11.0212	3.77243	210.963	165.792	27.3715	0.488341	1353.93
8/17/2006 13:00	11.0212	3.77243	190.941	166.524	27.3471	0.24417	1356.37
8/17/2006 13:00	11.0212	3.77243	154.804	166.28	27.3471	0.488341	1356.37
8/17/2006 13:00	11.0212	3.77243	140.886	165.792	27.3471	0.732511	1360.03
8/17/2006 13:01	11.0212	3.77243	132.829	165.059	27.2983	0.610426	1356.37
8/17/2006 13:01	11.0212	3.77243	98.889	164.083	27.0297	0.122085	1358.81
8/17/2006 13:01	11.0212	3.77243	69.1002	164.327	26.7611	0.366256	1369.8
8/17/2006 13:01	10.9205	3.77243	58.8451	165.303	26.9076	0.366256	1368.58
8/17/2006 13:02	10.9205	3.77243	54.9383	165.059	26.9076	0.366256	1369.8
8/17/2006 13:02	10.9205	3.77243	52.985	165.303	26.639	0.610426	1358.81
8/17/2006 13:02	10.9205	3.77243	52.7408	166.28	26.9076	0.366256	1358.81
8/17/2006 13:02	10.9205	3.77243	54.9383	167.013	26.932	0.732511	1362.47
8/17/2006 13:03	10.9205	3.77243	52.7408	165.792	27.0541	0.24417	1367.35
8/17/2006 13:03	10.9205	3.77243	52.985	164.083	27.4692	0.610426	1373.46

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8/17/2006 13:03	10.9205	3.77243	58.8451	163.106	27.4692	0.488341	1371.02
8/17/2006 13:03	11.0212	3.77243	94.9823	162.862	27.4692	0.366256	1366.13
8/17/2006 13:04	11.0212	3.77243	126.969	163.35	27.4692	0.610426	1371.02
8/17/2006 13:04	11.0212	3.77243	132.829	164.571	27.5913	0.488341	1372.24
8/17/2006 13:04	11.0212	3.77243	142.84	166.036	27.3715	0.366256	1363.69
8/17/2006 13:04	11.0212	3.77243	152.851	165.792	27.2494	0.366256	1363.69
8/17/2006 13:05	11.0212	3.77243	146.746	164.815	27.3715	0.732511	1368.58
8/17/2006 13:05	11.0212	3.77243	145.037	163.838	27.4936	0.610426	1346.6
8/17/2006 13:05	11.0212	3.77243	146.991	164.571	27.6157	0.488341	1382
8/17/2006 13:05	11.0212	3.77243	148.944	165.548	27.6157	0.488341	1377.12
8/17/2006 13:06	11.0212	3.77243	155.048	166.524	27.6157	0.854597	1382
8/17/2006 13:06	11.0212	3.77243	140.886	165.303	27.4692	0.854597	1385.67
8/17/2006 13:06	11.0212	3.77243	114.76	164.083	27.3227	0.610426	1388.11
8/17/2006 13:06	11.0212	3.77243	96.9357	164.571	27.3227	0.610426	1385.67
8/17/2006 13:07	11.0212	3.77243	94.9823	164.571	27.2006	0.488341	1386.89
8/17/2006 13:07	11.0212	3.77243	98.889	165.303	27.2006	0.610426	1378.34
8/17/2006 13:07	11.0212	3.77243	96.9357	165.303	27.0785	0.732511	1375.9
8/17/2006 13:07	11.0212	3.77243	92.7848	165.303	27.0785	0.854597	1379.56
8/17/2006 13:08	11.0212	3.77243	86.9247	164.571	26.9564	0.488341	1371.02
8/17/2006 13:08	11.0212	3.77243	64.7052	162.862	26.9808	0.732511	1383.23
8/17/2006 13:08	11.0212	3.77243	46.8807	162.373	26.5902	0.24417	1383.23
8/17/2006 13:08	11.0212	3.77243	41.0206	162.373	26.7122	0.366256	1375.9
8/17/2006 13:09	11.0212	3.77243	39.0673	162.129	26.7122	0.610426	1369.8
8/17/2006 13:09	11.0212	3.77243	36.8697	161.641	26.5902	0.24417	1373.46
8/17/2006 13:09	11.0212	3.77243	40.7765	160.908	26.7122	0.732511	1384.45
8/17/2006 13:09	11.0212	3.77243	51.0316	161.641	26.7122	0.366256	1367.35
8/17/2006 13:10	11.125	3.77243	74.9603	163.106	27.0052	0.488341	1372.24
8/17/2006 13:10	11.125	3.77243	98.889	162.862	27.0052	0.976682	1375.9
8/17/2006 13:10	11.125	3.77243	101.087	163.106	27.3227	0.488341	1374.68
8/17/2006 13:10	11.125	3.77243	98.889	162.129	27.2006	0.732511	1380.78
8/17/2006 13:11	11.125	3.77243	106.947	162.862	27.0297	0.366256	1371.02
8/17/2006 13:11	11.125	3.77243	104.993	162.129	27.0541	0.610426	1369.8
8/17/2006 13:11	11.125	3.77243	98.889	162.373	26.9076	0.488341	1371.02
8/17/2006 13:11	11.125	3.77243	96.9357	161.641	27.0541	0.732511	1361.25
8/17/2006 13:12	11.125	3.77243	98.889	161.885	27.0052	0.610426	1362.47
8/17/2006 13:12	11.125	3.77243	98.889	161.641	27.2494	0.610426	1368.58
8/17/2006 13:12	11.125	3.77243	94.7381	161.152	27.2494	0.732511	1373.46
8/17/2006 13:12	11.125	3.77243	94.9823	159.932	27.2494	0.24417	1369.8
8/17/2006 13:13	11.125	3.77243	94.9823	160.42	27.4203	0.488341	1361.25
8/17/2006 13:13	11.125	3.77243	94.7381	162.373	27.4203	0.854597	1363.69
8/17/2006 13:13	11.125	3.77243	98.889	162.618	27.2983	0.366256	1364.91
8/17/2006 13:13	11.125	3.77243	103.04	162.129	27.4203	0.610426	1373.46
8/17/2006 13:14	11.125	3.77243	98.889	162.373	27.2983	0.488341	1377.12
8/17/2006 13:14	11.125	3.77243	101.087	162.129	27.0297	0.488341	1371.02

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8/17/2006 13:14	11.125	3.77243	103.04	162.129	26.7855	0.610426	1378.34
8/17/2006 13:14	11.125	3.77243	98.889	161.641	26.7855	0.854597	1373.46
8/17/2006 13:15	11.2288	3.77243	93.0289	161.152	27.0785	0.24417	1371.02
8/17/2006 13:15	11.2288	3.77243	88.878	162.129	27.0785	0.732511	1373.46
8/17/2006 13:15	11.2288	3.77243	86.9247	162.129	27.0785	0.488341	1364.91
8/17/2006 13:15	11.2288	3.77243	86.9247	161.641	26.9564	0.24417	1377.12
8/17/2006 13:16	11.2288	3.77243	84.9713	160.42	26.9564	0.24417	1375.9
8/17/2006 13:16	11.2288	3.77243	84.9713	159.932	26.9564	0.488341	1377.12
8/17/2006 13:16	11.2288	3.77243	88.878	160.42	26.9564	0.488341	1378.34
8/17/2006 13:16	11.2288	3.77243	91.0756	162.862	27.0052	0.854597	1362.47
8/17/2006 13:17	11.2288	3.77243	91.0756	163.35	26.7367	0.732511	1379.56
8/17/2006 13:17	11.2288	3.77243	83.0179	162.129	27.0297	0.366256	1372.24
8/17/2006 13:17	11.2288	3.77243	86.9247	162.129	26.7367	0.366256	1378.34
8/17/2006 13:17	11.2288	3.77243	88.878	163.594	26.9076	0.610426	1380.78
8/17/2006 13:18	11.2288	3.77243	84.7271	163.838	26.7611	0.732511	1375.9
8/17/2006 13:18	11.2288	3.77243	83.0179	163.594	26.7611	0.732511	1384.45
8/17/2006 13:18	11.2288	3.77243	81.0646	162.862	26.639	0.24417	1377.12
8/17/2006 13:18	11.2288	3.77243	76.9137	162.862	26.639	0.610426	1379.56
8/17/2006 13:19	11.2288	3.77243	78.867	162.862	26.7855	0.610426	1378.34
8/17/2006 13:19	11.2288	3.77243	78.867	162.862	26.7855	0.24417	1373.46
8/17/2006 13:19	11.2288	3.77243	74.9603	162.373	26.9076	0.610426	1388.11
8/17/2006 13:19	11.2288	3.77243	74.9603	161.641	26.5169	0.24417	1385.67
8/17/2006 13:20	11.2288	3.77243	74.7162	162.618	26.639	0.610426	1388.11
8/17/2006 13:20	11.2288	3.77243	79.1112	163.35	26.639	0.488341	1375.9
8/17/2006 13:20	11.2288	3.77243	77.402	162.862	26.639	0.732511	1382
8/17/2006 13:20	11.2288	3.77243	72.7628	161.641	27.0541	0.488341	1372.24
8/17/2006 13:21	11.2288	3.77243	74.9603	160.908	26.932	0.610426	1363.69
8/17/2006 13:21	11.2288	3.77243	76.9137	161.885	26.8099	0.732511	1371.02
8/17/2006 13:21	11.2288	3.77243	73.007	162.862	26.9564	0.366256	1375.9
8/17/2006 13:21	11.2288	3.77243	68.8561	163.594	26.9564	0.24417	1380.78
8/17/2006 13:22	11.2288	3.77243	65.1935	163.35	26.9564	0.732511	1379.56
8/17/2006 13:22	11.2288	3.77243	62.996	162.862	26.9564	0.24417	1384.45
8/17/2006 13:22	11.2288	3.77243	64.7052	162.129	26.8099	0.366256	1386.89
8/17/2006 13:22	11.2288	3.77243	66.9027	162.618	26.8099	0.610426	1374.68
8/17/2006 13:23	11.2288	3.77243	66.9027	164.083	26.8343	0.610426	1345.38
8/17/2006 13:23	11.2288	3.77243	64.9493	164.327	27.0052	0.732511	1346.6
8/17/2006 13:23	11.4669	3.87498	44.9274	135.515	32.5968	0.610426	1351.48
8/17/2006 13:23	11.4607	4.25589	16.8478	86.4363	41.509	0.366256	1252.59
8/17/2006 13:24	11.5615	4.14357	2.93005	68.1236	42.8519	0.366256	1180.56
8/17/2006 13:24	12.0132	3.8115	0.732511	64.461	44.7564	0.854597	1163.47
8/17/2006 13:24	12.2329	3.70651	0.976682	62.7518	45.318	0.610426	1141.5
8/17/2006 13:24	12.3337	3.70651	2.93005	61.7751	45.025	0.366256	1129.29
8/17/2006 13:25	12.3337	3.70651	4.88341	60.5543	44.6099	0.488341	1129.29
8/17/2006 13:25	12.4344	3.6064	4.88341	61.0426	44.4634	0.732511	1130.51

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8/17/2006 13:25	12.4344	3.6064	4.88341	59.5776	44.8297	0.854597	1126.85
8/17/2006 13:25	12.4344	3.6064	4.88341	58.6009	44.3902	0.366256	1110.98
8/17/2006 13:26	12.4344	3.6064	4.88341	59.3334	44.1216	0.610426	1106.09
8/17/2006 13:26	12.4344	3.6064	4.88341	58.6009	44.4146	0.854597	1109.75
8/17/2006 13:26	12.4344	3.6064	6.83677	57.6242	44.1704	0.488341	1110.98
8/17/2006 13:26	12.5351	3.6064	6.83677	58.1126	44.2925	0.732511	1110.98
8/17/2006 13:27	12.5351	3.6064	6.83677	58.1126	44.3169	0.610426	1106.09
8/17/2006 13:27	12.5351	3.6064	6.83677	57.6242	44.0728	0.610426	1101.21
8/17/2006 13:27	12.5351	3.6064	7.08094	57.1359	44.2193	0.366256	1107.31
8/17/2006 13:27	12.5351	3.6064	7.08094	56.4034	44.5123	0.610426	1102.43
8/17/2006 13:28	12.5351	3.6064	6.83677	56.1592	44.3414	0.854597	1108.53
8/17/2006 13:28	12.5351	3.6064	7.08094	57.1359	44.2681	0.366256	1102.43
8/17/2006 13:28	12.5351	3.6064	4.88341	58.1126	44.5611	0.732511	1102.43
8/17/2006 13:28	12.4283	3.6064	4.88341	59.3334	44.9762	0.366256	1110.98
8/17/2006 13:29	12.4283	3.6064	2.93005	59.0892	44.9274	0.854597	1110.98
8/17/2006 13:29	12.4283	3.6064	2.93005	58.8451	45.025	0.488341	1104.87
8/17/2006 13:29	12.4283	3.6064	2.93005	58.1126	44.8053	0.610426	1101.21
8/17/2006 13:29	12.4283	3.6064	2.93005	57.6242	45.2448	0.366256	1103.65
8/17/2006 13:30	12.3276	3.6064	0.732511	57.3801	45.6355	0.732511	1112.2
8/17/2006 13:30	12.3276	3.6064	0.976682	57.1359	45.7575	0.610426	1106.09
8/17/2006 13:30	12.3276	3.6064	0.976682	56.8917	45.904	0.24417	1106.09
8/17/2006 13:30	12.3276	3.6064	0.976682	57.3801	45.611	0.488341	1104.87
8/17/2006 13:31	12.3276	3.6064	0.732511	57.6242	45.904	0.610426	1113.42
8/17/2006 13:31	12.3276	3.6064	0.976682	57.3801	46.3435	0.732511	1110.98
8/17/2006 13:31	12.3276	3.6064	0.976682	57.1359	46.5145	0.488341	1114.64
8/17/2006 13:31	12.4283	3.6064	0.976682	56.1592	46.9051	0.732511	1113.42
8/17/2006 13:32	12.4283	3.6064	2.93005	56.4034	46.3191	0.366256	1115.86
8/17/2006 13:32	12.4283	3.6064	2.93005	55.915	45.8064	0.610426	1118.3
8/17/2006 13:32	12.4283	3.6064	2.93005	55.4267	45.8064	0.732511	1121.96
8/17/2006 13:32	12.4283	3.50629	4.88341	53.9617	45.6599	0.366256	1120.74
8/17/2006 13:33	12.4283	3.50629	4.88341	53.9617	45.4157	0.488341	1115.86
8/17/2006 13:33	12.529	3.50629	4.88341	53.4733	45.9285	0.732511	1124.4
8/17/2006 13:33	12.529	3.50629	2.93005	53.4733	46.0017	0.366256	1119.52
8/17/2006 13:33	12.529	3.50629	4.88341	53.4733	45.2204	0.24417	1118.3
8/17/2006 13:34	12.529	3.50629	4.88341	55.1825	45.2692	0.610426	1120.74
8/17/2006 13:34	12.529	3.50629	2.93005	55.915	45.611	0.488341	1121.96
8/17/2006 13:34	12.529	3.50629	2.93005	55.1825	45.4645	0.732511	1121.96
8/17/2006 13:34	12.529	3.50629	4.88341	54.6942	45.4645	0.610426	1125.63
8/17/2006 13:35	12.529	3.50629	5.12758	53.9617	45.2692	0.610426	1119.52
8/17/2006 13:35	12.529	3.50629	4.88341	53.9617	45.7087	0.854597	1131.73
8/17/2006 13:35	12.529	3.50629	4.88341	53.9617	45.4645	0.488341	1129.29
8/17/2006 13:35	12.529	3.50629	2.93005	53.9617	44.8785	0.488341	1130.51
8/17/2006 13:36	12.529	3.50629	4.63924	54.2058	44.8541	0.854597	1136.61
8/17/2006 13:36	12.529	3.50629	2.93005	53.7175	45.4157	0.366256	1131.73

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8/17/2006 13:36	12.529	3.50629	2.93005	54.6942	45.5622	0.488341	1137.83
8/17/2006 13:36	12.529	3.50629	2.93005	55.1825	45.7087	0.488341	1129.29
8/17/2006 13:37	12.529	3.50629	2.93005	55.6709	45.318	0.732511	1136.61
8/17/2006 13:37	12.529	3.50629	5.12758	55.6709	45.318	0.366256	1132.95
8/17/2006 13:37	12.529	3.50629	2.68587	55.6709	45.611	0.854597	1136.61
8/17/2006 13:37	12.529	3.50629	2.93005	56.1592	45.5866	0.488341	1131.73
8/17/2006 13:38	12.529	3.50629	2.93005	57.1359	45.7087	0.488341	1139.06
8/17/2006 13:38	12.529	3.50629	2.93005	57.1359	45.8308	0.366256	1135.39
8/17/2006 13:38	12.529	3.50629	2.93005	56.8917	45.5866	0.366256	1136.61
8/17/2006 13:38	12.529	3.50629	2.93005	56.8917	45.5866	0.366256	1145.16
8/17/2006 13:39	12.529	3.50629	2.68587	57.1359	45.6599	0.854597	1142.72
8/17/2006 13:39	12.529	3.50629	2.93005	55.6709	45.6599	0.610426	1146.38
8/17/2006 13:39	12.529	3.50629	2.68587	55.6709	45.6599	0.732511	1147.6
8/17/2006 13:39	12.529	3.50629	2.93005	55.6709	45.8064	0.366256	1150.04
8/17/2006 13:40	12.529	3.50629	2.93005	55.6709	45.5622	0.732511	1156.15
8/17/2006 13:40	12.529	3.50629	2.93005	55.915	45.3669	0.488341	1152.48
8/17/2006 13:40	12.529	3.50629	2.93005	55.1825	45.0983	0.366256	1156.15
8/17/2006 13:40	12.529	3.50629	2.93005	55.1825	45.3669	0.610426	1161.03
8/17/2006 13:41	12.529	3.50629	2.68587	53.9617	45.3669	0.610426	1162.25
8/17/2006 13:41	12.4283	3.50629	2.93005	54.2058	45.2448	0.24417	1162.25
8/17/2006 13:41	12.4283	3.50629	2.93005	54.6942	45.2448	0.366256	1164.69
8/17/2006 13:41	12.4283	3.50629	2.93005	55.6709	45.1227	0.854597	1169.58
8/17/2006 13:42	12.529	3.50629	2.93005	57.6242	45.2204	0.488341	1165.91
8/17/2006 13:42	12.529	3.50629	2.93005	58.3567	45.5622	0.366256	1169.58
8/17/2006 13:42	12.529	3.50629	2.93005	55.6709	45.2936	0.732511	1174.46
8/17/2006 13:42	12.529	3.50629	2.93005	54.2058	45.4157	0.488341	1169.58
8/17/2006 13:43	12.529	3.50629	2.93005	53.4733	45.4157	0.366256	1164.69
8/17/2006 13:43	12.529	3.50629	2.93005	53.9617	45.2692	0.610426	1173.24
8/17/2006 13:43	12.529	3.50629	2.68587	55.6709	45.2448	0.854597	1178.12
8/17/2006 13:43	12.529	3.50629	2.93005	56.8917	45.8796	0.610426	1179.34
8/17/2006 13:44	12.529	3.50629	0.976682	56.1592	45.3669	0.610426	1176.9
8/17/2006 13:44	12.529	3.50629	2.68587	55.6709	45.8064	0.610426	1175.68
8/17/2006 13:44	12.529	3.50629	2.93005	55.6709	45.4157	0.366256	1175.68
8/17/2006 13:44	12.529	3.50629	2.93005	56.4034	45.2692	0.610426	1180.56
8/17/2006 13:45	12.4283	3.50629	2.93005	56.4034	45.2936	0.610426	1185.45
8/17/2006 13:45	12.4283	3.50629	2.93005	56.1592	45.5622	0.24417	1185.45
8/17/2006 13:45	12.529	3.50629	2.93005	57.1359	45.8064	0.488341	1181.78
8/17/2006 13:45	12.529	3.50629	0.976682	58.1126	45.5134	0.732511	1185.45
8/17/2006 13:46	12.529	3.50629	0.732511	58.6009	45.5134	0.854597	1186.67
8/17/2006 13:46	12.529	3.50629	2.93005	58.8451	45.7575	0.366256	1185.45
8/17/2006 13:46	12.529	3.50629	2.93005	58.8451	44.4634	0.488341	1187.89
8/17/2006 13:46	12.529	3.50629	4.88341	59.3334	44.3169	0.732511	1201.32
8/17/2006 13:47	12.529	3.50629	4.88341	59.3334	44.7564	0.732511	1202.54
8/17/2006 13:47	12.529	3.50629	4.88341	59.5776	44.6099	0.610426	1204.98

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8/17/2006 13:47	12.529	3.50629	4.88341	59.3334	44.6099	0.488341	1203.76
8/17/2006 13:47	12.529	3.50629	4.88341	59.5776	44.4634	0.610426	1211.09
8/17/2006 13:48	12.529	3.50629	5.12758	59.3334	44.8785	0.488341	1209.86
8/17/2006 13:48	12.529	3.50629	4.88341	59.3334	44.439	0.732511	1218.41
8/17/2006 13:48	12.529	3.50629	4.88341	59.3334	44.5123	0.488341	1220.85
8/17/2006 13:48	12.529	3.50629	4.88341	59.3334	44.4634	0.366256	1218.41
8/17/2006 13:49	12.529	3.50629	4.88341	59.3334	44.8785	0.854597	1222.07
8/17/2006 13:49	12.529	3.50629	4.88341	59.8218	44.5611	0.488341	1228.18
8/17/2006 13:49	12.529	3.50629	4.88341	59.8218	44.4146	0.24417	1222.07
8/17/2006 13:49	12.529	3.50629	2.93005	59.0892	44.4146	0.732511	1225.74
8/17/2006 13:50	12.529	3.50629	2.93005	59.3334	44.5855	0.366256	1231.84
8/17/2006 13:50	12.529	3.50629	2.93005	59.3334	45.0006	0.610426	1234.28
8/17/2006 13:50	12.529	3.50629	2.93005	59.8218	44.8541	0.732511	1237.94
8/17/2006 13:50	12.529	3.50629	2.93005	61.0426	44.7076	0.488341	1241.61
8/17/2006 13:51	12.529	3.50629	2.93005	61.0426	44.7564	0.610426	1242.83
8/17/2006 13:51	12.529	3.50629	0.732511	60.5543	45.0739	0.610426	1240.39
8/17/2006 13:51	12.529	3.50629	2.93005	61.0426	45.0739	0.488341	1239.16
8/17/2006 13:51	12.529	3.50629	2.93005	61.0426	45.025	0.854597	1246.49
8/17/2006 13:52	12.529	3.50629	2.93005	61.7751	45.1227	0.366256	1245.27
8/17/2006 13:52	12.4283	3.50629	2.93005	61.5309	44.9029	0.732511	1250.15
8/17/2006 13:52	12.4283	3.50629	2.93005	61.5309	45.0006	0.732511	1251.37
8/17/2006 13:52	12.4283	3.50629	2.93005	61.7751	45.9529	0.366256	1251.37
8/17/2006 13:53	12.4283	3.50629	2.93005	61.5309	45.3913	0.732511	1256.26
8/17/2006 13:53	12.3215	3.50629	0.976682	62.2635	45.8064	0.24417	1255.04
8/17/2006 13:53	12.3215	3.50629	0.732511	63.4843	45.5622	0.732511	1263.58
8/17/2006 13:53	12.3215	3.50629	0.976682	65.4377	45.1715	0.488341	1264.8
8/17/2006 13:54	12.3215	3.50629	0.976682	66.4144	45.1715	0.366256	1264.8
8/17/2006 13:54	12.3215	3.50629	0.976682	67.391	44.4634	0.366256	1269.69
8/17/2006 13:54	12.3215	3.50629	2.68587	68.1236	44.6099	0.732511	1268.47
8/17/2006 13:54	12.3215	3.50629	2.93005	69.3444	44.6588	0.366256	1273.35
8/17/2006 13:55	12.3215	3.50629	2.68587	69.8327	45.0739	0.732511	1284.34
8/17/2006 13:55	12.3215	3.50629	2.93005	70.5653	44.7809	0.24417	1281.89
8/17/2006 13:55	12.3215	3.50629	2.93005	71.5419	44.9029	0.732511	1280.67
8/17/2006 13:55	12.3215	3.50629	2.93005	73.007	44.4146	0.732511	1297.77
8/17/2006 13:56	12.4252	3.50629	2.93005	74.472	45.0739	0.488341	1295.32
8/17/2006 13:56	12.4252	3.50629	2.93005	76.4253	44.6588	0.732511	1294.1
8/17/2006 13:56	12.4252	3.50629	2.93005	78.1345	44.4146	0.366256	1291.66
8/17/2006 13:56	12.4252	3.50629	2.93005	79.5996	44.4146	0.732511	1307.53
8/17/2006 13:57	12.4252	3.50629	2.93005	81.7971	44.1216	0.366256	1302.65
8/17/2006 13:57	12.4252	3.50629	2.93005	82.7738	44.1216	0.610426	1314.86
8/17/2006 13:57	12.4252	3.50629	2.93005	82.7738	42.974	0.610426	1319.74
8/17/2006 13:57	12.5351	3.50629	4.88341	83.5063	41.8996	0.854597	1323.4
8/17/2006 13:58	12.5351	3.50629	6.83677	85.2155	42.0461	0.732511	1318.52
8/17/2006 13:58	12.5351	3.50629	7.08094	87.413	41.8264	0.610426	1316.08

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8/17/2006 13:58	12.5351	3.50629	7.08094	88.1455	42.1194	0.488341	1323.4
8/17/2006 13:58	12.5351	3.50629	7.08094	87.413	41.7531	0.610426	1325.85
8/17/2006 13:59	12.5351	3.40618	6.83677	87.6572	41.6066	0.732511	1327.07
8/17/2006 13:59	12.5351	3.40618	6.83677	88.1455	41.6311	0.24417	1325.85
8/17/2006 13:59	12.5351	3.40618	6.83677	89.3664	41.802	0.366256	1329.51
8/17/2006 13:59	12.5351	3.50629	6.83677	89.8547	42.4124	0.732511	1331.95
8/17/2006 14:00	12.4283	3.50629	4.88341	89.1222	42.4124	0.24417	1335.61
8/17/2006 14:00	12.4283	3.50629	2.93005	90.0989	42.8763	0.488341	1339.27
8/17/2006 14:00	12.4283	3.50629	2.68587	90.5872	42.6077	0.610426	1341.72
8/17/2006 14:00	12.4283	3.50629	2.93005	90.3431	42.7542	0.488341	1344.16
8/17/2006 14:01	12.4283	3.50629	2.93005	90.5872	43.2182	0.24417	1342.94
8/17/2006 14:01	12.3215	3.50629	0.976682	91.3197	43.8774	0.24417	1347.82
8/17/2006 14:01	12.3215	3.50629	2.93005	91.8081	44.1216	0.610426	1351.48
8/17/2006 14:01	12.3215	3.50629	0.732511	91.8081	44.1216	0.854597	1364.91
8/17/2006 14:02	12.3215	3.50629	0.976682	90.8314	44.3658	0.366256	1357.59
8/17/2006 14:02	12.2207	3.6064	2.93005	91.0756	45.2204	0.610426	1357.59
8/17/2006 14:02	12.239	3.6064	2.93005	92.2964	44.0972	0.610426	1357.59
8/17/2006 14:02	12.239	3.6064	5.12758	93.2731	43.7798	0.366256	1360.03
8/17/2006 14:03	12.3489	3.50629	2.93005	94.2498	44.5611	0.488341	1363.69
8/17/2006 14:03	12.3489	3.50629	2.93005	92.7848	44.732	0.732511	1358.81
8/17/2006 14:03	12.3489	3.50629	2.93005	91.8081	44.6099	0.610426	1367.35
8/17/2006 14:03	12.3489	3.50629	2.93005	91.0756	44.3169	0.366256	1366.13
8/17/2006 14:04	12.3489	3.50629	0.732511	91.3197	44.3169	0.488341	1378.34
8/17/2006 14:04	12.3489	3.50629	0.732511	91.0756	44.3658	0.854597	1378.34
8/17/2006 14:04	12.3489	3.50629	0.976682	91.0756	44.2193	0.24417	1385.67
8/17/2006 14:04	12.3489	3.50629	0.976682	91.0756	44.5611	0.366256	1386.89
8/17/2006 14:05	12.3489	3.50629	0.732511	90.0989	43.8286	0.488341	1386.89
8/17/2006 14:05	12.3489	3.50629	0.976682	89.8547	44.7076	0.366256	1388.11
8/17/2006 14:05	12.3489	3.50629	0.976682	90.0989	44.8541	0.610426	1389.33
8/17/2006 14:05	12.3489	3.50629	2.93005	88.6339	43.5844	0.488341	1396.65
8/17/2006 14:06	12.4557	3.50629	2.93005	85.2155	43.4623	0.366256	1401.54
8/17/2006 14:06	12.4557	3.50629	2.93005	81.5529	42.9007	0.366256	1401.54
8/17/2006 14:06	12.4557	3.50629	4.88341	79.3554	43.0472	0.366256	1403.98
8/17/2006 14:06	12.4557	3.50629	2.93005	78.1345	42.5589	0.366256	1408.86
8/17/2006 14:07	12.5565	3.50629	4.88341	77.6462	42.8519	0.732511	1408.86
8/17/2006 14:07	12.5565	3.50629	4.88341	77.6462	42.7298	0.732511	1416.19
8/17/2006 14:07	12.5565	3.40618	4.88341	76.9137	42.7054	0.732511	1416.19
8/17/2006 14:07	12.5565	3.40618	4.88341	76.4253	42.5589	0.366256	1416.19
8/17/2006 14:08	12.5565	3.40618	7.08094	76.1812	42.388	0.610426	1418.63
8/17/2006 14:08	12.5565	3.40618	6.83677	77.6462	42.6566	0.366256	1419.85
8/17/2006 14:08	12.4527	3.40618	4.88341	78.6229	42.6566	0.732511	1425.96
8/17/2006 14:08	12.4527	3.50629	2.93005	79.3554	43.2426	0.366256	1416.19
8/17/2006 14:09	12.4527	3.50629	2.93005	78.6229	43.5112	0.488341	1424.73
8/17/2006 14:09	12.3489	3.50629	3.17422	78.1345	43.3158	0.610426	1425.96

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8/17/2006 14:09	12.3489	3.50629	2.93005	76.9137	43.1937	0.488341	1432.06
8/17/2006 14:09	12.3489	3.50629	2.93005	76.4253	42.9007	0.488341	1434.5
8/17/2006 14:10	12.3489	3.50629	0.976682	75.6928	43.1937	0.610426	1433.28
8/17/2006 14:10	12.3489	3.50629	2.68587	76.4253	43.3403	0.854597	1443.05
8/17/2006 14:10	12.3489	3.50629	2.93005	75.6928	43.4623	0.366256	1435.72
8/17/2006 14:10	12.3489	3.50629	1.22085	75.937	43.5844	0.488341	1445.49
8/17/2006 14:11	12.3489	3.50629	0.732511	75.937	43.4623	0.610426	1454.03
8/17/2006 14:11	12.3489	3.50629	2.93005	76.9137	43.7065	0.610426	1445.49
8/17/2006 14:11	12.3489	3.50629	2.93005	77.6462	44.146	0.488341	1452.81
8/17/2006 14:11	12.3489	3.50629	0.976682	77.1579	43.8042	0.854597	1462.58
8/17/2006 14:12	12.3489	3.50629	0.976682	76.9137	44.0483	0.366256	1465.02
8/17/2006 14:12	12.3489	3.50629	0.732511	78.1345	43.6088	0.366256	1468.69
8/17/2006 14:12	12.3489	3.50629	0.732511	79.3554	43.6088	0.732511	1474.79
8/17/2006 14:12	12.3489	3.50629	0.976682	80.5762	43.4623	0.488341	1473.57
8/17/2006 14:13	12.3489	3.50629	0.976682	80.3321	43.6088	0.854597	1474.79
8/17/2006 14:13	12.3489	3.50629	0.976682	81.0646	43.4868	0.366256	1483.34
8/17/2006 14:13	12.3489	3.50629	0.976682	81.5529	43.2426	0.732511	1484.56
8/17/2006 14:13	12.3489	3.50629	0.732511	83.2621	43.3647	0.854597	1484.56
8/17/2006 14:14	12.3489	3.50629	0.976682	84.483	43.3647	0.488341	1485.78
8/17/2006 14:14	12.3489	3.50629	0.732511	84.9713	43.6577	0.732511	1489.44
8/17/2006 14:14	12.3489	3.50629	0.732511	84.7271	43.0717	0.24417	1485.78
8/17/2006 14:14	12.3489	3.50629	0.732511	85.2155	43.7065	0.610426	1494.32
8/17/2006 14:15	12.3489	3.50629	0.976682	85.948	43.7065	0.366256	1497.99
8/17/2006 14:15	12.3489	3.50629	0.976682	86.4363	43.7065	0.854597	1502.87
8/17/2006 14:15	12.3489	3.50629	0.976682	86.9247	43.7065	0.24417	1499.21
8/17/2006 14:15	12.3489	3.50629	0.732511	86.9247	43.4135	0.854597	1505.31
8/17/2006 14:16	12.3489	3.50629	0.732511	87.1688	43.2182	0.366256	1508.97
8/17/2006 14:16	12.3489	3.50629	0.976682	87.6572	43.4868	0.366256	1506.53
8/17/2006 14:16	12.3489	3.50629	2.68587	88.1455	42.6077	0.854597	1512.64
8/17/2006 14:16	12.4557	3.50629	2.93005	88.878	42.3392	0.488341	1516.3
8/17/2006 14:17	12.4557	3.50629	4.88341	88.878	41.9241	0.732511	1522.4
8/17/2006 14:17	12.4557	3.50629	4.63924	88.878	42.1682	0.488341	1523.62
8/17/2006 14:17	12.4557	3.50629	4.88341	88.878	41.6311	0.732511	1527.29
8/17/2006 14:17	12.4557	3.50629	4.88341	89.3664	41.509	0.366256	1521.18
8/17/2006 14:18	12.4557	3.50629	4.88341	90.0989	41.4846	0.732511	1530.95
8/17/2006 14:18	12.4557	3.50629	5.12758	89.8547	41.6066	0.488341	1523.62
8/17/2006 14:18	12.4557	3.50629	4.88341	89.3664	41.1916	0.610426	1516.3
8/17/2006 14:18	12.4557	3.50629	4.88341	89.3664	41.4846	0.366256	1516.3
8/17/2006 14:19	12.4557	3.50629	4.88341	89.3664	41.9973	0.488341	1528.51
8/17/2006 14:19	12.355	3.50629	2.93005	89.8547	42.2903	0.488341	1529.73
8/17/2006 14:19	12.355	3.50629	2.93005	90.5872	42.1194	0.488341	1534.61
8/17/2006 14:19	12.355	3.50629	2.93005	91.3197	42.5589	0.732511	1538.27
8/17/2006 14:20	12.355	3.50629	0.976682	90.5872	43.1937	0.366256	1540.72
8/17/2006 14:20	12.2513	3.50629	0.732511	90.5872	43.3158	0.732511	1535.83

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8/17/2006 14:20	12.2513	3.50629	0.976682	91.0756	43.0472	0.732511	1535.83
8/17/2006 14:20	12.2513	3.50629	0.976682	92.2964	43.3647	0.366256	1537.05
8/17/2006 14:21	12.2513	3.50629	0.976682	91.8081	43.0472	0.610426	1539.49
8/17/2006 14:21	12.2513	3.50629	0.732511	91.5639	43.0472	0.854597	1541.94
8/17/2006 14:21	12.2513	3.50629	0.976682	91.5639	42.8031	0.854597	1548.04
8/17/2006 14:21	12.2513	3.50629	0.976682	93.0289	43.0961	0.24417	1552.92
8/17/2006 14:22	12.2513	3.50629	0.976682	94.2498	43.2182	0.610426	1554.14
8/17/2006 14:22	12.2513	3.50629	0.732511	94.494	43.5112	0.854597	1552.92
8/17/2006 14:22	12.2513	3.50629	0.976682	94.494	43.5112	0.488341	1549.26
8/17/2006 14:22	12.2513	3.50629	0.732511	94.0056	43.1693	0.366256	1555.37
8/17/2006 14:23	12.2513	3.50629	0.976682	94.7381	43.5356	0.610426	1559.03
8/17/2006 14:23	12.2513	3.50629	0.976682	94.494	43.1205	0.488341	1557.81
8/17/2006 14:23	12.2513	3.50629	0.976682	95.2265	43.0717	0.366256	1557.81
8/17/2006 14:23	12.2513	3.50629	0.732511	94.494	42.9007	0.854597	1572.46
8/17/2006 14:24	12.2513	3.50629	0.976682	94.0056	43.0472	0.610426	1572.46
8/17/2006 14:24	12.355	3.50629	2.68587	94.7381	41.509	0.610426	1578.56
8/17/2006 14:24	12.355	3.50629	2.93005	94.9823	41.6555	0.610426	1578.56
8/17/2006 14:24	12.355	3.50629	2.93005	95.2265	42.095	0.488341	1581
8/17/2006 14:25	12.355	3.50629	2.93005	95.7148	41.802	0.610426	1585.89
8/17/2006 14:25	12.2482	3.50629	2.93005	96.6915	41.6311	0.854597	1581
8/17/2006 14:25	12.2482	3.50629	2.68587	100.11	42.0706	0.488341	1582.22
8/17/2006 14:25	12.2482	3.50629	0.976682	102.796	41.9485	0.366256	1578.56
8/17/2006 14:26	12.2482	3.50629	0.976682	104.505	42.388	0.732511	1583.45
8/17/2006 14:26	12.2482	3.50629	0.976682	106.214	41.4113	0.854597	1595.65
8/17/2006 14:26	12.2482	3.50629	2.93005	108.168	40.5079	0.488341	1591.99
8/17/2006 14:26	12.2482	3.50629	4.88341	110.365	40.2149	0.732511	1596.87
8/17/2006 14:27	12.2482	3.50629	4.88341	114.028	39.7509	0.854597	1610.3
8/17/2006 14:27	12.2482	3.50629	4.88341	116.469	40.044	0.732511	1611.52
8/17/2006 14:27	12.2482	3.50629	5.12758	118.178	39.6289	0.366256	1610.3
8/17/2006 14:27	12.2482	3.50629	4.88341	118.911	39.7509	0.854597	1615.19
8/17/2006 14:28	12.2482	3.50629	4.88341	119.888	39.7509	0.366256	1607.86
8/17/2006 14:28	12.2482	3.50629	4.88341	121.109	39.6044	0.732511	1621.29
8/17/2006 14:28	12.2482	3.50629	4.88341	122.085	39.287	0.488341	1627.4
8/17/2006 14:28	12.2482	3.50629	4.88341	124.039	39.4091	0.732511	1628.62
8/17/2006 14:29	12.2482	3.50629	2.93005	126.236	39.9463	0.732511	1635.94
8/17/2006 14:29	12.2482	3.50629	2.93005	128.189	39.9463	0.610426	1633.5
8/17/2006 14:29	12.2482	3.50629	2.93005	128.678	39.6777	0.366256	1639.6
8/17/2006 14:29	12.1475	3.50629	2.93005	129.899	39.7998	0.610426	1645.71
8/17/2006 14:30	12.1475	3.50629	2.93005	132.34	39.7998	0.24417	1650.59
8/17/2006 14:30	12.1475	3.50629	2.93005	133.805	39.9707	0.610426	1646.93
8/17/2006 14:30	12.1475	3.50629	2.93005	135.27	40.1172	0.732511	1654.25
8/17/2006 14:30	12.1475	3.50629	0.732511	136.247	40.2393	0.732511	1657.92
8/17/2006 14:31	12.1475	3.50629	0.976682	136.98	39.9951	0.366256	1660.36
8/17/2006 14:31	12.1475	3.50629	0.732511	137.468	39.8974	0.854597	1664.02

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8/17/2006 14:31	12.1475	3.50629	0.976682	138.689	40.2149	0.366256	1668.9
8/17/2006 14:31	12.1475	3.50629	0.976682	139.421	40.0928	0.610426	1671.35
8/17/2006 14:32	12.1475	3.50629	0.732511	140.398	40.1172	0.732511	1672.57
8/17/2006 14:32	12.1475	3.50629	0.732511	140.886	40.4102	0.488341	1677.45
8/17/2006 14:32	12.1475	3.50629	0.732511	141.619	40.7032	0.854597	1683.56
8/17/2006 14:32	12.1475	3.50629	0.976682	142.351	40.4102	0.24417	1671.35
8/17/2006 14:33	12.1475	3.50629	0.732511	142.84	40.4835	0.732511	1686
8/17/2006 14:33	12.1475	3.50629	0.976682	142.84	40.7032	0.610426	1686
8/17/2006 14:33	12.1475	3.50629	0.976682	142.351	40.2637	0.854597	1679.89
8/17/2006 14:33	12.1475	3.50629	0.976682	141.619	40.9474	0.366256	1683.56
8/17/2006 14:34	12.1475	3.50629	0.732511	140.886	40.4835	0.732511	1692.1
8/17/2006 14:34	12.1475	3.50629	0.732511	141.619	40.6055	0.366256	1704.31
8/17/2006 14:34	12.1475	3.50629	0.976682	142.107	40.1416	0.366256	1705.53
8/17/2006 14:34	12.1475	3.50629	2.93005	142.351	40.044	0.610426	1709.19
8/17/2006 14:35	12.1475	3.50629	2.93005	140.886	39.1894	0.488341	1712.86
8/17/2006 14:35	12.2513	3.50629	2.93005	141.131	39.0429	0.854597	1721.4
8/17/2006 14:35	12.2513	3.50629	2.93005	142.596	38.8475	0.366256	1718.96
8/17/2006 14:35	12.2513	3.50629	2.93005	144.549	38.408	0.854597	1720.18
8/17/2006 14:36	12.2513	3.50629	2.93005	144.305	38.5301	0.610426	1728.73
8/17/2006 14:36	12.2513	3.50629	2.93005	143.816	38.6522	0.610426	1728.73
8/17/2006 14:36	12.2513	3.50629	2.68587	144.061	38.5545	0.732511	1737.27
8/17/2006 14:36	12.2513	3.50629	2.93005	144.305	38.6033	0.488341	1737.27
8/17/2006 14:37	12.2513	3.50629	2.93005	145.77	38.7498	0.854597	1743.38
8/17/2006 14:37	12.2513	3.50629	4.88341	145.77	38.4813	0.488341	1745.82
8/17/2006 14:37	12.2513	3.50629	5.12758	145.77	38.408	0.366256	1742.16
8/17/2006 14:37	12.2513	3.50629	2.93005	145.526	38.9452	0.854597	1750.7
8/17/2006 14:38	12.2513	3.50629	2.93005	144.061	38.9452	0.488341	1749.48
8/17/2006 14:38	12.2513	3.50629	2.93005	139.177	38.9452	0.732511	1753.14
8/17/2006 14:38	12.2513	3.50629	2.93005	135.515	38.9452	0.366256	1749.48
8/17/2006 14:38	12.2513	3.50629	2.93005	132.829	39.2382	0.732511	1756.81
8/17/2006 14:39	12.2513	3.50629	2.93005	131.608	38.994	0.488341	1751.92
8/17/2006 14:39	12.2513	3.50629	2.93005	132.096	38.8475	0.854597	1761.69
8/17/2006 14:39	12.2513	3.50629	2.93005	132.096	39.1649	0.366256	1766.57
8/17/2006 14:39	12.2513	3.50629	2.93005	131.608	38.6278	0.854597	1772.68
8/17/2006 14:40	12.2513	3.50629	4.88341	131.608	38.7498	0.366256	1766.57
8/17/2006 14:40	12.2513	3.50629	2.93005	132.34	38.4568	0.854597	1770.24
8/17/2006 14:40	12.2513	3.50629	4.88341	132.829	38.4568	0.488341	1770.24
8/17/2006 14:40	12.2513	3.50629	4.88341	132.829	38.5789	0.610426	1776.34
8/17/2006 14:41	12.2513	3.50629	2.93005	133.317	38.701	0.366256	1773.9
8/17/2006 14:41	12.1505	3.50629	2.93005	133.317	38.5301	0.610426	1778.78
8/17/2006 14:41	12.1505	3.50629	3.17422	133.561	38.7987	0.732511	1781.22
8/17/2006 14:41	12.1505	3.50629	2.93005	134.05	39.1405	0.488341	1786.11
8/17/2006 14:42	12.1505	3.50629	2.93005	134.05	38.6766	0.488341	1801.98
8/17/2006 14:42	12.1505	3.50629	2.93005	133.805	39.287	0.610426	1805.64

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8/17/2006 14:42	12.1505	3.50629	0.732511	133.561	39.3114	0.732511	1815.41
8/17/2006 14:42	12.1505	3.50629	0.976682	132.096	39.5556	0.488341	1812.97
8/17/2006 14:43	12.1505	3.50629	0.976682	129.654	39.3603	0.610426	1815.41
8/17/2006 14:43	12.1505	3.50629	0.976682	127.457	39.8974	0.854597	1822.73
8/17/2006 14:43	12.1505	3.50629	0.976682	126.724	39.7509	0.854597	1820.29
8/17/2006 14:43	12.1505	3.50629	0.976682	128.678	39.8974	0.610426	1820.29
8/17/2006 14:44	12.1505	3.50629	0.976682	130.631	39.7509	0.488341	1816.63
8/17/2006 14:44	12.1505	3.50629	0.976682	133.317	39.8974	0.610426	1820.29
8/17/2006 14:44	12.0498	3.50629	-0.97668	135.026	40.044	0.610426	1822.73
8/17/2006 14:44	12.0498	3.50629	0.976682	136.735	40.044	0.488341	1823.95
8/17/2006 14:45	12.0498	3.50629	0.976682	138.689	39.7998	0.610426	1833.72
8/17/2006 14:45	12.0498	3.50629	0.976682	139.177	39.5068	0.732511	1834.94
8/17/2006 14:45	12.0498	3.50629	0.976682	138.933	39.2382	0.732511	1841.05
8/17/2006 14:45	12.1505	3.50629	0.976682	137.468	39.6533	0.488341	1837.38
8/17/2006 14:46	12.1505	3.50629	0.976682	138.2	39.3847	0.854597	1849.59
8/17/2006 14:46	12.1505	3.50629	0.976682	140.642	39.3603	0.366256	1852.03
8/17/2006 14:46	12.1505	3.50629	0.732511	145.037	39.4824	0.854597	1849.59
8/17/2006 14:46	12.1505	3.50629	0.976682	149.188	38.8963	0.366256	1847.15
8/17/2006 14:47	12.1505	3.50629	0.976682	152.851	38.7498	0.732511	1861.8
8/17/2006 14:47	12.1505	3.50629	0.976682	156.513	38.7987	0.854597	1870.35
8/17/2006 14:47	12.1505	3.50629	0.976682	159.932	38.6522	0.488341	1864.24
8/17/2006 14:47	12.0498	3.50629	0.976682	162.862	38.5057	0.488341	1866.68
8/17/2006 14:48	12.1627	3.50629	2.93005	165.303	37.0651	0.732511	1874.01
8/17/2006 14:48	12.1627	3.50629	5.12758	167.745	36.65	0.24417	1876.45
8/17/2006 14:48	12.1627	3.50629	4.88341	169.698	36.4546	0.610426	1877.67
8/17/2006 14:48	12.1627	3.50629	4.88341	172.14	36.9186	0.732511	1878.89
8/17/2006 14:49	12.1627	3.50629	4.88341	174.094	36.5523	0.732511	1881.33
8/17/2006 14:49	12.1627	3.50629	4.88341	176.047	36.5523	0.732511	1893.54
8/17/2006 14:49	12.1627	3.50629	4.88341	177.512	36.2837	0.732511	1899.65
8/17/2006 14:49	12.1627	3.50629	2.93005	178.489	36.1128	0.854597	1891.1
8/17/2006 14:50	12.1627	3.50629	4.88341	179.221	36.2349	0.610426	1898.43
8/17/2006 14:50	12.1627	3.50629	4.88341	181.174	35.9175	0.610426	1894.76
8/17/2006 14:50	12.1627	3.50629	4.88341	182.884	36.2105	0.366256	1908.19
8/17/2006 14:50	12.1627	3.50629	4.88341	184.105	35.9419	0.366256	1900.87
8/17/2006 14:51	12.1627	3.50629	4.88341	185.081	36.2105	0.854597	1906.97
8/17/2006 14:51	12.1627	3.50629	4.88341	187.035	36.4546	0.854597	1926.5
8/17/2006 14:51	12.1627	3.50629	4.88341	188.744	36.4546	0.488341	1924.06
8/17/2006 14:51	12.1627	3.50629	4.88341	190.453	36.0396	0.610426	1924.06
8/17/2006 14:52	12.1627	3.50629	2.93005	191.185	36.4791	0.610426	1927.73
8/17/2006 14:52	12.1627	3.50629	2.93005	191.918	36.8453	0.488341	1928.95
8/17/2006 14:52	12.062	3.50629	2.93005	193.383	36.8209	0.854597	1932.61
8/17/2006 14:52	12.062	3.50629	2.93005	194.604	36.943	0.366256	1928.95
8/17/2006 14:53	12.062	3.50629	0.976682	196.313	36.8209	0.732511	1938.71
8/17/2006 14:53	12.062	3.50629	0.732511	196.313	36.8209	0.732511	1942.38

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8/17/2006 14:53	12.062	3.50629	0.976682	196.801	36.9674	0.366256	1941.15
8/17/2006 14:53	12.062	3.50629	2.93005	197.778	36.9674	0.732511	1953.36
8/17/2006 14:54	12.062	3.50629	0.976682	198.755	37.1139	0.488341	1954.58
8/17/2006 14:54	12.062	3.50629	0.976682	196.313	36.9674	0.610426	1959.47
8/17/2006 14:54	12.062	3.50629	0.976682	194.115	36.65	0.610426	1960.69
8/17/2006 14:54	12.062	3.50629	0.976682	194.115	36.5279	0.366256	1963.13
8/17/2006 14:55	12.062	3.50629	0.732511	197.046	36.8453	0.854597	1969.23
8/17/2006 14:55	12.062	3.50629	0.976682	199.487	36.5767	0.488341	1963.13
8/17/2006 14:55	12.062	3.50629	0.976682	199.731	36.8453	0.488341	1958.25
8/17/2006 14:55	12.062	3.50629	0.976682	199.487	37.2604	0.488341	1966.79
8/17/2006 14:56	11.9613	3.50629	0.976682	200.464	36.9674	0.366256	1964.35
8/17/2006 14:56	11.9613	3.50629	1.22085	201.196	37.0895	0.610426	1966.79
8/17/2006 14:56	11.9613	3.50629	0.976682	200.952	37.0651	0.488341	1966.79
8/17/2006 14:56	11.9613	3.50629	0.976682	199.243	36.7965	0.488341	1974.12
8/17/2006 14:57	12.0742	3.50629	0.976682	196.313	36.6988	0.366256	1972.9
8/17/2006 14:57	12.0742	3.50629	0.976682	193.383	36.5523	0.732511	1981.44
8/17/2006 14:57	12.1749	3.50629	2.93005	191.185	34.9408	0.854597	1996.09
8/17/2006 14:57	12.1749	3.50629	4.88341	188.988	34.5257	0.366256	1982.66
8/17/2006 14:58	12.1749	3.50629	5.12758	187.523	34.2571	0.610426	1993.65
8/17/2006 14:58	12.1749	3.40618	6.83677	185.814	34.2571	0.976682	1999.76
8/17/2006 14:58	12.1749	3.40618	6.83677	184.593	34.4036	0.488341	2004.64
8/17/2006 14:58	12.1749	3.40618	8.79014	185.325	34.1106	0.854597	2013.19
8/17/2006 14:59	12.2757	3.40618	6.83677	185.814	34.1106	0.366256	2010.74
8/17/2006 14:59	12.2757	3.40618	8.79014	172.14	34.2571	0.732511	2010.74
8/17/2006 14:59	12.2757	3.40618	9.03431	172.384	33.9153	0.366256	2024.17
8/17/2006 14:59	12.2757	3.40618	8.79014	179.221	34.0374	0.732511	2026.61
8/17/2006 15:00	12.1749	3.40618	9.03431	187.035	34.3548	0.488341	2029.06
8/17/2006 15:00	12.1749	3.40618	6.83677	188.011	34.7455	0.976682	2040.04
8/17/2006 15:00	12.0742	3.40618	4.88341	192.162	34.9164	0.488341	2041.26
8/17/2006 15:00	12.0742	3.40618	4.88341	194.115	34.9164	0.366256	2037.6
8/17/2006 15:01	12.0742	3.50629	4.88341	194.36	35.4535	0.610426	2036.38
8/17/2006 15:01	11.9705	3.50629	2.93005	197.046	35.3315	0.854597	2024.17
8/17/2006 15:01	11.9705	3.50629	2.93005	199.243	35.6977	0.732511	2041.26
8/17/2006 15:01	11.9705	3.50629	2.93005	198.755	36.8209	0.732511	2048.59
8/17/2006 15:02	11.9705	3.50629	0.976682	199.243	37.0895	0.732511	2048.59
8/17/2006 15:02	11.9705	3.6064	0.976682	199.731	37.1139	0.488341	2038.82
8/17/2006 15:02	11.9705	3.6064	0.976682	200.464	37.4069	0.488341	2054.69
8/17/2006 15:02	11.9705	3.6064	0.732511	201.196	37.4069	0.732511	2059.58
8/17/2006 15:03	11.9705	3.6064	0.732511	201.685	37.236	0.976682	2063.24
8/17/2006 15:03	11.9705	3.6064	0.976682	202.661	37.5534	0.488341	2064.46
8/17/2006 15:03	11.9705	3.6064	-0.97668	204.126	37.1139	0.488341	2065.68
8/17/2006 15:03	11.9705	3.6064	-1.22085	204.371	37.4069	0.976682	2077.89
8/17/2006 15:04	11.9705	3.6064	-0.97668	205.836	37.2848	0.366256	2076.67
8/17/2006 15:04	11.9705	3.6064	-0.97668	206.324	37.6999	0.854597	2079.11

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8/17/2006 15:04	11.8697	3.6064	-0.97668	206.812	37.529	0.366256	2076.67
8/17/2006 15:04	11.8697	3.6064	-1.22085	208.033	37.529	0.854597	2082.77
8/17/2006 15:05	11.9705	3.6064	-0.97668	209.254	37.2604	0.854597	2077.89
8/17/2006 15:05	11.9705	3.6064	-0.97668	210.475	37.4069	0.366256	2083.99
8/17/2006 15:05	11.9705	3.6064	-0.97668	210.475	37.1627	0.854597	2083.99
8/17/2006 15:05	11.9705	3.6064	-0.97668	209.742	36.7721	0.488341	2099.87
8/17/2006 15:06	11.9705	3.6064	0.976682	210.963	36.357	0.732511	2110.85
8/17/2006 15:06	12.0742	3.5014	0.732511	212.917	34.6966	0.732511	2113.3
8/17/2006 15:06	12.0742	3.5014	2.93005	213.405	33.7199	0.488341	2110.85
8/17/2006 15:06	12.1749	3.5014	2.93005	213.405	33.9885	0.610426	2116.96
8/17/2006 15:07	12.1749	3.5014	4.88341	214.626	33.3781	0.732511	2113.3
8/17/2006 15:07	12.1749	3.5014	4.88341	215.602	33.2316	0.854597	2119.4
8/17/2006 15:07	12.1749	3.5014	4.88341	217.068	33.2072	0.732511	2121.84
8/17/2006 15:07	12.1749	3.5014	7.08094	217.312	32.8409	0.610426	2120.62
8/17/2006 15:08	12.1749	3.40129	6.83677	217.556	32.8165	0.610426	2125.5
8/17/2006 15:08	12.1749	3.40129	7.08094	218.044	32.6944	0.488341	2124.28
8/17/2006 15:08	12.1749	3.40129	6.83677	218.044	32.8409	0.732511	2125.5
8/17/2006 15:08	12.1749	3.40129	6.83677	217.556	32.963	0.366256	2126.72
8/17/2006 15:09	12.1749	3.40129	9.03431	218.288	32.8409	0.854597	2132.83
8/17/2006 15:09	12.1749	3.40129	9.03431	220.486	32.963	0.488341	2142.6
8/17/2006 15:09	12.1749	3.40129	6.83677	221.707	33.0851	0.732511	2158.47
8/17/2006 15:09	12.1749	3.40129	7.08094	222.195	33.7932	0.610426	2157.25
8/17/2006 15:10	12.0742	3.5014	4.88341	222.928	34.1106	0.610426	2163.35
8/17/2006 15:10	12.0742	3.5014	5.12758	223.416	34.0862	0.366256	2153.58
8/17/2006 15:10	12.0742	3.5014	4.88341	225.369	34.4036	0.732511	2157.25
8/17/2006 15:10	12.0742	3.5014	2.93005	225.858	34.6966	0.732511	2158.47
8/17/2006 15:11	12.0742	3.5014	2.93005	226.346	34.6966	0.488341	2160.91
8/17/2006 15:11	12.0742	3.5014	2.93005	227.567	34.5501	0.732511	2171.9
8/17/2006 15:11	12.0742	3.5014	2.68587	228.544	35.4047	0.976682	2175.56
8/17/2006 15:11	11.9735	3.60151	0.976682	229.276	36.0151	0.488341	2176.78
8/17/2006 15:12	11.9735	3.60151	0.732511	228.788	36.1372	0.976682	2174.34
8/17/2006 15:12	11.9735	3.60151	0.976682	228.055	36.0151	0.488341	2165.79
8/17/2006 15:12	11.9735	3.60151	0.732511	228.788	36.0396	0.854597	2175.56
8/17/2006 15:12	11.9735	3.60151	0.732511	229.52	36.3326	0.732511	2185.33
8/17/2006 15:13	11.9735	3.60151	0.976682	230.497	36.1861	0.854597	2186.55
8/17/2006 15:13	11.8728	3.60151	0.976682	231.718	36.4546	0.732511	2193.87
8/17/2006 15:13	11.8728	3.60151	0.732511	231.718	36.3326	0.854597	2190.21
8/17/2006 15:13	11.8728	3.60151	0.976682	230.985	36.357	0.732511	2185.33
8/17/2006 15:14	11.8728	3.60151	0.976682	230.497	36.65	0.610426	2185.33
8/17/2006 15:14	11.8728	3.60151	0.976682	231.229	36.65	0.854597	2182.88
8/17/2006 15:14	11.8728	3.60151	0.976682	230.741	36.65	0.854597	2175.56
8/17/2006 15:14	11.8728	3.60151	0.976682	231.229	36.7965	0.488341	2174.34
8/17/2006 15:15	11.9796	3.60151	0.732511	231.229	36.1616	0.732511	2175.56
8/17/2006 15:15	11.9796	3.60151	0.976682	230.253	36.0884	0.610426	2167.01

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8/17/2006 15:15	11.9796	3.60151	2.68587	230.497	35.478	0.610426	2175.56
8/17/2006 15:15	12.0864	3.49652	2.93005	231.718	33.9885	0.854597	2182.88
8/17/2006 15:16	12.1872	3.49652	2.93005	234.648	33.5979	0.732511	2192.65
8/17/2006 15:16	12.1872	3.49652	4.88341	236.357	33.7444	0.732511	2195.09
8/17/2006 15:16	12.1872	3.49652	4.88341	236.113	33.5979	0.732511	2192.65
8/17/2006 15:16	12.1872	3.49652	4.88341	236.357	33.2804	0.854597	2181.66
8/17/2006 15:17	12.1872	3.49652	4.88341	238.31	33.549	0.366256	2178
8/17/2006 15:17	12.1872	3.49652	5.12758	238.799	33.4269	0.976682	2181.66
8/17/2006 15:17	12.1872	3.49652	4.88341	238.799	33.0851	0.854597	2185.33
8/17/2006 15:17	12.1872	3.49652	4.88341	238.555	33.2072	0.488341	2181.66
8/17/2006 15:18	12.1872	3.49652	6.83677	239.287	33.2072	0.610426	2192.65
8/17/2006 15:18	12.1872	3.49652	6.83677	239.287	33.0851	0.976682	2208.52
8/17/2006 15:18	12.1872	3.49652	6.83677	239.287	33.3537	0.488341	2209.74
8/17/2006 15:18	12.1872	3.49652	15.3827	240.02	33.3537	1.58711	2215.85
8/17/2006 15:19	12.1872	3.49652	15.3827	240.02	33.3537	1.58711	2215.85
8/17/2006 15:19	12.1872	3.49652	15.3827	240.02	33.3537	1.58711	2215.85
8/17/2006 15:19	12.1872	3.49652	15.3827	240.02	33.3537	1.58711	2215.85
8/17/2006 15:19	12.1872	3.49652	15.3827	240.02	33.3537	1.58711	2215.85
8/17/2006 15:20	12.1872	3.267	6.83677	270.052	34.1106	-0.61043	-4.88341
8/17/2006 15:20	12.1872	3.267	7.08094	246.856	34.7943	-0.73251	-4.88341
8/17/2006 15:20	12.1872	3.37444	4.88341	247.1	35.5024	0.488341	-2.4417
8/17/2006 15:20	12.1872	3.37444	4.88341	245.391	35.6489	0.610426	1886.22
8/17/2006 15:21	12.0803	3.37444	2.93005	247.589	35.7954	0.854597	2153.58
8/17/2006 15:21	12.0803	3.47455	2.68587	248.321	36.2593	0.488341	2168.23
8/17/2006 15:21	12.0803	3.47455	2.93005	247.589	34.3792	0.732511	2178
8/17/2006 15:21	12.0803	3.47455	2.93005	244.415	34.8431	0.488341	2191.43
8/17/2006 15:22	12.0803	3.47455	2.93005	245.147	35.4047	0.366256	2171.9
8/17/2006 15:22	12.0803	3.47455	2.68587	245.147	35.6977	0.488341	2167.01
8/17/2006 15:22	12.0803	3.47455	2.93005	244.659	35.2338	0.488341	2176.78
8/17/2006 15:22	12.0803	3.47455	0.976682	242.95	35.6977	0.732511	2173.12
8/17/2006 15:23	12.0803	3.47455	0.732511	243.194	35.5512	0.976682	2176.78
8/17/2006 15:23	12.0803	3.47455	0.976682	242.95	35.6733	0.732511	2170.68
8/17/2006 15:23	12.0803	3.47455	0.976682	243.438	36.0396	0.488341	2147.48
8/17/2006 15:23	12.0803	3.47455	0.976682	242.705	35.771	0.610426	2141.37
8/17/2006 15:24	12.1811	3.47455	0.976682	242.217	35.6489	0.976682	2136.49
8/17/2006 15:24	12.1811	3.47455	0.976682	240.264	35.9419	0.854597	2130.39
8/17/2006 15:24	12.1811	3.47455	0.976682	239.287	35.9419	0.488341	2124.28
8/17/2006 15:24	12.1811	3.47455	0.732511	238.555	35.7466	0.976682	2132.83
8/17/2006 15:25	12.0803	3.5771	0.976682	238.555	35.7954	0.488341	2145.04
8/17/2006 15:25	12.0803	3.5771	0.976682	239.531	35.9419	0.732511	2145.04
8/17/2006 15:25	12.0803	3.5771	0.732511	237.578	35.6489	0.976682	2147.48
8/17/2006 15:25	12.0803	3.5771	0.976682	235.38	35.6489	0.976682	2134.05
8/17/2006 15:26	12.0803	3.5771	0.976682	234.892	34.6722	0.488341	2147.48
8/17/2006 15:26	12.1811	3.47699	0.732511	236.357	34.3792	0.610426	2160.91

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8/17/2006 15:26	12.1811	3.47699	2.68587	236.845	34.3792	0.854597	2167.01
8/17/2006 15:26	12.2848	3.47699	2.93005	237.334	34.2571	0.732511	2163.35
8/17/2006 15:27	12.2848	3.47699	2.93005	238.066	34.135	0.488341	2171.9
8/17/2006 15:27	12.2848	3.47699	2.68587	238.066	33.842	0.854597	2170.68
8/17/2006 15:27	12.2848	3.47699	2.93005	238.066	33.7199	0.488341	2165.79
8/17/2006 15:27	12.2848	3.47699	2.68587	238.31	33.7444	0.854597	2167.01
8/17/2006 15:28	12.2848	3.47699	2.93005	238.555	33.8664	0.488341	2173.12
8/17/2006 15:28	12.2848	3.47699	2.93005	238.799	33.5734	0.488341	2178
8/17/2006 15:28	12.2848	3.47699	4.88341	238.066	33.6955	0.488341	2182.88
8/17/2006 15:28	12.2848	3.47699	4.88341	238.31	34.0129	0.732511	2184.1
8/17/2006 15:29	12.2848	3.47699	2.93005	237.089	33.7444	0.854597	2181.66
8/17/2006 15:29	12.2848	3.47699	2.93005	235.136	33.7444	0.488341	2174.34
8/17/2006 15:29	12.2848	3.47699	4.88341	235.136	33.8909	0.854597	2163.35
8/17/2006 15:29	12.2848	3.47699	2.93005	237.578	33.7444	0.488341	2168.23
8/17/2006 15:30	12.2848	3.47699	4.88341	238.555	33.5734	0.976682	2168.23
8/17/2006 15:30	12.2848	3.47699	4.88341	237.089	33.9885	0.610426	2179.22
8/17/2006 15:30	12.2848	3.47699	4.88341	236.113	33.6955	0.976682	2178
8/17/2006 15:30	12.2848	3.47699	4.88341	237.578	33.549	0.854597	2173.12
8/17/2006 15:31	12.2848	3.47699	4.88341	239.287	33.8176	0.366256	2171.9
8/17/2006 15:31	12.2848	3.47699	4.88341	240.508	33.6467	0.488341	2184.1
8/17/2006 15:31	12.2848	3.47699	2.93005	241.485	34.4524	0.976682	2186.55
8/17/2006 15:31	12.2848	3.47699	2.93005	242.95	34.599	0.488341	2186.55
8/17/2006 15:32	12.2848	3.47699	0.976682	242.217	34.5013	0.488341	2181.66
8/17/2006 15:32	12.2848	3.47699	0.732511	242.217	34.8431	0.854597	2180.44
8/17/2006 15:32	12.2848	3.47699	0.732511	242.95	34.6966	0.854597	2173.12
8/17/2006 15:32	12.2848	3.47699	0.976682	242.217	34.6966	0.610426	2185.33
8/17/2006 15:33	12.2848	3.47699	0.976682	242.217	34.6966	0.610426	2185.33
8/17/2006 15:33	12.2848	3.47699	0.976682	242.217	34.6966	0.610426	2185.33
8/17/2006 15:33	12.2848	3.47699	0.976682	242.217	34.6966	0.610426	2185.33
8/17/2006 15:33	12.2848	3.47699	0.976682	242.217	34.6966	0.610426	2185.33
8/17/2006 15:34	12.2848	3.2963	0.976682	250.275	32.0107	-0.36626	2213.4
8/17/2006 15:34	12.1841	3.2963	0.976682	250.519	31.4003	0.366256	2223.17
8/17/2006 15:34	12.1841	3.39641	0.732511	250.519	31.8642	0.976682	2228.06
8/17/2006 15:34	12.1841	3.39641	-0.97668	249.298	31.791	0.732511	2208.52
8/17/2006 15:35	12.1841	3.39641	-0.97668	247.589	32.1817	0.488341	2156.02
8/17/2006 15:35	12.1841	3.39641	-1.22085	248.565	32.3037	0.854597	2099.87
8/17/2006 15:35	12.2909	3.39641	-0.97668	246.856	32.0352	0.366256	2030.28
8/17/2006 15:35	12.2909	3.49652	-1.22085	247.345	32.3037	0.732511	1946.04
8/17/2006 15:36	12.2909	3.49652	-0.97668	246.368	32.7433	0.732511	1848.37
8/17/2006 15:36	12.2909	3.49652	-0.97668	245.147	33.1828	0.732511	1765.35
8/17/2006 15:36	12.2909	3.49652	-1.22085	245.147	33.2316	0.854597	1704.31
8/17/2006 15:36	12.2909	3.49652	-0.97668	244.903	33.2316	0.610426	1664.02
8/17/2006 15:37	12.2909	3.49652	-1.22085	244.415	33.5734	0.976682	1640.83
8/17/2006 15:37	12.2909	3.49652	-0.97668	244.17	33.1339	0.610426	1610.3

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8/17/2006 15:37	12.3978	3.49652	0.976682	242.95	32.6456	0.732511	1588.33
8/17/2006 15:37	12.3978	3.49652	0.976682	242.95	32.6456	0.976682	1582.22
8/17/2006 15:38	12.3978	3.49652	0.976682	242.705	32.3526	0.610426	1552.92
8/17/2006 15:38	12.3978	3.49652	0.976682	242.95	32.4747	0.854597	1533.39
8/17/2006 15:38	12.3978	3.49652	2.93005	243.438	32.2061	0.488341	1517.52
8/17/2006 15:38	12.3978	3.49652	2.93005	243.682	31.2538	0.976682	1532.17
8/17/2006 15:39	12.3978	3.49652	2.93005	244.659	31.4003	0.732511	1517.52
8/17/2006 15:39	12.3978	3.49652	2.93005	243.438	31.6445	1.09877	1512.64
8/17/2006 15:39	12.3978	3.49652	2.93005	242.217	31.8154	0.732511	1504.09
8/17/2006 15:39	12.3978	3.49652	2.93005	240.996	31.9375	0.366256	1495.54
8/17/2006 15:40	12.4985	3.49652	2.93005	240.02	31.8887	0.854597	1490.66
8/17/2006 15:40	12.4985	3.49652	2.93005	239.775	31.8642	0.610426	1468.69
8/17/2006 15:40	12.4985	3.49652	2.93005	239.775	31.5957	0.854597	1472.35
8/17/2006 15:40	12.4985	3.49652	2.93005	239.287	31.8398	0.732511	1454.03
8/17/2006 15:41	12.4985	3.49652	2.93005	238.799	31.7177	0.366256	1452.81
8/17/2006 15:41	12.4985	3.49652	2.93005	238.066	31.9863	0.610426	1438.16
8/17/2006 15:41	12.4985	3.49652	2.93005	237.089	32.1572	0.976682	1429.62
8/17/2006 15:41	12.4985	3.49652	2.93005	236.357	32.3037	0.854597	1428.4
8/17/2006 15:42	12.4985	3.49652	0.976682	236.357	32.7921	0.488341	1428.4
8/17/2006 15:42	12.4985	3.49652	0.976682	235.869	33.0851	0.488341	1424.73
8/17/2006 15:42	12.4985	3.49652	0.976682	234.159	33.1339	0.732511	1414.97
8/17/2006 15:42	12.4985	3.49652	0.732511	231.718	33.2316	0.976682	1405.2
8/17/2006 15:43	12.4985	3.49652	0.976682	229.276	32.6212	0.732511	1395.43
8/17/2006 15:43	12.4985	3.49652	0.732511	227.567	32.9386	0.488341	1396.65
8/17/2006 15:43	12.4985	3.49652	-1.22085	227.079	33.1339	0.976682	1399.1
8/17/2006 15:43	12.4985	3.49652	-0.97668	228.055	33.6955	0.366256	1382
8/17/2006 15:44	12.4985	3.49652	-0.97668	228.299	33.3781	0.732511	1394.21
8/17/2006 15:44	12.4985	3.49652	-0.97668	227.567	33.256	0.854597	1380.78
8/17/2006 15:44	12.4985	3.49652	-1.22085	226.834	33.4269	0.976682	1373.46
8/17/2006 15:44	12.4985	3.49652	-0.97668	227.567	33.4269	0.732511	1377.12
8/17/2006 15:45	12.4985	3.49652	-0.97668	227.567	33.1339	0.610426	1380.78
8/17/2006 15:45	12.4985	3.49652	-0.97668	227.567	33.4025	0.610426	1380.78
8/17/2006 15:45	12.4985	3.49652	-0.97668	227.567	33.4025	0.732511	1382
8/17/2006 15:45	12.4985	3.49652	-0.97668	227.567	33.4025	0.732511	1382
8/17/2006 15:46	12.4985	3.49652	-0.97668	227.567	33.4025	0.732511	1382
8/17/2006 15:46	12.4985	3.49652	-0.97668	227.567	33.4025	0.732511	1382
8/17/2006 15:46	12.4985	3.49652	-0.97668	227.567	33.4025	0.732511	1382
8/17/2006 15:46	12.4985	3.27677	-0.97668	232.694	32.7433	-0.73251	1392.99
8/17/2006 15:47	12.4985	3.37688	-0.97668	238.555	33.1828	-0.24417	1389.33
8/17/2006 15:47	12.4985	3.37688	-1.22085	240.508	33.1828	-0.73251	1377.12
8/17/2006 15:47	12.4985	3.37688	-3.17422	242.217	33.5979	0.854597	1374.68
8/17/2006 15:47	12.4985	3.37688	-1.22085	241.729	33.3293	0.366256	1371.02
8/17/2006 15:48	12.5992	3.37688	-1.22085	240.996	33.0363	0.854597	1364.91
8/17/2006 15:48	12.5992	3.37688	-0.97668	240.996	32.8409	0.488341	1361.25

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8/17/2006 15:48	12.5992	3.37688	-1.22085	241.485	32.5723	0.976682	1361.25
8/17/2006 15:48	12.5992	3.37688	-0.97668	241.485	32.3526	0.854597	1355.15
8/17/2006 15:49	12.5992	3.37688	-0.97668	242.217	31.791	0.854597	1339.27
8/17/2006 15:49	12.706	3.37688	0.976682	241.729	31.1561	0.366256	1339.27
8/17/2006 15:49	12.706	3.37688	0.732511	240.996	31.2782	0.488341	1338.05
8/17/2006 15:49	12.706	3.37688	2.93005	240.508	31.4247	0.976682	1327.07
8/17/2006 15:50	12.706	3.37688	2.93005	240.996	31.3026	0.610426	1328.29
8/17/2006 15:50	12.706	3.37688	2.93005	241.24	30.8876	0.610426	1334.39
8/17/2006 15:50	12.706	3.37688	2.93005	240.996	31.3026	0.976682	1331.95
8/17/2006 15:50	12.706	3.37688	2.68587	240.996	31.0096	0.488341	1338.05
8/17/2006 15:51	12.706	3.37688	2.93005	240.996	30.7411	0.976682	1341.72
8/17/2006 15:51	12.706	3.37688	2.93005	240.996	30.8876	0.488341	1339.27
8/17/2006 15:51	12.706	3.37688	2.68587	240.996	31.2294	0.488341	1345.38
8/17/2006 15:51	12.706	3.37688	2.68587	240.508	31.1073	0.854597	1347.82
8/17/2006 15:52	12.706	3.37688	2.93005	239.775	31.3026	0.732511	1353.93
8/17/2006 15:52	12.706	3.37688	2.93005	239.775	31.3026	0.854597	1353.93
8/17/2006 15:52	12.706	3.37688	2.93005	239.531	31.4492	0.488341	1342.94
8/17/2006 15:52	12.706	3.37688	3.17422	239.287	31.4247	0.732511	1349.04
8/17/2006 15:53	12.706	3.37688	2.93005	239.775	31.9863	0.488341	1345.38
8/17/2006 15:53	12.706	3.47699	0.976682	240.996	31.791	0.854597	1351.48
8/17/2006 15:53	12.706	3.47699	0.976682	240.996	32.0596	0.610426	1350.26
8/17/2006 15:53	12.706	3.47699	0.976682	239.043	32.1817	0.732511	1349.04
8/17/2006 15:54	12.706	3.47699	0.732511	238.799	32.5968	0.610426	1336.83
8/17/2006 15:54	12.706	3.47699	0.976682	238.066	32.9386	0.854597	1349.04
8/17/2006 15:54	12.706	3.47699	0.976682	237.089	33.8909	0.854597	1345.38
8/17/2006 15:54	12.706	3.47699	-0.97668	237.334	33.4269	0.854597	1338.05
8/17/2006 15:55	12.706	3.47699	-1.22085	237.578	33.0607	0.976682	1333.17
8/17/2006 15:55	12.706	3.47699	-1.22085	238.066	33.5734	0.610426	1335.61
8/17/2006 15:55	12.706	3.47699	-1.22085	237.334	33.5979	0.976682	1344.16
8/17/2006 15:55	12.706	3.47699	-0.97668	237.334	33.4758	0.488341	1341.72
8/17/2006 15:56	12.706	3.47699	-0.97668	236.845	33.8664	0.488341	1335.61
8/17/2006 15:56	12.706	3.47699	-0.97668	237.578	33.7932	0.610426	1331.95
8/17/2006 15:56	12.706	3.47699	-0.97668	238.555	33.7932	0.854597	1338.05
8/17/2006 15:56	12.706	3.47699	-1.22085	239.287	34.1594	0.366256	1339.27
8/17/2006 15:57	12.6022	3.47699	-0.97668	239.775	34.0129	0.854597	1341.72
8/17/2006 15:57	12.6022	3.47699	-0.97668	239.531	33.8909	0.854597	1331.95
8/17/2006 15:57	12.6022	3.47699	-0.97668	238.066	34.0618	0.366256	1335.61
8/17/2006 15:57	12.6022	3.47699	-0.97668	236.845	33.7932	0.488341	1327.07
8/17/2006 15:58	12.6022	3.47699	-1.22085	236.845	33.9397	0.976682	1333.17
8/17/2006 15:58	12.6022	3.47699	-0.97668	237.334	34.0618	0.610426	1333.17
8/17/2006 15:58	12.703	3.47699	-0.97668	237.089	32.9874	0.610426	1335.61
8/17/2006 15:58	12.703	3.47699	0.976682	235.869	33.2316	0.610426	1336.83
8/17/2006 15:59	12.703	3.47699	0.976682	235.869	32.7921	0.854597	1333.17
8/17/2006 15:59	12.703	3.47699	0.976682	236.845	32.9386	0.488341	1324.62

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8/17/2006 15:59	12.703	3.47699	0.976682	237.578	32.6944	0.732511	1334.39
8/17/2006 15:59	12.8037	3.47699	0.732511	236.357	32.8165	0.610426	1333.17
8/17/2006 16:00	12.8037	3.47699	0.976682	235.136	32.4991	0.854597	1323.4
8/17/2006 16:00	12.9044	3.37688	2.93005	234.404	31.4003	0.488341	1325.85
8/17/2006 16:00	12.9044	3.37688	2.93005	235.624	31.2538	0.976682	1331.95
8/17/2006 16:00	12.9044	3.37688	2.93005	235.38	30.9852	0.366256	1330.73
8/17/2006 16:01	12.9044	3.37688	2.93005	235.869	30.9852	0.732511	1319.74
8/17/2006 16:01	12.9044	3.37688	2.68587	234.404	31.1317	0.854597	1328.29
8/17/2006 16:01	12.9044	3.37688	2.93005	235.869	31.4492	0.366256	1328.29
8/17/2006 16:01	12.9044	3.37688	2.93005	236.845	31.3271	0.732511	1320.96
8/17/2006 16:02	12.9044	3.37688	2.93005	236.601	31.1806	0.610426	1329.51
8/17/2006 16:02	12.9044	3.37688	2.93005	235.624	31.6933	0.854597	1330.73
8/17/2006 16:02	12.9044	3.37688	0.976682	235.869	32.2549	0.366256	1329.51
8/17/2006 16:02	12.9044	3.37688	0.732511	236.357	32.4258	0.732511	1331.95
8/17/2006 16:03	12.9044	3.37688	0.976682	236.357	32.5968	0.976682	1318.52
8/17/2006 16:03	12.9044	3.37688	0.732511	236.845	33.0851	0.610426	1325.85
8/17/2006 16:03	12.8006	3.47699	0.732511	237.578	33.2072	0.488341	1331.95
8/17/2006 16:03	12.8006	3.47699	0.976682	238.066	32.963	0.854597	1324.62
8/17/2006 16:04	12.8006	3.47699	-0.97668	238.066	32.963	0.488341	1320.96
8/17/2006 16:04	12.8006	3.47699	0.732511	238.31	32.8409	0.732511	1329.51
8/17/2006 16:04	12.8006	3.47699	0.732511	238.799	32.8409	0.732511	1333.17
8/17/2006 16:04	12.8006	3.47699	0.732511	238.066	32.9874	0.488341	1327.07
8/17/2006 16:05	12.8006	3.47699	-1.22085	238.799	32.9874	0.976682	1328.29
8/17/2006 16:05	12.8006	3.47699	-0.97668	238.066	32.9386	0.610426	1331.95
8/17/2006 16:05	12.8006	3.47699	-1.22085	238.31	32.8165	0.732511	1324.62
8/17/2006 16:05	12.8006	3.47699	-1.22085	238.066	33.1095	0.976682	1320.96
8/17/2006 16:06	12.8006	3.47699	0.976682	238.066	33.1095	0.976682	1323.4
8/17/2006 16:06	12.8006	3.47699	0.976682	238.066	33.1095	0.976682	1323.4
8/17/2006 16:06	12.8006	3.47699	0.976682	238.066	33.1095	0.976682	1323.4
8/17/2006 16:06	12.8006	3.47699	0.976682	238.066	33.1095	0.976682	1323.4
8/17/2006 16:07	12.8006	3.47699	0.976682	238.066	33.1095	0.976682	1323.4
8/17/2006 16:07	12.9075	3.19619	-0.97668	241.485	29.2516	-0.36626	1350.26
8/17/2006 16:07	12.9075	3.19619	-1.22085	243.438	30.2527	-0.8546	1334.39
8/17/2006 16:07	12.9075	3.2963	-0.97668	243.194	29.9841	-0.61043	1344.16
8/17/2006 16:08	12.9075	3.2963	-0.97668	243.926	30.2771	-0.48834	1339.27
8/17/2006 16:08	12.9075	3.2963	-0.97668	244.659	29.9841	-0.61043	1323.4
8/17/2006 16:08	12.9075	3.39641	-0.97668	243.926	32.6456	-0.24417	1327.07
8/17/2006 16:08	12.9075	3.39641	0.732511	240.996	32.5235	-0.73251	1328.29
8/17/2006 16:09	12.9075	3.39641	0.732511	240.508	31.791	-0.48834	1313.64
8/17/2006 16:09	12.9075	3.39641	0.732511	242.217	31.791	-0.24417	1313.64
8/17/2006 16:09	12.9075	3.39641	0.732511	243.682	32.1084	-0.73251	1313.64
8/17/2006 16:09	12.9075	3.39641	0.732511	243.438	32.3037	-0.12209	1296.54
8/17/2006 16:10	12.9075	3.39641	0.976682	242.95	32.3037	-0.73251	1297.77
8/17/2006 16:10	12.9075	3.39641	0.976682	241.729	32.4014	-0.61043	1290.44

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8/17/2006 16:10	12.9075	3.39641	0.976682	241.729	32.5235	-0.24417	1280.67
8/17/2006 16:10	12.9075	3.39641	0.976682	241.485	32.7677	0.488341	1285.56
8/17/2006 16:11	12.9075	3.39641	0.976682	242.217	32.7433	0.976682	1286.78
8/17/2006 16:11	12.9075	3.39641	0.732511	242.217	33.2072	0.488341	1283.12
8/17/2006 16:11	12.9075	3.39641	0.732511	240.996	32.9386	0.488341	1294.1
8/17/2006 16:11	12.9075	3.39641	0.732511	240.264	33.0851	1.09877	1298.99
8/17/2006 16:12	12.9075	3.39641	0.976682	240.264	32.9386	0.854597	1289.22
8/17/2006 16:12	12.9075	3.39641	0.732511	240.508	33.0851	0.488341	1294.1
8/17/2006 16:12	12.9075	3.39641	0.976682	239.775	33.0851	0.976682	1301.43
8/17/2006 16:12	12.9075	3.39641	0.976682	239.531	32.8653	0.488341	1294.1
8/17/2006 16:13	13.0082	3.39641	0.976682	239.287	32.9874	0.854597	1296.54
8/17/2006 16:13	13.0082	3.39641	0.976682	239.043	32.9874	0.610426	1298.99
8/17/2006 16:13	13.0082	3.39641	0.976682	238.066	33.1339	0.732511	1300.21
8/17/2006 16:13	13.0082	3.39641	0.732511	238.066	33.1339	0.976682	1300.21
8/17/2006 16:14	13.0082	3.39641	0.976682	237.578	33.1339	0.488341	1295.32
8/17/2006 16:14	13.0082	3.39641	0.732511	237.578	32.7433	0.976682	1301.43
8/17/2006 16:14	13.115	3.39641	0.732511	238.066	33.3293	0.610426	1292.88
8/17/2006 16:14	13.115	3.39641	2.93005	239.287	32.5723	0.854597	1291.66
8/17/2006 16:15	13.115	3.39641	2.93005	239.775	31.6933	0.732511	1294.1
8/17/2006 16:15	13.115	3.39641	2.68587	240.02	32.7677	0.610426	1295.32
8/17/2006 16:15	13.115	3.39641	2.93005	239.775	32.4014	0.976682	1294.1
8/17/2006 16:15	13.2157	3.39641	2.93005	239.287	31.5712	0.366256	1294.1
8/17/2006 16:16	13.2157	3.39641	2.93005	238.066	31.6933	0.976682	1298.99
8/17/2006 16:16	13.2157	3.39641	2.68587	237.578	31.6933	0.488341	1303.87
8/17/2006 16:16	13.2157	3.39641	2.93005	238.31	31.5468	0.854597	1294.1
8/17/2006 16:16	13.2157	3.39641	2.93005	240.02	31.2782	0.610426	1295.32
8/17/2006 16:17	13.2157	3.39641	2.93005	239.043	31.791	0.732511	1295.32
8/17/2006 16:17	13.2157	3.39641	2.93005	236.845	31.791	0.488341	1286.78
8/17/2006 16:17	13.2157	3.39641	2.93005	235.136	32.1572	0.854597	1291.66
8/17/2006 16:17	13.115	3.39641	0.976682	234.404	32.4503	0.610426	1298.99
8/17/2006 16:18	13.115	3.39641	0.976682	235.136	32.8898	0.488341	1288
8/17/2006 16:18	13.115	3.39641	0.732511	235.136	32.4991	0.854597	1291.66
8/17/2006 16:18	13.115	3.39641	0.976682	235.136	32.7921	0.610426	1296.54
8/17/2006 16:18	13.115	3.39641	0.732511	235.869	33.0851	0.976682	1286.78
8/17/2006 16:19	13.115	3.39641	0.732511	235.869	33.0851	0.488341	1280.67
8/17/2006 16:19	13.115	3.39641	0.732511	235.136	33.1339	0.854597	1288
8/17/2006 16:19	13.115	3.39641	0.732511	234.648	33.1339	0.610426	1295.32
8/17/2006 16:19	13.115	3.39641	0.732511	233.427	33.4025	0.488341	1279.45
8/17/2006 16:20	13.115	3.39641	0.732511	232.694	33.4025	0.976682	1286.78
8/17/2006 16:20	13.115	3.39641	0.732511	231.718	33.549	0.488341	1285.56
8/17/2006 16:20	13.115	3.39641	0.732511	232.206	32.963	0.854597	1278.23
8/17/2006 16:20	13.115	3.39641	0.976682	231.718	33.2316	0.610426	1284.34
8/17/2006 16:21	13.115	3.39641	0.732511	230.985	32.8165	0.488341	1272.13
8/17/2006 16:21	13.115	3.39641	0.732511	230.497	32.9142	0.488341	1275.79

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8/17/2006 16:21	13.115	3.39641	0.732511	230.497	32.3037	0.366256	1297.77
8/17/2006 16:21	13.115	3.39641	0.732511	230.497	32.9142	1.09877	1283.12
8/17/2006 16:22	13.115	3.39641	0.732511	230.009	33.0851	0.610426	1278.23
8/17/2006 16:22	13.115	3.39641	0.732511	230.009	32.9386	0.488341	1278.23
8/17/2006 16:22	13.2157	3.39641	0.732511	229.276	32.67	0.976682	1284.34
8/17/2006 16:22	13.2157	3.39641	0.732511	228.055	32.8165	0.610426	1280.67
8/17/2006 16:23	13.2157	3.39641	0.732511	226.834	32.7921	0.610426	1272.13
8/17/2006 16:23	13.2157	3.39641	0.976682	226.346	33.0851	0.488341	1294.1
8/17/2006 16:23	13.2157	3.39641	0.732511	225.858	33.0851	0.732511	1264.8
8/17/2006 16:23	13.2157	3.39641	0.732511	227.079	32.7921	0.488341	1278.23
8/17/2006 16:24	13.2157	3.39641	0.732511	226.834	33.0851	0.976682	1269.69
8/17/2006 16:24	13.2157	3.39641	0.732511	226.834	33.0851	0.610426	1267.24
8/17/2006 16:24	13.2157	3.39641	0.976682	227.567	33.0851	0.488341	1274.57
8/17/2006 16:24	13.2157	3.39641	0.976682	228.055	33.3537	0.976682	1264.8
8/17/2006 16:25	13.2157	3.39641	0.732511	228.055	33.8664	0.854597	1273.35
8/17/2006 16:25	13.2157	3.39641	0.732511	227.567	33.4758	0.610426	1266.02
8/17/2006 16:25	13.2157	3.39641	0.976682	228.299	33.3537	0.366256	1261.14
8/17/2006 16:25	13.2157	3.39641	0.976682	230.497	33.2316	0.854597	1269.69
8/17/2006 16:26	13.2157	3.39641	0.732511	232.45	33.5246	0.488341	1264.8
8/17/2006 16:26	13.2157	3.39641	0.732511	233.427	33.1339	0.488341	1256.26
8/17/2006 16:26	13.2157	3.39641	0.976682	233.183	33.0118	0.976682	1259.92
8/17/2006 16:26	13.2157	3.39641	0.976682	234.159	33.3293	0.732511	1273.35
8/17/2006 16:27	13.2157	3.39641	0.732511	233.915	33.3537	0.732511	1257.48
8/17/2006 16:27	13.2157	3.39641	0.976682	234.159	33.3537	0.854597	1266.02
8/17/2006 16:27	13.3164	3.39641	0.732511	233.915	33.2316	0.854597	1258.7
8/17/2006 16:27	13.3164	3.39641	0.976682	233.915	33.2316	0.976682	1261.14
8/17/2006 16:28	13.3164	3.39641	0.732511	234.159	32.7921	0.854597	1259.92
8/17/2006 16:28	13.4263	3.39641	0.732511	233.915	31.9375	0.488341	1261.14
8/17/2006 16:28	13.4263	3.39641	0.976682	234.159	31.5224	0.976682	1255.04
8/17/2006 16:28	13.4263	3.39641	2.93005	233.183	31.5224	0.610426	1263.58
8/17/2006 16:29	13.4263	3.39641	2.68587	233.183	31.3515	0.366256	1259.92
8/17/2006 16:29	13.4263	3.39641	2.93005	233.427	31.8887	0.488341	1261.14
8/17/2006 16:29	13.4263	3.39641	2.93005	233.915	31.8887	0.732511	1261.14
8/17/2006 16:29	13.4263	3.39641	2.93005	234.159	31.498	0.976682	1261.14
8/17/2006 16:30	13.4263	3.39641	2.93005	234.159	31.5224	0.610426	1253.82
8/17/2006 16:30	13.4263	3.39641	2.93005	234.159	32.2549	0.610426	1258.7
8/17/2006 16:30	13.4263	3.39641	2.93005	233.427	32.4991	0.976682	1259.92
8/17/2006 16:30	13.4263	3.39641	2.68587	233.427	32.6456	0.488341	1251.37
8/17/2006 16:31	13.4263	3.39641	0.732511	232.939	33.2316	0.976682	1263.58
8/17/2006 16:31	13.4263	3.39641	0.732511	232.206	33.5979	0.610426	1248.93
8/17/2006 16:31	13.4263	3.39641	0.976682	232.45	33.3537	0.732511	1259.92
8/17/2006 16:31	13.4263	3.39641	0.732511	232.206	33.5002	0.854597	1253.82
8/17/2006 16:32	13.4263	3.39641	0.732511	231.718	33.6467	0.976682	1250.15
8/17/2006 16:32	13.4263	3.39641	0.976682	230.985	33.9397	0.488341	1253.82

PCC Incinerator
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8/17/2006 16:32	13.3225	3.39641	0.732511	230.985	34.6966	0.976682	1253.82
8/17/2006 16:32	13.3225	3.39641	0.732511	230.253	35.1117	0.488341	1246.49
8/17/2006 16:33	13.3225	3.39641	0.732511	229.276	35.3559	0.976682	1251.37
8/17/2006 16:33	13.3225	3.39641	0.732511	228.788	35.2338	0.488341	1240.39
8/17/2006 16:33	13.3225	3.39641	0.976682	229.276	35.2338	0.854597	1250.15
8/17/2006 16:33	13.3225	3.39641	0.732511	229.276	35.3559	0.488341	1241.61
8/17/2006 16:34	13.3225	3.39641	-0.97668	229.52	35.478	0.854597	1251.37
8/17/2006 16:34	13.3225	3.39641	0.732511	229.276	35.6489	0.732511	1244.05
8/17/2006 16:34	13.3225	3.39641	0.732511	229.764	35.5024	0.488341	1247.71
8/17/2006 16:34	13.3225	3.39641	0.976682	229.276	35.3559	0.976682	1247.71
8/17/2006 16:35	13.3225	3.39641	0.732511	228.788	34.8187	0.366256	1237.94
8/17/2006 16:35	13.3225	3.39641	0.732511	227.567	34.8187	0.854597	1253.82
8/17/2006 16:35	13.3225	3.39641	0.976682	226.834	33.8176	0.976682	1244.05
8/17/2006 16:35	13.4324	3.39641	0.976682	226.834	33.4513	0.732511	1245.27
8/17/2006 16:36	13.5362	3.39641	0.732511	226.834	33.4513	0.488341	1241.61
8/17/2006 16:36	13.5362	3.39641	0.976682	228.299	33.7444	0.854597	1241.61
8/17/2006 16:36	13.5362	3.39641	0.732511	229.276	34.6478	0.732511	1235.5
8/17/2006 16:36	13.5362	3.39641	0.732511	229.276	33.8909	0.366256	1236.72
8/17/2006 16:37	13.5362	3.39641	0.732511	227.567	33.6467	0.732511	1241.61
8/17/2006 16:37	13.5362	3.39641	0.732511	225.613	33.7932	0.854597	1233.06
8/17/2006 16:37	13.5362	3.39641	2.93005	226.346	33.5002	0.854597	1234.28
8/17/2006 16:37	13.5362	3.39641	2.93005	227.567	32.1817	0.488341	1234.28
8/17/2006 16:38	13.64	3.39641	2.93005	228.055	32.1817	0.976682	1242.83
8/17/2006 16:38	13.64	3.39641	2.93005	228.055	32.2061	0.366256	1229.4
8/17/2006 16:38	13.64	3.2963	2.93005	227.567	32.2061	0.854597	1245.27
8/17/2006 16:38	13.64	3.2963	2.93005	228.055	31.7666	0.732511	1228.18
8/17/2006 16:39	13.64	3.2963	2.93005	228.788	31.9131	0.610426	1237.94
8/17/2006 16:39	13.64	3.2963	2.93005	228.055	32.377	0.610426	1222.07
8/17/2006 16:39	13.64	3.2963	2.93005	227.567	32.9874	0.976682	1235.5
8/17/2006 16:39	13.64	3.2963	2.93005	227.079	33.2072	0.610426	1225.74
8/17/2006 16:40	13.5393	3.2963	0.976682	228.055	33.2316	0.732511	1228.18
8/17/2006 16:40	13.5393	3.39641	2.93005	229.276	33.6467	0.854597	1230.62
8/17/2006 16:40	13.5393	3.39641	0.732511	228.788	34.0618	0.488341	1219.63
8/17/2006 16:40	13.5393	3.39641	0.732511	228.055	33.7932	0.976682	1228.18
8/17/2006 16:41	13.5393	3.39641	0.732511	226.834	34.8431	0.488341	1224.51
8/17/2006 16:41	13.5393	3.39641	0.732511	225.369	35.2582	0.610426	1225.74
8/17/2006 16:41	13.5393	3.39641	0.732511	224.881	35.1117	0.488341	1223.29
8/17/2006 16:41	13.5393	3.39641	0.976682	223.904	35.1361	0.976682	1230.62
8/17/2006 16:42	13.5393	3.39641	0.732511	222.928	35.1361	0.488341	1218.41
8/17/2006 16:42	13.5393	3.39641	0.732511	221.951	28.4459	0.488341	1231.84
8/17/2006 16:42	13.5393	3.39641	0.732511	222.195	29.7155	0.854597	1226.96
8/17/2006 16:42	13.5393	3.39641	0.732511	221.707	30.7411	0.488341	1230.62
8/17/2006 16:43	13.5393	3.39641	-1.22085	220.974	31.1561	0.976682	1223.29
8/17/2006 16:43	13.5393	3.39641	0.732511	220.974	31.8642	0.488341	1231.84

PCC Incinerator
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Run 3

8/17/2006 16:43	13.5393	3.39641	-1.22085	220.486	31.8642	0.732511	1219.63
8/17/2006 16:43	13.5393	3.39641	0.732511	220.486	31.5957	0.488341	1228.18
8/17/2006 16:44	13.5393	3.39641	-0.97668	220.242	31.8887	0.976682	1222.07
8/17/2006 16:44	13.5393	3.39641	0.732511	221.218	32.2549	0.488341	1229.4
8/17/2006 16:44	13.5393	3.39641	0.976682	220.974	32.084	0.854597	1215.97
8/17/2006 16:44	13.5393	3.39641	0.976682	220.974	31.9619	0.488341	1228.18
8/17/2006 16:45	13.64	3.39641	0.976682	221.463	30.9608	0.976682	1217.19
8/17/2006 16:45	13.64	3.39641	0.732511	220.974	30.6678	0.732511	1225.74
8/17/2006 16:45	13.64	3.39641	0.976682	220.974	30.9364	0.976682	1214.75
8/17/2006 16:45	13.64	3.39641	0.732511	220.486	30.8143	0.488341	1225.74
8/17/2006 16:46	13.64	3.39641	0.976682	220.486	30.8143	0.976682	1217.19
8/17/2006 16:46	13.7468	3.39641	0.732511	219.753	30.6922	0.976682	1224.51
8/17/2006 16:46	13.7468	3.2963	2.93005	219.753	29.5935	0.610426	1218.41
8/17/2006 16:46	13.8475	3.2963	2.93005	219.265	28.9342	0.854597	1224.51
8/17/2006 16:47	13.8475	3.2963	2.93005	219.021	28.7877	0.854597	1217.19
8/17/2006 16:47	13.8475	3.2963	2.93005	219.265	28.7877	0.732511	1229.4
8/17/2006 16:47	13.8475	3.2963	2.93005	219.998	29.3981	0.488341	1219.63
8/17/2006 16:47	13.8475	3.2963	2.68587	220.486	29.276	0.976682	1229.4
8/17/2006 16:48	13.8475	3.2963	2.93005	220.486	28.69	0.488341	1230.62
8/17/2006 16:48	13.8475	3.2963	2.93005	220.486	28.69	1.09877	1218.41
8/17/2006 16:48	13.8475	3.2963	4.88341	219.021	28.69	0.488341	1217.19
8/17/2006 16:48	13.8475	3.2963	2.68587	218.777	29.2516	0.854597	1224.51
8/17/2006 16:49	13.8475	3.2963	2.93005	218.288	29.569	0.732511	1217.19
8/17/2006 16:49	13.8475	3.2963	2.93005	218.777	29.6911	0.610426	1222.07
8/17/2006 16:49	13.8475	3.2963	0.976682	219.265	30.4969	0.610426	1215.97
8/17/2006 16:49	13.7468	3.2963	2.93005	218.777	31.0585	0.976682	1222.07
8/17/2006 16:50	13.7468	3.2963	2.68587	218.777	30.7411	0.610426	1217.19
8/17/2006 16:50	13.7468	3.2963	0.976682	218.044	31.0096	1.09877	1222.07
8/17/2006 16:50	13.7468	3.39641	0.976682	218.044	32.3037	0.488341	1206.2
8/17/2006 16:50	13.7468	3.39641	0.976682	218.044	32.4258	0.488341	1222.07
8/17/2006 16:51	13.7468	3.39641	0.732511	218.777	32.4258	0.976682	1222.07
8/17/2006 16:51	13.7468	3.39641	0.732511	219.265	32.5479	0.732511	1215.97
8/17/2006 16:51	13.7468	3.39641	0.732511	218.533	32.963	0.488341	1223.29
8/17/2006 16:51	13.7468	3.39641	0.732511	217.068	32.7677	0.854597	1217.19
8/17/2006 16:52	13.7468	3.39641	0.732511	215.602	32.7677	0.732511	1230.62
8/17/2006 16:52	13.7468	3.39641	0.976682	215.602	32.8898	0.610426	1218.41
8/17/2006 16:52	13.7468	3.39641	0.732511	216.335	32.6456	0.732511	1228.18
8/17/2006 16:52	13.7468	3.39641	0.976682	216.823	33.0607	0.610426	1222.07
8/17/2006 16:53	13.7468	3.39641	0.976682	216.823	32.6456	0.732511	1219.63
8/17/2006 16:53	13.7468	3.39641	0.732511	217.068	32.7921	0.732511	1226.96
8/17/2006 16:53	13.7468	3.39641	0.732511	216.579	32.8165	1.09877	1217.19
8/17/2006 16:53	13.7468	3.39641	0.732511	217.068	32.8165	0.732511	1220.85
8/17/2006 16:54	13.7468	3.39641	0.732511	216.823	32.9386	0.976682	1218.41
8/17/2006 16:54	13.7468	3.39641	0.976682	216.335	33.2072	0.732511	1224.51

PCC Incinerator
Inlet Raw Data
Run 3

8/17/2006 16:54	13.7468	3.39641	0.976682	216.335	33.0851	0.488341	1212.31
8/17/2006 16:54	13.7468	3.39641	0.976682	216.579	33.256	0.488341	1220.85
8/17/2006 16:55	13.7468	3.39641	0.976682	216.579	32.8409	0.610426	1224.51
8/17/2006 16:55	13.7468	3.39641	0.976682	215.847	32.963	0.854597	1215.97
8/17/2006 16:55	13.7468	3.39641	0.732511	215.602	32.963	0.366256	1223.29
8/17/2006 16:55	13.7468	3.39641	0.732511	215.847	32.963	0.488341	1217.19
	12.89998	3.526591	42.57887	121.7843	35.51842	0.492774	1615.439

JOHN ZINC INCINERATOR

ISOKINETIC DATA SUMMARY

Client: Owens Corning **Plant: Medina** **Method: 5A**
Project #: 045396 **Source: John Zinc** **Location: Outlet**

RUN INFORMATION					
	Run Number	1	2	3	
	Test Date	8/18/2006	8/19/2006	8/21/2006	
	Start Time	8:36:00	7:54:00	7:47:00	
	End Time	14:17:30	13:33:30	13:32:30	
RESULTS					**AVERAGE**
PM Conc.	gr/DSCF	4.07E-02	6.71E-02	4.30E-02	**5.03E-02**
PM Emission Rate	lbs./hour	2.07E+00	3.18E+00	2.19E+00	**2.48E+00**
FIELD MEASURMENTS					
Ambient Temperature, °F		70	69	65	**68.0**
P_{bar}, in. Hg		29.90	29.90	29.95	**29.92**
P_{static}, in. H_2O		0.30	0.30	0.30	**0.30**
Stack Absolute Pressure, in. Hg		29.92	29.92	29.97	**29.94**
CO_2 , %		4.20	4.20	4.20	**4.20**
O_2 , %		11.00	11.10	11.30	**11.13**
N_2 , %		84.80	84.70	84.50	**84.67**
SAMPLING DATA					
Average Stack Temperature, °F		1000	1097	1020	**1039**
Average Meter Temperature, °F		77	77	76	**77**
Average Filter Temperature, °F		82	112	106	**100**
Average Probe Temperature, °F		107	99	96	**101**
Average Exit Temperature, °F		58	61	55	**58**
Average ΔP, in. H_2O		0.20	0.19	0.20	**0.20**
ΔH Avg., in H_2O		0.48	0.48	0.53	**0.49**
Meter Volume Sum, cf		179.353	160.284	175.772	**171.803**
Maximum Vacuum, in. Hg		15.0	20.0	7.0	**20.0**
STACK CALCULATIONS					
Isokinetic, %		102.86	101.92	102.38	**102.39**
Stack Velocity, ft/sec.		41.08	41.38	41.31	**41.26**
Volume Flow Rate/Actual, ACFM		18906.0	19042.5	19012.3	**18986.9**
Volume Flow Rate/Dry Std, DSCFM		5942.0	5529.4	5946.8	**5806.1**
Dry Molecular Weight, lb/lb-mole		29.11	29.12	29.12	**29.12**
Sample Volume - Dry Std, DSCF		178.757	159.669	175.884	**171.437**
Stack Moisture Content, %		13.05	14.34	12.45	**13.28**
EQUIPMENT INFORMATION					
Nozzle I.D.		GD35	GD 42	GD 43	**varies**
Nozzle Diameter, in.		0.3000	0.3080	0.3110	**0.3063**
Pitot I.D.		6P-8	6P-10	6P-8	**varies**
Thermocouple I.D.		6T-8	6T-10	6T-8	**varies**
Barometer I.D.		BEO4923	BEO4923	BEO4923	**BEO4923**
Meter Box I.D.		BEO4908	BEO4908	BEO4908	**BEO4908**
Leak Check Pitot		OK	OK	OK	**OK**
Meter Box Post Leak Check		OK	OK	OK	**OK**
ANALYTICAL INFORMATION INPUT					
F Factor, DSCF/10^6 BTU					
Filter I.D.		Q806B	Q819B	Q796B	
Filter Gross Weight, g		0.4634	0.681	0.4785	
Filter Tare Weight, g		0.3386	0.3594	0.3501	
Acetone Beaker ID		D752	D832	D828	
TCE Beaker Gross Weight, g		102.5952	103.2874	108.3894	
TCE Beaker Tare Weight, g		102.248	102.9144	108.0275	
TCE Blank Correction, g					
Filter Weight Gain, g		**0.1248**	**0.3216**	**0.1284**	
TCE Beaker Weight Gain, g		**0.3472**	**0.373**	**0.3619**	
Total Weight Gain, g		**0.4720**	**0.6946**	**0.4903**	

Operators: **Checked by:** **Review Date:**

ISOKINETIC SAMPLING DATA SHEET

Client: Owens Corning		Source: John Zinc		Date:	8/18/2006
Plant: Medina		Location: Outlet		Run #:	1
Project #: 045396		Operator: SC		Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q806B	Meter Con. #:	BE04908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BE04923	Meter Y:	1.0133	$T_{AMBIENT}$:	70	(°F)	Area:	7.67	(ft^2)
T-Couple:	6T-8	ΔH @:	1.7126	$P_{Bar.}$:	29.90	(in. Hg.)	Diameter:	37.50	(in.)
Probe ID:	6P-8	Nozzle ID:	GD35	P_{Static}:	0.30	(in. H_2O.)			
Probe Con.#:	4186H	Nozzle Con. #:	BE04961						
C_P:	0.84	Dn (in.) :	0.3000						

LEAK CHECK - ANALYSIS					RUN ESTIMATES						TEST INFORMATION		
Meter Initial:	0.002	cfm @	15.0	(in. Hg.)	Bws:	0.120	$\%CO_2$:	4.00	$\%O_2$:	13.00	Number of Ports:	2	
Meter Final:	0.002	cfm @	16.0	(in. Hg.)	$\%N_2$/CO:	83.00	Md:	29.16	Ms:	27.82	Points / Port:	12	
					ACTUAL VALUES						Reads / Point	2	
Pitot (-):	ok	@	6.0	(in. H_2O)	Bws:	0.130	$\%CO_2$:	4.20	$\%O_2$:	11.00	Time/Reading:	8.75	(min.)
Pitot (+):	ok	@	6.0	(in. H_2O)	$\%N_2$/CO:	84.80	M_D:	29.11	M_S:	27.66	Total Time (Θ):	457	(min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	DGM Outlet	Temperatures (°F) Stack	Filter	Probe	Aux.	Exit	Vac. (in. Hg.)
1		8:36:00	0.20	0.55	1.627	68	67	820	77	79	98	68	2.0
1	0:08:45	8:44:45	0.18	0.46	5.430	70	68	917	75	93	92	56	2.0
2	0:17:30	8:53:30	0.09	0.23	8.910	72	69	921	76	98	98	56	2.0
2	0:26:15	9:02:15	0.08	0.20	11.450	72	69	932	76	96	96	54	2.0
3	0:35:00	9:11:00	0.08	0.20	13.790	73	70	937	75	96	95	54	2.0
3	0:43:45	9:19:45	0.08	0.20	16.000	73	70	940	75	95	96	55	2.0
4	0:52:30	9:28:30	0.08	0.20	18.340	74	71	946	75	96	97	57	2.0
4	1:01:15	9:37:15	0.07	0.18	20.680	74	71	944	76	97	95	58	2.0
5	1:10:00	9:46:00	0.20	0.45	22.940	75	72	1116	76	97	94	59	2.0
5	1:18:45	9:54:45	0.20	0.45	26.370	75	72	1132	77	106	102	55	2.0
6	1:27:30	10:03:30	0.20	0.45	29.900	77	72	1130	78	111	109	56	2.0
6	1:36:15	10:12:15	0.20	0.45	33.120	77	73	1136	80	115	116	58	2.0
7	1:45:00	10:21:00	0.21	0.47	36.600	78	73	1139	81	114	116	58	2.0
7	1:53:45	10:29:45	0.23	0.51	40.050	78	73	1145	81	113	115	55	3.0
8	2:02:30	10:38:30	0.22	0.49	43.700	78	73	1135	82	109	114	54	3.0
8	2:11:15	10:47:15	0.22	0.50	47.280	78	74	1127	82	105	109	55	5.0
9	2:20:00	10:56:00	0.22	0.50	50.995	78	74	1125	83	103	105	56	5.0
9	2:28:45	11:04:45	0.22	0.50	54.300	78	74	1123	82	104	108	56	5.0
10	2:37:30	11:13:30	0.17	0.39	58.650	79	74	1117	82	111	108	58	5.0
10	2:46:15	11:22:15	0.26	0.74	61.900	79	74	807	84	108	104	61	5.0
11	2:55:00	11:31:00	0.25	0.76	66.200	81	75	727	85	110	106	62	5.0
11	3:03:45	11:39:45	0.21	0.70	70.750	82	75	623	85	113	108	65	5.0
12	3:12:30	11:48:30	0.20	0.65	74.550	82	75	644	85	106	110	66	5.0
12	3:21:15	11:57:15	0.20	0.66	78.600	82	76	630	85	106	110	67	5.0
	3:30:00	12:06:00			82.625								
1	3:30:00	12:15:00	0.24	0.53	82.625	77	76	1180	88	98	96	68	9.0
1	3:38:45	12:23:45	0.31	0.68	86.560	80	77	1194	86	117	114	58	10.0
2	3:47:30	12:32:30	0.32	0.70	90.710	81	77	1193	87	123	111	54	11.0
2	3:56:15	12:41:15	0.32	0.70	94.960	81	77	1190	88	129	110	54	13.0
3	4:05:00	12:50:00	0.30	0.66	99.100	82	77	1192	88	129	114	54	15.0
3	4:13:45	12:58:45	0.30	0.66	103.100	82	77	1190	88	128	115	54	15.0
4	4:22:30	13:07:30	0.34	0.74	107.500	82	77	1191	85	131	123	54	5.0
4	4:31:15	13:16:15	0.36	0.79	111.800	82	77	1193	86	135	122	55	6.0
5	4:40:00	13:25:00	0.35	0.77	116.220	84	77	1193	86	134	122	55	6.0
5	4:48:45	13:33:45	0.35	0.77	120.680	84	77	1191	86	126	123	61	7.0
6	4:57:30	13:42:30	0.35	0.77	125.000	85	78	1191	87	126	114	64	7.0
6	5:06:15	13:51:15	0.35	0.77	129.260	84	78	1190	85	119	120	55	7.0
7	5:15:00	14:00:00	0.35	0.77	133.800	84	78	1188	83	111	122	53	7.0
7	5:23:45	14:08:45	0.35	0.77	138.500	84	78	1189	83	110	122	53	7.0
8	5:32:30	14:17:30	0.30	0.66	142.350	84	78	1189	82	114	123	54	7.0
8	5:41:15	14:26:15	0.23	0.52	146.400	83	77	1128	79	108	117	57	5.0
9	5:50:00	14:35:00	0.22	0.50	150.000	82	77	1127	82	108	112	57	5.0
9	5:58:45	14:43:45	0.10	0.25	153.960	82	77	994	81	103	107	59	1.0
10	6:07:30	14:52:30	0.08	0.20	156.550	81	77	989	82	100	102	62	1.0
10	6:16:15	15:01:15	0.07	0.27	159.000	81	77	463	82	100	102	58	1.0
11	6:25:00	15:10:00	0.06	0.23	161.715	80	77	471	82	85	99	62	1.0
11	6:33:45	15:18:45	0.05	0.20	164.150	80	77	459	83	86	100	65	1.0
12	6:42:30	15:27:30	0.05	0.19	166.400	80	77	459	83	87	101	66	1.0
12	6:51:15	15:36:15	0.07	0.17	168.800	80	77	987	85	93	102	65	1.0
1	7:00:00	15:45:00	0.08	0.21	170.970	80	77	900	84	92	101	58	1.0
1	7:08:45	15:53:45	0.08	0.20	173.350	80	78	990	85	99	101	61	1.0
1	7:17:30	16:02:30	0.08	0.20	175.675	80	78	985	88	101	103	61	1.0
1	7:26:15	16:11:15	0.08	0.20	178.000	81	78	984	87	101	97	63	1.0
	7:37:17	16:16:00			180.980								

Avg.	Avg.	Total Volume	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
0.20	0.46	179.353	79.21	74.94	1000.25	82.38	107.19	107.62	58.44	4.42
Avg. Sqrt.			Avg. Tm.		SVP					Max.
0.43			77.1		29.9200					15.0

ISOKINETIC SAMPLING DATA SHEET

Client: Owens Corning		Source: John Zinc		Date:	8/19/2006
Plant: Medina		Location: Outlet		Run #:	2
Project #: 045396		Operator: SC		Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q819B	Meter Con. #:	BE04908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BE04923	Meter Y:	1.0133	$T_{AMBIENT}$:	69	(°F)	Area:	7.67	(ft^2)
T-Couple:	6T-10	ΔH @:	1.7126	$P_{Bar.}$:	29.90	(in. Hg.)	Diameter:	37.50	(in.)
Probe ID:	6P-10	Nozzle ID:	GD 42	P_{Static}:	0.30	(in. H_2O.)			
Probe Con.#:	4186J	Nozzle Con. #:	BE04961						
C_P:	0.84	Dn (in.):	0.3080						

LEAK CHECK - ANALYSIS					RUN ESTIMATES					TEST INFORMATION		
Meter Initial:	0.005	cfm @	15.0	(In. Hg.)	Bws:	0.124	$\%CO_2$:	4.00	$\%O_2$:	11.00	Number of Ports:	2
Meter Final:	0.010	cfm @	15.0	(In. Hg.)	$\%N_2/CO$:	85.00	Md:	29.08	Ms:	27.71	Points / Port:	12
Pitot (-):	ok	@	7.0	(in. H_2O)	ACTUAL VALUES						Reads / Point	2
Pitot (+):	ok	@	6.5	(in. H_2O)	Bws:	0.143	$\%CO_2$:	4.20	$\%O_2$:	11.10	Time/Reading:	8.75 (min.)
					$\%N_2/CO$:	84.70	M_D:	29.12	M_S:	27.52	Total Time (Θ):	420 (min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	Temperatures (°F) Outlet	Stack	Filter	Probe	Aux.	Exit	Vac. (in. Hg.)
1		7:54:00	0.09	0.24	181.155	69	68	975	98	98	100	68	2.0
1	0:08:45	8:02:45	0.05	0.14	183.400	68	68	960	95	92	99	61	1.0
2	0:17:30	8:11:30	0.05	0.14	185.450	68	68	973	95	92	101	62	1.0
2	0:26:15	8:20:15	0.06	0.16	187.450	69	68	963	95	92	101	61	1.0
3	0:35:00	8:29:00	0.06	0.17	189.580	70	68	955	99	96	102	63	1.0
3	0:43:45	8:37:45	0.06	0.17	191.600	71	69	959	99	101	103	64	1.0
4	0:52:30	8:46:30	0.06	0.17	193.500	71	69	948	99	100	103	63	1.0
4	1:01:15	8:55:15	0.06	0.17	195.455	72	70	946	97	99	101	62	1.0
5	1:10:00	9:04:00	0.21	0.52	197.470	72	70	1134	97	99	101	58	5.0
5	1:18:45	9:12:45	0.23	0.56	201.075	75	71	1146	101	96	103	56	5.0
6	1:27:30	9:21:30	0.20	0.49	204.830	77	71	1146	110	94	103	58	9.0
6	1:36:15	9:30:15	0.20	0.50	208.400	77	72	1130	103	93	104	58	9.0
7	1:45:00	9:39:00	0.20	0.50	212.050	77	72	1124	105	89	106	63	10.0
7	1:53:45	9:47:45	0.19	0.47	215.680	77	72	1123	105	86	98	66	10.0
8	2:02:30	9:56:30	0.19	0.48	219.100	78	72	1119	105	88	99	61	10.0
8	2:11:15	10:05:15	0.37	0.92	222.700	78	73	1136	104	103	101	54	15.0
9	2:20:00	10:14:00	0.35	0.85	227.800	78	73	1172	118	100	109	53	9.0
9	2:28:45	10:22:45	0.35	0.84	232.500	78	73	1181	117	98	114	54	10.0
10	2:37:30	10:31:30	0.36	0.87	236.910	81	74	1184	118	86	117	53	10.0
10	2:46:15	10:40:15	0.36	0.87	241.620	81	74	1186	122	90	116	58	10.0
11	2:55:00	10:49:00	0.32	0.78	246.760	81	74	1168	122	90	113	59	10.0
11	3:03:45	10:57:45	0.31	0.76	251.000	82	75	1159	118	90	114	60	10.0
12	3:12:30	11:06:30	0.30	0.74	255.500	82	75	1154	117	88	112	61	9.0
12	3:21:15	11:15:15	0.29	0.72	259.950	82	75	1151	117	89	111	62	9.0
	3:30:00	11:24:00			264.371								
1	3:30:00	11:31:00	0.20	0.48	264.371	76	75	1173	97	98	97	68	11.0
1	3:38:45	11:39:45	0.20	0.49	267.950	78	75	1167	114	89	99	67	16.0
2	3:47:30	11:48:30	0.20	0.48	269.000	78	75	1183	114	146	92	67	20.0
2	3:56:15	11:57:15	0.20	0.48	271.000	77	75	1184	115	145	99	64	12.0
3	4:05:00	12:06:00	0.28	0.68	274.780	79	75	1184	133	124	113	63	4.0
3	4:13:45	12:14:45	0.28	0.68	279.350	79	75	1182	135	106	111	62	3.0
4	4:22:30	12:23:30	0.26	0.63	283.500	80	75	1180	132	102	118	65	3.0
4	4:31:15	12:32:15	0.30	0.73	287.900	82	75	1184	131	101	109	63	2.0
5	4:40:00	12:41:00	0.30	0.73	292.050	84	77	1181	128	100	104	61	2.0
5	4:48:45	12:49:45	0.30	0.73	296.460	85	77	1179	131	99	108	60	2.0
6	4:57:30	12:58:30	0.30	0.73	300.900	85	78	1182	133	100	109	63	2.0
6	5:06:15	13:07:15	0.18	0.45	305.300	86	79	1128	130	101	108	62	2.0
7	5:15:00	13:16:00	0.16	0.41	308.820	85	79	1108	122	98	108	61	2.0
7	5:23:45	13:24:45	0.15	0.38	312.200	85	80	1107	120	99	109	62	2.0
8	5:32:30	13:33:30	0.15	0.38	315.500	86	81	1106	117	103	107	65	2.0
8	5:41:15	13:42:15	0.10	0.27	318.850	86	81	1024	115	99	107	66	2.0
9	5:50:00	13:51:00	0.10	0.27	321.600	86	81	1022	113	99	110	64	2.0
9	5:58:45	13:59:45	0.09	0.24	324.170	86	82	1024	111	101	111	62	2.0
10	6:07:30	14:08:30	0.09	0.25	326.780	86	83	1010	106	101	112	60	2.0
10	6:16:15	14:17:15	0.08	0.22	329.370	86	83	1010	104	107	111	61	2.0
11	6:25:00	14:26:00	0.08	0.22	332.020	86	83	1019	106	107	112	60	2.0
11	6:33:45	14:34:45	0.08	0.22	334.400	86	84	1013	102	97	111	59	2.0
12	6:42:30	14:43:30	0.08	0.22	336.800	87	84	1009	100	99	105	59	2.0
12	6:51:15	14:52:15	0.08	0.22	339.000	87	84	1006	99	103	103	58	2.0
	7:00:00	15:01:00			341.439								
			Avg.	Avg.	Total Volume	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
			0.19	0.48	160.284	79.48	75.21	1097.02	111.75	99.44	106.33	61.25	5.46
			Avg. Sqrt.			Avg. Tm.		SVP					Max.
			0.42			77.3		30					20.0

ISOKINETIC SAMPLING DATA SHEET

Client:	Owens Corning	Source:	John Zinc	Date:	8/21/2006
Plant:	Medina	Location:	Outlet	Run #:	3
Project #:	045396	Operator:	SC	Method:	5A

EQUIPMENT IDS AND INFO				TEMPERATURE / PRESSURE			STACK DATA		
Filter:	Q796B	Meter Con. #:	BEO4908	T_{STD}:	68	(°F)	Shape:	Circle	
Bar. Con.#:	BEO4923	Meter Y:	1.0133	$T_{AMBIENT}$:	65	(°F)	Area:	7.67	(ft^2)
T-Couple:	6T-8	ΔH @:	1.7126	$P_{Bar.}$:	29.95	(in. Hg.)	Diameter:	37.50	(in.)
Probe ID:	6P-8	Nozzle ID:	GD 43	P_{Static}:	0.30	(in. H_2O.)			
Probe Con.#:	4186H	Nozzle Con. #:	BE04961						
C_P:	0.84	Dn (in.) :	0.3110	RUN ESTIMATES			TEST INFORMATION		
LEAK CHECK - ANALYSIS				Bws: 0.130	$\%CO_2$: 4.00	$\%O_2$: 10.80	Number of Ports:	2	
Meter Initial:	0.005 cfm @	15.0	(in. Hg.)	$\%N_2$/CO: 85.20	Md: 29.07	Ms: 27.63	Points / Port:	12	
Meter Final:	0.001 cfm @	15.0	(in. Hg.)	ACTUAL VALUES			Reads / Point	2	
Pitot (-):	ok @	5.0	(in. H_2O)	Bws: 0.125	$\%CO_2$: 4.20	$\%O_2$: 11.30	Time/Reading:	8.75	(min.)
Pitot (+):	ok @	5.5	(in. H_2O)	$\%N_2$/CO: 84.50	M_D: 29.12	M_S: 27.74	Total Time (Θ):	420	(min.)

Trvs. Pt. No.	Sample Time (H:MM:SS)	Clock Time (24Hr.)	ΔP (in. H_2O)	ΔH in. H_2O	Meter Vm(cf)	DGM Inlet	DGM Outlet	Temperatures (°F) Stack	Filter	Probe	Aux.	Exit	Vac. (in. Hg.)
1		7:47:00	0.10	0.27	341.950	68	68	1009	94	95	95	57	2.0
1	0:08:45	7:55:45	0.09	0.24	344.680	68	68	1025	100	91	113	48	2.0
2	0:17:30	8:04:30	0.09	0.24	347.100	69	67	1027	90	92	121	50	2.0
2	0:26:15	8:13:15	0.09	0.24	349.460	70	68	1057	90	94	117	51	2.0
3	0:35:00	8:22:00	0.10	0.27	351.940	71	68	1031	90	100	122	52	2.0
3	0:43:45	8:30:45	0.10	0.27	354.500	72	69	1029	101	90	113	53	2.0
4	0:52:30	8:39:30	0.10	0.27	357.000	72	69	1021	100	90	110	54	2.0
4	1:01:15	8:48:15	0.10	0.27	359.500	73	69	1015	102	97	114	54	2.0
5	1:10:00	8:57:00	0.10	0.27	362.100	73	70	1011	103	95	115	55	2.0
5	1:18:45	9:05:45	0.20	0.51	364.670	74	70	1114	100	87	109	56	3.0
6	1:27:30	9:14:30	0.18	0.46	368.400	76	71	1115	104	93	116	52	3.0
6	1:36:15	9:23:15	0.19	0.49	371.900	77	71	1115	103	96	118	53	3.0
7	1:45:00	9:32:00	0.19	0.49	375.100	76	71	1113	105	98	115	54	2.0
7	1:53:45	9:40:45	0.19	0.49	378.400	76	72	1108	105	94	118	51	2.0
8	2:02:30	9:49:30	0.18	0.47	382.300	76	72	1106	105	90	120	51	2.0
8	2:11:15	9:58:15	0.38	0.95	386.000	76	72	1168	103	97	116	52	2.0
9	2:20:00	10:07:00	0.36	0.89	391.600	78	72	1183	102	97	114	52	2.0
9	2:28:45	10:15:45	0.39	0.96	396.000	78	72	1196	102	97	113	51	2.0
10	2:37:30	10:24:30	0.37	0.91	400.550	79	72	1188	102	99	123	54	2.0
10	2:46:15	10:33:15	0.36	0.88	405.400	79	72	1194	102	99	122	55	2.0
11	2:55:00	10:42:00	0.35	0.86	410.100	79	73	1193	111	101	124	54	2.0
11	3:03:45	10:50:45	0.39	0.95	414.800	79	73	1204	111	101	122	55	2.0
12	3:12:30	10:59:30	0.37	0.92	419.640	80	73	1187	111	102	124	57	2.0
12	3:21:15	11:08:15	0.34	0.84	424.480	80	73	1186	112	111	123	59	2.0
	3:30:00	11:17:00			429.091								
1	3:30:00	11:30:00	0.25	0.63	429.091	74	73	1160	94	92	100	68	2.0
1	3:38:45	11:38:45	0.20	0.49	433.150	75	73	1181	98	92	101	68	2.0
2	3:47:30	11:47:30	0.21	0.52	436.720	76	73	1182	118	92	120	53	2.0
2	3:56:15	11:56:15	0.21	0.52	440.400	76	73	1181	112	101	123	52	2.0
3	4:05:00	12:05:00	0.21	0.52	444.000	78	73	1184	132	103	122	53	5.0
3	4:13:45	12:13:45	0.28	0.69	447.950	79	74	1188	131	105	122	52	5.0
4	4:22:30	12:22:30	0.28	0.69	451.700	80	74	1188	131	98	122	48	6.0
4	4:31:15	12:31:15	0.28	0.69	455.900	81	75	1192	133	96	122	51	6.0
5	4:40:00	12:40:00	0.26	0.64	460.090	82	75	1189	131	101	123	53	7.0
5	4:48:45	12:48:45	0.25	0.65	464.000	82	75	1102	131	100	122	51	7.0
6	4:57:30	12:57:30	0.25	0.66	468.350	83	76	1103	130	99	115	52	7.0
6	5:06:15	13:06:15	0.25	0.66	472.600	83	76	1082	121	101	114	52	7.0
7	5:15:00	13:15:00	0.22	0.59	476.600	83	77	1077	107	92	109	52	7.0
7	5:23:45	13:23:45	0.20	0.62	480.650	84	78	855	104	90	110	52	7.0
8	5:32:30	13:32:30	0.13	0.48	484.590	84	78	648	103	90	111	53	7.0
8	5:41:15	13:41:15	0.12	0.45	488.200	84	78	641	102	92	112	54	7.0
9	5:50:00	13:50:00	0.11	0.42	491.580	83	78	608	102	89	101	58	6.0
9	5:58:45	13:58:45	0.11	0.37	494.940	83	78	747	101	89	105	61	6.0
10	6:07:30	14:07:30	0.11	0.36	498.050	83	79	807	99	92	102	62	7.0
10	6:16:15	14:16:15	0.11	0.37	501.150	83	79	775	98	99	96	61	7.0
11	6:25:00	14:25:00	0.10	0.32	504.210	83	79	832	98	91	97	62	7.0
11	6:33:45	14:33:45	0.10	0.35	507.200	83	79	728	98	92	99	63	7.0
12	6:42:30	14:42:30	0.08	0.31	510.350	83	79	586	98	99	99	64	7.0
12	6:51:15	14:51:15	0.06	0.24	513.335	84	80	568	93	93	99	64	7.0
1	7:00:00	15:00:00	0.06	0.24	515.940	84	80	574	96	99	99	65	7.0
	7:06:26	15:06:00			517.722								
			Avg.	Avg.	Total Volume	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.
			0.20	0.53	175.772	78.2	73.6	1019.9	106.3	95.8	113.1	55.2	4.0
			Avg. Sqrt.			Avg. Tm.		SVP					Max.
			0.43			76		30					7.0

Particulate Matter Emission Test Results with Condensable Fraction
John Zinc Incinerator
Owens Corning Medina Asphalt Plant
8/18-21/06

Test Date	Run	Start Time	Stop Time	Temp. (F)	Moisture (%)	Actual Flowrate (acfm)	Dry Std. Flowrate (dscfm)	Sample Volume (dscf)	Filterable PM		Organic Condensable Catch (g)	Inorganic Condensable Catch (g)	Total Catch (g)	Total Concentration gr/dscf	Total Emission Rate (lb/hr)
									TCE Rinse (g)	Filter Catch (g)					
8/18/2006	1	8:36	16:16	1000.3	13.0	18,906	5,942	178.757	0.3472	0.1248	0.0926	0.2047	0.7693	0.0664	3.38
8/19/2006	2	7:54	15:01	1097.0	14.3	19,042	5,529	159.669	0.3730	0.3216	0.0664	0.2917	1.0527	0.1017	4.82
8/21/2006	3	7:47	15:06	1019.9	12.5	19,012	5,947	175.884	0.3619	0.1284	0.0116	0.1598	0.6617	0.0581	2.96
	Avg			**1039.0**	**13.3**	**18,987**	**5,806**							**0.0754**	**3.72**

John Zinc

John Zinc Back Half

Run #	MeCl Beaker ID	MeCl Beaker Tare	MeCl Beaker Gross	Water Beaker ID
1	D850	105.9196	106.0122	D847
2	D846	95.4977	95.5641	D848
3	D853	106.331	106.3426	D849

	MeCl Total Gain
Run #1	0.0926
Run #2	0.0664
Run #3	0.0116

Water Beaker Tare	Water Beaker Gross	Total Weight Gain
106.5885	106.7932	0.2973
114.7722	115.0639	0.3581
108.5589	108.7187	0.1714

Water Total Gain
0.2047
0.2917
0.1598

Variable Definitions

% CO2 = Percent CO2 by volume, dry basis
% N2 = Percent N2 by volume, dry basis
% O2 = Percent O2 by volume, dry basis
%CO = Percent CO by volume, dry basis
□P = Velocity head of stack gas, in. H2O
0.04707 ft3 0.04715 ft3 35.31 ft3/m3
0.280 = Molecular weight of N2 and CO, divided by 100
0.320 = Molecular weight of O2, divided by 100
0.440 = Molecular weight of CO2, divided by 100
AS = Cross-sectional area of stack, ft2
Bws = Water vapor in the gas stream, proportion by volume
Bwm = Approximate proportion by volume of water vapor in the gas stream leaving the second impinger, .025
Cp = Pitot tube coefficient, dimensionless
Cst = Stack concentration, µg/dry standard cubic meter
Kp = Pitot tube constant
MD = Dry molecular weight, lb/lb - mole
ml = Mass of compound in, µg
Ms = Molecular weight of stack gas, wet basis, lb/lb-mole
Mw = Molecular weight of water, 18.0 lb/lb-mole
Pm = Absolute pressure at the dry gas meter, in. Hg
Pmrt= Emission Rate lb/hr
Ps = Absolute stack gas pressure, in. Hg
Pstd = Standard absolute pressure, 29.92 in. Hg
Pw = Density of water, 0.002201 lb/ml
Qsd= Dry volumetric stack gas flow rate, dry standard ft3/minute
R= Ideal Gas Constant, 21.85 (in. Hg)*(ft3)/(lb-mole)*(R)
Tm = Absolute temperature at meter, □R
Ts = Stack gas temperature, □ R
Tstd = Standard absolute temperature, 528□ R
Vf = Final volume of impinger train, ml.
Vi = Initial volume of impinger train, ml.
Vm = Dry gas volume measured by dry gas meter, dcf
Vm(std) = Dry gas volume measured by dry gas meter, corrected to standard conditions, dscf
Vm(std) = Dry gas volume measured by the dry gas meter, corrected to standard conditions, dscf
Vs = Average stack gas velocity, ft/sec
Vwc(std) = Volume of water vapor condensed corrected to standard conditions, scf
Vwsg(std) = Volume of water vapor collected corrected to standard conditions, scf
Vwsg(std) = Volume of water vapor collected in silica gel corrected to standard conditions
Wf = Final weight of impinger train, g.
Wi = Initial weight of impinger train, g.
Y = Dry gas meter calibration factor

Client: Owens Corning
Project #: 045396

Plant: Medina
Source: John Zinc

Location: Outlet

Reference Method No. 2 Calculations

Average Stack Gas Velocity	$v_s = K_p C_p (\sqrt{\Delta p})_{avg} \sqrt{\frac{T_{s(avg)}}{P_S M_S}}$	v_S=	41.0826	ft/sec.
Average Stack Volumetric Flow Rate	$Q_a = 60 v_s A_s$	Q_A=	18906.0	ACFM
Average Stack Gas Dry Standard Flow Rate	$Q_{sd} = 60(1-B_{ws}) v_s A_s \left(\frac{T_{std} P_s}{T_s P_{std}}\right)$	Q_{SD}=	5942.0	DSCFM

Reference Method No. 3 Calculations

Molecular Weight, Dry	$M_D = 0.440(\%CO_2) + 0.320(\%O_2) + 0.280(\%N_2 + CO)$	M_D=	29.11	lb/lb-mole
Molecular Weight, Wet	$M_S = M_D(1-B_{ws}) + 18 B_{ws}$	M_S=	27.66	lb/lb-mole

Reference Method No. 4 Calculations

Sample Gas Volume, Standard Conditions	$V_{m(std)} = V_m Y \frac{P_m T_{std}}{P_{std} T_m}$	$V_{m(std)}$=	178.757	DSCF
Volume of Water Vapor Condensed	$V_{wc(std)} = 0.04707\,(V_f - V_i)$	$V_{wc(std)}$=	0.000	ft^3/ml
Volume of Water Vapor Condensed in Silica Gel	$V_{wsg(std)} = 0.04715\,(W_f - W_i)$	$V_{wsg(std)}$=	26.828	ft^3/g
Moisture Volume Fraction of Stack Gas	$B_{ws} = \frac{V_{wc(std)} + V_{wsg(std)}}{V_{wc(std)} + V_{wsg(std)} + V_{m(std)}}$	B_{ws}=	0.130	
Vapor Pressure of Stack H_2O	$V_P = SVP - 0.000367\,(P_S)(1 + \frac{T_S - 32}{1571})$	VP=	29.902	
Bws VP	$B_{ws}\ VP = \frac{VP}{P_S}$	B_{ws}VP=	0.999	
		MIN B_{ws} or B_{ws}VP=	0.130	

Reference Method No. 5 Calculations

Percent Isokinetic	$I = \frac{100 T_s V_{m(std)} P_{std}}{60 T_{std} v_s \theta A_n P_s (1-B_{ws})}$	I=	102.9	%
Mass Emissions Rate	$E = \frac{m_t}{V_{m(std)}} Q_{sd}$	E=	15.6896	g/min
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{60\min}{hour} * \frac{1lbs}{454g}$		2.0735	lbs/hour
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{1\min}{60\sec}$		0.2615	g/second
	$E = \frac{m_t}{V_{m(std)}} Q_{sd} * \frac{60\min}{1hour} * \frac{1Kg}{1{,}000g}$		0.9414	kg/hour
	$E = C_d F_d \frac{20.9}{20.9 - \%O_{2d}} * \frac{1lbs}{454g}$		0.0000	lbs/mmBTU
Stack Concentration	$C_{ST} = \frac{m_t}{V_{m(std)}}$	C_{st}=	0.0026	g/DSCF
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{15.43gr}{1g}$		0.0407	gr/DSCF
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{10^6 \mu g}{1g} * \frac{1SCF}{0.028317SCM}$		#########	ug/DSCM
	$C_{ST} = \frac{m_t}{V_{m(std)}} * \frac{10^6 \mu g}{1g} * \frac{1SCF}{0.028317SCM} * \frac{T_{Normal}}{T_{std}}$		#########	ug/DNCM
Stack Concentration Corrected to 7% O_2	$C_{ST O_2} = C_{ST} \frac{20.9 - 7.0}{20.9 - \%O_2}$	C_{stO2}=	0.0572	gr/DSCF @7%O_2
			#########	ug/DSCM @7%O_2
			#########	ug/DNCM @7%O_2
Stack Concentration Corrected to 12% CO_2	$C_{ST CO_2} = C_{ST} \frac{12.0}{\%CO_2}$	C_{stCO2}=	0.1164	gr/DSCF @12% CO_2

E3 Division
CONESTOGA-ROVERS & ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: RM 5A Run: 1
Site: John Zinc Recovery Technician: SZ Date: 8/18/06

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	DI H_2O	DI H_2O	EMPTY	SILICA		
Initial Vol. (ml)	100	100	Ø	-		
Final Vol. (ml)	350	375	14	-		
Rinse Vol. (ml)				-		
Comments						

Train Initial Weight (g): 3632.0 Final Weight (g): 4201.0
Silica Gel Initial Weight (g): ~~4201.0~~ Final Weight (g):

FRONT HALF

	Filter	Beaker
ID No.	Q806B	
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Start Purge: 17:26
Stop Purge: 18:26

Notes/Comments:	

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: PM Run: 2
Site: Soba Zinc Recovery Technician: SZ Date: 8/19/06

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	D.I H_2O	D.I H_2O	Empty	Silica		
Initial Vol. (ml)	100	100	0	–		
Final Vol. (ml)	340	294	67	–		
Rinse Vol. (ml)				–		
Comments						

Train Initial Weight (g) : 3510.5 Final Weight (g): 4077.5
Silica Gel Initial Weight (g): Final Weight (g):

Start Purge 16:01
End Purge 17:01

FRONT HALF

	Filter	Beaker
ID No.	Q819B	
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Notes/Comments:	

E3 Division
CONESTOGA-ROVERS & ASSOCIATES

SAMPLE RECOVERY SHEET

Project No.: 045396 Sample Type: RM5A/202 Run: 3
Site: John Zinc (outlet) Recovery Technician: AK Date: 8-21-06

	Imp. 1	Imp. 2	Imp. 3	Imp. 4	Imp. 5	Imp. 6
Contents	D.I. H_2O	D.I H_2O	Empty	Silica		
Initial Vol. (ml)	100	100	0	–		
Final Vol. (ml)	330	286	34	–		
Rinse Vol. (ml)				–		
Comments						

Train Initial Weight (g): 3594.0 Final Weight (g): 4124.5
Silica Gel Initial Weight (g): Final Weight (g):

FRONT HALF

	Filter	Beaker
ID No.	Q796B	
Contents		
Volume (ml)		
Gross (g)		
Tare (g)		
Blank (g)		
Comments		

Purge Start ~ 15:40
Purge End. 16:40

Notes/Comments:	

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: JOHN ZINC TANKS	Unit #: T004, T009, T031, T026	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: TALL DARK GREY STACK WITH NO SPIRAL VANES

Height of Emiss. Pt. Start 250 End SAME	Height of Emiss. Pt. Rel. to Observer Start 250 End SAME
Distance to Emiss. Pt. Start 1500 End SAME	Direction to Emiss. Pt. (Degrees) Start 342 End SAME
Vertical Angle to Obs. Pt. Start 6 End SAME	Direction to Obs. Pt. (Degrees) Start 342 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

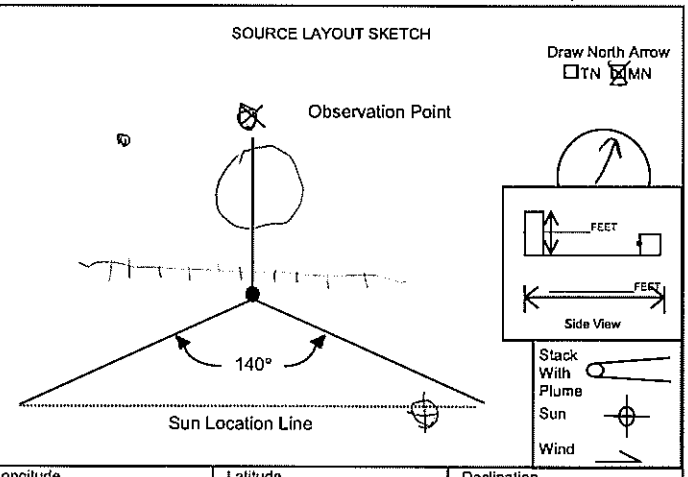
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None) ~

Describe Plume Background: Start SKY End SAME

Background Color Start GREY End SAME	Sky Conditions Start OVRCST End SAME
Wind Speed Start 0-3 End 0-2	Wind Direction Start SE End SAME
Ambient Temp Start 74 End 77	Wet Bulb Temp 68 / Rh, Percent 74

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/18/06	10:25	11:55

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature: Jason Reville	Date 8/18/06
Organization	CRA
Certified By: ETA	Date 4/10/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: JOHN ZINC + TANKS	Unit #: T006, T009, T031, T026	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

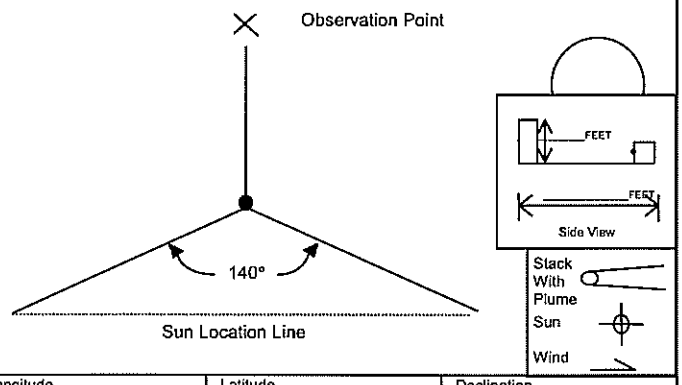
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/18/06	10:25	11:25

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	5	5	
38	0	5	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	5	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/18/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	Owens Corning
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	Medina
State	OH
Zip	44256

Process: John Zinc / Tanks	Unit #: T008, T024, T0231, T026	Operating Mode: Normal
Control Equipment		Operating Mode

Describe Emission Point: Tall Dark Grey Stack with no spiral vanes

Height of Emiss. Pt. Start 250 End same	Height of Emiss. Pt. Rel. to Observer Start 250 End same
Distance to Emiss. Pt. Start 1500 End same	Direction to Emiss. Pt. (Degrees) Start 339 End same
Vertical Angle to Obs. Pt. Start 7 End same	Direction to Obs. Pt. (Degrees) Start 339 End same
Distance and Direction to Observation Point from Emission Point Start End	

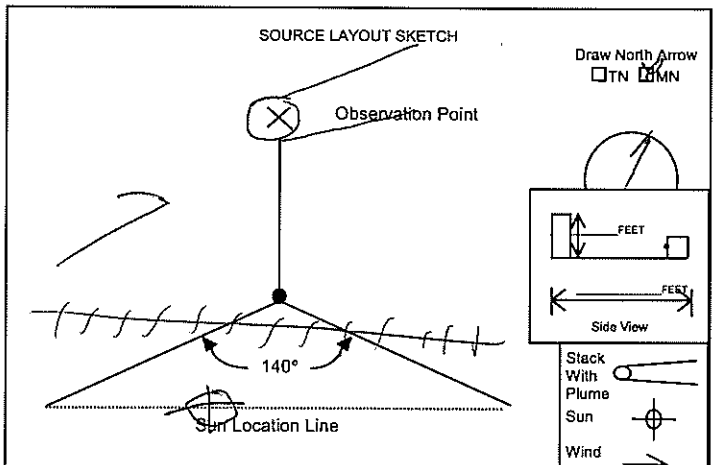
Describe Emissions: Start clear End

Emission Color Start clear End	Water Droplet Plume Attached ~ Detached ~ None (circled)

Describe Plume Background: Start Sky End

Background Color Start Grey End	Sky Conditions Start overcast End
Wind Speed Start 0-5 End	Wind Direction Start SW End
Ambient Temp Start 80 End 83	Wet Bulb Temp 75° / Rh. Percent 80%

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: R-2

Continued on VEO Form Number

Observation Date: 8-19-06 | Start Time: 12:10 | End Time: 12:40

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): Alexander G Krause	
Observer's Signature: [signature]	Date: 8/19/06
Organization: CRA, Inc.	
Certified By: E.T.A	Date: 4/20/06

Form Number | Page | Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: Owens Corning
Facility Name: TRUMBULL
Street Address: 870 W. Smith
City: Medina | State: OH | Zip: 44256

Process: John Zinc/Tanks | Unit #: T008, T009, T071, T076 | Operating Mode: Normal
Control Equipment: | Operating Mode:

Describe Emission Point: Tall Dark Grey Stack with no spiral vanes

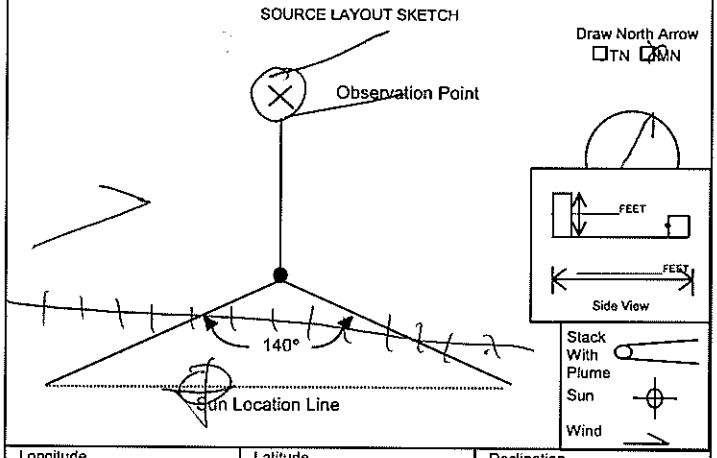
Height of Emiss. Pt. Start 250 End same
Height of Emiss. Pt. Rel. to Observer Start 250 End same
Distance to Emiss. Pt. Start 1500 End same
Direction to Emiss. Pt. (Degrees) Start 339 End same

Vertical Angle to Obs. Pt. Start 7 End same
Direction to Obs. Pt. (Degrees) Start 339 NW End same
Distance and Direction to Observation Point from Emission Point Start 1500' 159° SE End same

Describe Emissions Start clear End same
Emission Color Start clear End same
Water Droplet Plume Attached ~ Detached ~ (None ~)

Describe Plume Background Start sky End same
Background Color Start Grey End same
Sky Conditions Start overcast End same
Wind Speed Start 0-5 End same
Wind Direction Start SW End
Ambient Temp Start 84 End 84
Wet Bulb Temp 75°
Rh, Percent 68%

SOURCE LAYOUT SKETCH



Longitude | Latitude | Declination

Additional Information: R-2

Continued on VEO Form Number

Observation Date: 8-19-06 | Start Time: 12:40 | End Time: 13:10

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Alexander G. Krause
Observer's Signature: | Date: 8/19/06
Organization: CRA, Inc
Certified By: E.T.A. | Date: 4/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: BLOWING STILL	Unit #: JOHN ZINC	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: TALL DARK GREY STACK WITHOUT VANES

Height of Emiss. Pt. Start 250 End SAME	Height of Emiss. Pt. Rel. to Observer Start 250 End SAME
Distance to Emiss. Pt. Start 1500 End SAME	Direction to Emiss. Pt. (Degrees) Start 10° End SAME
Vertical Angle to Obs. Pt. Start 6° End SAME	Direction to Obs. Pt. (Degrees) Start 10° End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

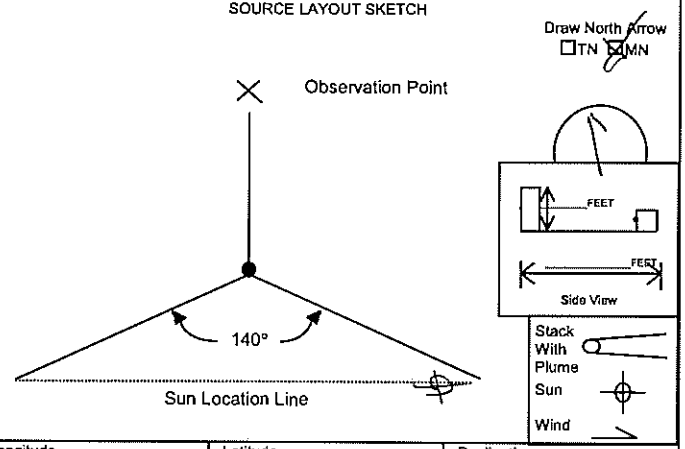
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End GREY	Water Droplet Plume: Attached ~ Detached ~ (None ~)

Describe Plume Background: Start SKY End SAME

Background Color Start BLUE End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 1-3 End SAME	Wind Direction Start S End SAME
Ambient Temp Start 72 End 72	Wet Bulb Temp 65 / Rh, Percent 68

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date 8.21.06	Start Time 9:50	End Time 10:20

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	5	
5	5	0	0	0	
6	0	0	50	0	
7	0	0	0	0	
8	0	0	0	0	
9	5	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville / Date 8.21.06
Organization	CRA
Certified By: ETA	Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)			
Method 9	203A	203B	Other: _____

Company Name: OWENS CORNING		
Facility Name: TRUMBULL		
Street Address: 870 W. SMITH		
City: MEDINA	State: OH	Zip: 44256

Process: BLOWING STILL	Unit #: JOHN ZINC	Operating Mode
Control Equipment		Operating Mode

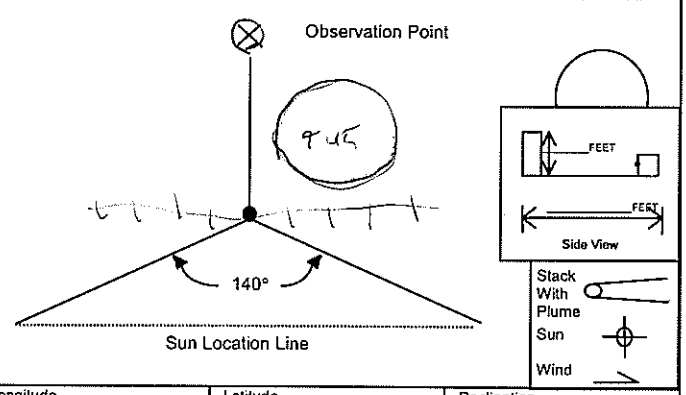
Describe Emission Point	
Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End	
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End		
Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-21-06	10:20	10:51

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8/21/06
Organization: CRA	
Certified By	Date: 4/20/06

Form Number						Page	Of

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	John zink	Date:	8/18/2006
Plant:	Medina OH	Location:	Inlet	Run #:	1
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	75	(°F)	Area:	2.76	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.99	(in. Hg.)	Diameter:	22.50	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.10	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	4.00	(%)	Points / Port	8	
		O_2:	11.00	(%)	Reads / Point	1	

Run 1A		Average	Run 1B
Vs - ft/sec.	47.53	Vs - ft/sec.	Vs - ft/sec.
Qa - ACFM	7871.0	Qa - ACFM	Qa - ACFM
Qs - WSCFM	5874.9	Qs - WSCFM	Qs - WSCFM
Qs - DSCFM	5287.4	Qs - DSCFM	Qs - DSCFM

Time	Title
	Run 1A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72	250	0.52	0.72	
2	2.36	250	0.50	0.71	
3	4.37	250	0.45	0.67	
4	7.27	250	0.56	0.75	
5	15.23	250	0.58	0.76	
6	18.14	250	0.58	0.76	
7	20.14	250	0.52	0.72	
8	21.78	250	0.52	0.72	
1	0.72	250	0.53	0.73	
2	2.36	250	0.52	0.72	
3	4.37	250	0.50	0.71	
4	7.27	250	0.50	0.71	
5	15.23	250	0.50	0.71	
6	18.14	250	0.50	0.71	
7	20.14	250	0.53	0.73	
8	21.78	250	0.52	0.72	
Average		250	0.52	0.72	#DIV/0!

Time	Title
	Run 1B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
Average		#DIV/0!	#DIV/0!	0	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	John zink	Date:	8/19/2006
Plant:	Medina OH	Location:	Inlet	Run #:	2
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	68	(°F)	Area:	2.76	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.99	(in. Hg.)	Diameter:	22.50	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.10	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	5.00	(%)	Points / Port	8	
		O_2:	10.00	(%)	Reads / Point	1	

Run 2A		Average	Run 2B
Vs - ft/sec.	47.51	Vs - ft/sec.	Vs - ft/sec.
Qa - ACFM	7867.7	Qa - ACFM	Qa - ACFM
Qs - WSCFM	5855.9	Qs - WSCFM	Qs - WSCFM
Qs - DSCFM	5270.3	Qs - DSCFM	Qs - DSCFM

Time	Title Run 2A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72	252	0.53	0.73	
2	2.36	252	0.49	0.70	
3	4.37	252	0.46	0.68	
4	7.27	252	0.57	0.75	
5	15.23	252	0.57	0.75	
6	18.14	253	0.59	0.77	
7	20.14	253	0.51	0.71	
8	21.78	253	0.52	0.72	
1	0.72	252	0.54	0.73	
2	2.36	251	0.53	0.73	
3	4.37	252	0.51	0.71	
4	7.27	252	0.49	0.70	
5	15.23	252	0.50	0.71	
6	18.14	252	0.51	0.71	
7	20.14	252	0.54	0.73	
8	21.78	251	0.53	0.73	
Average		252	0.52	0.72	#DIV/0!

Time	Title Run 2B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	John zink	Date:	8/21/2006
Plant:	Medina OH	Location:	Inlet	Run #:	3
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	70	(°F)	Area:	2.76	(ft^2)
T-couple	4T5	$Pressure_{BARAMETRIC}$:	29.90	(in. Hg.)	Diameter:	22.50	(in.)
Pitot Con. #:	BE4182E						
Pitot ID. #	4P5	$Pressure_{STATIC}$:	0.60	(in. H20.)			
C_P	0.84	**RUN VALUES**			**TEST INFORMATION**		
Manometer:	BE04789	Bws:	0.12	(fraction)	Number of Ports:	2	
Meter Box:		CO_2:	5.00	(%)	Points / Port	8	
		O_2:	10.00	(%)	Reads / Point	1	

Run 3A		Average		Run 3B
Vs - ft/sec.	47.83	Vs - ft/sec.	47.83	Vs - ft/sec.
Qa - ACFM	7920.6	Qa - ACFM	7920.60	Qa - ACFM
Qs - WSCFM	5861.2	Qs - WSCFM	5861.20	Qs - WSCFM
Qs - DSCFM	5157.8	Qs - DSCFM	5157.80	Qs - DSCFM

Time	Title Run 3A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72	252	0.54	0.73	
2	2.36	252	0.48	0.69	
3	4.37	253	0.47	0.69	
4	7.27	253	0.56	0.75	
5	15.23	254	0.58	0.76	
6	18.14	254	0.60	0.77	
7	20.14	254	0.50	0.71	
8	21.78	254	0.50	0.71	
1	0.72	254	0.55	0.74	
2	2.36	254	0.51	0.71	
3	4.37	254	0.52	0.72	
4	7.27	254	0.48	0.69	
5	15.23	255	0.51	0.71	
6	18.14	255	0.51	0.71	
7	20.14	255	0.52	0.72	
8	21.78	255	0.55	0.74	
Average		254	0.52	0.72	#DIV/0!

Time	Title Run 3B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
1	0.72			0.00	
2	2.36			0.00	
3	4.37			0.00	
4	7.27			0.00	
5	15.23			0.00	
6	18.14			0.00	
7	20.14			0.00	
8	21.78			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
John Zink INCINERATOR RUN 1
18-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.1	0.11%					
27	28.1	1.20%	0.6	6834	0.033	0.010	0.023
55	55.5	0.55%					
91.67	92	0.36%					
Stack Concentration as Propane			0.71				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	502	5875	74.4	7.35	67.03
868	868	0.00%					
Stack Concentration as Propane			1848				
Efficiency	%	99.97					

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
John Zink INCINERATOR RUN 2
19-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.2	0.22%					
27	28.3	1.42%	0.95	6454	0.018	0.015	0.002
55	55.1	0.11%					
91.67	91.8	0.14%					
Stack Concentration as Propane			0.4				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	485	5856	69.6	7.08	62.49
868	868	0.00%					
Stack Concentration as Propane			1734				

Efficiency	%	100.00

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

OWENS CORNING
METHANE BAG ANALYSIS and Emissions Calculations
John Zink INCINERATOR RUN 3
21-Aug-06

Outlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane[1]	Emissions as Methane[2]	Non Methane Emissions
0	0.1	0.11%					
27	27.8	0.87%	0.65	6792	0.031	0.011	0.020
55	54.8	-0.22%					
91.67	91.7	0.03%					
Stack Concentration as Propane			0.67				

Inlet

Calibration Gas Target	Instrument Response	Calibration Error < 2% of cal gas	Bag Result PPM	Flow (wscfm)	Total Emissions as Propane	Emissions as Methane	Non Methane Emissions
0	0.5	0.06%					
260.5	261	0.06%					
521	523	0.23%	478	5861	75.9	6.98	68.95
868	868	0.00%					
Stack Concentration as Propane			1891				
Efficiency	%	99.97					

[1] Calculation ppmvw*44*0.0000001557*wscfm

[2] Calculation ppmvw*16*0.0000001557*wscfm

Plant:	MEDINA
Location:	John Zinc
Date:	8/18/2006
Test no.:	1
Operator:	SC
Monitor:	

		Cal Gas Value
Inlet Span value,	5000	4426
Outlet Span ValueC3H8 :	100	90.2
Outlet Span ValueCH4 :		
Methane:		
Propane:		
Methane Response Factor:		

	Run 1	Run 2	Run 3
Outlet WSCFM:			
Outlet THC ppm as C3:			
Outlet Methane as C1:			
Outlet Methane as C3:			
Outlet NMHC ppm as C3:			
Outlet % Moisture:			
Outlet Lbs/Hr as C3:			
Inlet WSCFM:			
Inlet THC ppm as C3:			
Inlet % Moisture:			
Inlet Lbs/Hr:			
%DE:			

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		3	5	9			0.04	0.12	
30	1327.8		1328.5				0.05			
60	2655.6		2658.5	2660	2659		0.11	0.03	0.01	
100	4426		4425							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.2	0.6	1			0.40	0.80	
30	27.06		27.5				1.63			
60	54.12		55	55.5	55.1		1.63	0.50	0.10	
100	90,2		90.3							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0									
30	0						#DIV/0!			
60	0						#DIV/0!			
100	0									

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

Plant:	MEDINA
Location:	John Zinc
Date:	8/19/2006
Test no.:	2
Operator:	SC
Monitor:	

		Cal Gas Value
Inlet Span value,	5000	4426
Outlet Span ValueC3H8 :	100	90.2
Outlet Span ValueCH4 :		
Methane:		
Propane:		
Methane Response Factor:		

	Run 1	Run 2	Run 3
Outlet WSCFM:			
Outlet THC ppm as C3:			
Outlet Methane as C1:			
Outlet Methane as C3:			
Outlet NMHC ppm as C3:			
Outlet % Moisture:			
Outlet Lbs/Hr as C3:			
Inlet WSCFM:			
Inlet THC ppm as C3:			
Inlet % Moisture:			
Inlet Lbs/Hr:			
%DE:			

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		3	2	2			-0.02	-0.02	
30	1327.8		1329				0.09			
60	2655.6		2658	2660	2661		0.09	0.04	0.06	
100	4426		4425							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.2	0.6	0.5			0.40	0.30	
30	27.06		27.7				2.37			
60	54.12		54.6	55	55.5		0.89	0.40	0.90	
100	90.2		90							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0									
30	0						#DIV/0!			
60	0						#DIV/0!			
100	0									

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

Plant:	MEDINA
Location:	John Zinc
Date:	8/21/2006
Test no.:	3
Operator:	SC
Monitor:	

		Cal Gas Value
Inlet Span value,	5000	4426
Outlet Span ValueC3H8 :	100	90.2
Outlet Span ValueCH4 :		
Methane:		
Propane:		
Methane Response Factor:		

	Run 1	Run 2	Run 3
Outlet WSCFM:			
Outlet THC ppm as C3:			
Outlet Methane as C1:			
Outlet Methane as C3:			
Outlet NMHC ppm as C3:			
Outlet % Moisture:			
Outlet Lbs/Hr as C3:			
Inlet WSCFM:			
Inlet THC ppm as C3:			
Inlet % Moisture:			
Inlet Lbs/Hr:			
%DE:			

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		2	1	1			-0.02	-0.02	
30	1327.8		1329				0.09			
60	2655.6		2657	2659	2661		0.05	0.04	0.08	
100	4426		4425							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.2	0.5	0.6			0.30	0.40	
30	27.06		27.7				2.37			
60	54.12		54.8	55	55		1.26	0.20	0.20	
100	90.2		909							

Gas Divider Settings	Outlet Calibration gas conc., ppmCH4	Calibration r\					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0									
30	0						#DIV/0!			
60	0						#DIV/0!			
100	0									

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/18/2006
Project #:	45396	Operator:	SC	Source:	JZ Incinerator	Time:	7:15 AM

Method / Gas	3A / O2	3A / CO2				
Analyzer Info						
Make	Horiba	Horiba				
ID						
Span	25	20				
Source	PCC	PCC				

Calibration Gas Info		
Gas Divider used?	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2
Concentration	21.05	17.06
Bottlle ID		

Divider Info	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%
Low		—		—
Mid	60	50.5%	60	51.2%
High	100	84.2%	100	85.3%

Analyzer Calibration	Response	Target	Response	Target
Zero	0.02	0	0.01	0
Low		—		—
Mid	12.4	12.63	10.3	10.236
High	20.9	21.05	17.06	17.06

Probe Calibration	Response	Target	Response	Target
Zero	0.05	0.02	0.03	0.01
Low		—		
Mid	12.4	12.4	10.3	10.3
High				

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.1%	0.1%	0.1%	0.1%
Low	—	—	—	—
Mid	-0.9%	0.0%	0.3%	0.0%
High	-0.6%	0.0%	0.0%	0.0%

E3 Division
CONESTOGA-ROVERS & ASSOCIATES

DILUTION CHECK

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	08/13/06
Operator:	SC	Method/Gas:	3A / O2	Time:	4:00 PM

Span Value 25 Gas Concentration 21.05 Analyzer ID 0

Cal Gas	Divider Setting (%)	% Span	Analyzer Response	Analyzer Target	Calibration Error
Zero		0.00%	0	0	0.00%
Mid*		48.20%	12	12.05	-0.20%
High**		84.20%	21	21.05	-0.20%

Note:
*Mid Gas must be 40% to 60% of span
**High Gas must be 80% to 100% of span

Gas Concentration 21.05 Gas Composition O2/CO2/N2

Dilution (%)	Target	Trial #1	Trial #2	Trial #3	Avg. Resp.	% Accuracy*
0	0.00					
10	2.11					
20	4.21					
30	6.32	6.3	6.3	6.2	6.27	-0.77%
40	8.42					
50	10.53	10.5	10.6	10.5	10.53	0.08%
60	12.63	12.6	12.6	12.6	12.60	-0.24%
70	14.74					
80	16.84					
90	18.95					

$$\text{Accuracy} = \frac{\text{Average Response - Target}}{\text{Target}} \times 100$$

*Note: Accuracy must be within ± 2% at all dilution levels

System Check

Target	Resp. 1	Resp. 2	Resp. 3	Avg. Resp.	% Accuracy*
12.05	12.1	12.1	12.1	12.10	0.41%

*Note: Accuracy must be within ± 2% at all dilution levels

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet	$Temp_{STD}$:	68
Project #:	45396	Source:	JZ Incinerator	Date:	8/18/2006	Molar Vol.:	24.05

Run Information		1	Avg.
Stack Parameter			
Moisture	%		
Dry Std. Flow Rate	DSCFM		
O2 (drift corrected)	%	11.0	11.0
CO2 (drift corrected)	%	4.2	4.2

Client:	Owens Corning	Plant:	Medina OH	Location:
Project #:	45396	Source:	JZ Incinerator	Date:

	Method / Gas	3A / O2	3A / CO2
	Source	PCC	PCC
Calibration Drift Check			
	Time	4:20 PM	4:20 PM
	Span	25	20
	Drift limit	< 3.0%	< 3.0%
Zero			
	Initial	0.05	0.03
	Final	0.1	0.05
	Average (C_o)	0.075	0.04
	Certified Value	0	0
	% Drift	0.2%	0.1%
	% Sys. Bias	0.3%	0.2%
Upscale (Cma)			
	Upscale Gas:	Mid	Mid
	Initial	12.4	10.3
	Final	12.5	10.25
	Average (C_m)	12.45	10.275
	Certified Value	12.63	10.236
	% Drift	0.4%	-0.3%
	% Sys. Bias	0.4%	-0.3%
Run Data Calculations			
	Number of Sample Points:	705	705
	Average Concentration (C):	10.83	4.27
	Drift Corrected Average (C_{gas})	10.97	4.23
	Maximum Concentration:	16.00	4.32
	Minumum Concentration:	9.27	2.91

Outlet
8/18/2006

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	8/18/2006

	Method / Gas	3A / O2	3A / CO2
	Source	PCC	PCC
Calibration Drift Check			
	Time	4:20 PM	4:20 PM
	Span	25	20
	Drift limit	< 3.0%	< 3.0%
Zero			
	Initial	0.05	0.03
	Final	0.1	0.05
	Average (C_o)	0.075	0.04
	Certified Value	0	0
	% Drift	0.2%	0.1%
	% Sys. Bias	0.3%	0.2%
Upscale (Cma)			
	Upscale Gas:	Mid	Mid
	Initial	12.4	10.3
	Final	12.5	10.25
	Average (C_m)	12.45	10.275
	Certified Value	12.63	10.236
	% Drift	0.4%	-0.3%
	% Sys. Bias	0.4%	-0.3%
Run Data Calculations			
	Number of Sample Points:	705	705
	Average Concentration (C):	10.83	4.27
	Drift Corrected Average (C_{gas})	10.97	4.23
	Maximum Concentration:	16.00	4.32
	Minumum Concentration:	9.27	2.91

DATE	TIME	%	%
	8/18/2006 8:35	14.2504	4.12648
	8/18/2006 8:35	14.2504	4.12648
	8/18/2006 8:35	14.2504	4.12648
	8/18/2006 8:35	14.2504	4.12648
	8/18/2006 8:36	14.2504	4.12648
	8/18/2006 8:36	14.3725	3.68209
	8/18/2006 8:36	15.981	2.91295
	8/18/2006 8:36	16.0023	3.12294
	8/18/2006 8:37	15.6696	3.33781
	8/18/2006 8:37	15.459	3.43792
	8/18/2006 8:37	15.3583	3.43792
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	8/18/2006 8:38	15.2393	3.54291
	8/18/2006 8:38	15.1386	3.64302
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8/18/2006 16:15	12.0651	4.4732
8/18/2006 16:15	12.0651	4.4732
8/18/2006 16:16	12.0651	4.4732
8/18/2006 16:16	12.0651	4.4732
8/18/2006 16:16	12.1658	4.4732
8/18/2006 16:16	12.1658	4.4732

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/18/2006
Project #:	45396	Operator:	SC	Source:	JZ Incinerator	Time:	7:15 AM

Method / Gas	3A / O2	3A / CO2

Analyzer Info

Make	Horiba	Horiba				
ID						
Span	25	20				
Source	PCC	PCC				

Calibration Gas Info

Gas Divider used?	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2
Concentration	21.05	17.06
Bottlle ID		

Divider Info	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%
Low		—		—
Mid	60	50.5%	60	51.2%
High	100	84.2%	100	85.3%

Analyzer Calibration	Response	Target	Response	Target
Zero	0.1	0	0.1	0
Low		—		—
Mid	12.5	12.63	10.3	10.236
High	20.9	21.05	17	17.06

Probe Calibration	Response	Target	Response	Target
Zero	0.2	0.1	0.1	0.1
Low		—		
Mid	12.4	12.5	10.2	10.3
High				

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.4%	0.4%	0.5%	0.0%
Low	—	—	—	—
Mid	-0.5%	-0.4%	0.3%	-0.5%
High	-0.6%	0.0%	-0.3%	0.0%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

DILUTION CHECK

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	08/13/06
Operator:	SC	Method/Gas:	3A / O2	Time:	4:00 PM

Span Value 25 Gas Concentration 21.05 Analyzer ID 0

Cal Gas	Divider Setting (%)	% Span	Analyzer Response	Target	Calibration Error
Zero		0.00%	0	0	0.00%
Mid*		48.20%	12	12.05	-0.20%
High**		84.20%	21	21.05	-0.20%

Note:
*Mid Gas must be 40% to 60% of span
**High Gas must be 80% to 100% of span

Gas Concentration 21.05 Gas Composition O2/CO2/N2

Dilution (%)	Target	Trial #1	Trial #2	Trial #3	Avg. Resp.	% Accuracy*
0	0.00					
10	2.11					
20	4.21					
30	6.32	6.3	6.3	6.2	6.27	-0.77%
40	8.42					
50	10.53	10.5	10.6	10.5	10.53	0.08%
60	12.63	12.6	12.6	12.6	12.60	-0.24%
70	14.74					
80	16.84					
90	18.95					

$$\text{Accuracy} = \frac{\text{Average Response - Target}}{\text{Target}} \times 100$$

*Note: Accuracy must be within ± 2% at all dilution levels

System Check

Target	Resp. 1	Resp. 2	Resp. 3	Avg. Resp.	% Accuracy*
12.05	12.1	12.1	12.1	12.10	0.41%

*Note: Accuracy must be within ± 2% at all dilution levels

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet	$Temp_{STD}$:	68
Project #:	45396	Source:	JZ Incinerator	Date:	8/19/2006	Molar Vol.:	24.05

Run Information		2		
Stack Parameter				
Moisture	%			
Dry Std. Flow Rate				Avg.
	DSCFM			
O2 (drift corrected)				
	%	11.1		11.1
CO2 (drift corrected)				
	%	4.2		4.2

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	8/19/2006

	Method / Gas	3A / O2	3A / CO2
	Source	PCC	PCC
Calibration Drift Check			
	Time	3:10 PM	3:10 PM
	Span	25	20
	Drift limit	< 3.0%	< 3.0%
Zero			
	Initial	0.2	0.1
	Final	0.4	0.09
	Average (C_o)	0.3	0.095
	Certified Value	0	0
	% Drift	0.8%	-0.1%
	% Sys. Bias	1.2%	-0.1%
Upscale (Cma)			
	Upscale Gas:	Mid	Mid
	Initial	12.4	10.2
	Final	12.2	10.1
	Average (C_m)	12.3	10.15
	Certified Value	12.63	10.236
	% Drift	-0.8%	-0.5%
	% Sys. Bias	-1.2%	-1.0%
Run Data Calculations			
	Number of Sample Points:	705	705
	Average Concentration (C):	10.87	4.26
	Drift Corrected Average (C_{gas})	11.12	4.24
	Maximum Concentration:	14.92	4.51
	Minumum Concentration:	10.03	3.22

DATE	TIME	%	%
	8/19/2006 7:50	14.6075	3.97754
	8/19/2006 7:50	14.6075	3.97754
	8/19/2006 7:50	14.6075	3.8701
	8/19/2006 7:50	14.815	3.76267
	8/19/2006 7:51	14.815	3.76267
	8/19/2006 7:51	14.815	3.76267
	8/19/2006 7:51	14.815	3.76267
	8/19/2006 7:51	14.815	3.76267
	8/19/2006 7:52	14.815	3.76267
	8/19/2006 7:52	14.815	3.76267
	8/19/2006 7:52	14.815	3.76267
	8/19/2006 7:52	14.815	3.76267
	8/19/2006 7:53	14.9188	3.76267
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8/19/2006 14:54	11.2044	4.24857
8/19/2006 14:54	11.2044	4.24857
8/19/2006 14:54	11.2044	4.24857
8/19/2006 14:54	11.2044	4.24857
8/19/2006 14:55	11.2044	4.24857
8/19/2006 14:55	11.2044	4.24857
8/19/2006 14:55	11.2044	4.24857
8/19/2006 14:55	11.2044	4.24857
8/19/2006 14:56	11.2044	4.24857
8/19/2006 14:56	11.2044	4.24857
8/19/2006 14:56	11.2044	4.24857
8/19/2006 14:56	11.2044	4.24857
8/19/2006 14:57	11.2044	4.24857
8/19/2006 14:57	11.2044	4.24857
8/19/2006 14:57	11.3081	4.24857
8/19/2006 14:57	11.3081	4.24857
8/19/2006 14:58	11.3081	4.24857
8/19/2006 14:58	11.3081	4.24857
8/19/2006 14:58	11.2044	4.24857
8/19/2006 14:58	11.1037	4.24857
8/19/2006 14:59	11.0029	4.24857
8/19/2006 14:59	10.8839	4.35112

8/19/2006 14:59	10.7832	4.45123
8/19/2006 14:59	10.6794	4.55378
8/19/2006 15:00	10.5726	5.54267
8/19/2006 15:00	10.3498	5.9895
8/19/2006 15:00	10.8412	5.75998
8/19/2006 15:00	11.5035	5.42547
8/19/2006 15:01	12.062	5.11293
8/19/2006 15:01	12.294	5.11293
8/19/2006 15:01	12.3978	5.11293
8/19/2006 15:01	12.3978	5.01282

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date: 8/18/2006
Project #:	45396	Operator:	SC	Source:	JZ Incinerator	Time: 7:15 AM

Method / Gas	3A / O2	3A / CO2				
Analyzer Info						
Make	Horiba	Horiba				
ID						
Span	25	20				
Source	JZ Incinerator	JZ Incinerator				

Calibration Gas Info		
Gas Divider used?	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2
Concentration	21.05	17.06
Bottlle ID		

Divider Info	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%
Low		—		—
Mid	60	50.5%	60	51.2%
High	100	84.2%	100	85.3%

Analyzer Calibration	Response	Target	Response	Target
Zero	0.18	0	0.05	0
Low		—		—
Mid	12.5	12.63	10.38	10.236
High	20.9	21.05	17.15	17.06

Probe Calibration	Response	Target	Response	Target
Zero	0.2	0.18	0.1	0.05
Low		—		
Mid	12.5	12.5	10.3	10.38
High				

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.7%	0.1%	0.3%	0.3%
Low	—	—	—	—
Mid	-0.5%	0.0%	0.7%	-0.4%
High	-0.6%	0.0%	0.4%	0.0%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

DILUTION CHECK

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	08/13/06
Operator:	SC	Method/Gas:	3A / O2	Time:	4:00 PM

Span Value 25 Gas Concentration 21.05 Analyzer ID 0

Cal Gas	Divider Setting (%)	% Span	Analyzer Response	Analyzer Target	Calibration Error
Zero		0.00%	0	0	0.00%
Mid*		48.20%	12	12.05	-0.20%
High**		84.20%	21	21.05	-0.20%

Note:
*Mid Gas must be 40% to 60% of span
**High Gas must be 80% to 100% of span

Gas Concentration 21.05 Gas Composition O2/CO2/N2

Dilution (%)	Target	Trial #1	Trial #2	Trial #3	Avg. Resp.	% Accuracy*
0	0.00					
10	2.11					
20	4.21					
30	6.32	6.3	6.3	6.2	6.27	-0.77%
40	8.42					
50	10.53	10.5	10.6	10.5	10.53	0.08%
60	12.63	12.6	12.6	12.6	12.60	-0.24%
70	14.74					
80	16.84					
90	18.95					

$$\text{Accuracy} = \frac{\text{Average Response - Target}}{\text{Target}} \times 100$$

*Note: Accuracy must be within ± 2% at all dilution levels

System Check

Target	Resp. 1	Resp. 2	Resp. 3	Avg. Resp.	% Accuracy*
12.05	12.1	12.1	12.1	12.10	0.41%

*Note: Accuracy must be within ± 2% at all dilution levels

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet	$Temp_{STD}$:	68
Project #:	45396	Source:	JZ Incinerator	Date:	8/21/2006	Molar Vol.:	24.05

Run Information		3	Avg.
Stack Parameter			
Moisture	%		
Dry Std. Flow Rate	DSCFM		
O2 (drift corrected)	%	11.3	11.3
CO2 (drift corrected)	%	4.2	4.2

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	JZ Incinerator	Date:	8/21/2006

	Method / Gas	3A / O2	3A / CO2
	Source	JZ Incinerator	JZ Incinerator
Calibration Drift Check			
	Time		
	Span	25	20
	Drift limit	< 3.0%	< 3.0%
Zero			
	Initial	0.2	0.1
	Final	0.3	0.05
	Average (C_o)	0.25	0.075
	Certified Value	0	0
	% Drift	0.4%	-0.3%
	% Sys. Bias	0.5%	0.0%
Upscale (Cma)			
	Upscale Gas:	Mid	Mid
	Initial	12.5	10.3
	Final	12.4	10.24
	Average (C_m)	12.45	10.27
	Certified Value	12.63	10.236
	% Drift	-0.4%	-0.3%
	% Sys. Bias	-0.4%	-0.7%
Run Data Calculations			
	Number of Sample Points:	705	705
	Average Concentration (C):	11.15	4.22
	Drift Corrected Average (C_{gas})	11.28	4.16
	Maximum Concentration:	15.42	4.39
	Minumum Concentration:	10.66	3.09

DATE	TIME	%	%
	8/21/2006 7:48	15.4163	3.08631
	8/21/2006 7:48	14.9158	3.08631
	8/21/2006 7:48	14.7052	3.30607
	8/21/2006 7:48	14.5983	3.41594
	8/21/2006 7:49	14.4976	3.62349
	8/21/2006 7:49	14.4976	3.62349
	8/21/2006 7:49	14.4976	3.72604
	8/21/2006 7:49	14.4976	3.72604
	8/21/2006 7:50	14.5983	3.72604
	8/21/2006 7:50	14.8059	3.72604
	8/21/2006 7:50	14.9097	3.62593
	8/21/2006 7:50	15.0134	3.52338
	8/21/2006 7:51	15.224	3.52338
	8/21/2006 7:51	15.224	3.42327
	8/21/2006 7:51	15.3278	3.42327
	8/21/2006 7:51	15.3278	3.52582
	8/21/2006 7:52	15.2271	3.52582
	8/21/2006 7:52	15.1264	3.52582
	8/21/2006 7:52	15.1264	3.52582
	8/21/2006 7:52	15.1264	3.52582

8/21/2006 7:53	15.1264	3.52582
8/21/2006 7:53	15.1264	3.52582
8/21/2006 7:53	15.2301	3.52582
8/21/2006 7:53	15.2301	3.52582
8/21/2006 7:54	15.2301	3.52582
8/21/2006 7:54	15.2301	3.52582
8/21/2006 7:54	15.2301	3.52582
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8/21/2006 8:00	15.2301	3.52582
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8/21/2006 8:01	15.1264	3.52582
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8/21/2006 8:01	15.1264	3.52582
8/21/2006 8:02	15.1264	3.52582
8/21/2006 8:02	15.1264	3.52582
8/21/2006 8:02	15.0256	3.52582
8/21/2006 8:02	15.0256	3.52582
8/21/2006 8:03	15.0256	3.52582
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8/21/2006 8:04	15.0256	3.52582
8/21/2006 8:05	14.9249	3.52582
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8/21/2006 8:06	14.9249	3.52582
8/21/2006 8:06	14.9249	3.52582

8/21/2006 8:06	14.9249	3.52582
8/21/2006 8:06	14.9249	3.52582
8/21/2006 8:07	14.9249	3.52582
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8/21/2006 8:08	14.8211	3.52582
8/21/2006 8:09	14.8211	3.52582
8/21/2006 8:09	14.8211	3.52582
8/21/2006 8:09	14.8211	3.52582
8/21/2006 8:09	14.8211	3.52582
8/21/2006 8:10	14.7204	3.52582
8/21/2006 8:10	14.7204	3.52582
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8/21/2006 8:13	14.6197	3.52582
8/21/2006 8:13	14.6197	3.52582
8/21/2006 8:14	14.6197	3.52582
8/21/2006 8:14	14.519	3.52582
8/21/2006 8:14	14.4183	3.63326
8/21/2006 8:14	14.3175	3.73337
8/21/2006 8:15	14.2138	3.73337
8/21/2006 8:15	14.2138	3.73337
8/21/2006 8:15	14.2138	3.73337
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8/21/2006 8:17	14.2138	3.73337
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8/21/2006 8:18	14.0093	3.84324
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8/21/2006 8:18	14.0093	3.84324
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8/21/2006 8:19	14.11	3.84324
8/21/2006 8:19	14.11	3.74313
8/21/2006 8:19	14.11	3.74313
8/21/2006 8:19	14.11	3.74313

8/21/2006 8:20	14.11	3.74313
8/21/2006 8:20	14.11	3.74313
8/21/2006 8:20	14.11	3.74313
8/21/2006 8:20	14.0093	3.74313
8/21/2006 8:21	14.0093	3.74313
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8/21/2006 8:26	13.6064	3.74313
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8/21/2006 8:33	13.2981	3.64302
8/21/2006 8:34	13.1913	3.64302
8/21/2006 8:34	13.1913	3.64302
8/21/2006 8:34	13.1913	3.64302
8/21/2006 8:34	13.1913	3.64302
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8/21/2006 8:38	12.9868	3.64302
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8/21/2006 8:45	12.5809	3.74313
8/21/2006 8:45	12.5809	3.74313
8/21/2006 8:46	12.5809	3.74313
8/21/2006 8:46	12.5809	3.74313
8/21/2006 8:46	12.5809	3.74313
8/21/2006 8:46	12.5809	3.74313

8/21/2006 8:47	12.5809	3.74313
8/21/2006 8:47	12.4771	3.74313
8/21/2006 8:47	12.4771	3.74313
8/21/2006 8:47	12.4771	3.74313
8/21/2006 8:48	12.4771	3.74313
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8/21/2006 8:49	12.3764	3.74313
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8/21/2006 8:58	11.8667	3.84324
8/21/2006 8:59	11.8667	3.84324
8/21/2006 8:59	11.8667	3.84324
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8/21/2006 14:14	10.8656	4.38774
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8/21/2006 14:15	10.8656	4.38774
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8/21/2006 14:16	10.8656	4.38774
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8/21/2006 14:17	10.8656	4.38774
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8/21/2006 14:17	10.8656	4.38774
8/21/2006 14:18	10.9663	4.38774

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8/21/2006 14:22	10.9663	4.38774
8/21/2006 14:22	11.067	4.38774
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8/21/2006 14:28	11.1708	4.38774
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8/21/2006 14:31	11.1708	4.38774
8/21/2006 14:31	11.1708	4.38774

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8/21/2006 14:36	11.2776	4.38774
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8/21/2006 14:38	11.2776	4.38774
8/21/2006 14:38	11.2776	4.86143
8/21/2006 14:38	11.6042	4.86143
8/21/2006 14:38	12.0864	4.754
8/21/2006 14:39	12.5382	4.65389
8/21/2006 14:39	12.7579	4.55378
8/21/2006 14:39	12.8617	4.45367
8/21/2006 14:39	12.9624	4.45367
8/21/2006 14:40	13.0631	4.45367
8/21/2006 14:40	13.0631	4.45367
8/21/2006 14:40	13.0631	4.45367
8/21/2006 14:40	13.1638	4.45367
8/21/2006 14:41	13.1638	4.45367
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8/21/2006 14:41	13.1638	4.35356
8/21/2006 14:42	13.1638	4.35356
8/21/2006 14:42	13.1638	4.35356
8/21/2006 14:42	13.1638	4.35356
8/21/2006 14:42	13.2646	4.35356
8/21/2006 14:43	13.2646	4.35356
8/21/2006 14:43	13.2646	4.35356
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8/21/2006 14:44	13.2646	4.25345
8/21/2006 14:44	13.3683	4.25345
8/21/2006 14:44	13.3683	4.25345
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8/21/2006 14:46	13.3683	4.25345
8/21/2006 14:46	13.3683	4.25345
8/21/2006 14:47	13.3683	4.25345
8/21/2006 14:47	13.4691	4.25345
8/21/2006 14:47	13.4691	4.25345
8/21/2006 14:47	13.4691	4.25345
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8/21/2006 14:48	13.4691	4.15334
8/21/2006 14:49	13.5759	4.15334
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8/21/2006 14:50	13.5759	4.15334
8/21/2006 14:50	13.5759	4.15334
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8/21/2006 14:59	13.5759	4.15334
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8/21/2006 15:01	13.5759	4.15334
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8/21/2006 15:01	13.5759	4.15334
8/21/2006 15:02	13.4752	4.15334
8/21/2006 15:02	13.4752	4.15334
8/21/2006 15:02	13.3714	4.15334
8/21/2006 15:02	13.2707	4.25589
8/21/2006 15:03	13.2707	4.25589
8/21/2006 15:03	13.1669	4.25589
8/21/2006 15:03	13.1669	4.356
8/21/2006 15:03	13.1669	4.356
8/21/2006 15:04	13.0662	4.356
8/21/2006 15:04	13.0662	4.356
8/21/2006 15:04	13.0662	4.356
8/21/2006 15:04	13.0662	4.356
8/21/2006 15:05	13.0662	4.356
8/21/2006 15:05	13.0662	4.356
8/21/2006 15:05	13.0662	4.356
8/21/2006 15:05	13.0662	4.356
8/21/2006 15:06	13.0662	4.356
8/21/2006 15:06	13.0662	4.356

John Zinc Inlet Raw Data
Run 1

	O2	CO2	Outlet	Inlet
8/18/2006 8:35	14.2504	4.12648	0	117.202
8/18/2006 8:35	14.2504	4.12648	0	117.202
8/18/2006 8:35	14.2504	4.12648	0.122085	114.76
8/18/2006 8:35	14.2504	4.12648	0.488341	118.423
8/18/2006 8:36	14.2504	4.12648	6.71469	114.76
8/18/2006 8:36	14.3725	3.68209	1.46502	126.969
8/18/2006 8:36	15.981	2.91295	0.366256	461.482
8/18/2006 8:36	16.0023	3.12294	0.610426	439.507
8/18/2006 8:37	15.6696	3.33781	0.488341	408.985
8/18/2006 8:37	15.459	3.43792	0.610426	410.206
8/18/2006 8:37	15.3583	3.43792	0.24417	391.894
8/18/2006 8:37	15.3583	3.43792	0	368.697
8/18/2006 8:38	15.2393	3.54291	0.122085	346.722
8/18/2006 8:38	15.1386	3.64302	0.488341	330.851
8/18/2006 8:38	15.0378	3.64302	0.488341	319.863
8/18/2006 8:38	15.0378	3.64302	0.366256	311.317
8/18/2006 8:39	15.0378	3.64302	0.122085	311.317
8/18/2006 8:39	15.0378	3.64302	0.122085	314.98
8/18/2006 8:39	15.0378	3.64302	0.488341	334.513
8/18/2006 8:39	15.0378	3.64302	0.488341	339.397
8/18/2006 8:40	15.0378	3.64302	0.24417	355.268
8/18/2006 8:40	15.0378	3.64302	0.366256	388.231
8/18/2006 8:40	15.0378	3.64302	0.732511	430.961
8/18/2006 8:40	15.0378	3.64302	0.24417	481.016
8/18/2006 8:41	15.0378	3.64302	0.610426	524.966
8/18/2006 8:41	15.0378	3.64302	0.24417	590.892
8/18/2006 8:41	15.0378	3.64302	0.610426	650.714
8/18/2006 8:41	15.0378	3.64302	0.24417	704.432
8/18/2006 8:42	15.0378	3.64302	0.488341	767.916
8/18/2006 8:42	15.0378	3.64302	0.24417	809.425
8/18/2006 8:42	15.0378	3.64302	0.24417	858.259
8/18/2006 8:42	15.0378	3.64302	0.732511	904.651
8/18/2006 8:43	15.0378	3.64302	0.610426	943.719
8/18/2006 8:43	15.0378	3.64302	0.488341	984.007
8/18/2006 8:43	15.0378	3.64302	0.610426	1020.63
8/18/2006 8:43	15.0378	3.64302	0.732511	1052.37
8/18/2006 8:44	15.0378	3.64302	0.366256	1087.78
8/18/2006 8:44	15.0378	3.64302	0.122085	1106.09
8/18/2006 8:44	15.0378	3.64302	0.122085	1129.29
8/18/2006 8:44	15.0378	3.64302	0.366256	1147.6
8/18/2006 8:45	15.0378	3.64302	0.610426	1172.02

John Zinc Inlet Raw Data
Run 1

8/18/2006 8:45	15.0378	3.64302	0	1184.23
8/18/2006 8:45	15.0378	3.64302	0.122085	1195.21
8/18/2006 8:45	15.0378	3.64302	0.488341	1211.09
8/18/2006 8:46	15.0378	3.64302	0.488341	1209.86
8/18/2006 8:46	14.9371	3.64302	0.366256	1219.63
8/18/2006 8:46	14.9371	3.64302	0.610426	1225.74
8/18/2006 8:46	14.9371	3.64302	0.610426	1229.4
8/18/2006 8:47	14.9371	3.64302	0.488341	1234.28
8/18/2006 8:47	14.9371	3.64302	0.610426	1235.5
8/18/2006 8:47	14.9371	3.64302	0.366256	1256.26
8/18/2006 8:47	14.9371	3.64302	0	1273.35
8/18/2006 8:48	14.9371	3.64302	0.122085	1279.45
8/18/2006 8:48	14.9371	3.64302	0.488341	1278.23
8/18/2006 8:48	14.8334	3.64302	0.24417	1279.45
8/18/2006 8:48	14.8334	3.64302	0.122085	1288
8/18/2006 8:49	14.8334	3.64302	0.366256	1294.1
8/18/2006 8:49	14.8334	3.64302	0.610426	1284.34
8/18/2006 8:49	14.8334	3.64302	0.122085	1291.66
8/18/2006 8:49	14.8334	3.64302	0.610426	1300.21
8/18/2006 8:50	14.8334	3.64302	0.122085	1296.54
8/18/2006 8:50	14.8334	3.64302	0	1284.34
8/18/2006 8:50	14.8334	3.64302	0.610426	1296.54
8/18/2006 8:50	14.8334	3.64302	0	1294.1
8/18/2006 8:51	14.8334	3.64302	0.24417	1305.09
8/18/2006 8:51	14.8334	3.64302	0.610426	1311.2
8/18/2006 8:51	14.7326	3.64302	0.366256	1317.3
8/18/2006 8:51	14.7326	3.64302	0.24417	1319.74
8/18/2006 8:52	14.7326	3.64302	0.366256	1327.07
8/18/2006 8:52	14.7326	3.64302	0.610426	1333.17
8/18/2006 8:52	14.7326	3.64302	0.122085	1339.27
8/18/2006 8:52	14.7326	3.64302	0.122085	1342.94
8/18/2006 8:53	14.7326	3.64302	0.122085	1345.38
8/18/2006 8:53	14.7326	3.64302	0.366256	1349.04
8/18/2006 8:53	14.7326	3.64302	0.24417	1356.37
8/18/2006 8:53	14.6258	3.64302	0.366256	1361.25
8/18/2006 8:54	14.6258	3.64302	0.366256	1362.47
8/18/2006 8:54	14.6258	3.64302	0	1361.25
8/18/2006 8:54	14.6258	3.64302	0.366256	1371.02
8/18/2006 8:54	14.6258	3.64302	0.488341	1379.56
8/18/2006 8:55	14.6258	3.64302	0	1371.02
8/18/2006 8:55	14.6258	3.74313	0.366256	1382
8/18/2006 8:55	14.6258	3.74313	0.488341	1384.45
8/18/2006 8:55	14.6258	3.74313	0	1384.45
8/18/2006 8:56	14.6258	3.74313	0	1395.43

John Zinc Inlet Raw Data
Run 1

8/18/2006 8:56	14.6258	3.74313	0	1405.2
8/18/2006 8:56	14.5251	3.74313	0	1399.1
8/18/2006 8:56	14.5251	3.74313	0	1402.76
8/18/2006 8:57	14.5251	3.74313	0.122085	1405.2
8/18/2006 8:57	14.5251	3.74313	0.488341	1410.08
8/18/2006 8:57	14.5251	3.74313	0.488341	1428.4
8/18/2006 8:57	14.5251	3.74313	0.24417	1435.72
8/18/2006 8:58	14.5251	3.74313	0.24417	1429.62
8/18/2006 8:58	14.5251	3.74313	0.366256	1438.16
8/18/2006 8:58	14.4213	3.74313	0.488341	1447.93
8/18/2006 8:58	14.4213	3.74313	0	1455.26
8/18/2006 8:59	14.4213	3.74313	0.122085	1460.14
8/18/2006 8:59	14.4213	3.74313	0.122085	1469.91
8/18/2006 8:59	14.4213	3.74313	0	1474.79
8/18/2006 8:59	14.4213	3.74313	0.122085	1477.23
8/18/2006 9:00	14.4213	3.74313	0.122085	1478.45
8/18/2006 9:00	14.4213	3.74313	0.488341	1480.89
8/18/2006 9:00	14.4213	3.74313	0	1483.34
8/18/2006 9:00	14.4213	3.74313	0.24417	1487
8/18/2006 9:01	14.3206	3.74313	0.488341	1493.1
8/18/2006 9:01	14.3206	3.74313	0	1493.1
8/18/2006 9:01	14.3206	3.74313	0.122085	1500.43
8/18/2006 9:01	14.3206	3.74313	0.24417	1504.09
8/18/2006 9:02	14.3206	3.74313	0.366256	1505.31
8/18/2006 9:02	14.3206	3.74313	0	1504.09
8/18/2006 9:02	14.3206	3.74313	0.24417	1508.97
8/18/2006 9:02	14.3206	3.74313	0.488341	1521.18
8/18/2006 9:03	14.3206	3.74313	0	1519.96
8/18/2006 9:03	14.2168	3.74313	0	1513.86
8/18/2006 9:03	14.2168	3.74313	0.366256	1513.86
8/18/2006 9:03	14.2168	3.74313	0	1523.62
8/18/2006 9:04	14.2168	3.74313	0.24417	1527.29
8/18/2006 9:04	14.2168	3.74313	0.122085	1538.27
8/18/2006 9:04	14.2168	3.74313	0.122085	1534.61
8/18/2006 9:04	14.1161	3.74313	0.24417	1543.16
8/18/2006 9:05	14.1161	3.74313	0.24417	1535.83
8/18/2006 9:05	14.1161	3.74313	-0.12209	1533.39
8/18/2006 9:05	14.1161	3.74313	0.24417	1534.61
8/18/2006 9:05	14.1161	3.74313	0.24417	1545.6
8/18/2006 9:06	14.1161	3.74313	0.122085	1554.14
8/18/2006 9:06	14.1161	3.74313	0.366256	1535.83
8/18/2006 9:06	14.1161	3.74313	-0.12209	1540.72
8/18/2006 9:06	14.1161	3.74313	0.488341	1541.94
8/18/2006 9:07	14.0154	3.74313	0.122085	1560.25

John Zinc Inlet Raw Data
Run 1

8/18/2006 9:07	14.0154	3.74313	-0.12209	1561.47
8/18/2006 9:07	14.0154	3.74313	0.366256	1574.9
8/18/2006 9:07	14.0154	3.74313	0.366256	1571.24
8/18/2006 9:08	14.0154	3.74313	0.24417	1578.56
8/18/2006 9:08	14.0154	3.74313	0	1584.67
8/18/2006 9:08	14.0154	3.84324	0.122085	1589.55
8/18/2006 9:08	13.9147	3.84324	0.488341	1595.65
8/18/2006 9:09	13.9147	3.84324	-0.12209	1591.99
8/18/2006 9:09	13.9147	3.84324	0.366256	1596.87
8/18/2006 9:09	13.9147	3.84324	0.24417	1591.99
8/18/2006 9:09	13.9147	3.84324	-0.12209	1604.2
8/18/2006 9:10	13.9147	3.84324	0.122085	1610.3
8/18/2006 9:10	13.9147	3.84324	0	1620.07
8/18/2006 9:10	13.9147	3.84324	0	1633.5
8/18/2006 9:10	13.9147	3.84324	0.366256	1631.06
8/18/2006 9:11	13.9147	3.84324	0.366256	1637.16
8/18/2006 9:11	13.8109	3.84324	0	1639.6
8/18/2006 9:11	13.8109	3.84324	-0.12209	1635.94
8/18/2006 9:11	13.8109	3.84324	0.366256	1643.27
8/18/2006 9:12	13.8109	3.84324	0.24417	1643.27
8/18/2006 9:12	13.8109	3.84324	-0.12209	1653.03
8/18/2006 9:12	13.8109	3.84324	0.122085	1666.46
8/18/2006 9:12	13.8109	3.84324	0.24417	1670.13
8/18/2006 9:13	13.7071	3.84324	-0.12209	1676.23
8/18/2006 9:13	13.7071	3.84324	-0.12209	1682.33
8/18/2006 9:13	13.7071	3.84324	0.366256	1688.44
8/18/2006 9:13	13.7071	3.84324	0.122085	1678.67
8/18/2006 9:14	13.7071	3.84324	0.122085	1689.66
8/18/2006 9:14	13.7071	3.84324	0	1684.78
8/18/2006 9:14	13.7071	3.84324	0	1693.32
8/18/2006 9:14	13.7071	3.84324	0	1705.53
8/18/2006 9:15	13.7071	3.84324	0.366256	1720.18
8/18/2006 9:15	13.6033	3.84324	-0.12209	1721.4
8/18/2006 9:15	13.6033	3.84324	0	1732.39
8/18/2006 9:15	13.6033	3.84324	0.366256	1732.39
8/18/2006 9:16	13.6033	3.84324	-0.12209	1732.39
8/18/2006 9:16	13.6033	3.84324	0.24417	1737.27
8/18/2006 9:16	13.6033	3.84324	0.24417	1736.05
8/18/2006 9:16	13.6033	3.84324	0.122085	1749.48
8/18/2006 9:17	13.6033	3.84324	0.122085	1758.03
8/18/2006 9:17	13.6033	3.84324	-0.12209	1751.92
8/18/2006 9:17	13.5026	3.84324	0.122085	1759.25
8/18/2006 9:17	13.5026	3.84324	0.24417	1780
8/18/2006 9:18	13.5026	3.84324	0.122085	1782.44

John Zinc Inlet Raw Data
Run 1

8/18/2006 9:18	13.5026	3.84324	0	1776.34
8/18/2006 9:18	13.5026	3.84324	0	1788.55
8/18/2006 9:18	13.5026	3.84324	0.122085	1793.43
8/18/2006 9:19	13.5026	3.84324	0.366256	1788.55
8/18/2006 9:19	13.5026	3.84324	0	1793.43
8/18/2006 9:19	13.5026	3.84324	-0.12209	1798.32
8/18/2006 9:19	13.4019	3.84324	-0.12209	1803.2
8/18/2006 9:20	13.4019	3.84324	0.24417	1815.41
8/18/2006 9:20	13.4019	3.84324	-0.12209	1815.41
8/18/2006 9:20	13.4019	3.84324	0.24417	1826.39
8/18/2006 9:20	13.4019	3.84324	0	1831.28
8/18/2006 9:21	13.4019	3.84324	0.24417	1837.38
8/18/2006 9:21	13.4019	3.84324	0	1841.05
8/18/2006 9:21	13.2981	3.84324	0	1845.93
8/18/2006 9:21	13.2981	3.84324	0.366256	1848.37
8/18/2006 9:22	13.2981	3.84324	0	1858.14
8/18/2006 9:22	13.2981	3.84324	0.366256	1864.24
8/18/2006 9:22	13.2981	3.84324	-0.12209	1866.68
8/18/2006 9:22	13.2981	3.84324	0.122085	1878.89
8/18/2006 9:23	13.2981	3.84324	0.24417	1883.77
8/18/2006 9:23	13.2981	3.84324	-0.12209	1893.54
8/18/2006 9:23	13.2981	3.84324	0.366256	1891.1
8/18/2006 9:23	13.1974	3.84324	-0.12209	1883.77
8/18/2006 9:24	13.1974	3.84324	0.24417	1908.19
8/18/2006 9:24	13.1974	3.84324	-0.12209	1911.85
8/18/2006 9:24	13.1974	3.84324	-0.12209	1903.31
8/18/2006 9:24	13.1974	3.84324	0.24417	1927.73
8/18/2006 9:25	13.1974	3.84324	0.366256	1949.7
8/18/2006 9:25	13.1974	3.84324	0	1941.15
8/18/2006 9:25	13.1974	3.84324	0	1952.14
8/18/2006 9:25	13.1974	3.84324	0.24417	1960.69
8/18/2006 9:26	13.0967	3.84324	0	1959.47
8/18/2006 9:26	13.0967	3.84324	-0.12209	1946.04
8/18/2006 9:26	13.0967	3.84324	0.122085	1969.23
8/18/2006 9:26	13.0967	3.84324	0.24417	1969.23
8/18/2006 9:27	13.0967	3.84324	0.122085	1966.79
8/18/2006 9:27	13.0967	3.84324	0	1981.44
8/18/2006 9:27	13.0967	3.84324	-0.12209	1991.21
8/18/2006 9:27	13.0967	3.84324	0.366256	1981.44
8/18/2006 9:28	13.0967	3.84324	-0.12209	1998.53
8/18/2006 9:28	13.0967	3.94335	0.122085	2014.41
8/18/2006 9:28	13.0967	3.94335	0.24417	2015.63
8/18/2006 9:28	12.996	3.94335	0	2008.3
8/18/2006 9:29	12.996	3.94335	0.366256	2026.61

John Zinc Inlet Raw Data
Run 1

8/18/2006 9:29	12.996	3.94335	-0.12209	2027.84
8/18/2006 9:29	12.996	3.94335	0.24417	2038.82
8/18/2006 9:29	12.996	3.94335	0.122085	2030.28
8/18/2006 9:30	12.996	3.94335	-0.12209	2035.16
8/18/2006 9:30	12.996	3.94335	0.24417	2062.02
8/18/2006 9:30	12.996	3.94335	0	2057.14
8/18/2006 9:30	12.996	3.94335	-0.12209	2043.71
8/18/2006 9:31	12.996	3.94335	0.24417	2062.02
8/18/2006 9:31	12.996	3.94335	-0.12209	2055.92
8/18/2006 9:31	12.996	3.94335	0	2068.12
8/18/2006 9:31	12.8891	3.94335	0.24417	2077.89
8/18/2006 9:32	12.8891	3.94335	0.122085	2085.22
8/18/2006 9:32	12.8891	3.94335	-0.12209	2094.98
8/18/2006 9:32	12.8891	3.94335	0.24417	2093.76
8/18/2006 9:32	12.8891	3.94335	0.122085	2077.89
8/18/2006 9:33	12.8891	3.94335	-0.24417	2085.22
8/18/2006 9:33	12.8891	3.94335	0	2091.32
8/18/2006 9:33	12.8891	3.94335	0.24417	2104.75
8/18/2006 9:33	12.8891	3.94335	0.366256	2114.52
8/18/2006 9:34	12.7854	3.94335	0.122085	2121.84
8/18/2006 9:34	12.7854	3.94335	0.366256	2123.06
8/18/2006 9:34	12.7854	3.94335	0.122085	2120.62
8/18/2006 9:34	12.7854	3.94335	0	2126.72
8/18/2006 9:35	12.7854	3.94335	0.366256	2146.26
8/18/2006 9:35	12.7854	3.94335	-0.12209	2142.6
8/18/2006 9:35	12.7854	3.94335	0.122085	2138.93
8/18/2006 9:35	12.7854	3.94335	0.122085	2142.6
8/18/2006 9:36	12.7854	3.94335	-0.12209	2151.14
8/18/2006 9:36	12.6816	3.94335	0	2159.69
8/18/2006 9:36	12.6816	3.94335	0.24417	2162.13
8/18/2006 9:36	12.6816	3.94335	0.24417	2180.44
8/18/2006 9:37	12.6816	3.94335	-0.12209	2192.65
8/18/2006 9:37	12.6816	3.94335	0	2193.87
8/18/2006 9:37	12.6816	3.94335	-0.12209	2207.3
8/18/2006 9:37	12.6816	3.94335	-0.12209	2221.95
8/18/2006 9:38	12.6816	3.94335	-0.12209	2229.28
8/18/2006 9:38	12.6816	3.94335	0	2237.82
8/18/2006 9:38	12.5809	3.94335	-0.12209	2252.47
8/18/2006 9:38	12.5809	3.94335	0.122085	2263.46
8/18/2006 9:39	12.5809	3.94335	0.366256	2289.1
8/18/2006 9:39	12.5809	3.94335	0.24417	2269.56
8/18/2006 9:39	12.5809	3.94335	0.24417	2226.83
8/18/2006 9:39	12.5809	3.94335	13.0631	2202.42
8/18/2006 9:40	12.5809	3.81883	55.3046	2120.62

John Zinc Inlet Raw Data
Run 1

8/18/2006 9:40	12.6969	2.9276	29.3005	2040.04
8/18/2006 9:40	13.3714	2.94225	5.37175	1695.76
8/18/2006 9:40	13.0295	3.27188	1.34294	1515.08
8/18/2006 9:41	12.4161	3.71139	0.610426	1456.48
8/18/2006 9:41	12.1078	3.82127	0.24417	1416.19
8/18/2006 9:41	12.001	3.92138	0.122085	1371.02
8/18/2006 9:41	11.9003	4.02149	-0.12209	1317.3
8/18/2006 9:42	12.0071	4.02149	0.122085	1258.7
8/18/2006 9:42	12.1109	4.02149	0.366256	1218.41
8/18/2006 9:42	12.3276	4.02149	-0.24417	1169.58
8/18/2006 9:42	12.4344	4.02149	0.122085	1128.07
8/18/2006 9:43	12.7487	4.02149	0.24417	1089
8/18/2006 9:43	12.8525	3.91649	1.22085	1053.6
8/18/2006 9:43	13.2829	3.70895	0.366256	993.774
8/18/2006 9:43	13.524	3.6064	0.122085	935.173
8/18/2006 9:44	13.6247	3.71627	0.122085	894.885
8/18/2006 9:44	13.405	3.92138	0.122085	879.014
8/18/2006 9:44	13.3012	3.92138	0.24417	866.805
8/18/2006 9:44	13.3012	3.92138	-0.24417	854.597
8/18/2006 9:45	13.3012	3.92138	0.122085	850.934
8/18/2006 9:45	13.405	3.92138	0.122085	852.155
8/18/2006 9:45	13.405	3.92138	0.24417	847.271
8/18/2006 9:45	13.405	3.92138	0	843.609
8/18/2006 9:46	13.405	3.92138	0.366256	848.492
8/18/2006 9:46	13.5148	3.92138	0.24417	852.155
8/18/2006 9:46	13.5148	3.92138	-0.12209	854.597
8/18/2006 9:46	13.5148	3.92138	-0.12209	863.142
8/18/2006 9:47	13.5148	3.92138	0	868.026
8/18/2006 9:47	13.5148	3.92138	0.122085	871.688
8/18/2006 9:47	13.5148	3.92138	0.488341	875.351
8/18/2006 9:47	13.5148	3.92138	0.366256	871.688
8/18/2006 9:48	13.5148	3.92138	-0.12209	876.572
8/18/2006 9:48	13.5148	3.92138	0.366256	883.897
8/18/2006 9:48	13.5148	3.92138	0	883.897
8/18/2006 9:48	13.5148	3.92138	0.122085	887.56
8/18/2006 9:49	13.5148	3.92138	-0.12209	882.676
8/18/2006 9:49	13.5148	3.92138	0.366256	886.339
8/18/2006 9:49	13.4141	3.92138	-0.12209	891.222
8/18/2006 9:49	13.4141	3.92138	0	896.105
8/18/2006 9:50	13.4141	3.92138	0.24417	900.989
8/18/2006 9:50	13.4141	3.92138	0.366256	899.768
8/18/2006 9:50	13.4141	3.92138	0	893.664
8/18/2006 9:50	13.4141	3.92138	-0.12209	894.885
8/18/2006 9:51	13.4141	3.92138	-0.12209	893.664

John Zinc Inlet Raw Data
Run 1

8/18/2006 9:51	13.4141	3.92138	-0.12209	893.664
8/18/2006 9:51	13.3134	3.92138	-0.12209	893.664
8/18/2006 9:51	13.3134	3.92138	-0.12209	892.443
8/18/2006 9:52	13.3134	3.92138	0	894.885
8/18/2006 9:52	13.3134	3.92138	0	893.664
8/18/2006 9:52	13.3134	3.92138	-0.12209	891.222
8/18/2006 9:52	13.3134	3.92138	0.122085	894.885
8/18/2006 9:53	13.3134	3.92138	0.24417	892.443
8/18/2006 9:53	13.3134	3.92138	0.366256	886.339
8/18/2006 9:53	13.3134	3.92138	0	893.664
8/18/2006 9:53	13.3134	3.92138	-0.12209	894.885
8/18/2006 9:54	13.3134	3.92138	0.24417	905.872
8/18/2006 9:54	13.3134	3.92138	0.488341	905.872
8/18/2006 9:54	13.4141	3.82127	0	899.768
8/18/2006 9:54	13.5148	3.82127	0.122085	896.105
8/18/2006 9:55	13.5148	3.82127	0.488341	892.443
8/18/2006 9:55	13.5148	3.82127	-0.12209	880.234
8/18/2006 9:55	13.4141	3.82127	0.366256	891.222
8/18/2006 9:55	13.3103	3.92138	0.122085	894.885
8/18/2006 9:56	13.2066	3.92138	-0.12209	905.872
8/18/2006 9:56	13.0936	4.02149	0.122085	911.977
8/18/2006 9:56	13.0936	4.02149	0.366256	920.523
8/18/2006 9:56	13.0936	4.02149	0.366256	921.743
8/18/2006 9:57	12.9899	4.02149	0.366256	924.185
8/18/2006 9:57	12.9899	4.02149	0	925.406
8/18/2006 9:57	12.9899	4.02149	-0.12209	924.185
8/18/2006 9:57	12.9899	4.02149	-0.12209	930.289
8/18/2006 9:58	12.9899	4.02149	-0.12209	931.51
8/18/2006 9:58	12.9899	4.02149	0	941.277
8/18/2006 9:58	12.9899	4.02149	0	940.056
8/18/2006 9:58	12.9899	4.02149	0.122085	942.498
8/18/2006 9:59	12.9899	4.02149	0.24417	940.056
8/18/2006 9:59	12.9899	4.02149	0.366256	937.614
8/18/2006 9:59	12.9899	4.02149	0.24417	943.719
8/18/2006 9:59	12.9899	4.02149	0.24417	943.719
8/18/2006 10:00	12.9899	4.02149	0.122085	933.952
8/18/2006 10:00	12.9899	4.02149	0.122085	938.835
8/18/2006 10:00	12.8891	4.02149	0.24417	946.16
8/18/2006 10:00	12.8891	4.02149	0.122085	943.719
8/18/2006 10:01	12.8891	4.02149	0.366256	947.381
8/18/2006 10:01	12.8891	4.02149	0.366256	944.94
8/18/2006 10:01	12.8891	4.02149	0.366256	942.498
8/18/2006 10:01	12.8891	4.02149	0.366256	936.394
8/18/2006 10:02	12.8891	4.02149	0.366256	941.277

John Zinc Inlet Raw Data
Run 1

8/18/2006 10:02	12.8891	4.02149	0.366256	944.94
8/18/2006 10:02	12.7884	4.02149	0.488341	943.719
8/18/2006 10:02	12.7884	4.02149	0.24417	946.16
8/18/2006 10:03	12.7884	4.02149	0.24417	942.498
8/18/2006 10:03	12.7884	4.02149	0.24417	940.056
8/18/2006 10:03	12.7884	4.02149	-0.12209	940.056
8/18/2006 10:03	12.7884	4.02149	0	937.614
8/18/2006 10:04	12.6847	4.02149	0	935.173
8/18/2006 10:04	12.6847	4.02149	0.122085	930.289
8/18/2006 10:04	12.6847	4.02149	0.366256	935.173
8/18/2006 10:04	12.6847	4.1216	0.366256	941.277
8/18/2006 10:05	12.6847	4.1216	0.122085	937.614
8/18/2006 10:05	12.6847	4.1216	-0.12209	940.056
8/18/2006 10:05	12.6847	4.1216	-0.12209	933.952
8/18/2006 10:05	12.4802	4.1216	0.122085	932.731
8/18/2006 10:06	12.4802	4.1216	0.366256	937.614
8/18/2006 10:06	12.4802	4.1216	0.122085	933.952
8/18/2006 10:06	12.4802	4.1216	-0.12209	925.406
8/18/2006 10:06	12.4802	4.1216	0.24417	936.394
8/18/2006 10:07	12.3794	4.1216	0.24417	924.185
8/18/2006 10:07	12.3794	4.1216	0.122085	930.289
8/18/2006 10:07	12.3794	4.1216	0.488341	926.627
8/18/2006 10:07	12.3794	4.1216	-0.12209	920.523
8/18/2006 10:08	12.3794	4.1216	0.24417	910.756
8/18/2006 10:08	12.3794	4.1216	0.24417	911.977
8/18/2006 10:08	12.2726	4.1216	0	888.78
8/18/2006 10:08	12.2726	4.1216	0.24417	870.468
8/18/2006 10:09	12.2726	4.1216	-0.12209	871.688
8/18/2006 10:09	12.2726	4.1216	0.24417	872.909
8/18/2006 10:09	12.2726	4.1216	0.122085	881.455
8/18/2006 10:09	12.2726	4.1216	0.366256	887.56
8/18/2006 10:10	12.2726	4.1216	0	887.56
8/18/2006 10:10	12.2726	4.1216	0.366256	892.443
8/18/2006 10:10	12.2726	4.1216	-0.12209	888.78
8/18/2006 10:10	12.2726	4.1216	0.122085	888.78
8/18/2006 10:11	12.2726	4.1216	0.366256	887.56
8/18/2006 10:11	12.2726	4.1216	0.122085	883.897
8/18/2006 10:11	12.2726	4.1216	0.24417	887.56
8/18/2006 10:11	12.2726	4.1216	0.488341	893.664
8/18/2006 10:12	12.2726	4.1216	0.122085	891.222
8/18/2006 10:12	12.2726	4.1216	0	891.222
8/18/2006 10:12	12.2726	4.1216	-0.12209	893.664
8/18/2006 10:12	12.2726	4.1216	0	891.222
8/18/2006 10:13	12.1719	4.1216	0.122085	898.547

John Zinc Inlet Raw Data
Run 1

8/18/2006 10:13	12.1719	4.1216	0.366256	896.105
8/18/2006 10:13	12.1719	4.1216	0.366256	892.443
8/18/2006 10:13	12.1719	4.1216	-0.12209	890.001
8/18/2006 10:14	12.1719	4.22171	0	893.664
8/18/2006 10:14	12.1719	4.22171	0	896.105
8/18/2006 10:14	12.0712	4.22171	0.488341	896.105
8/18/2006 10:14	12.0712	4.22171	0	892.443
8/18/2006 10:15	12.0712	4.22171	0.24417	897.326
8/18/2006 10:15	12.0712	4.22171	0.122085	893.664
8/18/2006 10:15	12.0712	4.22171	0	898.547
8/18/2006 10:15	12.0712	4.22171	0.366256	897.326
8/18/2006 10:16	12.0712	4.22171	-0.12209	897.326
8/18/2006 10:16	12.0712	4.22171	0.366256	898.547
8/18/2006 10:16	12.0712	4.22171	-0.12209	899.768
8/18/2006 10:16	12.0712	4.22171	0.24417	900.989
8/18/2006 10:17	12.0712	4.22171	0	894.885
8/18/2006 10:17	12.0712	4.22171	0.610426	899.768
8/18/2006 10:17	12.0712	4.22171	0	905.872
8/18/2006 10:17	11.9705	4.22171	0.24417	903.431
8/18/2006 10:18	11.9705	4.22171	0	903.431
8/18/2006 10:18	11.9705	4.22171	-0.12209	899.768
8/18/2006 10:18	11.9705	4.22171	0.24417	909.535
8/18/2006 10:18	11.9705	4.22171	-0.12209	909.535
8/18/2006 10:19	11.9705	4.22171	0.122085	911.977
8/18/2006 10:19	11.9705	4.22171	0.488341	911.977
8/18/2006 10:19	11.9705	4.22171	0.122085	916.86
8/18/2006 10:19	11.8575	4.22171	0.366256	919.302
8/18/2006 10:20	11.8575	4.22171	0.24417	918.081
8/18/2006 10:20	11.8575	4.22171	0.122085	920.523
8/18/2006 10:20	11.8575	4.22171	0.122085	920.523
8/18/2006 10:20	11.8575	4.22171	0.488341	919.302
8/18/2006 10:21	11.8575	4.22171	0.366256	920.523
8/18/2006 10:21	11.8575	4.22171	-0.36626	931.51
8/18/2006 10:21	11.8575	4.22171	0.24417	920.523
8/18/2006 10:21	11.8575	4.22171	0.122085	925.406
8/18/2006 10:22	11.8575	4.22171	0	927.848
8/18/2006 10:22	11.8575	4.22171	0.122085	932.731
8/18/2006 10:22	11.8575	4.22171	0.366256	935.173
8/18/2006 10:22	11.8575	4.22171	0.24417	929.068
8/18/2006 10:23	11.8575	4.22171	0	924.185
8/18/2006 10:23	11.8575	4.22171	0.24417	930.289
8/18/2006 10:23	11.8575	4.22171	0.24417	932.731
8/18/2006 10:23	11.8575	4.22171	-0.12209	938.835
8/18/2006 10:24	11.8575	4.22171	0.24417	940.056

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Run 1

8/18/2006 10:24	11.8575	4.22171	0.24417	942.498
8/18/2006 10:24	11.8575	4.22171	0	944.94
8/18/2006 10:24	11.8575	4.22171	0.488341	948.602
8/18/2006 10:25	11.8575	4.22171	0.366256	953.486
8/18/2006 10:25	11.8575	4.22171	0.366256	952.265
8/18/2006 10:25	11.8575	4.22171	0.488341	953.486
8/18/2006 10:25	11.8575	4.22171	0	944.94
8/18/2006 10:26	11.7568	4.22171	0.488341	952.265
8/18/2006 10:26	11.7568	4.22171	0.24417	954.706
8/18/2006 10:26	11.653	4.22171	0	952.265
8/18/2006 10:26	11.653	4.22171	0.122085	962.031
8/18/2006 10:27	11.653	4.22171	0.366256	963.252
8/18/2006 10:27	11.653	4.32182	0.24417	960.811
8/18/2006 10:27	11.653	4.32182	0.366256	960.811
8/18/2006 10:27	11.5523	4.32182	0.366256	974.24
8/18/2006 10:28	11.5523	4.32182	0.24417	966.915
8/18/2006 10:28	11.5523	4.32182	0.122085	975.461
8/18/2006 10:28	11.5523	4.32182	0.366256	970.577
8/18/2006 10:28	11.5523	4.32182	0.24417	971.798
8/18/2006 10:29	11.5523	4.32182	0.366256	976.682
8/18/2006 10:29	11.5523	4.32182	0.488341	975.461
8/18/2006 10:29	11.5523	4.32182	0.366256	975.461
8/18/2006 10:29	11.5523	4.32182	0	986.449
8/18/2006 10:30	11.5523	4.32182	0	981.565
8/18/2006 10:30	11.4424	4.32182	0.24417	991.332
8/18/2006 10:30	11.4424	4.32182	0.366256	987.669
8/18/2006 10:30	11.3417	4.32182	0.122085	991.332
8/18/2006 10:31	11.3417	4.32182	0.366256	982.786
8/18/2006 10:31	11.3417	4.32182	0.488341	984.007
8/18/2006 10:31	11.3417	4.32182	0.366256	990.111
8/18/2006 10:31	11.3417	4.32182	-0.12209	979.123
8/18/2006 10:32	11.3417	4.32182	0.122085	982.786
8/18/2006 10:32	11.3417	4.32182	0.122085	998.657
8/18/2006 10:32	11.2318	4.32182	-0.12209	992.553
8/18/2006 10:32	11.2318	4.32182	0.24417	1010.87
8/18/2006 10:33	11.2318	4.32182	0.122085	1014.53
8/18/2006 10:33	11.3387	4.32182	0.366256	1015.75
8/18/2006 10:33	11.4394	4.32182	0	1015.75
8/18/2006 10:33	11.4394	4.32182	0.366256	1025.52
8/18/2006 10:34	11.4394	4.22171	0.122085	1020.63
8/18/2006 10:34	11.4394	4.22171	0	1016.97
8/18/2006 10:34	11.4394	4.22171	0.366256	1021.85
8/18/2006 10:34	11.4394	4.22171	0	1018.19
8/18/2006 10:35	11.4394	4.22171	0	1025.52

John Zinc Inlet Raw Data
Run 1

8/18/2006 10:35	11.4394	4.22171	0.122085	1019.41
8/18/2006 10:35	11.4394	4.22171	0	1018.19
8/18/2006 10:35	11.4394	4.22171	0.366256	1029.18
8/18/2006 10:36	11.4394	4.22171	-0.12209	1024.29
8/18/2006 10:36	11.4394	4.22171	0.366256	1034.06
8/18/2006 10:36	11.4394	4.22171	0	1040.17
8/18/2006 10:36	11.4394	4.22171	-0.12209	1035.28
8/18/2006 10:37	11.4394	4.22171	0.366256	1038.95
8/18/2006 10:37	11.4394	4.22171	0.366256	1045.05
8/18/2006 10:37	11.3356	4.22171	0.366256	1042.61
8/18/2006 10:37	11.3356	4.22171	0	1052.37
8/18/2006 10:38	11.3356	4.22171	-0.12209	1056.04
8/18/2006 10:38	11.3356	4.22171	-0.12209	1052.37
8/18/2006 10:38	11.3356	4.22171	-0.12209	1062.14
8/18/2006 10:38	11.3356	4.22171	0.366256	1068.25
8/18/2006 10:39	11.3356	4.22171	0.122085	1064.58
8/18/2006 10:39	11.3356	4.1216	-0.12209	1079.23
8/18/2006 10:39	11.3356	4.1216	0.122085	1076.79
8/18/2006 10:39	11.3356	4.1216	0.366256	1071.91
8/18/2006 10:40	11.3356	4.1216	0	1084.12
8/18/2006 10:40	11.3356	4.1216	0	1081.68
8/18/2006 10:40	11.3356	4.1216	0.366256	1079.23
8/18/2006 10:40	11.3356	4.1216	0.122085	1082.9
8/18/2006 10:41	11.3356	4.1216	0	1096.33
8/18/2006 10:41	11.2288	4.1216	0.854597	1107.31
8/18/2006 10:41	11.2288	4.1216	0.732511	1106.09
8/18/2006 10:41	11.2288	4.1216	0.976682	1108.53
8/18/2006 10:42	11.2288	4.1216	0.732511	1112.2
8/18/2006 10:42	11.2288	4.1216	0.732511	1112.2
8/18/2006 10:42	11.125	4.1216	0.976682	1132.95
8/18/2006 10:42	11.0151	4.1216	0.610426	1130.51
8/18/2006 10:43	11.0151	4.1216	1.09877	1136.61
8/18/2006 10:43	11.0151	4.1216	0.488341	1134.17
8/18/2006 10:43	11.0151	4.1216	1.09877	1145.16
8/18/2006 10:43	11.0151	4.1216	0.488341	1141.5
8/18/2006 10:44	11.0151	4.1216	1.09877	1137.83
8/18/2006 10:44	11.0151	4.1216	0.610426	1142.72
8/18/2006 10:44	11.0151	4.1216	0.976682	1154.93
8/18/2006 10:44	11.0151	4.1216	0.976682	1151.26
8/18/2006 10:45	11.0151	4.1216	0.610426	1147.6
8/18/2006 10:45	11.0151	4.1216	0.976682	1159.81
8/18/2006 10:45	10.9144	4.1216	0.976682	1164.69
8/18/2006 10:45	10.9144	4.1216	0.732511	1165.91
8/18/2006 10:46	10.9144	4.1216	0.854597	1163.47

John Zinc Inlet Raw Data
Run 1

8/18/2006 10:46	10.8137	4.1216	0.854597	1172.02
8/18/2006 10:46	10.9175	4.1216	0.610426	1172.02
8/18/2006 10:46	10.8168	4.1216	0.854597	1169.58
8/18/2006 10:47	10.8168	4.1216	0.610426	1185.45
8/18/2006 10:47	10.8168	4.1216	0.976682	1191.55
8/18/2006 10:47	10.8168	4.1216	0.610426	1181.78
8/18/2006 10:47	10.8168	4.1216	0.976682	1196.44
8/18/2006 10:48	10.8168	4.1216	0.976682	1201.32
8/18/2006 10:48	10.8168	4.1216	0.610426	1196.44
8/18/2006 10:48	10.8168	4.1216	0.976682	1204.98
8/18/2006 10:48	10.713	4.1216	0.854597	1215.97
8/18/2006 10:49	10.713	4.1216	0.854597	1206.2
8/18/2006 10:49	10.713	4.1216	0.854597	1212.31
8/18/2006 10:49	10.713	4.1216	0.610426	1223.29
8/18/2006 10:49	10.713	4.1216	0.610426	1224.51
8/18/2006 10:50	10.713	4.1216	0.610426	1223.29
8/18/2006 10:50	10.713	4.1216	0.610426	1237.94
8/18/2006 10:50	10.713	4.1216	0.610426	1241.61
8/18/2006 10:50	10.713	4.1216	0.854597	1236.72
8/18/2006 10:51	10.6123	4.1216	0.854597	1241.61
8/18/2006 10:51	10.6123	4.1216	0.610426	1258.7
8/18/2006 10:51	10.6123	4.1216	0.488341	1258.7
8/18/2006 10:51	10.6123	4.1216	0.854597	1259.92
8/18/2006 10:52	10.6123	4.1216	0.976682	1267.24
8/18/2006 10:52	10.6123	4.1216	0.610426	1275.79
8/18/2006 10:52	10.6123	4.1216	0.976682	1279.45
8/18/2006 10:52	10.6123	4.1216	0.976682	1277.01
8/18/2006 10:53	10.6123	4.1216	0.610426	1280.67
8/18/2006 10:53	10.5115	4.1216	0.854597	1292.88
8/18/2006 10:53	10.5115	4.1216	0.976682	1296.54
8/18/2006 10:53	10.5115	4.1216	0.854597	1297.77
8/18/2006 10:54	10.5115	4.1216	0.854597	1300.21
8/18/2006 10:54	10.5115	4.1216	0.976682	1309.97
8/18/2006 10:54	10.5115	4.1216	0.610426	1311.2
8/18/2006 10:54	10.4108	4.1216	0.610426	1313.64
8/18/2006 10:55	10.4108	4.1216	0.854597	1317.3
8/18/2006 10:55	10.4108	4.1216	0.854597	1330.73
8/18/2006 10:55	10.4108	4.1216	0.610426	1329.51
8/18/2006 10:55	10.4108	4.1216	0.854597	1327.07
8/18/2006 10:56	10.4108	4.1216	0.976682	1339.27
8/18/2006 10:56	10.4108	4.1216	0.610426	1330.73
8/18/2006 10:56	10.4108	4.1216	1.09877	1335.61
8/18/2006 10:56	10.4108	4.1216	0.976682	1355.15
8/18/2006 10:57	10.4108	4.1216	0.976682	1351.48

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Run 1

8/18/2006 10:57	10.4108	4.1216	0.488341	1345.38
8/18/2006 10:57	10.4108	4.1216	0.610426	1352.7
8/18/2006 10:57	10.4108	4.1216	0.610426	1357.59
8/18/2006 10:58	10.307	4.1216	0.854597	1364.91
8/18/2006 10:58	10.307	4.1216	0.610426	1378.34
8/18/2006 10:58	10.307	4.1216	0.732511	1379.56
8/18/2006 10:58	10.307	4.1216	0.732511	1380.78
8/18/2006 10:59	10.307	4.1216	0.732511	1394.21
8/18/2006 10:59	10.307	4.1216	0.732511	1399.1
8/18/2006 10:59	10.307	4.1216	0.610426	1395.43
8/18/2006 10:59	10.307	4.1216	0.610426	1401.54
8/18/2006 11:00	10.2063	4.1216	0.610426	1402.76
8/18/2006 11:00	10.2063	4.1216	0.732511	1401.54
8/18/2006 11:00	10.2063	4.1216	1.09877	1403.98
8/18/2006 11:00	10.2063	4.22171	1.09877	1408.86
8/18/2006 11:01	10.2063	4.22171	1.22085	1407.64
8/18/2006 11:01	10.2063	4.22171	0.976682	1402.76
8/18/2006 11:01	10.2063	4.22171	0.854597	1405.2
8/18/2006 11:01	10.2063	4.22171	0.610426	1413.75
8/18/2006 11:02	10.1056	4.22171	0.610426	1418.63
8/18/2006 11:02	10.1056	4.22171	0.610426	1422.29
8/18/2006 11:02	10.1056	4.22171	0.610426	1425.96
8/18/2006 11:02	10.1056	4.22171	0.610426	1439.38
8/18/2006 11:03	10.1056	4.22171	0.610426	1433.28
8/18/2006 11:03	10.1056	4.22171	0.610426	1428.4
8/18/2006 11:03	10.1056	4.22171	0.610426	1441.83
8/18/2006 11:03	10.1056	4.22171	0.610426	1447.93
8/18/2006 11:04	10.1056	4.22171	0.610426	1451.59
8/18/2006 11:04	10.1056	4.22171	0.976682	1451.59
8/18/2006 11:04	10.1056	4.22171	0.976682	1454.03
8/18/2006 11:04	10.0049	4.22171	1.09877	1467.46
8/18/2006 11:05	10.0049	4.22171	0.976682	1474.79
8/18/2006 11:05	10.0049	4.22171	1.09877	1477.23
8/18/2006 11:05	10.0049	4.22171	0.976682	1517.52
8/18/2006 11:05	10.0049	4.22171	0.854597	1617.63
8/18/2006 11:06	10.0049	4.22171	0.732511	1599.32
8/18/2006 11:06	10.0049	4.22171	0.854597	1579.78
8/18/2006 11:06	10.0049	4.22171	1.09877	1578.56
8/18/2006 11:06	10.0049	4.22171	0.854597	1588.33
8/18/2006 11:07	10.0049	4.22171	0.976682	1593.21
8/18/2006 11:07	10.0049	4.22171	0.732511	1595.65
8/18/2006 11:07	9.89806	4.22171	0.854597	1605.42
8/18/2006 11:07	9.89806	4.22171	0.732511	1610.3
8/18/2006 11:08	9.89806	4.22171	0.976682	1621.29

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Run 1

8/18/2006 11:08	9.89806	4.22171	0.976682	1623.73
8/18/2006 11:08	9.89806	4.22171	0.854597	1627.4
8/18/2006 11:08	9.79734	4.22171	0.854597	1634.72
8/18/2006 11:09	9.79734	4.22171	0.854597	1640.83
8/18/2006 11:09	9.79734	4.22171	0.732511	1640.83
8/18/2006 11:09	9.79734	4.22171	1.09877	1628.62
8/18/2006 11:09	9.79734	4.22171	1.09877	1632.28
8/18/2006 11:10	9.79734	4.22171	0.854597	1632.28
8/18/2006 11:10	9.79734	4.22171	0.732511	1637.16
8/18/2006 11:10	9.79734	4.22171	0.610426	1646.93
8/18/2006 11:10	9.79734	4.22171	0.610426	1655.48
8/18/2006 11:11	9.79734	4.22171	0.854597	1667.68
8/18/2006 11:11	9.79734	4.22171	0.976682	1675.01
8/18/2006 11:11	9.79734	4.22171	0.854597	1678.67
8/18/2006 11:11	9.79734	4.22171	0.854597	1682.33
8/18/2006 11:12	9.69357	4.22171	0.610426	1698.21
8/18/2006 11:12	9.69357	4.22171	0.732511	1709.19
8/18/2006 11:12	9.69357	4.22171	1.09877	1711.63
8/18/2006 11:12	9.69357	4.22171	1.09877	1714.08
8/18/2006 11:13	9.69357	4.22171	0.732511	1753.14
8/18/2006 11:13	9.69357	4.22171	0.610426	1842.27
8/18/2006 11:13	9.69357	4.22171	0.732511	1822.73
8/18/2006 11:13	9.69357	4.22171	0.976682	1806.86
8/18/2006 11:14	9.69357	4.22171	0.854597	1808.08
8/18/2006 11:14	9.59285	4.22171	0.976682	1822.73
8/18/2006 11:14	9.59285	4.22171	0.610426	1827.62
8/18/2006 11:14	9.59285	4.22171	0.610426	1842.27
8/18/2006 11:15	9.59285	4.22171	0.610426	1845.93
8/18/2006 11:15	9.59285	4.22171	0.610426	1858.14
8/18/2006 11:15	9.59285	4.22171	0.732511	1860.58
8/18/2006 11:15	9.59285	4.22171	0.610426	1863.02
8/18/2006 11:16	9.59285	4.22171	0.732511	1860.58
8/18/2006 11:16	9.59285	4.22171	0.732511	1874.01
8/18/2006 11:16	9.59285	4.22171	0.854597	1881.33
8/18/2006 11:16	9.48602	4.22171	0.854597	1885
8/18/2006 11:17	9.48602	4.22171	0.976682	1898.43
8/18/2006 11:17	9.48602	4.22171	0.976682	1894.76
8/18/2006 11:17	9.48602	4.22171	0.610426	1895.98
8/18/2006 11:17	9.48602	4.22171	0.732511	1894.76
8/18/2006 11:18	9.48602	4.22171	0.610426	1898.43
8/18/2006 11:18	9.48602	4.22171	0.732511	1920.4
8/18/2006 11:18	9.48602	4.22171	0.976682	1927.73
8/18/2006 11:18	9.48602	4.22171	0.976682	1930.17
8/18/2006 11:19	9.48602	4.22171	0.976682	1931.39

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Run 1

8/18/2006 11:19	9.48602	4.22171	0.732511	1917.96
8/18/2006 11:19	9.48602	4.22171	0.610426	1922.84
8/18/2006 11:19	9.48602	4.22171	0.610426	1920.4
8/18/2006 11:20	9.38225	4.22171	0.976682	1957.03
8/18/2006 11:20	9.38225	4.32182	15.1386	2021.73
8/18/2006 11:20	9.26932	3.85057	10.7435	1994.87
8/18/2006 11:20	10.4078	3.52338	3.66256	1898.43
8/18/2006 11:21	10.7771	3.62593	1.22085	1822.73
8/18/2006 11:21	10.7771	3.73337	1.46502	1783.66
8/18/2006 11:21	10.7771	3.94579	1.09877	1740.94
8/18/2006 11:21	10.7771	4.0459	1.09877	1712.86
8/18/2006 11:22	10.7771	4.0459	0.854597	1683.56
8/18/2006 11:22	10.7771	4.0459	0.732511	1651.81
8/18/2006 11:22	10.7771	4.14846	0.610426	1645.71
8/18/2006 11:22	10.7771	4.14846	0.732511	1646.93
8/18/2006 11:23	10.8808	4.14846	0.976682	1633.5
8/18/2006 11:23	10.9999	4.14846	0.732511	1628.62
8/18/2006 11:23	11.1067	4.04835	0.488341	1601.76
8/18/2006 11:23	11.3142	4.04835	0.732511	1567.57
8/18/2006 11:24	11.3051	4.04835	0.976682	1570.02
8/18/2006 11:24	11.3051	4.14846	1.09877	1554.14
8/18/2006 11:24	11.0823	4.14846	0.854597	1573.68
8/18/2006 11:24	11.0823	4.14846	0.610426	1561.47
8/18/2006 11:25	11.0823	4.14846	0.854597	1589.55
8/18/2006 11:25	11.0823	4.14846	0.854597	1596.87
8/18/2006 11:25	11.0823	4.14846	0.732511	1604.2
8/18/2006 11:25	10.9785	4.14846	0.610426	1622.51
8/18/2006 11:26	11.0792	4.14846	0.854597	1629.84
8/18/2006 11:26	11.0792	4.14846	0.854597	1655.48
8/18/2006 11:26	11.0792	4.14846	0.610426	1664.02
8/18/2006 11:26	11.0792	4.14846	0.732511	1662.8
8/18/2006 11:27	11.0792	4.14846	0.610426	1698.21
8/18/2006 11:27	11.0792	4.14846	0.732511	1689.66
8/18/2006 11:27	11.0792	4.14846	0.976682	1704.31
8/18/2006 11:27	11.0792	4.14846	0.854597	1716.52
8/18/2006 11:28	11.0792	4.14846	0.732511	1717.74
8/18/2006 11:28	10.9755	4.14846	0.732511	1717.74
8/18/2006 11:28	10.9755	4.14846	0.854597	1737.27
8/18/2006 11:28	10.9755	4.14846	0.610426	1723.84
8/18/2006 11:29	10.9755	4.14846	0.976682	1742.16
8/18/2006 11:29	10.9755	4.14846	0.976682	1734.83
8/18/2006 11:29	10.9755	4.14846	0.732511	1742.16
8/18/2006 11:29	10.9755	4.14846	0.732511	1737.27
8/18/2006 11:30	10.9755	4.14846	0.732511	1734.83

John Zinc Inlet Raw Data
Run 1

8/18/2006 11:30	10.9755	4.14846	0.610426	1747.04
8/18/2006 11:30	10.8686	4.14846	0.976682	1736.05
8/18/2006 11:30	10.8686	4.14846	0.854597	1755.59
8/18/2006 11:31	10.8686	4.14846	0.488341	1753.14
8/18/2006 11:31	10.8686	4.14846	1.22085	1756.81
8/18/2006 11:31	10.8686	4.14846	0.610426	1759.25
8/18/2006 11:31	10.8686	4.14846	0.854597	1769.01
8/18/2006 11:32	10.8686	4.14846	1.22085	1780
8/18/2006 11:32	10.8686	4.14846	0.976682	1784.89
8/18/2006 11:32	11.2318	3.93603	0.732511	1758.03
8/18/2006 11:32	11.4424	3.93603	0.976682	1742.16
8/18/2006 11:33	11.2227	3.93603	0.610426	1740.94
8/18/2006 11:33	10.9907	4.14601	0.976682	1755.59
8/18/2006 11:33	10.7832	4.24612	0.610426	1781.22
8/18/2006 11:33	10.6825	4.24612	0.732511	1803.2
8/18/2006 11:34	10.5817	4.35356	0.976682	1820.29
8/18/2006 11:34	10.4658	4.35356	0.610426	1841.05
8/18/2006 11:34	10.4658	4.35356	0.732511	1850.81
8/18/2006 11:34	10.365	4.35356	0.610426	1869.12
8/18/2006 11:35	10.365	4.35356	1.09877	1882.55
8/18/2006 11:35	10.365	4.35356	0.976682	1894.76
8/18/2006 11:35	10.2643	4.35356	0.854597	1889.88
8/18/2006 11:35	10.2643	4.35356	0.610426	1906.97
8/18/2006 11:36	10.2643	4.35356	0.732511	1911.85
8/18/2006 11:36	10.2643	4.45367	0.854597	1911.85
8/18/2006 11:36	10.1636	4.55378	0.488341	1921.62
8/18/2006 11:36	10.0568	4.55378	0.854597	1932.61
8/18/2006 11:37	10.0568	4.55378	0.976682	1947.26
8/18/2006 11:37	10.0568	4.55378	0.976682	1935.05
8/18/2006 11:37	10.0568	4.55378	0.732511	1937.49
8/18/2006 11:37	10.0568	4.55378	0.854597	1933.83
8/18/2006 11:38	9.82786	4.65389	0.976682	1960.69
8/18/2006 11:38	9.82786	4.65389	0.732511	1970.46
8/18/2006 11:38	9.82786	4.55134	0.610426	1977.78
8/18/2006 11:38	9.93163	4.55134	0.610426	1976.56
8/18/2006 11:39	10.0354	4.45123	0.732511	1997.31
8/18/2006 11:39	10.0354	4.45123	1.09877	1987.55
8/18/2006 11:39	10.0354	4.45123	0.976682	1993.65
8/18/2006 11:39	10.0354	4.35112	0.732511	1965.57
8/18/2006 11:40	10.1392	4.35112	0.732511	1987.55
8/18/2006 11:40	10.1392	4.35112	1.09877	1969.23
8/18/2006 11:40	10.1392	4.35112	0.854597	1972.9
8/18/2006 11:40	10.1392	4.35112	0.732511	1958.25
8/18/2006 11:41	10.1392	4.35112	0.610426	1963.13

John Zinc Inlet Raw Data
Run 1

8/18/2006 11:41	10.1392	4.35112	0.610426	1958.25
8/18/2006 11:41	10.1392	4.35112	0.976682	1963.13
8/18/2006 11:41	10.1392	4.35112	0.610426	1971.68
8/18/2006 11:42	10.1392	4.35112	0.854597	1968.01
8/18/2006 11:42	10.1392	4.35112	0.610426	1965.57
8/18/2006 11:42	10.1392	4.35112	0.732511	1976.56
8/18/2006 11:42	10.1392	4.35112	1.09877	1972.9
8/18/2006 11:43	10.1392	4.35112	0.488341	1981.44
8/18/2006 11:43	10.1392	4.35112	0.854597	1977.78
8/18/2006 11:43	10.0385	4.35112	0.854597	1985.11
8/18/2006 11:43	10.0385	4.35112	0.732511	1986.33
8/18/2006 11:44	10.0385	4.35112	1.09877	1970.46
8/18/2006 11:44	10.0385	4.35112	0.610426	1988.77
8/18/2006 11:44	10.0385	4.35112	0.976682	1972.9
8/18/2006 11:44	10.0385	4.35112	0.976682	1992.43
8/18/2006 11:45	10.0385	4.35112	0.732511	1985.11
8/18/2006 11:45	10.0385	4.35112	0.854597	1996.09
8/18/2006 11:45	9.93163	4.35112	0.610426	1993.65
8/18/2006 11:45	9.93163	4.35112	0.854597	1993.65
8/18/2006 11:46	9.93163	4.35112	0.610426	2002.2
8/18/2006 11:46	9.93163	4.35112	1.09877	2003.42
8/18/2006 11:46	9.93163	4.35112	0.610426	2007.08
8/18/2006 11:46	9.93163	4.35112	0.854597	2003.42
8/18/2006 11:47	9.93163	4.35112	0.854597	2020.51
8/18/2006 11:47	9.93163	4.35112	0.976682	2010.74
8/18/2006 11:47	9.83091	4.25101	0.732511	2008.3
8/18/2006 11:47	9.83091	4.25101	1.09877	2026.61
8/18/2006 11:48	9.83091	4.25101	0.610426	2035.16
8/18/2006 11:48	9.83091	4.25101	0.732511	2021.73
8/18/2006 11:48	9.83091	4.25101	0.854597	2038.82
8/18/2006 11:48	9.83091	4.25101	0.854597	2036.38
8/18/2006 11:49	9.72409	4.25101	0.732511	2044.93
8/18/2006 11:49	9.72409	4.25101	0.488341	2052.25
8/18/2006 11:49	9.72409	4.25101	0.854597	2047.37
8/18/2006 11:49	9.72409	4.25101	1.09877	2066.9
8/18/2006 11:50	9.72409	4.25101	0.976682	2065.68
8/18/2006 11:50	9.72409	4.25101	0.732511	2065.68
8/18/2006 11:50	9.72409	4.25101	0.732511	2083.99
8/18/2006 11:50	9.72409	4.25101	0.732511	2065.68
8/18/2006 11:51	9.62337	4.25101	0.854597	2085.22
8/18/2006 11:51	9.62337	4.25101	0.976682	2096.2
8/18/2006 11:51	9.62337	4.25101	0.976682	2075.45
8/18/2006 11:51	9.62337	4.25101	1.09877	2075.45
8/18/2006 11:52	9.62337	4.25101	0.976682	2109.63

John Zinc Inlet Raw Data
Run 1

8/18/2006 11:52	9.51959	4.25101	0.732511	2101.09
8/18/2006 11:52	9.51959	4.25101	0.610426	2118.18
8/18/2006 11:52	9.51959	4.25101	0.610426	2114.52
8/18/2006 11:53	9.51959	4.25101	0.488341	2131.61
8/18/2006 11:53	9.51959	4.25101	0.854597	2158.47
8/18/2006 11:53	9.51959	4.25101	1.09877	2142.6
8/18/2006 11:53	9.51959	4.25101	1.09877	2152.36
8/18/2006 11:54	9.41887	4.25101	0.976682	2165.79
8/18/2006 11:54	9.41887	4.25101	0.976682	2156.02
8/18/2006 11:54	9.41887	4.25101	0.976682	2169.45
8/18/2006 11:54	9.41887	4.25101	1.09877	2182.88
8/18/2006 11:55	9.31815	4.25101	0.976682	2179.22
8/18/2006 11:55	9.31815	4.25101	0.854597	2199.98
8/18/2006 11:55	9.31815	4.25101	0.854597	2191.43
8/18/2006 11:55	9.31815	4.25101	1.09877	2197.53
8/18/2006 11:56	9.31815	4.25101	0.854597	2201.2
8/18/2006 11:56	9.31815	4.35112	0.610426	2196.31
8/18/2006 11:56	9.21743	4.35112	0.488341	2202.42
8/18/2006 11:56	9.21743	4.35112	0.610426	2219.51
8/18/2006 11:57	9.21743	4.35112	0.732511	2231.72
8/18/2006 11:57	9.11366	4.35112	1.09877	2217.07
8/18/2006 11:57	9.11366	4.35112	0.610426	2241.48
8/18/2006 11:57	9.11366	4.35112	0.732511	2252.47
8/18/2006 11:58	9.11366	4.35112	0.610426	2264.68
8/18/2006 11:58	9.11366	4.35112	0.610426	2257.36
8/18/2006 11:58	9.11366	4.35112	0.732511	2284.21
8/18/2006 11:58	9.11366	4.35112	0.732511	2282.99
8/18/2006 11:59	9.11366	4.35112	0.976682	2295.2
8/18/2006 11:59	9.00989	4.35112	1.09877	2291.54
8/18/2006 11:59	9.00989	4.35112	1.09877	2307.41
8/18/2006 11:59	9.00989	4.35112	0.854597	2317.18
8/18/2006 12:00	9.00989	4.35112	0.610426	2304.97
8/18/2006 12:00	9.00989	4.24857	0.976682	2320.84
8/18/2006 12:00	8.90917	4.24857	0.976682	2308.63
8/18/2006 12:00	8.90917	4.24857	0.488341	2319.62
8/18/2006 12:01	8.79929	4.34868	0.854597	2313.51
8/18/2006 12:01	8.79929	4.34868	0.976682	2326.94
8/18/2006 12:01	8.79929	4.34868	0.732511	2317.18
8/18/2006 12:01	8.69552	4.34868	0.854597	2334.27
8/18/2006 12:02	8.69552	4.34868	0.976682	2323.28
8/18/2006 12:02	8.69552	4.34868	0.854597	2339.15
8/18/2006 12:02	8.69552	4.34868	0.732511	2347.7
8/18/2006 12:02	8.69552	4.34868	0.488341	2356.24
8/18/2006 12:03	8.69552	4.34868	0.854597	2357.47

John Zinc Inlet Raw Data
Run 1

8/18/2006 12:03	8.69552	4.34868	0.976682	2361.13
8/18/2006 12:03	8.5948	4.34868	0.854597	2366.01
8/18/2006 12:03	8.5948	4.34868	0.610426	2379.44
8/18/2006 12:04	8.5948	4.34868	0.976682	2367.23
8/18/2006 12:04	8.5948	4.34868	0.732511	2381.88
8/18/2006 12:04	8.47882	4.34868	0.854597	2380.66
8/18/2006 12:04	8.47882	4.34868	0.854597	2396.53
8/18/2006 12:05	8.47882	4.34868	0.976682	2395.31
8/18/2006 12:05	8.47882	4.34868	0.854597	2411.18
8/18/2006 12:05	8.47882	4.34868	0.610426	2405.08
8/18/2006 12:05	8.47882	4.34868	0.854597	2413.62
8/18/2006 12:06	8.47882	4.34868	0.976682	2420.95
8/18/2006 12:06	8.47882	4.34868	0.976682	2429.5
8/18/2006 12:06	8.47882	4.34868	0.976682	2425.83
8/18/2006 12:06	8.47882	4.34868	0.976682	2438.04
8/18/2006 12:07	8.47882	4.34868	1.09877	2425.83
8/18/2006 12:07	8.47882	4.34868	0.976682	2445.37
8/18/2006 12:07	8.47882	4.34868	0.610426	2423.39
8/18/2006 12:07	8.47882	4.34868	0.976682	2501.53
8/18/2006 12:08	8.47882	4.34868	0.732511	2460.02
8/18/2006 12:08	8.47882	4.44879	1.58711	2471
8/18/2006 12:08	8.47882	4.44879	1.83128	2468.56
8/18/2006 12:15	8.42083	4.31693	1.34294	2601.64
8/18/2006 12:15	8.31095	4.41704	0.976682	2606.52
8/18/2006 12:15	8.10646	4.41704	0.732511	2602.86
8/18/2006 12:15	8.10646	4.41704	0.854597	2615.07
8/18/2006 12:16	8.10646	4.41704	1.09877	2633.38
8/18/2006 12:16	8.10646	4.41704	0.976682	2632.16
8/18/2006 12:16	8.10646	4.41704	0.854597	2638.26
8/18/2006 12:16	8.10646	4.41704	0.732511	2637.04
8/18/2006 12:17	8.10646	4.41704	0.732511	2643.14
8/18/2006 12:17	8.10646	4.41704	0.976682	2657.8
8/18/2006 12:17	8.10646	4.41704	0.854597	2663.9
8/18/2006 12:17	8.10646	4.41704	0.610426	2648.03
8/18/2006 12:18	8.10646	4.41704	0.732511	2666.34
8/18/2006 12:18	8.10646	4.41704	1.09877	2655.35
8/18/2006 12:18	8.10646	4.41704	0.854597	2671.22
8/18/2006 12:18	8.10646	4.41704	0.854597	2672.45
8/18/2006 12:19	8.10646	4.41704	1.09877	2666.34
8/18/2006 12:19	8.10646	4.41704	0.610426	2680.99
8/18/2006 12:19	8.10646	4.41704	0.854597	2659.02
8/18/2006 12:19	8.00269	4.51715	1.09877	2678.55
8/18/2006 12:20	8.00269	4.51715	0.610426	2644.37
8/18/2006 12:20	8.00269	4.51715	1.22085	2649.25

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Run 1

8/18/2006 12:20	8.00269	4.51715	0.854597	2611.4
8/18/2006 12:20	8.00269	4.51715	0.976682	2595.53
8/18/2006 12:21	8.00269	4.51715	0.732511	2543.04
8/18/2006 12:21	8.00269	4.51715	1.09877	2518.62
8/18/2006 12:21	8.00269	4.51715	0.976682	2469.78
8/18/2006 12:21	7.89586	4.51715	0.732511	2434.38
8/18/2006 12:22	7.89586	4.51715	1.09877	2420.95
8/18/2006 12:22	7.89586	4.51715	1.22085	2363.57
8/18/2006 12:22	7.89586	4.51715	0.976682	2344.04
8/18/2006 12:22	7.99658	4.51715	0.732511	2309.85
8/18/2006 12:23	7.99658	4.51715	0.854597	2279.33
8/18/2006 12:23	7.89586	4.51715	0.854597	2264.68
8/18/2006 12:23	7.89586	4.51715	0.732511	2251.25
8/18/2006 12:23	7.89586	4.51715	0.732511	2224.39
8/18/2006 12:24	7.89586	4.51715	0.976682	2232.94
8/18/2006 12:24	7.89586	4.51715	0.976682	2219.51
8/18/2006 12:24	7.89586	4.51715	0.610426	2184.1
8/18/2006 12:24	7.89586	4.51715	1.22085	2175.56
8/18/2006 12:25	7.89586	4.51715	0.732511	2153.58
8/18/2006 12:25	7.89586	4.51715	0.732511	2124.28
8/18/2006 12:25	7.89586	4.51715	0.976682	2124.28
8/18/2006 12:25	7.89586	4.51715	0.976682	2091.32
8/18/2006 12:26	7.89586	4.51715	1.09877	2079.11
8/18/2006 12:26	7.89586	4.51715	0.854597	2055.92
8/18/2006 12:26	7.89586	4.51715	1.09877	2037.6
8/18/2006 12:26	7.89586	4.51715	0.854597	2031.5
8/18/2006 12:27	7.99963	4.51715	0.854597	2021.73
8/18/2006 12:27	7.99963	4.51715	0.732511	2004.64
8/18/2006 12:27	7.99963	4.51715	0.610426	2007.08
8/18/2006 12:27	7.99963	4.51715	0.610426	1976.56
8/18/2006 12:28	7.88976	4.51715	0.732511	1980.22
8/18/2006 12:28	7.88976	4.51715	0.976682	1977.78
8/18/2006 12:28	7.99048	4.51715	1.09877	1958.25
8/18/2006 12:28	7.99048	4.51715	0.732511	1966.79
8/18/2006 12:29	7.88976	4.51715	0.732511	1960.69
8/18/2006 12:29	7.78904	4.51715	0.854597	1946.04
8/18/2006 12:29	7.78904	4.51715	0.976682	1955.81
8/18/2006 12:29	7.78904	4.51715	0.976682	1946.04
8/18/2006 12:30	7.89586	4.51715	1.09877	1938.71
8/18/2006 12:30	7.89586	4.51715	0.732511	1932.61
8/18/2006 12:30	7.89586	4.51715	0.610426	1932.61
8/18/2006 12:30	7.89586	4.51715	1.09877	1932.61
8/18/2006 12:31	7.89586	4.51715	0.976682	1922.84
8/18/2006 12:31	7.89586	4.51715	0.732511	1922.84

John Zinc Inlet Raw Data
Run 1

8/18/2006 12:31	7.89586	4.51715	0.610426	1921.62
8/18/2006 12:31	7.89586	4.51715	0.976682	1930.17
8/18/2006 12:32	7.89586	4.51715	1.09877	1931.39
8/18/2006 12:32	7.89586	4.51715	0.976682	1927.73
8/18/2006 12:32	7.89586	4.51715	1.09877	1921.62
8/18/2006 12:32	7.79514	4.51715	0.854597	1931.39
8/18/2006 12:33	7.79514	4.51715	0.732511	1921.62
8/18/2006 12:33	7.79514	4.51715	0.976682	1930.17
8/18/2006 12:33	7.79514	4.51715	1.09877	1943.6
8/18/2006 12:33	7.79514	4.51715	0.854597	1928.95
8/18/2006 12:34	7.89586	4.51715	0.854597	1932.61
8/18/2006 12:34	7.89586	4.51715	0.854597	1936.27
8/18/2006 12:34	7.89586	4.51715	0.610426	1922.84
8/18/2006 12:34	7.89586	4.51715	0.732511	1930.17
8/18/2006 12:35	7.89586	4.51715	0.854597	1942.38
8/18/2006 12:35	7.89586	4.51715	1.09877	1930.17
8/18/2006 12:35	7.89586	4.51715	0.610426	1938.71
8/18/2006 12:35	7.89586	4.51715	0.854597	1927.73
8/18/2006 12:36	7.89586	4.51715	0.976682	1926.5
8/18/2006 12:36	7.99658	4.51715	0.854597	1944.82
8/18/2006 12:36	7.99658	4.51715	0.976682	1946.04
8/18/2006 12:36	7.99658	4.51715	0.732511	1925.28
8/18/2006 12:37	7.99658	4.51715	0.732511	1947.26
8/18/2006 12:37	7.99658	4.51715	1.09877	1944.82
8/18/2006 12:37	7.99658	4.51715	0.976682	1949.7
8/18/2006 12:37	7.99658	4.51715	0.732511	1954.58
8/18/2006 12:38	7.99658	4.51715	0.976682	1948.48
8/18/2006 12:38	7.99658	4.51715	0.732511	1965.57
8/18/2006 12:38	7.99658	4.51715	1.22085	1954.58
8/18/2006 12:38	7.99658	4.51715	0.732511	1963.13
8/18/2006 12:39	7.99658	4.51715	0.732511	1957.03
8/18/2006 12:39	7.99658	4.51715	0.976682	1961.91
8/18/2006 12:39	7.99658	4.51715	0.854597	1964.35
8/18/2006 12:39	7.99658	4.51715	0.732511	1959.47
8/18/2006 12:40	7.99658	4.51715	0.854597	1964.35
8/18/2006 12:40	7.99658	4.51715	1.09877	1954.58
8/18/2006 12:40	7.99658	4.51715	1.09877	1976.56
8/18/2006 12:40	8.0973	4.51715	0.732511	1975.34
8/18/2006 12:41	8.0973	4.51715	1.09877	1979
8/18/2006 12:41	8.0973	4.51715	0.732511	1972.9
8/18/2006 12:41	8.0973	4.51715	1.09877	1981.44
8/18/2006 12:41	8.0973	4.51715	0.732511	1988.77
8/18/2006 12:42	8.0973	4.51715	0.976682	1982.66
8/18/2006 12:42	7.99353	4.51715	0.976682	1982.66

John Zinc Inlet Raw Data
Run 1

8/18/2006 12:42	7.99353	4.51715	0.976682	2003.42
8/18/2006 12:42	7.99353	4.51715	0.732511	1996.09
8/18/2006 12:43	7.99353	4.51715	0.976682	1994.87
8/18/2006 12:43	7.99353	4.51715	0.854597	2010.74
8/18/2006 12:43	7.99353	4.51715	0.732511	1999.76
8/18/2006 12:43	7.99353	4.51715	0.854597	2005.86
8/18/2006 12:44	7.99353	4.51715	1.09877	2022.95
8/18/2006 12:44	7.99353	4.51715	0.976682	2000.98
8/18/2006 12:44	7.99353	4.51715	0.610426	2016.85
8/18/2006 12:44	7.99353	4.51715	0.854597	2026.61
8/18/2006 12:45	7.99353	4.51715	1.22085	2025.39
8/18/2006 12:45	7.99353	4.51715	0.732511	2021.73
8/18/2006 12:45	7.99353	4.51715	0.854597	2043.71
8/18/2006 12:45	7.99353	4.51715	1.09877	2035.16
8/18/2006 12:46	7.99353	4.51715	0.976682	2046.15
8/18/2006 12:46	7.99353	4.51715	0.854597	2051.03
8/18/2006 12:46	7.99353	4.51715	0.854597	2041.26
8/18/2006 12:46	7.99353	4.51715	1.09877	2047.37
8/18/2006 12:47	7.99353	4.51715	0.732511	2035.16
8/18/2006 12:47	7.99353	4.51715	0.976682	2057.14
8/18/2006 12:47	7.99353	4.51715	0.976682	2054.69
8/18/2006 12:47	7.99353	4.51715	1.09877	2048.59
8/18/2006 12:48	8.09425	4.51715	0.732511	2051.03
8/18/2006 12:48	8.09425	4.51715	1.09877	2063.24
8/18/2006 12:48	8.09425	4.51715	1.09877	2055.92
8/18/2006 12:48	8.09425	4.51715	0.732511	2073.01
8/18/2006 12:49	7.99353	4.51715	0.732511	2060.8
8/18/2006 12:49	7.99353	4.51715	0.976682	2071.79
8/18/2006 12:49	7.99353	4.51715	1.09877	2077.89
8/18/2006 12:49	7.99353	4.51715	0.976682	2068.12
8/18/2006 12:50	7.99353	4.51715	0.732511	2081.55
8/18/2006 12:50	7.99353	4.51715	0.976682	2068.12
8/18/2006 12:50	7.99353	4.51715	0.976682	2074.23
8/18/2006 12:50	7.99353	4.51715	0.854597	2085.22
8/18/2006 12:51	7.99353	4.51715	0.976682	2087.66
8/18/2006 12:51	7.99353	4.51715	0.976682	2090.1
8/18/2006 12:51	7.99353	4.51715	0.854597	2092.54
8/18/2006 12:51	7.99353	4.51715	1.09877	2118.18
8/18/2006 12:52	7.99353	4.51715	0.732511	2093.76
8/18/2006 12:52	7.99353	4.51715	1.22085	2097.42
8/18/2006 12:52	7.99353	4.51715	0.732511	2112.07
8/18/2006 12:52	7.99353	4.51715	1.09877	2107.19
8/18/2006 12:53	7.99353	4.51715	0.610426	2114.52
8/18/2006 12:53	7.99353	4.51715	1.22085	2124.28

John Zinc Inlet Raw Data
Run 1

8/18/2006 12:53	7.99353	4.51715	0.732511	2103.53
8/18/2006 12:53	7.99353	4.51715	1.09877	2114.52
8/18/2006 12:54	7.99353	4.51715	0.732511	2130.39
8/18/2006 12:54	7.99353	4.51715	1.09877	2116.96
8/18/2006 12:54	7.99353	4.51715	0.732511	2131.61
8/18/2006 12:54	7.99353	4.51715	0.976682	2131.61
8/18/2006 12:55	7.99353	4.51715	0.976682	2118.18
8/18/2006 12:55	7.99353	4.51715	0.732511	2116.96
8/18/2006 12:55	7.99353	4.51715	1.09877	2126.72
8/18/2006 12:55	7.99353	4.51715	1.09877	2141.37
8/18/2006 12:56	7.99353	4.51715	0.732511	2140.15
8/18/2006 12:56	7.99353	4.51715	0.976682	2137.71
8/18/2006 12:56	7.99353	4.51715	1.22085	2132.83
8/18/2006 12:56	7.99353	4.51715	0.976682	2149.92
8/18/2006 12:57	7.99353	4.51715	0.732511	2142.6
8/18/2006 12:57	7.99353	4.51715	1.22085	2132.83
8/18/2006 12:57	7.99353	4.51715	1.22085	2163.35
8/18/2006 12:57	7.99353	4.51715	1.09877	2151.14
8/18/2006 12:58	7.99353	4.51715	0.732511	2152.36
8/18/2006 12:58	7.99353	4.51715	0.854597	2162.13
8/18/2006 12:58	7.99353	4.51715	1.09877	2165.79
8/18/2006 12:58	7.99353	4.51715	0.732511	2156.02
8/18/2006 12:59	7.99353	4.51715	0.854597	2164.57
8/18/2006 12:59	7.99353	4.51715	0.732511	2179.22
8/18/2006 12:59	7.99353	4.51715	1.09877	2162.13
8/18/2006 12:59	7.99353	4.51715	1.09877	2167.01
8/18/2006 13:00	7.99353	4.51715	0.976682	2175.56
8/18/2006 13:00	8.09425	4.51715	0.854597	2158.47
8/18/2006 13:00	8.09425	4.51715	0.976682	2178
8/18/2006 13:00	7.99353	4.51715	1.09877	2181.66
8/18/2006 13:01	7.99353	4.51715	0.732511	2197.53
8/18/2006 13:01	7.99353	4.51715	1.22085	2181.66
8/18/2006 13:01	7.99353	4.51715	0.854597	2180.44
8/18/2006 13:01	7.99353	4.51715	0.976682	2203.64
8/18/2006 13:02	7.99353	4.51715	0.976682	2180.44
8/18/2006 13:02	7.99353	4.51715	1.09877	2192.65
8/18/2006 13:02	7.99353	4.51715	0.976682	2206.08
8/18/2006 13:02	7.99353	4.51715	0.854597	2197.53
8/18/2006 13:03	7.99353	4.51715	1.09877	2199.98
8/18/2006 13:03	7.99353	4.51715	1.22085	2209.74
8/18/2006 13:03	7.99353	4.51715	1.09877	2212.18
8/18/2006 13:03	7.99353	4.51715	0.854597	2201.2
8/18/2006 13:04	7.99353	4.51715	0.732511	2206.08
8/18/2006 13:04	7.99353	4.61726	1.09877	2226.83

John Zinc Inlet Raw Data
Run 1

8/18/2006 13:04	7.99353	4.61726	0.732511	2208.52
8/18/2006 13:04	7.99353	4.61726	1.09877	2215.85
8/18/2006 13:05	7.99353	4.61726	0.976682	2228.06
8/18/2006 13:05	7.99353	4.61726	1.09877	2228.06
8/18/2006 13:05	7.99353	4.61726	1.09877	2208.52
8/18/2006 13:05	7.99353	4.61726	0.732511	2229.28
8/18/2006 13:06	7.99353	4.61726	1.22085	2235.38
8/18/2006 13:06	7.99353	4.61726	0.854597	2230.5
8/18/2006 13:06	7.99353	4.61726	1.22085	2237.82
8/18/2006 13:06	7.99353	4.61726	0.732511	2240.26
8/18/2006 13:07	7.99353	4.61726	0.976682	2237.82
8/18/2006 13:07	7.99353	4.61726	1.22085	2240.26
8/18/2006 13:07	7.99353	4.61726	0.732511	2248.81
8/18/2006 13:07	7.99353	4.61726	0.976682	2236.6
8/18/2006 13:08	7.99353	4.61726	1.09877	2237.82
8/18/2006 13:08	7.99353	4.61726	0.854597	2262.24
8/18/2006 13:08	8.09425	4.61726	0.732511	2261.02
8/18/2006 13:08	8.09425	4.61726	1.09877	2246.37
8/18/2006 13:09	8.09425	4.61726	1.22085	2265.9
8/18/2006 13:09	8.09425	4.61726	1.34294	2268.34
8/18/2006 13:09	8.09425	4.61726	0.854597	2258.58
8/18/2006 13:09	8.09425	4.61726	0.854597	2254.91
8/18/2006 13:10	8.09425	4.61726	0.854597	2254.91
8/18/2006 13:10	8.09425	4.61726	1.34294	2270.79
8/18/2006 13:10	8.09425	4.61726	0.854597	2270.79
8/18/2006 13:10	8.09425	4.61726	1.22085	2265.9
8/18/2006 13:11	8.09425	4.61726	0.854597	2264.68
8/18/2006 13:11	8.09425	4.61726	0.976682	2273.23
8/18/2006 13:11	8.09425	4.61726	0.732511	2284.21
8/18/2006 13:11	8.09425	4.61726	0.732511	2272.01
8/18/2006 13:12	8.09425	4.61726	1.22085	2287.88
8/18/2006 13:12	8.09425	4.61726	0.976682	2275.67
8/18/2006 13:12	8.09425	4.61726	0.732511	2281.77
8/18/2006 13:12	8.09425	4.61726	1.22085	2279.33
8/18/2006 13:13	8.09425	4.61726	0.976682	2267.12
8/18/2006 13:13	8.09425	4.61726	0.854597	2282.99
8/18/2006 13:13	8.09425	4.61726	0.976682	2287.88
8/18/2006 13:13	8.09425	4.61726	0.732511	2276.89
8/18/2006 13:14	8.09425	4.61726	1.09877	2297.64
8/18/2006 13:14	8.09425	4.61726	0.732511	2298.86
8/18/2006 13:14	8.09425	4.61726	1.34294	2284.21
8/18/2006 13:14	8.09425	4.61726	0.732511	2296.42
8/18/2006 13:15	8.09425	4.61726	1.22085	2307.41
8/18/2006 13:15	8.09425	4.61726	0.976682	2290.32

John Zinc Inlet Raw Data
Run 1

8/18/2006 13:15	8.09425	4.61726	0.854597	2308.63
8/18/2006 13:15	8.09425	4.61726	1.09877	2303.75
8/18/2006 13:16	8.09425	4.61726	0.732511	2296.42
8/18/2006 13:16	8.09425	4.61726	1.34294	2302.53
8/18/2006 13:16	8.09425	4.61726	0.732511	2323.28
8/18/2006 13:16	8.09425	4.61726	1.22085	2308.63
8/18/2006 13:17	8.09425	4.61726	0.854597	2311.07
8/18/2006 13:17	8.09425	4.61726	1.22085	2319.62
8/18/2006 13:17	8.09425	4.61726	0.976682	2312.29
8/18/2006 13:17	8.09425	4.61726	1.22085	2324.5
8/18/2006 13:18	8.09425	4.61726	0.976682	2322.06
8/18/2006 13:18	8.09425	4.61726	1.22085	2323.28
8/18/2006 13:18	8.09425	4.61726	0.976682	2336.71
8/18/2006 13:18	8.09425	4.61726	0.732511	2319.62
8/18/2006 13:19	8.09425	4.61726	1.09877	2333.05
8/18/2006 13:19	8.09425	4.61726	1.22085	2336.71
8/18/2006 13:19	8.09425	4.61726	1.09877	2337.93
8/18/2006 13:19	8.09425	4.61726	0.854597	2330.61
8/18/2006 13:20	8.09425	4.61726	0.976682	2326.94
8/18/2006 13:20	8.09425	4.61726	0.854597	2339.15
8/18/2006 13:20	8.09425	4.61726	0.732511	2342.82
8/18/2006 13:20	8.09425	4.61726	1.09877	2342.82
8/18/2006 13:21	8.19802	4.61726	1.09877	2334.27
8/18/2006 13:21	8.19802	4.61726	0.854597	2346.48
8/18/2006 13:21	8.19802	4.61726	1.22085	2333.05
8/18/2006 13:21	8.19802	4.61726	0.854597	2341.59
8/18/2006 13:22	8.19802	4.61726	0.732511	2352.58
8/18/2006 13:22	8.19802	4.61726	1.22085	2346.48
8/18/2006 13:22	8.19802	4.61726	1.09877	2346.48
8/18/2006 13:22	8.19802	4.61726	1.22085	2353.8
8/18/2006 13:23	8.19802	4.61726	1.09877	2345.26
8/18/2006 13:23	8.19802	4.61726	0.732511	2347.7
8/18/2006 13:23	8.19802	4.61726	1.22085	2362.35
8/18/2006 13:23	8.19802	4.61726	1.09877	2356.24
8/18/2006 13:24	8.19802	4.61726	0.854597	2359.91
8/18/2006 13:24	8.29874	4.61726	0.854597	2350.14
8/18/2006 13:24	8.29874	4.61726	1.22085	2339.15
8/18/2006 13:24	8.29874	4.61726	0.732511	2356.24
8/18/2006 13:25	8.29874	4.61726	1.22085	2347.7
8/18/2006 13:25	8.29874	4.61726	0.854597	2350.14
8/18/2006 13:25	8.29874	4.61726	1.09877	2366.01
8/18/2006 13:25	8.29874	4.61726	0.976682	2350.14
8/18/2006 13:26	8.29874	4.61726	1.22085	2363.57
8/18/2006 13:26	8.29874	4.61726	0.732511	2341.59

John Zinc Inlet Raw Data
Run 1

8/18/2006 13:26	8.29874	4.61726	0.976682	2356.24
8/18/2006 13:26	8.29874	4.61726	1.34294	2373.34
8/18/2006 13:27	8.29874	4.61726	1.22085	2340.37
8/18/2006 13:27	8.29874	4.61726	1.09877	2345.26
8/18/2006 13:27	8.29874	4.61726	0.976682	2362.35
8/18/2006 13:27	8.29874	4.61726	1.22085	2362.35
8/18/2006 13:28	8.29874	4.61726	1.09877	2361.13
8/18/2006 13:28	8.29874	4.61726	0.976682	2363.57
8/18/2006 13:28	8.29874	4.61726	0.976682	2362.35
8/18/2006 13:28	8.29874	4.61726	0.732511	2374.56
8/18/2006 13:29	8.29874	4.61726	0.732511	2353.8
8/18/2006 13:29	8.29874	4.61726	1.09877	2373.34
8/18/2006 13:29	8.29874	4.61726	1.22085	2369.67
8/18/2006 13:29	8.29874	4.61726	0.976682	2384.32
8/18/2006 13:30	8.29874	4.61726	0.732511	2366.01
8/18/2006 13:30	8.29874	4.61726	0.976682	2358.69
8/18/2006 13:30	8.29874	4.61726	1.22085	2370.89
8/18/2006 13:30	8.39946	4.61726	0.854597	2385.55
8/18/2006 13:31	8.39946	4.61726	1.22085	2367.23
8/18/2006 13:31	8.39946	4.61726	1.09877	2378.22
8/18/2006 13:31	8.39946	4.61726	0.854597	2390.43
8/18/2006 13:31	8.39946	4.61726	0.976682	2377
8/18/2006 13:32	8.39946	4.61726	1.09877	2378.22
8/18/2006 13:32	8.39946	4.61726	0.854597	2369.67
8/18/2006 13:32	8.39946	4.61726	0.854597	2378.22
8/18/2006 13:32	8.39946	4.61726	1.34294	2381.88
8/18/2006 13:33	8.39946	4.61726	1.22085	2374.56
8/18/2006 13:33	8.39946	4.61726	1.22085	2386.77
8/18/2006 13:33	8.39946	4.61726	1.34294	2370.89
8/18/2006 13:33	8.39946	4.61726	0.976682	2379.44
8/18/2006 13:34	8.39946	4.61726	1.09877	2386.77
8/18/2006 13:34	8.50018	4.61726	0.976682	2373.34
8/18/2006 13:34	8.50018	4.61726	1.22085	2403.86
8/18/2006 13:34	8.50018	4.61726	1.34294	2395.31
8/18/2006 13:35	8.50018	4.61726	1.34294	2384.32
8/18/2006 13:35	8.39946	4.61726	1.09877	2406.3
8/18/2006 13:35	8.39946	4.61726	0.854597	2390.43
8/18/2006 13:35	8.39946	4.61726	0.854597	2385.55
8/18/2006 13:36	8.39946	4.61726	0.610426	2398.97
8/18/2006 13:36	8.39946	4.61726	0.732511	2383.1
8/18/2006 13:36	8.39946	4.61726	0.976682	2373.34
8/18/2006 13:36	8.50018	4.61726	1.46502	2398.97
8/18/2006 13:37	8.50018	4.61726	0.732511	2395.31
8/18/2006 13:37	8.50018	4.61726	0.854597	2378.22

John Zinc Inlet Raw Data
Run 1

8/18/2006 13:37	8.50018	4.61726	0.854597	2395.31
8/18/2006 13:37	8.50018	4.61726	1.22085	2406.3
8/18/2006 13:38	8.50018	4.61726	1.22085	2400.2
8/18/2006 13:38	8.6009	4.61726	0.976682	2400.2
8/18/2006 13:38	8.6009	4.61726	0.976682	2411.18
8/18/2006 13:38	8.6009	4.61726	0.976682	2403.86
8/18/2006 13:39	8.6009	4.61726	0.854597	2387.99
8/18/2006 13:39	8.6009	4.61726	1.22085	2412.4
8/18/2006 13:39	8.6009	4.61726	0.976682	2402.64
8/18/2006 13:39	8.6009	4.61726	1.09877	2417.29
8/18/2006 13:40	8.6009	4.61726	1.22085	2398.97
8/18/2006 13:40	8.6009	4.61726	0.976682	2408.74
8/18/2006 13:40	8.6009	4.61726	0.854597	2409.96
8/18/2006 13:40	8.6009	4.61726	1.09877	2400.2
8/18/2006 13:41	8.6009	4.61726	1.22085	2409.96
8/18/2006 13:41	8.6009	4.61726	0.854597	2413.62
8/18/2006 13:41	8.6009	4.61726	1.34294	2416.07
8/18/2006 13:41	8.6009	4.61726	0.854597	2402.64
8/18/2006 13:42	8.6009	4.61726	0.732511	2405.08
8/18/2006 13:42	8.6009	4.61726	0.854597	2422.17
8/18/2006 13:42	8.6009	4.61726	1.09877	2416.07
8/18/2006 13:42	8.6009	4.61726	0.854597	2412.4
8/18/2006 13:43	8.6009	4.61726	1.22085	2413.62
8/18/2006 13:43	8.70162	4.61726	1.22085	2422.17
8/18/2006 13:43	8.70162	4.61726	1.46502	2419.73
8/18/2006 13:43	8.70162	4.61726	1.22085	2416.07
8/18/2006 13:44	8.70162	4.61726	1.34294	2422.17
8/18/2006 13:44	8.70162	4.61726	1.09877	2405.08
8/18/2006 13:44	8.70162	4.61726	1.09877	2413.62
8/18/2006 13:44	8.70162	4.61726	1.09877	2427.05
8/18/2006 13:45	8.70162	4.61726	0.976682	2416.07
8/18/2006 13:45	8.70162	4.61726	0.854597	2434.38
8/18/2006 13:45	8.70162	4.61726	0.732511	2439.26
8/18/2006 13:45	8.70162	4.61726	0.854597	2449.03
8/18/2006 13:46	8.70162	4.61726	0.732511	2431.94
8/18/2006 13:46	8.8054	4.61726	0.976682	2423.39
8/18/2006 13:46	8.8054	4.61726	1.09877	2446.59
8/18/2006 13:46	8.8054	4.61726	0.976682	2442.93
8/18/2006 13:47	8.8054	4.61726	0.854597	2425.83
8/18/2006 13:47	8.8054	4.61726	0.854597	2438.04
8/18/2006 13:47	8.8054	4.61726	0.610426	2414.85
8/18/2006 13:47	8.8054	4.61726	0.854597	2440.48
8/18/2006 13:48	8.8054	4.61726	0.976682	2417.29
8/18/2006 13:48	8.8054	4.61726	1.09877	2436.82

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Run 1

8/18/2006 13:48	8.91222	4.61726	0.732511	2427.05
8/18/2006 13:48	8.91222	4.61726	0.854597	2433.16
8/18/2006 13:49	8.91222	4.61726	0.854597	2439.26
8/18/2006 13:49	8.91222	4.61726	1.22085	2427.05
8/18/2006 13:49	8.91222	4.61726	1.09877	2447.81
8/18/2006 13:49	8.91222	4.51715	0.732511	2422.17
8/18/2006 13:50	8.91222	4.51715	0.854597	2431.94
8/18/2006 13:50	8.91222	4.51715	1.22085	2423.39
8/18/2006 13:50	8.91222	4.51715	0.854597	2436.82
8/18/2006 13:50	8.91222	4.51715	0.976682	2431.94
8/18/2006 13:51	8.91222	4.51715	1.09877	2439.26
8/18/2006 13:51	8.91222	4.51715	0.976682	2436.82
8/18/2006 13:51	8.91222	4.51715	0.610426	2409.96
8/18/2006 13:51	8.91222	4.51715	1.09877	2439.26
8/18/2006 13:52	8.91222	4.51715	1.09877	2419.73
8/18/2006 13:52	8.91222	4.51715	1.09877	2424.61
8/18/2006 13:52	8.91222	4.51715	1.34294	2436.82
8/18/2006 13:52	8.91222	4.51715	1.22085	2422.17
8/18/2006 13:53	8.91222	4.51715	0.976682	2442.93
8/18/2006 13:53	8.91222	4.51715	0.854597	2419.73
8/18/2006 13:53	8.91222	4.51715	0.976682	2446.59
8/18/2006 13:53	8.91222	4.51715	1.09877	2408.74
8/18/2006 13:54	8.91222	4.51715	1.22085	2427.05
8/18/2006 13:54	8.91222	4.51715	0.854597	2407.52
8/18/2006 13:54	8.91222	4.51715	0.732511	2424.61
8/18/2006 13:54	9.01294	4.51715	0.976682	2433.16
8/18/2006 13:55	9.01294	4.51715	1.09877	2428.27
8/18/2006 13:55	9.01294	4.51715	0.732511	2418.51
8/18/2006 13:55	9.01294	4.51715	0.976682	2436.82
8/18/2006 13:55	9.01294	4.51715	1.09877	2416.07
8/18/2006 13:56	9.01294	4.51715	0.854597	2420.95
8/18/2006 13:56	9.01294	4.51715	0.976682	2423.39
8/18/2006 13:56	9.01294	4.51715	1.09877	2419.73
8/18/2006 13:56	9.01294	4.51715	0.732511	2417.29
8/18/2006 13:57	9.01294	4.51715	0.732511	2391.65
8/18/2006 13:57	9.01294	4.51715	1.09877	2417.29
8/18/2006 13:57	9.01294	4.51715	1.22085	2419.73
8/18/2006 13:57	9.01294	4.51715	1.09877	2424.61
8/18/2006 13:58	9.01294	4.51715	1.22085	2425.83
8/18/2006 13:58	9.01294	4.51715	0.732511	2403.86
8/18/2006 13:58	9.01294	4.51715	1.22085	2422.17
8/18/2006 13:58	9.01294	4.51715	0.854597	2416.07
8/18/2006 13:59	9.01294	4.51715	0.976682	2406.3
8/18/2006 13:59	9.11366	4.51715	0.976682	2413.62

John Zinc Inlet Raw Data
Run 1

8/18/2006 13:59	9.11366	4.51715	0.854597	2403.86
8/18/2006 13:59	9.11366	4.51715	0.854597	2416.07
8/18/2006 14:00	9.11366	4.51715	0.976682	2386.77
8/18/2006 14:00	9.11366	4.51715	1.34294	2412.4
8/18/2006 14:00	9.11366	4.51715	0.732511	2406.3
8/18/2006 14:00	9.11366	4.51715	1.22085	2398.97
8/18/2006 14:01	9.11366	4.51715	0.854597	2413.62
8/18/2006 14:01	9.11366	4.51715	1.09877	2403.86
8/18/2006 14:01	9.11366	4.51715	0.854597	2423.39
8/18/2006 14:01	9.11366	4.51715	0.732511	2390.43
8/18/2006 14:02	9.11366	4.51715	0.976682	2406.3
8/18/2006 14:02	9.11366	4.51715	0.976682	2387.99
8/18/2006 14:02	9.21438	4.51715	0.732511	2403.86
8/18/2006 14:02	9.21438	4.51715	1.09877	2406.3
8/18/2006 14:03	9.21438	4.51715	0.854597	2407.52
8/18/2006 14:03	9.21438	4.51715	0.854597	2408.74
8/18/2006 14:03	9.21438	4.51715	1.09877	2405.08
8/18/2006 14:03	9.21438	4.51715	0.732511	2407.52
8/18/2006 14:04	9.21438	4.51715	1.09877	2402.64
8/18/2006 14:04	9.21438	4.51715	0.732511	2409.96
8/18/2006 14:04	9.21438	4.51715	1.09877	2402.64
8/18/2006 14:04	9.3151	4.51715	0.854597	2411.18
8/18/2006 14:05	9.3151	4.51715	0.854597	2403.86
8/18/2006 14:05	9.3151	4.51715	1.22085	2412.4
8/18/2006 14:05	9.3151	4.51715	0.732511	2409.96
8/18/2006 14:05	9.3151	4.51715	0.854597	2397.75
8/18/2006 14:06	9.3151	4.51715	1.09877	2417.29
8/18/2006 14:06	9.3151	4.51715	1.09877	2400.2
8/18/2006 14:06	9.3151	4.51715	0.732511	2420.95
8/18/2006 14:06	9.3151	4.51715	0.732511	2402.64
8/18/2006 14:07	9.3151	4.51715	0.732511	2407.52
8/18/2006 14:07	9.3151	4.51715	0.854597	2405.08
8/18/2006 14:07	9.3151	4.51715	0.854597	2416.07
8/18/2006 14:07	9.3151	4.51715	1.09877	2401.42
8/18/2006 14:08	9.3151	4.51715	1.22085	2413.62
8/18/2006 14:08	9.3151	4.51715	1.09877	2413.62
8/18/2006 14:08	9.41582	4.51715	0.854597	2395.31
8/18/2006 14:08	9.41582	4.51715	1.09877	2414.85
8/18/2006 14:09	9.41582	4.51715	0.732511	2412.4
8/18/2006 14:09	9.41582	4.51715	0.732511	2407.52
8/18/2006 14:09	9.41582	4.51715	0.854597	2417.29
8/18/2006 14:09	9.41582	4.51715	0.610426	2408.74
8/18/2006 14:10	9.41582	4.51715	0.976682	2405.08
8/18/2006 14:10	9.41582	4.51715	1.22085	2428.27

John Zinc Inlet Raw Data
Run 1

8/18/2006 14:10	9.41582	4.51715	0.854597	2417.29
8/18/2006 14:10	9.41582	4.51715	0.854597	2419.73
8/18/2006 14:11	9.41582	4.51715	1.09877	2401.42
8/18/2006 14:11	9.41582	4.51715	0.976682	2429.5
8/18/2006 14:11	9.41582	4.51715	0.732511	2406.3
8/18/2006 14:11	9.41582	4.51715	1.22085	2428.27
8/18/2006 14:12	9.41582	4.51715	0.610426	2473.45
8/18/2006 14:12	9.41582	4.51715	1.22085	2409.96
8/18/2006 14:12	9.41582	4.51715	0.976682	2413.62
8/18/2006 14:12	9.41582	4.51715	0.732511	2420.95
8/18/2006 14:13	9.41582	4.51715	0.854597	2416.07
8/18/2006 14:13	9.41582	4.51715	1.09877	2422.17
8/18/2006 14:13	9.41582	4.51715	0.976682	2424.61
8/18/2006 14:13	9.41582	4.51715	0.854597	2412.4
8/18/2006 14:14	9.51959	4.51715	0.854597	2408.74
8/18/2006 14:14	9.51959	4.51715	1.22085	2412.4
8/18/2006 14:14	9.51959	4.51715	1.09877	2425.83
8/18/2006 14:14	9.51959	4.41704	0.854597	2403.86
8/18/2006 14:15	9.62337	4.41704	0.854597	2416.07
8/18/2006 14:15	9.62337	4.41704	0.976682	2411.18
8/18/2006 14:15	9.62337	4.41704	0.854597	2430.72
8/18/2006 14:15	9.62337	4.41704	1.09877	2420.95
8/18/2006 14:16	9.62337	4.41704	1.09877	2412.4
8/18/2006 14:16	9.62337	4.41704	1.09877	2422.17
8/18/2006 14:16	9.62337	4.41704	1.22085	2400.2
8/18/2006 14:16	9.62337	4.41704	1.09877	2420.95
8/18/2006 14:17	9.62337	4.41704	0.732511	2419.73
8/18/2006 14:17	9.62337	4.41704	0.854597	2400.2
8/18/2006 14:17	9.62337	4.41704	0.854597	2411.18
8/18/2006 14:17	9.62337	4.41704	0.854597	2402.64
8/18/2006 14:18	9.62337	4.41704	1.09877	2414.85
8/18/2006 14:18	9.72714	4.41704	1.22085	2408.74
8/18/2006 14:18	9.72714	4.41704	1.09877	2412.4
8/18/2006 14:18	9.72714	4.41704	1.09877	2427.05
8/18/2006 14:19	9.62642	4.41704	0.976682	2407.52
8/18/2006 14:19	9.62642	4.41704	1.22085	2424.61
8/18/2006 14:19	9.62642	4.41704	0.976682	2422.17
8/18/2006 14:19	9.62642	4.41704	0.732511	2392.87
8/18/2006 14:20	9.62642	4.41704	0.854597	2420.95
8/18/2006 14:20	9.62642	4.41704	0.854597	2414.85
8/18/2006 14:20	9.62642	4.41704	0.976682	2411.18
8/18/2006 14:20	9.62642	4.41704	1.22085	2417.29
8/18/2006 14:21	9.62642	4.41704	0.854597	2420.95
8/18/2006 14:21	9.62642	4.41704	0.854597	2425.83

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Run 1

8/18/2006 14:21	9.62642	4.41704	1.22085	2405.08
8/18/2006 14:21	9.62642	4.41704	0.732511	2427.05
8/18/2006 14:22	9.62642	4.41704	0.976682	2408.74
8/18/2006 14:22	9.62642	4.41704	1.22085	2434.38
8/18/2006 14:22	9.62642	4.41704	0.610426	2356.24
8/18/2006 14:22	9.62642	4.41704	0.732511	2341.59
8/18/2006 14:23	9.72714	4.64168	0.976682	2361.13
8/18/2006 14:23	9.37309	4.64168	0.976682	2328.17
8/18/2006 14:23	9.37309	4.64168	0.732511	2324.5
8/18/2006 14:23	9.47992	4.64168	0.976682	2342.82
8/18/2006 14:24	9.58064	4.54157	1.09877	2341.59
8/18/2006 14:24	9.58064	4.54157	0.732511	2344.04
8/18/2006 14:24	9.58064	4.54157	0.732511	2336.71
8/18/2006 14:24	9.58064	4.54157	0.610426	2355.02
8/18/2006 14:25	9.58064	4.43658	0.976682	2347.7
8/18/2006 14:25	9.68441	4.43658	1.09877	2356.24
8/18/2006 14:25	9.68441	4.43658	0.854597	2368.45
8/18/2006 14:25	9.68441	4.43658	0.854597	2342.82
8/18/2006 14:26	9.68441	4.43658	0.610426	2395.31
8/18/2006 14:26	9.68441	4.43658	0.488341	2364.79
8/18/2006 14:26	9.68441	4.43658	1.09877	2356.24
8/18/2006 14:26	9.68441	4.43658	0.976682	2366.01
8/18/2006 14:27	9.68441	4.43658	0.610426	2339.15
8/18/2006 14:27	9.68441	4.43658	1.09877	2372.12
8/18/2006 14:27	9.68441	4.43658	1.09877	2363.57
8/18/2006 14:27	9.68441	4.43658	0.976682	2350.14
8/18/2006 14:28	9.68441	4.43658	0	2370.89
8/18/2006 14:28	9.78513	4.43658	0.732511	2359.91
8/18/2006 14:28	9.78513	4.43658	0.854597	2368.45
8/18/2006 14:28	9.78513	4.43658	0.854597	2384.32
8/18/2006 14:29	9.78513	4.43658	0.976682	2359.91
8/18/2006 14:29	9.78513	4.43658	0.732511	2379.44
8/18/2006 14:29	9.78513	4.43658	1.09877	2387.99
8/18/2006 14:29	9.78513	4.43658	0.854597	2370.89
8/18/2006 14:30	9.78513	4.43658	0.732511	2387.99
8/18/2006 14:30	9.78513	4.43658	1.09877	2378.22
8/18/2006 14:30	9.78513	4.43658	0.976682	2381.88
8/18/2006 14:30	9.78513	4.43658	0.732511	2370.89
8/18/2006 14:31	9.78513	4.43658	0.732511	2366.01
8/18/2006 14:31	9.78513	4.43658	1.22085	2372.12
8/18/2006 14:31	9.78513	4.43658	0.732511	2387.99
8/18/2006 14:31	9.78513	4.43658	1.09877	2379.44
8/18/2006 14:32	9.78513	4.43658	0.854597	2381.88
8/18/2006 14:32	9.78513	4.43658	0.854597	2387.99

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Run 1

8/18/2006 14:32	9.78513	4.43658	0.610426	2379.44
8/18/2006 14:32	9.78513	4.43658	0.976682	2395.31
8/18/2006 14:33	9.78513	4.43658	0.854597	2384.32
8/18/2006 14:33	9.78513	4.43658	0.732511	2398.97
8/18/2006 14:33	9.78513	4.43658	1.09877	2379.44
8/18/2006 14:33	9.78513	4.43658	1.09877	2402.64
8/18/2006 14:34	9.78513	4.43658	0.976682	2379.44
8/18/2006 14:34	9.78513	4.43658	0.976682	2402.64
8/18/2006 14:34	9.88585	4.43658	1.09877	2390.43
8/18/2006 14:34	9.88585	4.43658	0.976682	2403.86
8/18/2006 14:35	9.88585	4.43658	0.732511	2390.43
8/18/2006 14:35	9.88585	4.43658	0.976682	2402.64
8/18/2006 14:35	9.88585	4.43658	0.976682	2394.09
8/18/2006 14:35	9.88585	4.43658	0.732511	2380.66
8/18/2006 14:36	9.88585	4.43658	0.732511	2400.2
8/18/2006 14:36	9.88585	4.43658	0.976682	2385.55
8/18/2006 14:36	9.88585	4.43658	1.09877	2408.74
8/18/2006 14:36	9.88585	4.43658	0.732511	2389.21
8/18/2006 14:37	9.88585	4.43658	1.09877	2411.18
8/18/2006 14:37	9.88585	4.43658	0.976682	2391.65
8/18/2006 14:37	9.88585	4.43658	0.976682	2419.73
8/18/2006 14:37	9.88585	4.43658	0.976682	2395.31
8/18/2006 14:38	9.88585	4.43658	0.610426	2367.23
8/18/2006 14:38	9.88585	4.43658	0.610426	2322.06
8/18/2006 14:38	9.88585	4.54157	0.610426	2336.71
8/18/2006 14:38	10.0964	4.89562	0.610426	2359.91
8/18/2006 14:39	10.2033	4.99573	0.610426	2340.37
8/18/2006 14:39	10.4169	4.7833	0.610426	2379.44
8/18/2006 14:39	10.7404	4.67831	0.854597	2389.21
8/18/2006 14:39	10.8473	4.57331	1.09877	2400.2
8/18/2006 14:40	11.0579	4.4732	0.854597	2411.18
8/18/2006 14:40	11.0579	4.37309	0.610426	2409.96
8/18/2006 14:40	11.1616	4.37309	0.488341	2416.07
8/18/2006 14:40	11.1616	4.37309	0.732511	2403.86
8/18/2006 14:41	11.1616	4.37309	0.732511	2430.72
8/18/2006 14:41	11.1616	4.37309	0.976682	2418.51
8/18/2006 14:41	11.1616	4.37309	0.854597	2434.38
8/18/2006 14:41	11.1616	4.37309	0.610426	2428.27
8/18/2006 14:42	11.1616	4.37309	0.732511	2433.16
8/18/2006 14:42	11.2624	4.37309	0.976682	2428.27
8/18/2006 14:42	11.2624	4.37309	0.610426	2446.59
8/18/2006 14:42	11.2624	4.27298	0.976682	2433.16
8/18/2006 14:43	11.2624	4.27298	0.610426	2449.03
8/18/2006 14:43	11.2624	4.27298	0.610426	2442.93

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Run 1

8/18/2006 14:43	11.2624	4.27298	0.976682	2439.26
8/18/2006 14:43	11.2624	4.27298	0.854597	2455.13
8/18/2006 14:44	11.2624	4.27298	0.610426	2442.93
8/18/2006 14:44	11.2624	4.27298	0.976682	2457.58
8/18/2006 14:44	11.2624	4.27298	0.610426	2452.69
8/18/2006 14:44	11.2624	4.27298	0.976682	2467.34
8/18/2006 14:45	11.2624	4.27298	0.854597	2462.46
8/18/2006 14:45	11.2624	4.27298	0.610426	2449.03
8/18/2006 14:45	11.2624	4.27298	0.854597	2463.68
8/18/2006 14:45	11.2624	4.27298	0.732511	2457.58
8/18/2006 14:46	11.2624	4.27298	0.610426	2479.55
8/18/2006 14:46	11.2624	4.27298	0.854597	2461.24
8/18/2006 14:46	11.2624	4.27298	0.854597	2484.43
8/18/2006 14:46	11.2624	4.37309	0.610426	2461.24
8/18/2006 14:47	11.2624	4.37309	0.732511	2474.67
8/18/2006 14:47	11.2624	4.37309	1.09877	2457.58
8/18/2006 14:47	11.2624	4.37309	0.854597	2480.77
8/18/2006 14:47	11.2624	4.37309	0.610426	2464.9
8/18/2006 14:48	11.2624	4.37309	0.610426	2488.1
8/18/2006 14:48	11.2624	4.37309	0.610426	2478.33
8/18/2006 14:48	11.2624	4.37309	0.610426	2474.67
8/18/2006 14:48	11.2624	4.37309	0.854597	2492.98
8/18/2006 14:49	11.2624	4.37309	0.976682	2478.33
8/18/2006 14:49	11.2624	4.37309	0.732511	2496.64
8/18/2006 14:49	11.2624	4.37309	0.610426	2471
8/18/2006 14:49	11.2624	4.37309	0.976682	2505.19
8/18/2006 14:50	11.2624	4.37309	0.854597	2475.89
8/18/2006 14:50	11.2624	4.37309	0.732511	2506.41
8/18/2006 14:50	11.2624	4.37309	0.854597	2484.43
8/18/2006 14:50	11.2624	4.37309	0.610426	2499.08
8/18/2006 14:51	11.2624	4.37309	0.976682	2499.08
8/18/2006 14:51	11.2624	4.37309	0.732511	2499.08
8/18/2006 14:51	11.2624	4.37309	0.854597	2507.63
8/18/2006 14:51	11.2624	4.37309	0.610426	2497.86
8/18/2006 14:52	11.2624	4.37309	1.09877	2507.63
8/18/2006 14:52	11.2624	4.37309	0.732511	2484.43
8/18/2006 14:52	11.2624	4.37309	0.610426	2508.85
8/18/2006 14:52	11.2624	4.37309	0.610426	2506.41
8/18/2006 14:53	11.2624	4.37309	0.854597	2510.07
8/18/2006 14:53	11.2624	4.37309	0.854597	2522.28
8/18/2006 14:53	11.2624	4.37309	0.976682	2507.63
8/18/2006 14:53	11.2624	4.37309	0.854597	2518.62
8/18/2006 14:54	11.2624	4.37309	0.610426	2525.94
8/18/2006 14:54	11.2624	4.37309	0.976682	2518.62

John Zinc Inlet Raw Data
Run 1

8/18/2006 14:54	11.2624	4.37309	0.732511	2508.85
8/18/2006 14:54	11.2624	4.37309	0.732511	2502.75
8/18/2006 14:55	11.2624	4.37309	0.854597	2524.72
8/18/2006 14:55	11.3661	4.37309	0.976682	2546.7
8/18/2006 14:55	11.3661	4.37309	0.732511	2511.29
8/18/2006 14:55	11.3661	4.37309	0.976682	2528.38
8/18/2006 14:56	11.3661	4.37309	0.976682	2530.83
8/18/2006 14:56	11.3661	4.37309	0.610426	2513.73
8/18/2006 14:56	11.3661	4.37309	0.976682	2530.83
8/18/2006 14:56	11.3661	4.37309	0.732511	2519.84
8/18/2006 14:57	11.3661	4.37309	0.854597	2541.81
8/18/2006 14:57	11.3661	4.37309	0.610426	2519.84
8/18/2006 14:57	11.3661	4.37309	0.732511	2471
8/18/2006 14:57	11.3661	4.37309	1.09877	2430.72
8/18/2006 14:58	11.3661	4.37309	0.732511	2383.1
8/18/2006 14:58	11.3661	4.37309	1.09877	2352.58
8/18/2006 14:58	11.3661	4.37309	0.732511	2342.82
8/18/2006 14:58	11.3661	4.37309	0.854597	2303.75
8/18/2006 14:59	11.3661	4.37309	0.732511	2295.2
8/18/2006 14:59	11.3661	4.37309	0.488341	2254.91
8/18/2006 14:59	11.3661	4.37309	1.09877	2264.68
8/18/2006 14:59	11.3661	4.37309	0.732511	2224.39
8/18/2006 15:00	11.3661	4.37309	0.732511	2220.73
8/18/2006 15:00	11.3661	4.37309	0.610426	2195.09
8/18/2006 15:00	11.3661	4.37309	0.854597	2192.65
8/18/2006 15:00	11.4669	4.37309	1.09877	2164.57
8/18/2006 15:01	11.4669	4.37309	0.610426	2138.93
8/18/2006 15:01	11.4669	4.37309	0.732511	2142.6
8/18/2006 15:01	11.4669	4.37309	0.854597	2130.39
8/18/2006 15:01	11.4669	4.37309	0.732511	2104.75
8/18/2006 15:02	11.4669	4.37309	0.610426	2101.09
8/18/2006 15:02	11.4669	4.37309	0.854597	2099.87
8/18/2006 15:02	11.36	4.37309	1.09877	2085.22
8/18/2006 15:02	11.36	4.37309	0.732511	2088.88
8/18/2006 15:03	11.36	4.37309	0.732511	2070.57
8/18/2006 15:03	11.36	4.37309	1.09877	2065.68
8/18/2006 15:03	11.36	4.37309	0.610426	2054.69
8/18/2006 15:03	11.36	4.37309	0.976682	2038.82
8/18/2006 15:04	11.4607	4.37309	0.610426	2042.49
8/18/2006 15:04	11.4607	4.37309	0.854597	2026.61
8/18/2006 15:04	11.4607	4.37309	0.610426	2026.61
8/18/2006 15:04	11.4607	4.37309	0.854597	2022.95
8/18/2006 15:05	11.4607	4.37309	0.610426	1996.09
8/18/2006 15:05	11.4607	4.37309	0.976682	2015.63

John Zinc Inlet Raw Data
Run 1

8/18/2006 15:05	11.4607	4.37309	0.732511	1996.09
8/18/2006 15:05	11.4607	4.37309	0.732511	2005.86
8/18/2006 15:06	11.4607	4.37309	0.976682	1998.53
8/18/2006 15:06	11.4607	4.37309	0.610426	2005.86
8/18/2006 15:06	11.4607	4.37309	0.732511	1988.77
8/18/2006 15:06	11.4607	4.37309	0.854597	1976.56
8/18/2006 15:07	11.4607	4.37309	0.610426	1982.66
8/18/2006 15:07	11.4607	4.37309	0.976682	1969.23
8/18/2006 15:07	11.4607	4.37309	0.610426	1980.22
8/18/2006 15:07	11.4607	4.37309	0.854597	1968.01
8/18/2006 15:08	11.4607	4.37309	1.09877	1980.22
8/18/2006 15:08	11.4607	4.37309	0.610426	1964.35
8/18/2006 15:08	11.4607	4.37309	0.488341	1965.57
8/18/2006 15:08	11.4607	4.37309	0.610426	1954.58
8/18/2006 15:09	11.4607	4.37309	0.976682	1969.23
8/18/2006 15:09	11.4607	4.37309	0.976682	1952.14
8/18/2006 15:09	11.4607	4.37309	0.976682	1964.35
8/18/2006 15:09	11.4607	4.37309	0.610426	1957.03
8/18/2006 15:10	11.4607	4.37309	0.976682	1964.35
8/18/2006 15:10	11.4607	4.37309	0.610426	1948.48
8/18/2006 15:10	11.4607	4.37309	0.732511	1961.91
8/18/2006 15:10	11.4607	4.37309	0.854597	1961.91
8/18/2006 15:11	11.4607	4.37309	0.610426	1944.82
8/18/2006 15:11	11.5645	4.37309	0.976682	1952.14
8/18/2006 15:11	11.5645	4.37309	0.732511	1948.48
8/18/2006 15:11	11.5645	4.37309	0.854597	1947.26
8/18/2006 15:12	11.5645	4.37309	0.488341	1958.25
8/18/2006 15:12	11.5645	4.37309	0.732511	1950.92
8/18/2006 15:12	11.5645	4.37309	1.09877	1949.7
8/18/2006 15:12	11.5645	4.37309	0.732511	1943.6
8/18/2006 15:13	11.5645	4.37309	0.732511	1944.82
8/18/2006 15:13	11.5645	4.37309	0.976682	1961.91
8/18/2006 15:13	11.5645	4.37309	0.732511	1958.25
8/18/2006 15:13	11.5645	4.37309	0.854597	1942.38
8/18/2006 15:14	11.5645	4.37309	0.732511	1950.92
8/18/2006 15:14	11.5645	4.37309	0.732511	1958.25
8/18/2006 15:14	11.5645	4.37309	1.09877	1961.91
8/18/2006 15:14	11.5645	4.37309	0.610426	1955.81
8/18/2006 15:15	11.5645	4.37309	0.610426	1948.48
8/18/2006 15:15	11.5645	4.37309	1.09877	1955.81
8/18/2006 15:15	11.5645	4.37309	0.488341	1959.47
8/18/2006 15:15	11.5645	4.37309	0.976682	1958.25
8/18/2006 15:16	11.5645	4.37309	0.854597	1961.91
8/18/2006 15:16	11.5645	4.37309	0.732511	1959.47

John Zinc Inlet Raw Data
Run 1

8/18/2006 15:16	11.5645	4.37309	0.976682	1975.34
8/18/2006 15:16	11.5645	4.37309	0.610426	1957.03
8/18/2006 15:17	11.5645	4.37309	0.976682	1963.13
8/18/2006 15:17	11.5645	4.37309	0.610426	1961.91
8/18/2006 15:17	11.5645	4.37309	0.854597	1970.46
8/18/2006 15:17	11.5645	4.37309	0.976682	1953.36
8/18/2006 15:18	11.5645	4.37309	0.854597	1957.03
8/18/2006 15:18	11.5645	4.37309	0.610426	1966.79
8/18/2006 15:18	11.5645	4.37309	1.09877	1955.81
8/18/2006 15:18	11.5645	4.37309	0.610426	1955.81
8/18/2006 15:19	11.5645	4.37309	0.610426	1963.13
8/18/2006 15:19	11.5645	4.37309	0.854597	1963.13
8/18/2006 15:19	11.5645	4.37309	0.976682	1955.81
8/18/2006 15:19	11.5645	4.37309	0.610426	1960.69
8/18/2006 15:20	11.5645	4.37309	1.09877	1965.57
8/18/2006 15:20	11.5645	4.37309	0.610426	1958.25
8/18/2006 15:20	11.5645	4.37309	0.976682	1954.58
8/18/2006 15:20	11.5645	4.37309	0.610426	1965.57
8/18/2006 15:21	11.5645	4.37309	0.976682	1969.23
8/18/2006 15:21	11.5645	4.37309	0.976682	1953.36
8/18/2006 15:21	11.5645	4.37309	0.610426	1953.36
8/18/2006 15:21	11.5645	4.37309	1.09877	1964.35
8/18/2006 15:22	11.5645	4.37309	0.610426	1955.81
8/18/2006 15:22	11.5645	4.37309	0.976682	1954.58
8/18/2006 15:22	11.5645	4.37309	0.854597	1964.35
8/18/2006 15:22	11.5645	4.37309	0.610426	1964.35
8/18/2006 15:23	11.5645	4.37309	0.976682	1961.91
8/18/2006 15:23	11.5645	4.37309	0.732511	1963.13
8/18/2006 15:23	11.5645	4.37309	0.854597	1944.82
8/18/2006 15:23	11.5645	4.37309	0.976682	1953.36
8/18/2006 15:24	11.5645	4.37309	0.732511	1959.47
8/18/2006 15:24	11.5645	4.37309	0.976682	1948.48
8/18/2006 15:24	11.5645	4.37309	1.09877	1942.38
8/18/2006 15:24	11.5645	4.37309	0.610426	1955.81
8/18/2006 15:25	11.5645	4.37309	1.09877	1955.81
8/18/2006 15:25	11.5645	4.37309	0.610426	1941.15
8/18/2006 15:25	11.5645	4.37309	1.09877	1958.25
8/18/2006 15:25	11.5645	4.37309	0.610426	1936.27
8/18/2006 15:26	11.5645	4.37309	0.854597	1947.26
8/18/2006 15:26	11.5645	4.37309	0.854597	1943.6
8/18/2006 15:26	11.5645	4.37309	0.854597	1932.61
8/18/2006 15:26	11.6652	4.37309	0.610426	1947.26
8/18/2006 15:27	11.6652	4.37309	0.854597	1935.05
8/18/2006 15:27	11.6652	4.37309	0.976682	1935.05

John Zinc Inlet Raw Data
Run 1

8/18/2006 15:27	11.6652	4.37309	1.09877	1928.95
8/18/2006 15:27	11.6652	4.37309	0.610426	1917.96
8/18/2006 15:28	11.6652	4.37309	0.610426	1932.61
8/18/2006 15:28	11.6652	4.37309	0.610426	1925.28
8/18/2006 15:28	11.6652	4.37309	0.854597	1935.05
8/18/2006 15:28	11.6652	4.37309	0.976682	1927.73
8/18/2006 15:29	11.6652	4.37309	0.976682	1935.05
8/18/2006 15:29	11.6652	4.37309	0.854597	1919.18
8/18/2006 15:29	11.6652	4.37309	0.732511	1927.73
8/18/2006 15:29	11.6652	4.37309	0.732511	1922.84
8/18/2006 15:30	11.6652	4.37309	0.854597	1926.5
8/18/2006 15:30	11.6652	4.37309	0.854597	1917.96
8/18/2006 15:30	11.6652	4.37309	0.610426	1905.75
8/18/2006 15:30	11.766	4.37309	0.976682	1921.62
8/18/2006 15:31	11.766	4.37309	0.854597	1903.31
8/18/2006 15:31	11.766	4.37309	0.610426	1910.63
8/18/2006 15:31	11.766	4.37309	0.976682	1908.19
8/18/2006 15:31	11.766	4.37309	0.610426	1908.19
8/18/2006 15:32	11.766	4.37309	1.09877	1921.62
8/18/2006 15:32	11.766	4.37309	0.610426	1894.76
8/18/2006 15:32	11.766	4.37309	0.854597	1919.18
8/18/2006 15:32	11.766	4.37309	1.09877	1908.19
8/18/2006 15:33	11.766	4.37309	0.610426	1916.74
8/18/2006 15:33	11.766	4.37309	0.854597	1915.52
8/18/2006 15:33	11.766	4.37309	0.732511	1909.41
8/18/2006 15:33	11.766	4.37309	0.854597	1917.96
8/18/2006 15:34	11.766	4.37309	0.732511	1905.75
8/18/2006 15:34	11.8667	4.37309	0.976682	1905.75
8/18/2006 15:34	11.8667	4.37309	0.610426	1909.41
8/18/2006 15:34	11.8667	4.37309	0.854597	1892.32
8/18/2006 15:35	11.8667	4.37309	0.854597	1910.63
8/18/2006 15:35	11.8667	4.37309	0.732511	1900.87
8/18/2006 15:35	11.8667	4.37309	1.09877	1910.63
8/18/2006 15:35	11.8667	4.37309	0.610426	1902.09
8/18/2006 15:36	11.8667	4.37309	0.976682	1908.19
8/18/2006 15:36	11.8667	4.37309	0.854597	1916.74
8/18/2006 15:36	11.8667	4.37309	0.610426	1895.98
8/18/2006 15:36	11.8667	4.37309	0.732511	1916.74
8/18/2006 15:37	11.8667	4.37309	0.976682	1895.98
8/18/2006 15:37	11.8667	4.37309	0.976682	1916.74
8/18/2006 15:37	11.8667	4.37309	0.976682	1904.53
8/18/2006 15:37	11.8667	4.37309	0.610426	1904.53
8/18/2006 15:38	11.8667	4.37309	0.976682	1911.85
8/18/2006 15:38	11.8667	4.27298	0.610426	1900.87

John Zinc Inlet Raw Data
Run 1

8/18/2006 15:38	11.8667	4.27298	0.854597	1911.85
8/18/2006 15:38	11.8667	4.27298	0.610426	1904.53
8/18/2006 15:39	11.8667	4.27298	0.976682	1906.97
8/18/2006 15:39	11.8667	4.27298	0.732511	1900.87
8/18/2006 15:39	11.8667	4.27298	0.976682	1894.76
8/18/2006 15:39	11.8667	4.27298	0.610426	1902.09
8/18/2006 15:40	11.8667	4.27298	1.09877	1898.43
8/18/2006 15:40	11.8667	4.27298	0.610426	1906.97
8/18/2006 15:40	11.8667	4.27298	0.854597	1916.74
8/18/2006 15:40	11.8667	4.27298	1.09877	1908.19
8/18/2006 15:41	11.8667	4.27298	0.610426	1910.63
8/18/2006 15:41	11.8667	4.27298	0.854597	1909.41
8/18/2006 15:41	11.8667	4.27298	0.854597	1904.53
8/18/2006 15:41	11.8667	4.27298	0.610426	1892.32
8/18/2006 15:42	11.8667	4.27298	0.854597	1897.2
8/18/2006 15:42	11.8667	4.27298	1.09877	1900.87
8/18/2006 15:42	11.8667	4.27298	0.854597	1911.85
8/18/2006 15:42	11.9674	4.27298	0.854597	1917.96
8/18/2006 15:43	11.9674	4.27298	0.976682	1913.08
8/18/2006 15:43	11.9674	4.27298	0.732511	1895.98
8/18/2006 15:43	11.9674	4.27298	0.610426	1909.41
8/18/2006 15:43	11.9674	4.27298	0.854597	1905.75
8/18/2006 15:44	11.8606	4.27298	1.09877	1927.73
8/18/2006 15:44	11.8606	4.27298	0.854597	1913.08
8/18/2006 15:44	11.8606	4.27298	0.854597	1916.74
8/18/2006 15:44	11.8606	4.27298	1.09877	1895.98
8/18/2006 15:45	11.9644	4.27298	0.854597	1908.19
8/18/2006 15:45	11.9644	4.27298	0.610426	1905.75
8/18/2006 15:45	11.9644	4.27298	0.976682	1885
8/18/2006 15:45	11.9644	4.27298	0.732511	1899.65
8/18/2006 15:46	12.0651	4.27298	0.976682	1900.87
8/18/2006 15:46	12.0651	4.27298	0.854597	1889.88
8/18/2006 15:46	12.0651	4.27298	0.732511	1893.54
8/18/2006 15:46	12.0651	4.27298	0.732511	1908.19
8/18/2006 15:47	12.0651	4.27298	0.854597	1914.3
8/18/2006 15:47	12.0651	4.27298	0.976682	1892.32
8/18/2006 15:47	12.0651	4.27298	0.854597	1904.53
8/18/2006 15:47	12.0651	4.27298	0.610426	1898.43
8/18/2006 15:48	12.0651	4.27298	0.854597	1897.2
8/18/2006 15:48	12.0651	4.27298	0.610426	1903.31
8/18/2006 15:48	12.0651	4.27298	0.732511	1889.88
8/18/2006 15:48	12.0651	4.27298	0.976682	1897.2
8/18/2006 15:49	12.0651	4.27298	0.976682	1906.97
8/18/2006 15:49	12.0651	4.27298	0.610426	1894.76

John Zinc Inlet Raw Data
Run 1

8/18/2006 15:49	12.0651	4.27298	0.976682	1902.09
8/18/2006 15:49	12.0651	4.27298	0.976682	1891.1
8/18/2006 15:50	12.0651	4.27298	0.854597	1904.53
8/18/2006 15:50	12.0651	4.27298	0.732511	1895.98
8/18/2006 15:50	12.0651	4.27298	0.610426	1891.1
8/18/2006 15:50	12.0651	4.27298	0.732511	1893.54
8/18/2006 15:51	12.0651	4.27298	0.976682	1895.98
8/18/2006 15:51	12.0651	4.27298	0.854597	1883.77
8/18/2006 15:51	12.0651	4.27298	0.610426	1885
8/18/2006 15:51	12.0651	4.27298	1.09877	1894.76
8/18/2006 15:52	12.0651	4.27298	0.610426	1881.33
8/18/2006 15:52	12.0651	4.27298	0.854597	1888.66
8/18/2006 15:52	12.0651	4.27298	0.976682	1894.76
8/18/2006 15:52	12.0651	4.27298	0.610426	1876.45
8/18/2006 15:53	12.0651	4.27298	0.976682	1885
8/18/2006 15:53	12.0651	4.27298	0.732511	1883.77
8/18/2006 15:53	12.1658	4.27298	0.976682	1867.9
8/18/2006 15:53	12.1658	4.27298	0.854597	1882.55
8/18/2006 15:54	12.1658	4.27298	1.09877	1889.88
8/18/2006 15:54	12.1658	4.27298	0.976682	1865.46
8/18/2006 15:54	12.1658	4.27298	0.732511	1878.89
8/18/2006 15:54	12.1658	4.27298	0.976682	1877.67
8/18/2006 15:55	12.1658	4.27298	0.976682	1865.46
8/18/2006 15:55	12.1658	4.27298	1.09877	1883.77
8/18/2006 15:55	12.1658	4.27298	0.732511	1867.9
8/18/2006 15:55	12.1658	4.27298	0.732511	1864.24
8/18/2006 15:56	12.1658	4.27298	0.854597	1858.14
8/18/2006 15:56	12.2665	4.27298	0.854597	1866.68
8/18/2006 15:56	12.2665	4.27298	0.976682	1874.01
8/18/2006 15:56	12.2665	4.27298	0.610426	1860.58
8/18/2006 15:57	12.2665	4.27298	0.976682	1871.57
8/18/2006 15:57	12.2665	4.27298	0.976682	1860.58
8/18/2006 15:57	12.2665	4.27298	0.854597	1853.25
8/18/2006 15:57	12.2665	4.27298	0.732511	1861.8
8/18/2006 15:58	12.2665	4.27298	0.976682	1850.81
8/18/2006 15:58	12.2665	4.27298	0.732511	1854.47
8/18/2006 15:58	12.2665	4.27298	0.976682	1856.92
8/18/2006 15:58	12.2665	4.27298	0.854597	1850.81
8/18/2006 15:59	12.2665	4.27298	0.610426	1847.15
8/18/2006 15:59	12.2665	4.27298	0.732511	1864.24
8/18/2006 15:59	12.2665	4.27298	0.976682	1859.36
8/18/2006 15:59	12.2665	4.27298	0.610426	1850.81
8/18/2006 16:00	12.2665	4.27298	0.976682	1861.8
8/18/2006 16:00	12.2665	4.27298	0.610426	1848.37

John Zinc Inlet Raw Data
Run 1

8/18/2006 16:00	12.2665	4.27298	1.09877	1845.93
8/18/2006 16:00	12.2665	4.27298	0.610426	1849.59
8/18/2006 16:01	12.2665	4.27298	1.09877	1865.46
8/18/2006 16:01	12.2665	4.27298	1.09877	1864.24
8/18/2006 16:01	12.2665	4.27298	0.610426	1850.81
8/18/2006 16:01	12.2665	4.27298	0.610426	1859.36
8/18/2006 16:02	12.2665	4.27298	0.976682	1869.12
8/18/2006 16:02	12.2665	4.27298	0.732511	1850.81
8/18/2006 16:02	12.3672	4.27298	0.610426	1853.25
8/18/2006 16:02	12.3672	4.27298	0.854597	1864.24
8/18/2006 16:03	12.3672	4.27298	0.976682	1853.25
8/18/2006 16:03	12.3672	4.27298	1.09877	1866.68
8/18/2006 16:03	12.3672	4.27298	0.732511	1865.46
8/18/2006 16:03	12.3672	4.27298	0.854597	1850.81
8/18/2006 16:04	12.3672	4.27298	0.732511	1850.81
8/18/2006 16:04	12.3672	4.27298	0.610426	1852.03
8/18/2006 16:04	12.3672	4.27298	0.610426	1839.82
8/18/2006 16:04	12.3672	4.27298	0.610426	1843.49
8/18/2006 16:05	12.3672	4.27298	1.09877	1854.47
8/18/2006 16:05	12.3672	4.27298	0.976682	1842.27
8/18/2006 16:05	12.3672	4.27298	0.976682	1834.94
8/18/2006 16:05	12.3672	4.27298	0.976682	1850.81
8/18/2006 16:06	12.468	4.27298	1.09877	1836.16
8/18/2006 16:06	12.468	4.27298	1.09877	1850.81
8/18/2006 16:06	12.468	4.27298	1.09877	1850.81
8/18/2006 16:06	12.468	4.27298	1.09877	1838.6
8/18/2006 16:07	12.468	4.27298	0.854597	1838.6
8/18/2006 16:07	12.468	4.27298	0.732511	1843.49
8/18/2006 16:07	12.468	4.27298	0.976682	1849.59
8/18/2006 16:07	12.468	4.27298	0.610426	1843.49
8/18/2006 16:08	12.468	4.27298	0.976682	1850.81
8/18/2006 16:08	12.468	4.27298	0.732511	1832.5
8/18/2006 16:08	12.468	4.27298	0.732511	1847.15
8/18/2006 16:08	12.468	4.27298	0.976682	1850.81
8/18/2006 16:09	12.468	4.27298	0.732511	1834.94
8/18/2006 16:09	12.468	4.17287	0.854597	1842.27
8/18/2006 16:09	12.468	4.17287	0.976682	1845.93
8/18/2006 16:09	12.468	4.17287	0.610426	1833.72
8/18/2006 16:10	12.468	4.17287	1.09877	1832.5
8/18/2006 16:10	12.468	4.17287	0.610426	1830.06
8/18/2006 16:10	12.468	4.17287	0.854597	1841.05
8/18/2006 16:10	12.468	4.17287	1.09877	1848.37
8/18/2006 16:11	12.468	4.17287	0.976682	1844.71
8/18/2006 16:11	12.468	4.17287	0.610426	1841.05

John Zinc Inlet Raw Data
Run 1

8/18/2006 16:11	12.468	4.17287	0.732511	1838.6
8/18/2006 16:11	12.468	4.17287	0.610426	1839.82
8/18/2006 16:12	12.468	4.17287	0.732511	1848.37
8/18/2006 16:12	12.468	4.17287	0.732511	1830.06
8/18/2006 16:12	12.468	4.17287	0.732511	1848.37
8/18/2006 16:12	12.468	4.17287	0.976682	1845.93
8/18/2006 16:13	12.468	4.17287	1.09877	1841.05
8/18/2006 16:13	12.468	4.17287	1.09877	1845.93
8/18/2006 16:13	12.3672	4.17287	0.976682	1834.94
8/18/2006 16:13	12.3672	4.27298	1.22085	1826.39
8/18/2006 16:14	12.2665	4.37309	0.976682	1832.5
8/18/2006 16:14	12.1658	4.37309	0.854597	1831.28
8/18/2006 16:14	12.1658	4.37309	0.976682	1821.51
8/18/2006 16:14	12.1658	4.4732	1.09877	1821.51
8/18/2006 16:15	12.0651	4.4732	0.854597	1831.28
8/18/2006 16:15	12.0651	4.4732	0.732511	1826.39
8/18/2006 16:15	12.0651	4.4732	0.854597	1815.41
8/18/2006 16:15	12.0651	4.4732	0.976682	1827.62
8/18/2006 16:16	12.0651	4.4732	0.610426	1834.94
8/18/2006 16:16	12.0651	4.4732	1.09877	1831.28
8/18/2006 16:16	12.1658	4.4732	0.854597	1815.41
8/18/2006 16:16	12.1658	4.4732	0.854597	1822.73
	10.82637	4.265169	0.758831	1848.061

John Zinc Inlet Raw Data
Run 2

	O2	CO2	THC	Inlet
8/19/2006 7:50	14.6075	3.97754	0.366256	604.322
8/19/2006 7:50	14.6075	3.97754	0.366256	612.868
8/19/2006 7:50	14.6075	3.8701	0.610426	620.193
8/19/2006 7:50	14.815	3.76267	0.610426	625.076
8/19/2006 7:51	14.815	3.76267	0.732511	638.506
8/19/2006 7:51	14.815	3.76267	0.488341	653.156
8/19/2006 7:51	14.815	3.76267	0.732511	675.131
8/19/2006 7:51	14.815	3.76267	0.732511	730.07
8/19/2006 7:52	14.815	3.76267	0.732511	774.02
8/19/2006 7:52	14.815	3.76267	0.610426	828.959
8/19/2006 7:52	14.815	3.76267	0.610426	890.001
8/19/2006 7:52	14.815	3.76267	0.366256	955.927
8/19/2006 7:53	14.9188	3.76267	0.24417	1008.42
8/19/2006 7:53	14.9188	3.76267	0.366256	1056.04
8/19/2006 7:53	14.9188	3.76267	0.366256	1093.88
8/19/2006 7:53	14.9188	3.76267	0.366256	1146.38
8/19/2006 7:54	14.9188	3.76267	0.488341	1190.33
8/19/2006 7:54	14.9188	3.76267	0.24417	1241.61
8/19/2006 7:54	14.9188	3.76267	0.610426	1283.12
8/19/2006 7:54	14.9188	3.76267	0.366256	1313.64
8/19/2006 7:55	14.9188	3.76267	0.732511	1357.59
8/19/2006 7:55	14.9188	3.76267	0.610426	1395.43
8/19/2006 7:55	14.9188	3.76267	0.610426	1408.86
8/19/2006 7:55	14.8181	3.76267	0.488341	1436.94
8/19/2006 7:56	14.8181	3.76267	0.24417	1465.02
8/19/2006 7:56	14.8181	3.76267	0.488341	1483.34
8/19/2006 7:56	14.8181	3.76267	0.610426	1502.87
8/19/2006 7:56	14.8181	3.76267	0.24417	1516.3
8/19/2006 7:57	14.8181	3.76267	0.366256	1526.07
8/19/2006 7:57	14.8181	3.76267	0.366256	1541.94
8/19/2006 7:57	14.8181	3.76267	0.732511	1548.04
8/19/2006 7:57	14.7174	3.76267	0.488341	1537.05
8/19/2006 7:58	14.7174	3.76267	0.610426	1556.59
8/19/2006 7:58	14.7174	3.76267	0.366256	1561.47
8/19/2006 7:58	14.7174	3.76267	0.24417	1567.57
8/19/2006 7:58	14.7174	3.76267	0.366256	1589.55
8/19/2006 7:59	14.7174	3.76267	0.610426	1587.11
8/19/2006 7:59	14.7174	3.76267	0.366256	1589.55
8/19/2006 7:59	14.7174	3.76267	0.366256	1588.33
8/19/2006 7:59	14.7174	3.76267	0.488341	1594.43
8/19/2006 8:00	14.7174	3.76267	0.610426	1612.75

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:00	14.7174	3.76267	0.122085	1591.99
8/19/2006 8:00	14.7174	3.76267	0.366256	1598.1
8/19/2006 8:00	14.7174	3.76267	0.488341	1612.75
8/19/2006 8:01	14.6075	3.76267	0.610426	1610.3
8/19/2006 8:01	14.6075	3.76267	0.24417	1632.28
8/19/2006 8:01	14.6075	3.76267	0.24417	1621.29
8/19/2006 8:01	14.6075	3.76267	0.488341	1612.75
8/19/2006 8:02	14.6075	3.76267	0.488341	1627.4
8/19/2006 8:02	14.6075	3.76267	0.122085	1615.19
8/19/2006 8:02	14.5037	3.76267	0.488341	1626.18
8/19/2006 8:02	14.5037	3.76267	0.610426	1622.51
8/19/2006 8:03	14.5037	3.76267	0.488341	1627.4
8/19/2006 8:03	14.5037	3.76267	0.24417	1640.83
8/19/2006 8:03	14.5037	3.76267	0.24417	1620.07
8/19/2006 8:03	14.5037	3.76267	0.488341	1640.83
8/19/2006 8:04	14.5037	3.76267	0.488341	1646.93
8/19/2006 8:04	14.5037	3.76267	0.122085	1643.27
8/19/2006 8:04	14.5037	3.76267	0.366256	1640.83
8/19/2006 8:04	14.5037	3.76267	0.488341	1655.48
8/19/2006 8:05	14.5037	3.76267	0.122085	1643.27
8/19/2006 8:05	14.5037	3.76267	0.366256	1660.36
8/19/2006 8:05	14.5037	3.76267	0.366256	1660.36
8/19/2006 8:05	14.5037	3.76267	0.122085	1660.36
8/19/2006 8:06	14.403	3.76267	0.610426	1673.79
8/19/2006 8:06	14.403	3.76267	0.24417	1657.92
8/19/2006 8:06	14.403	3.76267	0.122085	1671.35
8/19/2006 8:06	14.403	3.76267	0.122085	1676.23
8/19/2006 8:07	14.403	3.76267	0.366256	1676.23
8/19/2006 8:07	14.403	3.76267	0.610426	1679.89
8/19/2006 8:07	14.403	3.76267	0.122085	1681.11
8/19/2006 8:07	14.403	3.76267	0.366256	1722.62
8/19/2006 8:08	14.403	3.76267	0.488341	1721.4
8/19/2006 8:08	14.403	3.76267	0.24417	1710.41
8/19/2006 8:08	14.403	3.76267	0.488341	1693.32
8/19/2006 8:08	14.403	3.66256	0.366256	1704.31
8/19/2006 8:09	14.5037	3.66256	0.366256	1704.31
8/19/2006 8:09	14.4	3.76755	0.610426	1659.14
8/19/2006 8:09	14.2901	3.76755	0.122085	1649.37
8/19/2006 8:09	14.2901	3.76755	0.488341	1667.68
8/19/2006 8:10	14.1863	3.76755	0.24417	1657.92
8/19/2006 8:10	14.0856	3.76755	0.610426	1661.58
8/19/2006 8:10	14.0856	3.86766	0.24417	1712.86
8/19/2006 8:10	14.0856	3.86766	0.366256	1705.53
8/19/2006 8:11	14.0856	3.86766	0.610426	1692.1

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:11	14.0856	3.86766	0.366256	1699.43
8/19/2006 8:11	14.0856	3.86766	0.122085	1700.65
8/19/2006 8:11	14.0856	3.86766	0.366256	1696.98
8/19/2006 8:12	14.0856	3.86766	0.488341	1704.31
8/19/2006 8:12	14.0856	3.86766	0.366256	1734.83
8/19/2006 8:12	14.0856	3.86766	0.122085	1714.08
8/19/2006 8:12	14.0856	3.86766	0.24417	1754.36
8/19/2006 8:13	14.0856	3.86766	0.366256	1727.51
8/19/2006 8:13	14.0856	3.86766	0.488341	1749.48
8/19/2006 8:13	14.0856	3.86766	0.24417	1754.36
8/19/2006 8:13	14.0856	3.86766	0.366256	1776.34
8/19/2006 8:14	14.0856	3.86766	0.366256	1790.99
8/19/2006 8:14	14.0856	3.86766	0.122085	1780
8/19/2006 8:14	14.0856	3.86766	0.366256	1772.68
8/19/2006 8:14	14.0856	3.86766	0.366256	1784.89
8/19/2006 8:15	14.0856	3.86766	0.366256	1782.44
8/19/2006 8:15	14.0856	3.86766	0.122085	1783.66
8/19/2006 8:15	14.0856	3.86766	0.366256	1782.44
8/19/2006 8:15	14.0856	3.86766	0.488341	1803.2
8/19/2006 8:16	13.9849	3.86766	0.366256	1792.21
8/19/2006 8:16	13.9849	3.86766	0.24417	1808.08
8/19/2006 8:16	13.9849	3.86766	0.122085	1804.42
8/19/2006 8:16	13.9849	3.86766	0.366256	1808.08
8/19/2006 8:17	13.9849	3.86766	0.24417	1812.97
8/19/2006 8:17	13.9849	3.86766	0.122085	1799.54
8/19/2006 8:17	13.9849	3.86766	0.488341	1817.85
8/19/2006 8:17	13.9849	3.86766	0.24417	1800.76
8/19/2006 8:18	13.9849	3.86766	0.122085	1814.19
8/19/2006 8:18	13.8841	3.86766	0.488341	1822.73
8/19/2006 8:18	13.8841	3.86766	0.366256	1826.39
8/19/2006 8:18	13.8841	3.86766	0.122085	1822.73
8/19/2006 8:19	13.8841	3.86766	0.610426	1827.62
8/19/2006 8:19	13.8841	3.86766	0.122085	1838.6
8/19/2006 8:19	13.8841	3.86766	0.488341	1842.27
8/19/2006 8:19	13.8841	3.86766	0.366256	1854.47
8/19/2006 8:20	13.8841	3.86766	0.122085	1855.7
8/19/2006 8:20	13.8841	3.86766	0.366256	1848.37
8/19/2006 8:20	13.7804	3.86766	0.24417	1841.05
8/19/2006 8:20	13.7804	3.86766	0.122085	1864.24
8/19/2006 8:21	13.7804	3.86766	0.366256	1852.03
8/19/2006 8:21	13.7804	3.86766	0.24417	1863.02
8/19/2006 8:21	13.7804	3.86766	0.488341	1854.47
8/19/2006 8:21	13.7804	3.86766	0.122085	1875.23
8/19/2006 8:22	13.7804	3.86766	0.24417	1870.35

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:22	13.7804	3.86766	0.24417	1886.22
8/19/2006 8:22	13.6796	3.86766	0.24417	1871.57
8/19/2006 8:22	13.6796	3.86766	0.122085	1869.12
8/19/2006 8:23	13.6796	3.86766	0.488341	1847.15
8/19/2006 8:23	13.6796	3.86766	0.366256	1849.59
8/19/2006 8:23	13.6796	3.86766	0.24417	1822.73
8/19/2006 8:23	13.6796	3.86766	0.366256	1805.64
8/19/2006 8:24	13.6796	3.86766	0.366256	1817.85
8/19/2006 8:24	13.6796	3.86766	0	1789.77
8/19/2006 8:24	13.5789	3.86766	0.366256	1822.73
8/19/2006 8:24	13.5789	3.86766	0.366256	1821.51
8/19/2006 8:25	13.5789	3.86766	0.122085	1815.41
8/19/2006 8:25	13.5789	3.86766	0.488341	1794.65
8/19/2006 8:25	13.5789	3.86766	0.24417	1790.99
8/19/2006 8:25	13.5789	3.86766	0.24417	1770.24
8/19/2006 8:26	13.5789	3.86766	0.610426	1795.87
8/19/2006 8:26	13.5789	3.86766	0.24417	1841.05
8/19/2006 8:26	13.5789	3.86766	0.122085	1819.07
8/19/2006 8:26	13.5789	3.86766	0.488341	1804.42
8/19/2006 8:27	13.5789	3.86766	0.488341	1819.07
8/19/2006 8:27	13.5789	3.86766	0.488341	1819.07
8/19/2006 8:27	13.5789	3.86766	0.488341	1810.52
8/19/2006 8:27	13.5789	3.86766	0.366256	1800.76
8/19/2006 8:28	13.5789	3.86766	0.24417	1797.09
8/19/2006 8:28	13.5789	3.86766	0.122085	1800.76
8/19/2006 8:28	13.5789	3.86766	0.24417	1806.86
8/19/2006 8:28	13.5789	3.86766	0.24417	1790.99
8/19/2006 8:29	13.5789	3.86766	0.366256	1812.97
8/19/2006 8:29	13.5789	3.86766	0.488341	1800.76
8/19/2006 8:29	13.4782	3.86766	0	1805.64
8/19/2006 8:29	13.4782	3.86766	0.24417	1806.86
8/19/2006 8:30	13.4782	3.86766	0.366256	1838.6
8/19/2006 8:30	13.4782	3.86766	0.24417	1834.94
8/19/2006 8:30	13.4782	3.86766	0.24417	1822.73
8/19/2006 8:30	13.4782	3.86766	0.24417	1834.94
8/19/2006 8:31	13.4782	3.86766	0.122085	1819.07
8/19/2006 8:31	13.4782	3.86766	0.122085	1822.73
8/19/2006 8:31	13.4782	3.86766	0.488341	1811.74
8/19/2006 8:31	13.4782	3.86766	0.122085	1822.73
8/19/2006 8:32	13.4782	3.86766	0.488341	1820.29
8/19/2006 8:32	13.4782	3.86766	0.122085	1841.05
8/19/2006 8:32	13.3744	3.86766	0.488341	1847.15
8/19/2006 8:32	13.3744	3.86766	0.24417	1837.38
8/19/2006 8:33	13.3744	3.86766	0.24417	1849.59

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:33	13.3744	3.86766	0.24417	1852.03
8/19/2006 8:33	13.3744	3.86766	0.610426	1850.81
8/19/2006 8:33	13.3744	3.86766	0.122085	1849.59
8/19/2006 8:34	13.3744	3.86766	0.366256	1866.68
8/19/2006 8:34	13.3744	3.86766	0.366256	1866.68
8/19/2006 8:34	13.2737	3.86766	0.122085	1860.58
8/19/2006 8:34	13.2737	3.86766	0.610426	1889.88
8/19/2006 8:35	13.2737	3.96777	0.24417	1874.01
8/19/2006 8:35	13.2737	3.96777	0.366256	1961.91
8/19/2006 8:35	13.2737	3.96777	0.24417	1950.92
8/19/2006 8:35	13.2737	3.96777	0.366256	1931.39
8/19/2006 8:36	13.2737	3.96777	0.24417	1930.17
8/19/2006 8:36	13.2737	3.96777	0.488341	1980.22
8/19/2006 8:36	13.2737	3.96777	0.122085	1961.91
8/19/2006 8:36	13.2737	3.96777	0.24417	1942.38
8/19/2006 8:37	13.173	3.96777	0.610426	1927.73
8/19/2006 8:37	13.173	3.96777	0.24417	1939.93
8/19/2006 8:37	13.173	3.96777	0.122085	1948.48
8/19/2006 8:37	13.173	3.96777	0.610426	1941.15
8/19/2006 8:38	13.173	3.96777	0.366256	1930.17
8/19/2006 8:38	13.173	3.96777	0.122085	1943.6
8/19/2006 8:38	13.173	3.96777	0.610426	1953.36
8/19/2006 8:38	13.173	3.96777	0	1942.38
8/19/2006 8:39	13.173	3.96777	0.366256	1937.49
8/19/2006 8:39	13.173	3.96777	0.488341	1942.38
8/19/2006 8:39	13.0723	3.96777	0.610426	1959.47
8/19/2006 8:39	13.0723	3.96777	0.366256	1997.31
8/19/2006 8:40	13.0723	3.96777	0.24417	1979
8/19/2006 8:40	13.0723	3.96777	0.488341	2040.04
8/19/2006 8:40	13.0723	3.96777	0.24417	2032.72
8/19/2006 8:40	13.0723	3.96777	0.488341	2033.94
8/19/2006 8:41	13.0723	3.96777	0.610426	2037.6
8/19/2006 8:41	13.0723	3.96777	0.366256	2016.85
8/19/2006 8:41	12.9716	3.96777	0.122085	2010.74
8/19/2006 8:41	12.9716	3.96777	0.24417	2021.73
8/19/2006 8:42	12.9716	3.96777	0.122085	1999.76
8/19/2006 8:42	12.9716	3.96777	0.366256	2020.51
8/19/2006 8:42	12.9716	3.96777	0.488341	2010.74
8/19/2006 8:42	12.9716	3.96777	0.24417	2003.42
8/19/2006 8:43	12.9716	3.96777	0.366256	2024.17
8/19/2006 8:43	12.9716	3.96777	0.24417	1996.09
8/19/2006 8:43	12.9716	3.96777	0.488341	2137.71
8/19/2006 8:43	12.8708	3.96777	0.24417	2107.19
8/19/2006 8:44	12.8708	3.96777	0.122085	2065.68

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:44	12.8708	3.96777	0.366256	2101.09
8/19/2006 8:44	12.8708	3.96777	0.122085	2074.23
8/19/2006 8:44	12.8708	3.96777	0.366256	2027.84
8/19/2006 8:45	12.8708	3.96777	0.610426	2024.17
8/19/2006 8:45	12.8708	3.96777	0.122085	1996.09
8/19/2006 8:45	12.8708	3.96777	0.610426	1979
8/19/2006 8:45	12.8708	3.96777	0.610426	1989.99
8/19/2006 8:46	12.8708	3.96777	0.610426	1997.31
8/19/2006 8:46	12.8708	3.96777	0.366256	1969.23
8/19/2006 8:46	12.8708	3.96777	0.366256	1977.78
8/19/2006 8:46	12.8708	3.96777	0.24417	1975.34
8/19/2006 8:47	12.8708	3.96777	0	1977.78
8/19/2006 8:47	12.8708	3.96777	0.122085	1980.22
8/19/2006 8:47	12.764	3.96777	0.488341	2092.54
8/19/2006 8:47	12.764	3.96777	0.610426	2071.79
8/19/2006 8:48	12.764	3.96777	0.610426	2033.94
8/19/2006 8:48	12.764	3.96777	0.488341	2024.17
8/19/2006 8:48	12.764	3.96777	0.122085	1998.53
8/19/2006 8:48	12.764	3.96777	0.366256	1992.43
8/19/2006 8:49	12.764	3.96777	0.366256	1988.77
8/19/2006 8:49	12.764	3.96777	0.24417	1993.65
8/19/2006 8:49	12.764	3.96777	0.366256	2000.98
8/19/2006 8:49	12.764	3.96777	0.24417	2060.8
8/19/2006 8:50	12.764	3.96777	0.122085	2054.69
8/19/2006 8:50	12.764	3.96777	0.366256	2054.69
8/19/2006 8:50	12.764	3.96777	0.24417	2035.16
8/19/2006 8:50	12.764	3.96777	0.488341	2038.82
8/19/2006 8:51	12.764	3.96777	0.366256	2035.16
8/19/2006 8:51	12.764	3.96777	0	2031.5
8/19/2006 8:51	12.764	3.96777	0.24417	2033.94
8/19/2006 8:51	12.6633	3.96777	0.488341	2021.73
8/19/2006 8:52	12.6633	3.96777	0.488341	2042.49
8/19/2006 8:52	12.6633	3.96777	0.122085	2033.94
8/19/2006 8:52	12.6633	3.96777	0.610426	2046.15
8/19/2006 8:52	12.6633	3.96777	0.610426	2062.02
8/19/2006 8:53	12.6633	3.96777	0.122085	2044.93
8/19/2006 8:53	12.6633	3.96777	0.488341	2065.68
8/19/2006 8:53	12.6633	3.96777	0.24417	2074.23
8/19/2006 8:53	12.6633	3.96777	0.488341	2105.97
8/19/2006 8:54	12.6633	3.96777	0.122085	2101.09
8/19/2006 8:54	12.6633	3.96777	0.488341	2108.41
8/19/2006 8:54	12.6633	3.96777	0.366256	2104.75
8/19/2006 8:54	12.6633	3.96777	0.24417	2115.74
8/19/2006 8:55	12.6633	3.96777	0.488341	2066.9

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:55	12.6633	3.96777	0.122085	2022.95
8/19/2006 8:55	12.6633	3.96777	0.488341	1986.33
8/19/2006 8:55	12.6633	3.96777	8.30179	1941.15
8/19/2006 8:56	12.6633	3.96777	48.2237	1988.77
8/19/2006 8:56	12.6633	3.21572	13.4294	2130.39
8/19/2006 8:56	13.0112	3.32072	4.39507	2252.47
8/19/2006 8:56	13.0112	3.7529	1.58711	2254.91
8/19/2006 8:57	12.6755	3.98486	0.610426	2167.01
8/19/2006 8:57	12.4557	4.19729	0.610426	2138.93
8/19/2006 8:57	12.4557	4.2974	0.610426	2002.2
8/19/2006 8:57	12.4557	4.2974	0.24417	1874.01
8/19/2006 8:58	12.5626	4.2974	0.488341	1733.61
8/19/2006 8:58	12.6633	4.2974	0.24417	1637.16
8/19/2006 8:58	12.764	4.2974	0.610426	1527.29
8/19/2006 8:58	12.9777	4.19241	0.24417	1465.02
8/19/2006 8:59	12.9777	4.19241	0.366256	1425.96
8/19/2006 8:59	13.0845	4.19241	1.22085	1352.7
8/19/2006 8:59	13.1852	4.0923	0.610426	1298.99
8/19/2006 8:59	13.2859	4.0923	0.366256	1233.06
8/19/2006 9:00	13.2859	4.0923	0.366256	1197.66
8/19/2006 9:00	13.2859	4.0923	0.366256	1158.59
8/19/2006 9:00	13.2859	4.0923	0.366256	1143.94
8/19/2006 9:00	13.1852	4.0923	0.24417	1117.08
8/19/2006 9:01	13.1852	4.0923	0.610426	1106.09
8/19/2006 9:01	13.292	4.0923	0.24417	1099.99
8/19/2006 9:01	13.292	4.0923	0.610426	1091.44
8/19/2006 9:01	13.292	4.0923	0.24417	1093.88
8/19/2006 9:02	13.292	4.0923	0.488341	1090.22
8/19/2006 9:02	13.292	4.0923	0.488341	1087.78
8/19/2006 9:02	13.292	4.0923	0.366256	1084.12
8/19/2006 9:02	13.292	4.0923	0.366256	1097.55
8/19/2006 9:03	13.292	4.0923	0.610426	1089
8/19/2006 9:03	13.292	4.0923	0.488341	1091.44
8/19/2006 9:03	13.292	4.0923	0.610426	1110.98
8/19/2006 9:03	13.292	4.0923	0.122085	1097.55
8/19/2006 9:04	13.292	4.0923	0.732511	1110.98
8/19/2006 9:04	13.292	4.0923	0.732511	1107.31
8/19/2006 9:04	13.1913	4.0923	0.488341	1096.33
8/19/2006 9:04	13.1913	4.0923	0.366256	1104.87
8/19/2006 9:05	13.1913	4.0923	0.366256	1090.22
8/19/2006 9:05	13.1913	4.0923	0.122085	1085.34
8/19/2006 9:05	13.1913	4.0923	0.122085	1091.44
8/19/2006 9:05	13.1913	4.0923	0.366256	1079.23
8/19/2006 9:06	13.1913	4.0923	0.366256	1097.55

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:06	13.1913	4.0923	0.488341	1065.8
8/19/2006 9:06	13.1913	4.0923	0.610426	1087.78
8/19/2006 9:06	13.1913	4.0923	0.610426	1078.01
8/19/2006 9:07	13.1913	4.0923	0.732511	1139.06
8/19/2006 9:07	13.1913	4.0923	2.19753	1162.25
8/19/2006 9:07	13.1913	3.99219	2.56379	1142.72
8/19/2006 9:07	13.4355	3.76999	1.22085	1104.87
8/19/2006 9:08	13.6369	3.76999	0.24417	1086.56
8/19/2006 9:08	13.5362	3.87743	0.488341	1109.75
8/19/2006 9:08	13.2096	4.10206	0.366256	1132.95
8/19/2006 9:08	12.9899	4.20217	0.122085	1141.5
8/19/2006 9:09	12.7854	4.30228	0.732511	1150.04
8/19/2006 9:09	12.7854	4.30228	0.366256	1162.25
8/19/2006 9:09	12.7854	4.30228	0.366256	1159.81
8/19/2006 9:09	12.7854	4.30228	0.488341	1214.75
8/19/2006 9:10	12.7854	4.30228	0.610426	1209.86
8/19/2006 9:10	12.7854	4.30228	0.610426	1212.31
8/19/2006 9:10	12.7854	4.30228	0.488341	1186.67
8/19/2006 9:10	12.7854	4.30228	0.732511	1187.89
8/19/2006 9:11	12.7854	4.30228	0.610426	1176.9
8/19/2006 9:11	12.6847	4.30228	0.732511	1180.56
8/19/2006 9:11	12.6847	4.30228	0.488341	1125.63
8/19/2006 9:11	12.6847	4.30228	0.976682	1176.9
8/19/2006 9:12	12.6847	4.30228	0.488341	1173.24
8/19/2006 9:12	12.6847	4.30228	0.854597	1170.8
8/19/2006 9:12	12.6847	4.30228	1.09877	1126.85
8/19/2006 9:12	12.5809	4.30228	0.488341	1197.66
8/19/2006 9:13	12.5809	4.30228	0.610426	1161.03
8/19/2006 9:13	12.5809	4.30228	0.732511	1180.56
8/19/2006 9:13	12.5809	4.30228	0.854597	1185.45
8/19/2006 9:13	12.4802	4.30228	0.488341	1208.64
8/19/2006 9:14	12.4802	4.30228	0.732511	1231.84
8/19/2006 9:14	12.4802	4.30228	0.854597	1195.21
8/19/2006 9:14	12.4802	4.30228	0.488341	1196.44
8/19/2006 9:14	12.3794	4.30228	0.366256	1491.88
8/19/2006 9:15	12.3794	4.30228	0.610426	1358.81
8/19/2006 9:15	12.3794	4.40239	0.976682	1306.31
8/19/2006 9:15	12.3794	4.40239	0.610426	1274.57
8/19/2006 9:15	12.3794	4.40239	0.488341	1286.78
8/19/2006 9:16	12.3794	4.40239	0.976682	1251.37
8/19/2006 9:16	12.3794	4.40239	0.854597	1268.47
8/19/2006 9:16	12.2757	4.40239	0.366256	1239.16
8/19/2006 9:16	12.2757	4.40239	0.488341	1239.16
8/19/2006 9:17	12.2757	4.40239	0.732511	1229.4

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:17	12.2757	4.40239	0.488341	1228.18
8/19/2006 9:17	12.2757	4.40239	0.488341	1385.67
8/19/2006 9:17	12.2757	4.40239	0.610426	1289.22
8/19/2006 9:18	12.2757	4.40239	0.732511	1252.59
8/19/2006 9:18	12.2757	4.40239	0.610426	1328.29
8/19/2006 9:18	12.1749	4.40239	0.610426	1338.05
8/19/2006 9:18	12.0681	4.51471	0.610426	1330.73
8/19/2006 9:19	11.9674	4.51471	0.366256	2018.07
8/19/2006 9:19	11.9674	4.51471	0.488341	1623.73
8/19/2006 9:19	11.9674	4.51471	0.366256	1561.47
8/19/2006 9:19	12.0803	4.41216	0.488341	1467.46
8/19/2006 9:20	12.1811	4.41216	0.24417	1449.15
8/19/2006 9:20	12.1811	4.31205	0.24417	1421.07
8/19/2006 9:20	12.1811	4.31205	0.366256	1397.88
8/19/2006 9:20	12.2818	4.31205	0.366256	1402.76
8/19/2006 9:21	12.2818	4.20706	0.732511	1351.48
8/19/2006 9:21	12.2818	4.20706	0.366256	1330.73
8/19/2006 9:21	12.2818	4.20706	0.24417	1300.21
8/19/2006 9:21	12.2818	4.20706	0.488341	1329.51
8/19/2006 9:22	12.2818	4.20706	0.366256	1433.28
8/19/2006 9:22	12.2818	4.20706	0.488341	1392.99
8/19/2006 9:22	12.2818	4.20706	0.366256	1377.12
8/19/2006 9:22	12.2818	4.20706	0.488341	1358.81
8/19/2006 9:23	12.2818	4.20706	0.122085	1298.99
8/19/2006 9:23	12.1811	4.20706	0.366256	1283.12
8/19/2006 9:23	12.1811	4.20706	0.610426	1253.82
8/19/2006 9:23	12.1811	4.20706	0.366256	1277.01
8/19/2006 9:24	12.1811	4.20706	0.122085	1341.72
8/19/2006 9:24	12.1811	4.20706	0.366256	1279.45
8/19/2006 9:24	12.1811	4.20706	0.366256	1224.51
8/19/2006 9:24	12.1811	4.20706	0.122085	1184.23
8/19/2006 9:25	12.1811	4.20706	0.488341	1302.65
8/19/2006 9:25	12.0803	4.20706	0.24417	1213.53
8/19/2006 9:25	12.0803	4.20706	0.24417	1191.55
8/19/2006 9:25	12.0803	4.20706	0.366256	1158.59
8/19/2006 9:26	12.0803	4.10206	0.122085	1172.02
8/19/2006 9:26	12.0803	4.10206	0.122085	1136.61
8/19/2006 9:26	12.0803	4.10206	0.366256	1119.52
8/19/2006 9:26	12.0803	4.10206	0.488341	1102.43
8/19/2006 9:27	11.9796	4.10206	0.24417	1131.73
8/19/2006 9:27	11.9796	4.10206	0.122085	1092.66
8/19/2006 9:27	11.9796	4.10206	0.366256	1058.48
8/19/2006 9:27	11.9796	4.10206	0.610426	1047.49
8/19/2006 9:28	11.9796	4.10206	0.122085	1087.78

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:28	11.9796	4.10206	0.122085	1135.39
8/19/2006 9:28	11.9796	4.10206	0.366256	1109.75
8/19/2006 9:28	11.8728	4.10206	0.488341	1089
8/19/2006 9:29	11.8728	4.10206	0.610426	1065.8
8/19/2006 9:29	11.8728	4.10206	0.610426	1047.49
8/19/2006 9:29	11.8728	4.10206	0.122085	1029.18
8/19/2006 9:29	11.8728	4.10206	0.24417	1020.63
8/19/2006 9:30	11.7721	4.10206	0.610426	1002.32
8/19/2006 9:30	11.7721	4.10206	0	994.995
8/19/2006 9:30	11.7721	4.10206	0.488341	1020.63
8/19/2006 9:30	11.7721	4.10206	0.122085	1024.29
8/19/2006 9:31	11.7721	4.10206	0.366256	1012.09
8/19/2006 9:31	11.7721	4.10206	0.24417	1012.09
8/19/2006 9:31	11.7721	4.10206	0.488341	999.878
8/19/2006 9:31	11.6713	4.10206	0.24417	996.215
8/19/2006 9:32	11.6713	4.10206	0.610426	993.774
8/19/2006 9:32	11.6713	4.10206	0.122085	980.344
8/19/2006 9:32	11.6713	4.10206	0.122085	982.786
8/19/2006 9:32	11.6713	4.10206	0.366256	976.682
8/19/2006 9:33	11.6713	4.10206	0.488341	971.798
8/19/2006 9:33	11.6713	4.10206	0.122085	964.473
8/19/2006 9:33	11.6713	4.10206	0.610426	966.915
8/19/2006 9:33	11.5676	4.10206	0.122085	957.148
8/19/2006 9:34	11.5676	4.10206	0.488341	957.148
8/19/2006 9:34	11.5676	4.10206	0.24417	962.031
8/19/2006 9:34	11.5676	4.10206	0.366256	953.486
8/19/2006 9:34	11.5676	4.10206	0.610426	954.706
8/19/2006 9:35	11.5676	4.10206	0.122085	949.823
8/19/2006 9:35	11.5676	4.10206	0.488341	959.59
8/19/2006 9:35	11.4638	4.10206	0.24417	949.823
8/19/2006 9:35	11.4638	4.10206	0.122085	952.265
8/19/2006 9:36	11.4638	4.10206	0.366256	955.927
8/19/2006 9:36	11.4638	4.10206	0.366256	954.706
8/19/2006 9:36	11.4638	4.10206	0.24417	949.823
8/19/2006 9:36	11.4638	4.10206	0.610426	953.486
8/19/2006 9:37	11.4638	4.10206	0.122085	958.369
8/19/2006 9:37	11.4638	4.10206	0.488341	955.927
8/19/2006 9:37	11.4638	4.10206	0.366256	955.927
8/19/2006 9:37	11.3631	4.10206	0.366256	965.694
8/19/2006 9:38	11.3631	4.10206	0.366256	952.265
8/19/2006 9:38	11.3631	4.10206	0.488341	966.915
8/19/2006 9:38	11.3631	4.10206	0.122085	955.927
8/19/2006 9:38	11.3631	4.10206	0.488341	968.136
8/19/2006 9:39	11.3631	4.10206	0.610426	965.694

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:39	11.3631	4.10206	0.122085	1052.37
8/19/2006 9:39	11.2624	4.10206	0.122085	1009.64
8/19/2006 9:39	11.2624	4.10206	0.366256	1002.32
8/19/2006 9:40	11.2624	4.10206	0.732511	993.774
8/19/2006 9:40	11.2624	4.10206	0.488341	991.332
8/19/2006 9:40	11.2624	4.10206	0.122085	987.669
8/19/2006 9:40	11.2624	4.10206	0.24417	987.669
8/19/2006 9:41	11.2624	4.10206	0.24417	987.669
8/19/2006 9:41	11.2624	4.10206	0.610426	991.332
8/19/2006 9:41	11.2624	4.10206	0.488341	984.007
8/19/2006 9:41	11.1555	4.10206	0.122085	992.553
8/19/2006 9:42	11.1555	4.10206	0.122085	991.332
8/19/2006 9:42	11.1555	4.20217	0	993.774
8/19/2006 9:42	11.0518	4.20217	0.366256	999.878
8/19/2006 9:42	11.0518	4.20217	0.488341	999.878
8/19/2006 9:43	11.0518	4.20217	0.122085	999.878
8/19/2006 9:43	11.0518	4.20217	0.488341	1003.54
8/19/2006 9:43	11.0518	4.20217	0.122085	1005.98
8/19/2006 9:43	11.0518	4.20217	0.24417	1002.32
8/19/2006 9:44	11.0518	4.20217	0.366256	1007.2
8/19/2006 9:44	11.0518	4.20217	0.488341	1008.42
8/19/2006 9:44	11.0518	4.20217	0.488341	1016.97
8/19/2006 9:44	11.0518	4.20217	0.24417	1037.72
8/19/2006 9:45	10.9449	4.20217	0.366256	1040.17
8/19/2006 9:45	10.9449	4.20217	0.366256	1036.5
8/19/2006 9:45	10.9449	4.20217	0.366256	1040.17
8/19/2006 9:45	10.9449	4.20217	0.488341	1074.35
8/19/2006 9:46	10.9449	4.20217	0.366256	1069.47
8/19/2006 9:46	10.9449	4.20217	0.610426	1065.8
8/19/2006 9:46	10.9449	4.20217	0.366256	1075.57
8/19/2006 9:46	10.8442	4.20217	0.122085	1059.7
8/19/2006 9:47	10.8442	4.20217	0.366256	1070.69
8/19/2006 9:47	10.8442	4.20217	0.488341	1064.58
8/19/2006 9:47	10.8442	4.20217	0.24417	1074.35
8/19/2006 9:47	10.8442	4.20217	0.24417	1076.79
8/19/2006 9:48	10.8442	4.20217	0.488341	1085.34
8/19/2006 9:48	10.8442	4.20217	0.122085	1079.23
8/19/2006 9:48	10.8442	4.20217	0.610426	1090.22
8/19/2006 9:48	10.8442	4.20217	0.122085	1076.79
8/19/2006 9:49	10.8442	4.20217	0.610426	1093.88
8/19/2006 9:49	10.8442	4.20217	0.488341	1137.83
8/19/2006 9:49	10.7404	4.20217	0.122085	1115.86
8/19/2006 9:49	10.7404	4.20217	0.488341	1120.74
8/19/2006 9:50	10.7404	4.20217	0.24417	1109.75

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:50	10.7404	4.20217	0.122085	1121.96
8/19/2006 9:50	10.7404	4.20217	0.24417	1109.75
8/19/2006 9:50	10.7404	4.20217	0.610426	1114.64
8/19/2006 9:51	10.7404	4.20217	0.366256	1124.4
8/19/2006 9:51	10.7404	4.20217	0.24417	1128.07
8/19/2006 9:51	10.6397	4.20217	0.366256	1130.51
8/19/2006 9:51	10.6397	4.20217	0.24417	1129.29
8/19/2006 9:52	10.6397	4.20217	0.488341	1135.39
8/19/2006 9:52	10.6397	4.20217	0.366256	1137.83
8/19/2006 9:52	10.536	4.20217	0.488341	1136.61
8/19/2006 9:52	10.536	4.20217	0.488341	1150.04
8/19/2006 9:53	10.536	4.20217	0.366256	1142.72
8/19/2006 9:53	10.536	4.20217	0.122085	1147.6
8/19/2006 9:53	10.536	4.20217	0.24417	1147.6
8/19/2006 9:53	10.536	4.20217	0.488341	1161.03
8/19/2006 9:54	10.536	4.20217	0.488341	1154.93
8/19/2006 9:54	10.536	4.20217	0.366256	1164.69
8/19/2006 9:54	10.536	4.20217	0.24417	1251.37
8/19/2006 9:54	10.536	4.20217	0	1207.42
8/19/2006 9:55	10.536	4.20217	0.122085	1206.2
8/19/2006 9:55	10.4352	4.20217	0.488341	1202.54
8/19/2006 9:55	10.4352	4.20217	0.610426	1192.77
8/19/2006 9:55	10.4352	4.20217	0.24417	1204.98
8/19/2006 9:56	10.4352	4.20217	0	1201.32
8/19/2006 9:56	10.4352	4.20217	0.122085	1207.42
8/19/2006 9:56	10.4352	4.30472	0.24417	1213.53
8/19/2006 9:56	10.3345	4.30472	0.366256	1245.27
8/19/2006 9:57	10.3345	4.30472	0	1229.4
8/19/2006 9:57	10.3345	4.30472	0.366256	1231.84
8/19/2006 9:57	10.3345	4.30472	0.122085	1226.96
8/19/2006 9:57	10.3345	4.30472	0.610426	1236.72
8/19/2006 9:58	10.3345	4.30472	0.366256	1231.84
8/19/2006 9:58	10.3345	4.30472	0.488341	1236.72
8/19/2006 9:58	10.3345	4.30472	0.122085	1240.39
8/19/2006 9:58	10.2338	4.30472	0.122085	1242.83
8/19/2006 9:59	10.2338	4.30472	0.24417	1252.59
8/19/2006 9:59	10.2338	4.30472	0.366256	1251.37
8/19/2006 9:59	10.2338	4.30472	0.610426	1259.92
8/19/2006 9:59	10.2338	4.30472	0.122085	1258.7
8/19/2006 10:00	10.2338	4.30472	0.122085	1266.02
8/19/2006 10:00	10.2338	4.30472	0.24417	1268.47
8/19/2006 10:00	10.2338	4.30472	0.366256	1268.47
8/19/2006 10:00	10.2338	4.30472	0.122085	1272.13
8/19/2006 10:01	10.2338	4.30472	0.122085	1285.56

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:01	10.2338	4.30472	0.122085	1283.12
8/19/2006 10:01	10.127	4.30472	0	1279.45
8/19/2006 10:01	10.127	4.30472	0.122085	1289.22
8/19/2006 10:02	10.127	4.30472	0.366256	1295.32
8/19/2006 10:02	10.127	4.30472	0.610426	1298.99
8/19/2006 10:02	10.127	4.30472	0.366256	1306.31
8/19/2006 10:02	10.127	4.30472	0.24417	1336.83
8/19/2006 10:03	10.127	4.30472	12.5748	1373.46
8/19/2006 10:03	10.0262	4.15578	16.7257	1361.25
8/19/2006 10:03	10.2643	3.59419	8.17971	1556.59
8/19/2006 10:03	10.6977	3.59419	1.95336	1593.21
8/19/2006 10:04	10.6977	3.69674	2.07545	1621.29
8/19/2006 10:04	10.6977	3.90184	6.5926	1606.64
8/19/2006 10:04	10.6977	3.90184	4.88341	1604.2
8/19/2006 10:04	11.1647	3.79685	2.4417	1518.74
8/19/2006 10:05	11.3936	3.79685	0.732511	1439.38
8/19/2006 10:05	11.4974	3.79685	0.732511	1380.78
8/19/2006 10:05	11.3844	4.00195	0.488341	1317.3
8/19/2006 10:05	11.3844	4.00195	0.610426	1284.34
8/19/2006 10:06	11.4913	4.00195	1.09877	1247.71
8/19/2006 10:06	11.4913	4.00195	0.976682	1219.63
8/19/2006 10:06	11.5981	4.10206	0.610426	1201.32
8/19/2006 10:06	11.4974	4.20706	0.366256	1197.66
8/19/2006 10:07	11.2837	4.20706	0.24417	1187.89
8/19/2006 10:07	11.2837	4.20706	0.488341	1179.34
8/19/2006 10:07	11.183	4.30717	0.366256	1184.23
8/19/2006 10:07	11.0792	4.40728	0.122085	1178.12
8/19/2006 10:08	10.9785	4.40728	0.24417	1173.24
8/19/2006 10:08	10.9785	4.40728	0.488341	1180.56
8/19/2006 10:08	10.9785	4.40728	0.610426	1180.56
8/19/2006 10:08	11.0792	4.40728	0.488341	1173.24
8/19/2006 10:09	11.18	4.30717	0.732511	1165.91
8/19/2006 10:09	11.2807	4.30717	0.366256	1157.37
8/19/2006 10:09	11.2807	4.30717	0.488341	1146.38
8/19/2006 10:09	11.2807	4.20706	0.24417	1152.48
8/19/2006 10:10	11.3814	4.20706	0.122085	1136.61
8/19/2006 10:10	11.3814	4.20706	0.610426	1130.51
8/19/2006 10:10	11.4821	4.20706	0.488341	1141.5
8/19/2006 10:10	11.4821	4.20706	0.24417	1129.29
8/19/2006 10:11	11.4821	4.20706	0.488341	1139.06
8/19/2006 10:11	11.4821	4.20706	0.122085	1140.28
8/19/2006 10:11	11.3814	4.20706	0.488341	1137.83
8/19/2006 10:11	11.3814	4.20706	0.122085	1176.9
8/19/2006 10:12	11.3814	4.20706	0.366256	1168.36

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:12	11.3814	4.20706	0.24417	1163.47
8/19/2006 10:12	11.3814	4.20706	0.122085	1161.03
8/19/2006 10:12	11.3814	4.20706	0.488341	1170.8
8/19/2006 10:13	11.3814	4.20706	0.366256	1165.91
8/19/2006 10:13	11.3814	4.20706	0.24417	1174.46
8/19/2006 10:13	11.3814	4.20706	0.488341	1192.77
8/19/2006 10:13	11.3814	4.20706	0.488341	1191.55
8/19/2006 10:14	11.3814	4.20706	0.122085	1189.11
8/19/2006 10:14	11.3814	4.20706	0.488341	1203.76
8/19/2006 10:14	11.3814	4.20706	0.122085	1195.21
8/19/2006 10:14	11.3814	4.20706	0.488341	1200.1
8/19/2006 10:15	11.3814	4.20706	0.24417	1208.64
8/19/2006 10:15	11.3814	4.20706	0.122085	1222.07
8/19/2006 10:15	11.3814	4.20706	0.366256	1230.62
8/19/2006 10:15	11.2776	4.20706	0	1222.07
8/19/2006 10:16	11.2776	4.20706	0.24417	1226.96
8/19/2006 10:16	11.2776	4.20706	0.610426	1233.06
8/19/2006 10:16	11.2776	4.20706	0.24417	1234.28
8/19/2006 10:16	11.3814	4.10206	0.366256	1234.28
8/19/2006 10:17	11.5889	4.10206	0.732511	1233.06
8/19/2006 10:17	11.6897	4.00195	0.24417	1215.97
8/19/2006 10:17	11.6897	4.00195	0.488341	1233.06
8/19/2006 10:17	11.4882	4.10206	0.24417	1240.39
8/19/2006 10:18	11.3814	4.20461	0.122085	1261.14
8/19/2006 10:18	11.2746	4.30472	0.24417	1267.24
8/19/2006 10:18	11.1738	4.30472	0.488341	1284.34
8/19/2006 10:18	11.1738	4.30472	0	1296.54
8/19/2006 10:19	11.0731	4.30472	0	1302.65
8/19/2006 10:19	11.0731	4.30472	0.488341	1324.62
8/19/2006 10:19	11.0731	4.30472	0.366256	1327.07
8/19/2006 10:19	11.0731	4.30472	0.122085	1320.96
8/19/2006 10:20	11.0731	4.30472	0.488341	1323.4
8/19/2006 10:20	11.0731	4.30472	0.24417	1330.73
8/19/2006 10:20	10.9694	4.30472	0.24417	1336.83
8/19/2006 10:20	10.9694	4.30472	0.122085	1342.94
8/19/2006 10:21	10.9694	4.30472	0.610426	1341.72
8/19/2006 10:21	10.9694	4.30472	0.122085	1352.7
8/19/2006 10:21	10.9694	4.30472	0.366256	1351.48
8/19/2006 10:21	10.9694	4.40483	0.24417	1344.16
8/19/2006 10:22	10.9694	4.40483	0.488341	1356.37
8/19/2006 10:22	10.9694	4.40483	0.366256	1349.04
8/19/2006 10:22	10.9694	4.40483	0	1356.37
8/19/2006 10:22	10.9694	4.40483	0.366256	1363.69
8/19/2006 10:23	10.9694	4.40483	0.488341	1360.03

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:23	10.9694	4.40483	0.24417	1353.93
8/19/2006 10:23	10.9694	4.40483	0.122085	1371.02
8/19/2006 10:23	10.8656	4.40483	0.488341	1371.02
8/19/2006 10:24	10.8656	4.40483	0.122085	1358.81
8/19/2006 10:24	10.8656	4.40483	0.488341	1375.9
8/19/2006 10:24	10.8656	4.40483	0.122085	1364.91
8/19/2006 10:24	10.8656	4.40483	0.366256	1369.8
8/19/2006 10:25	10.7618	4.40483	0.24417	1378.34
8/19/2006 10:25	10.7618	4.40483	0.366256	1375.9
8/19/2006 10:25	10.7618	4.40483	0.122085	1380.78
8/19/2006 10:25	10.7618	4.40483	0.366256	1382
8/19/2006 10:26	10.7618	4.40483	0.366256	1385.67
8/19/2006 10:26	10.7618	4.40483	0.24417	1380.78
8/19/2006 10:26	10.7618	4.40483	0.122085	1385.67
8/19/2006 10:26	10.6611	4.40483	0.488341	1391.77
8/19/2006 10:27	10.6611	4.40483	0.122085	1397.88
8/19/2006 10:27	10.6611	4.40483	0.488341	1403.98
8/19/2006 10:27	10.6611	4.40483	0	1399.1
8/19/2006 10:27	10.6611	4.40483	0.610426	1403.98
8/19/2006 10:28	10.6611	4.40483	0	1395.43
8/19/2006 10:28	10.6611	4.50494	0.366256	1412.53
8/19/2006 10:28	10.6611	4.50494	0.488341	1412.53
8/19/2006 10:28	10.6611	4.50494	0.488341	1419.85
8/19/2006 10:29	10.6611	4.50494	0.366256	1405.2
8/19/2006 10:29	10.6611	4.50494	0.24417	1432.06
8/19/2006 10:29	10.6611	4.50494	0.122085	1423.51
8/19/2006 10:29	10.6611	4.50494	0.122085	1429.62
8/19/2006 10:30	10.5604	4.50494	0.366256	1441.83
8/19/2006 10:30	10.5604	4.50494	0.488341	1449.15
8/19/2006 10:30	10.5604	4.50494	0.488341	1452.81
8/19/2006 10:30	10.5604	4.50494	0.610426	1446.71
8/19/2006 10:31	10.5604	4.50494	0.610426	1451.59
8/19/2006 10:31	10.5604	4.50494	0.366256	1454.03
8/19/2006 10:31	10.5604	4.50494	0.488341	1445.49
8/19/2006 10:31	10.5604	4.50494	0	1455.26
8/19/2006 10:32	10.4597	4.50494	0.488341	1466.24
8/19/2006 10:32	10.4597	4.50494	0.122085	1460.14
8/19/2006 10:32	10.4597	4.50494	0.366256	1469.91
8/19/2006 10:32	10.4597	4.50494	0.122085	1469.91
8/19/2006 10:33	10.4597	4.50494	0.366256	1474.79
8/19/2006 10:33	10.4597	4.50494	0.24417	1493.1
8/19/2006 10:33	10.4597	4.50494	0.122085	1483.34
8/19/2006 10:33	10.4597	4.50494	0	1493.1
8/19/2006 10:34	10.4597	4.50494	0.366256	1501.65

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:34	10.4597	4.50494	0.488341	1500.43
8/19/2006 10:34	10.4597	4.50494	0.122085	1497.99
8/19/2006 10:34	10.3589	4.50494	0.366256	1507.75
8/19/2006 10:35	10.3589	4.50494	0.488341	1552.92
8/19/2006 10:35	10.3589	4.50494	0.122085	1540.72
8/19/2006 10:35	10.3589	4.50494	0.488341	1541.94
8/19/2006 10:35	10.3589	4.50494	0.366256	1532.17
8/19/2006 10:36	10.3589	4.50494	0.24417	1533.39
8/19/2006 10:36	10.3589	4.50494	0.24417	1588.33
8/19/2006 10:36	10.3589	4.50494	0.488341	1570.02
8/19/2006 10:36	10.3589	4.50494	0.610426	1633.5
8/19/2006 10:37	10.3589	4.50494	0.24417	1701.87
8/19/2006 10:37	10.3589	4.50494	0.24417	1687.22
8/19/2006 10:37	10.3589	4.50494	0.610426	1657.92
8/19/2006 10:37	10.3589	4.50494	0.24417	1637.16
8/19/2006 10:38	10.2582	4.50494	0.366256	1671.35
8/19/2006 10:38	10.2582	4.50494	0.122085	1660.36
8/19/2006 10:38	10.2582	4.50494	0.610426	1653.03
8/19/2006 10:38	10.2582	4.50494	0.122085	1637.16
8/19/2006 10:39	10.2582	4.50494	0.488341	1635.94
8/19/2006 10:39	10.2582	4.50494	0.24417	1693.32
8/19/2006 10:39	10.2582	4.50494	0.24417	1681.11
8/19/2006 10:39	10.2582	4.50494	0.488341	1684.78
8/19/2006 10:40	10.1514	4.50494	0.24417	1676.23
8/19/2006 10:40	10.1514	4.50494	0.488341	1677.45
8/19/2006 10:40	10.1514	4.50494	0.122085	1701.87
8/19/2006 10:40	10.1514	4.50494	0.488341	1690.88
8/19/2006 10:41	10.1514	4.50494	0.122085	1701.87
8/19/2006 10:41	10.1514	4.50494	0.488341	1693.32
8/19/2006 10:41	10.1514	4.50494	0.122085	1705.53
8/19/2006 10:41	10.1514	4.50494	0.488341	1701.87
8/19/2006 10:42	10.1514	4.50494	0.366256	1706.75
8/19/2006 10:42	10.1514	4.50494	0.122085	1704.31
8/19/2006 10:42	10.1514	4.50494	0.122085	1709.19
8/19/2006 10:42	10.1514	4.50494	0.122085	1711.63
8/19/2006 10:43	10.1514	4.50494	0.366256	1704.31
8/19/2006 10:43	10.1514	4.50494	0.610426	1707.97
8/19/2006 10:43	10.1514	4.50494	0.488341	1743.38
8/19/2006 10:43	10.1514	4.50494	0.122085	1722.62
8/19/2006 10:44	10.1514	4.50494	0	1714.08
8/19/2006 10:44	10.1514	4.50494	0.122085	1728.73
8/19/2006 10:44	10.0507	4.50494	0.24417	1744.6
8/19/2006 10:44	10.0507	4.50494	0.488341	1748.26
8/19/2006 10:45	10.0507	4.50494	0	1761.69

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:45	10.0507	4.50494	0.24417	1776.34
8/19/2006 10:45	10.0507	4.50494	0.488341	1767.79
8/19/2006 10:45	10.0507	4.50494	0.610426	1765.35
8/19/2006 10:46	10.0507	4.50494	0.488341	1762.91
8/19/2006 10:46	10.0507	4.50494	0.366256	1753.14
8/19/2006 10:46	10.0507	4.50494	0.366256	1755.59
8/19/2006 10:46	10.0507	4.50494	0.366256	1749.48
8/19/2006 10:47	10.0507	4.50494	0.122085	1754.36
8/19/2006 10:47	10.0507	4.50494	0.24417	1766.57
8/19/2006 10:47	10.0507	4.50494	0.366256	1790.99
8/19/2006 10:47	9.94689	4.50494	0.488341	1770.24
8/19/2006 10:48	9.94689	4.50494	0	1780
8/19/2006 10:48	9.94689	4.60505	0.366256	1778.78
8/19/2006 10:48	9.94689	4.60505	0.366256	1766.57
8/19/2006 10:48	9.84312	4.60505	0	1825.17
8/19/2006 10:49	9.84312	4.60505	0.488341	1822.73
8/19/2006 10:49	9.84312	4.60505	0.122085	1820.29
8/19/2006 10:49	9.84312	4.60505	0.122085	1861.8
8/19/2006 10:49	9.84312	4.60505	0.366256	1831.28
8/19/2006 10:50	9.84312	4.60505	0.122085	1817.85
8/19/2006 10:50	9.84312	4.60505	0.366256	1810.52
8/19/2006 10:50	9.84312	4.60505	0.24417	1800.76
8/19/2006 10:50	9.84312	4.5025	0.122085	1784.89
8/19/2006 10:51	9.84312	4.5025	0.366256	1788.55
8/19/2006 10:51	9.84312	4.5025	0	1767.79
8/19/2006 10:51	9.84312	4.5025	0.488341	1773.9
8/19/2006 10:51	9.84312	4.5025	0.366256	1844.71
8/19/2006 10:52	9.84312	4.5025	0.122085	2395.31
8/19/2006 10:52	9.84312	4.40239	0.610426	2508.85
8/19/2006 10:52	9.94384	4.40239	0	2533.27
8/19/2006 10:52	9.94384	4.40239	0.366256	2438.04
8/19/2006 10:53	9.94384	4.40239	0	2549.14
8/19/2006 10:53	9.94384	4.40239	0.488341	3422.05
8/19/2006 10:53	9.94384	4.40239	0.122085	2987.43
8/19/2006 10:53	9.94384	4.40239	0	2627.27
8/19/2006 10:54	9.94384	4.40239	0.488341	2344.04
8/19/2006 10:54	9.94384	4.40239	0.122085	2220.73
8/19/2006 10:54	9.94384	4.40239	0.610426	2405.08
8/19/2006 10:54	9.94384	4.40239	0	2290.32
8/19/2006 10:55	9.83702	4.40239	0.24417	2230.5
8/19/2006 10:55	9.83702	4.40239	0.366256	2159.69
8/19/2006 10:55	9.83702	4.40239	0.122085	2092.54
8/19/2006 10:55	9.83702	4.40239	0.122085	2062.02
8/19/2006 10:56	9.83702	4.40239	0.24417	2062.02

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:56	9.83702	4.40239	0.488341	2094.98
8/19/2006 10:56	9.83702	4.40239	0.24417	2019.29
8/19/2006 10:56	9.83702	4.40239	0	2092.54
8/19/2006 10:57	9.83702	4.40239	0.24417	2163.35
8/19/2006 10:57	9.73324	4.40239	0.488341	2110.85
8/19/2006 10:57	9.73324	4.40239	0.488341	2055.92
8/19/2006 10:57	9.73324	4.40239	0.488341	2029.06
8/19/2006 10:58	9.73324	4.40239	0.488341	2014.41
8/19/2006 10:58	9.73324	4.40239	0.366256	2007.08
8/19/2006 10:58	9.73324	4.40239	0.24417	2051.03
8/19/2006 10:58	9.73324	4.40239	0.122085	2073.01
8/19/2006 10:59	9.73324	4.40239	-0.12209	2218.29
8/19/2006 10:59	9.63252	4.40239	0	2167.01
8/19/2006 10:59	9.63252	4.40239	0.122085	2090.1
8/19/2006 10:59	9.63252	4.40239	0.122085	2066.9
8/19/2006 11:00	9.63252	4.40239	0.24417	2025.39
8/19/2006 11:00	9.63252	4.40239	0.488341	2013.19
8/19/2006 11:00	9.63252	4.40239	0.366256	2015.63
8/19/2006 11:00	9.63252	4.40239	0.24417	1991.21
8/19/2006 11:01	9.63252	4.40239	0.24417	1992.43
8/19/2006 11:01	9.63252	4.40239	0.24417	1994.87
8/19/2006 11:01	9.52265	4.40239	0.24417	1985.11
8/19/2006 11:01	9.52265	4.40239	0.122085	1964.35
8/19/2006 11:02	9.52265	4.40239	0.122085	1948.48
8/19/2006 11:02	9.52265	4.40239	0.122085	1924.06
8/19/2006 11:02	9.52265	4.40239	0	1924.06
8/19/2006 11:02	9.52265	4.40239	0	1935.05
8/19/2006 11:03	9.52265	4.40239	0	1933.83
8/19/2006 11:03	9.52265	4.40239	0.122085	1932.61
8/19/2006 11:03	9.52265	4.40239	0	1920.4
8/19/2006 11:03	9.52265	4.40239	0	1915.52
8/19/2006 11:04	9.52265	4.40239	0	1915.52
8/19/2006 11:04	9.52265	4.40239	0	1914.3
8/19/2006 11:04	9.52265	4.40239	0.366256	1904.53
8/19/2006 11:04	9.42193	4.40239	0.24417	1943.6
8/19/2006 11:05	9.42193	4.40239	0	1927.73
8/19/2006 11:05	9.42193	4.40239	0	1926.5
8/19/2006 11:05	9.42193	4.40239	0.24417	1955.81
8/19/2006 11:05	9.42193	4.40239	0.488341	1968.01
8/19/2006 11:06	9.42193	4.40239	0.24417	1979
8/19/2006 11:06	9.42193	4.40239	0.24417	1991.21
8/19/2006 11:06	9.42193	4.40239	0.488341	1979
8/19/2006 11:06	9.42193	4.40239	0.122085	1974.12
8/19/2006 11:07	9.42193	4.40239	0.24417	1968.01

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Run 2

8/19/2006 11:07	9.42193	4.40239	0.122085	1981.44
8/19/2006 11:07	9.42193	4.40239	0.24417	1974.12
8/19/2006 11:07	9.32121	4.40239	0.122085	1960.69
8/19/2006 11:08	9.32121	4.40239	0.366256	1974.12
8/19/2006 11:08	9.32121	4.40239	0	1960.69
8/19/2006 11:08	9.32121	4.40239	0.366256	1987.55
8/19/2006 11:08	9.32121	4.40239	0.24417	1960.69
8/19/2006 11:09	9.32121	4.40239	0.122085	1961.91
8/19/2006 11:09	9.32121	4.40239	0	1965.57
8/19/2006 11:09	9.32121	4.40239	0.24417	1968.01
8/19/2006 11:09	9.32121	4.40239	0.488341	1961.91
8/19/2006 11:10	9.32121	4.40239	0	1952.14
8/19/2006 11:10	9.32121	4.40239	0.610426	1953.36
8/19/2006 11:10	9.32121	4.40239	0.366256	1949.7
8/19/2006 11:10	9.32121	4.40239	0.24417	1946.04
8/19/2006 11:11	9.32121	4.40239	0.24417	1952.14
8/19/2006 11:11	9.32121	4.40239	0.610426	1948.48
8/19/2006 11:11	9.32121	4.40239	0	1953.36
8/19/2006 11:11	9.32121	4.40239	0.488341	1960.69
8/19/2006 11:12	9.32121	4.40239	0	1959.47
8/19/2006 11:12	9.32121	4.40239	0.366256	1957.03
8/19/2006 11:12	9.32121	4.40239	0	1943.6
8/19/2006 11:12	9.32121	4.40239	0	1955.81
8/19/2006 11:13	9.32121	4.40239	0.366256	1957.03
8/19/2006 11:13	9.32121	4.40239	0.610426	1968.01
8/19/2006 11:13	9.32121	4.40239	0.366256	1959.47
8/19/2006 11:13	9.32121	4.40239	0.122085	1948.48
8/19/2006 11:14	9.32121	4.40239	0.24417	1965.57
8/19/2006 11:14	9.32121	4.40239	0.122085	1979
8/19/2006 11:14	9.32121	4.40239	0.366256	1959.47
8/19/2006 11:14	9.21743	4.40239	0.488341	1972.9
8/19/2006 11:15	9.21743	4.40239	0.610426	1969.23
8/19/2006 11:15	9.21743	4.40239	0.366256	2002.2
8/19/2006 11:15	9.21743	4.40239	0.366256	1983.88
8/19/2006 11:15	9.21743	4.40239	0.24417	1993.65
8/19/2006 11:16	9.21743	4.40239	0.122085	1989.99
8/19/2006 11:16	9.21743	4.40239	0.366256	1989.99
8/19/2006 11:16	9.21743	4.40239	0.488341	2002.2
8/19/2006 11:16	9.21743	4.40239	0.610426	1989.99
8/19/2006 11:17	9.21743	4.40239	0.366256	1989.99
8/19/2006 11:17	9.21743	4.40239	0.122085	1991.21
8/19/2006 11:17	9.11366	4.40239	0.24417	1986.33
8/19/2006 11:17	9.11366	4.40239	0.366256	1976.56
8/19/2006 11:18	9.11366	4.40239	0.122085	2004.64

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:18	9.11366	4.40239	0.488341	2000.98
8/19/2006 11:18	9.11366	4.40239	0.24417	1989.99
8/19/2006 11:18	9.11366	4.40239	0.24417	2010.74
8/19/2006 11:19	9.11366	4.40239	0.488341	2010.74
8/19/2006 11:19	9.11366	4.40239	0	2007.08
8/19/2006 11:19	9.11366	4.40239	0.488341	2007.08
8/19/2006 11:19	9.11366	4.40239	0.24417	2005.86
8/19/2006 11:20	9.11366	4.40239	0.366256	1999.76
8/19/2006 11:20	9.11366	4.40239	0.488341	2005.86
8/19/2006 11:20	9.11366	4.40239	0.366256	2005.86
8/19/2006 11:20	9.11366	4.40239	0	2002.2
8/19/2006 11:21	9.11366	4.40239	0.488341	1998.53
8/19/2006 11:21	9.11366	4.40239	0.24417	2016.85
8/19/2006 11:21	9.11366	4.40239	0.24417	2019.29
8/19/2006 11:21	9.11366	4.40239	0.366256	2011.96
8/19/2006 11:22	9.11366	4.40239	0.24417	2009.52
8/19/2006 11:22	9.11366	4.40239	0.366256	2005.86
8/19/2006 11:22	9.11366	4.40239	0.24417	2044.93
8/19/2006 11:22	9.11366	4.40239	0.122085	2031.5
8/19/2006 11:23	9.11366	4.40239	0.24417	2025.39
8/19/2006 11:23	9.11366	4.40239	0.366256	2038.82
8/19/2006 11:23	9.11366	4.40239	0.854597	2032.72
8/19/2006 11:23	9.11366	4.0166	1.09877	2033.94
8/19/2006 11:30	9.31815	4.32182	0.610426	2109.63
8/19/2006 11:30	9.21743	4.32182	0.24417	2103.53
8/19/2006 11:30	9.11366	4.42193	0.366256	2103.53
8/19/2006 11:30	9.11366	4.42193	0.488341	2093.76
8/19/2006 11:31	9.11366	4.42193	0.488341	2123.06
8/19/2006 11:31	9.01294	4.42193	0.366256	2101.09
8/19/2006 11:31	9.01294	4.42193	0.366256	2109.63
8/19/2006 11:31	9.01294	4.42193	0.610426	2101.09
8/19/2006 11:32	9.01294	4.42193	0.122085	2102.31
8/19/2006 11:32	9.01294	4.42193	0.24417	2125.5
8/19/2006 11:32	9.01294	4.42193	0.488341	2113.3
8/19/2006 11:32	9.01294	4.42193	0.122085	2135.27
8/19/2006 11:33	9.01294	4.42193	0.366256	2132.83
8/19/2006 11:33	9.01294	4.42193	0.488341	2126.72
8/19/2006 11:33	9.01294	4.42193	0.366256	2124.28
8/19/2006 11:33	9.01294	4.42193	0	2129.17
8/19/2006 11:34	9.01294	4.42193	0.366256	2127.95
8/19/2006 11:34	9.01294	4.42193	0.610426	2125.5
8/19/2006 11:34	9.01294	4.42193	0.488341	2142.6
8/19/2006 11:34	9.01294	4.42193	0.122085	2125.5
8/19/2006 11:35	9.01294	4.42193	0.488341	2131.61

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:35	9.01294	4.42193	0.24417	2162.13
8/19/2006 11:35	8.91222	4.42193	0.366256	2141.37
8/19/2006 11:35	8.91222	4.42193	0.24417	2160.91
8/19/2006 11:36	8.91222	4.42193	0.24417	2169.45
8/19/2006 11:36	8.91222	4.42193	0.24417	2160.91
8/19/2006 11:36	8.91222	4.42193	0.488341	2170.68
8/19/2006 11:36	8.91222	4.42193	0.610426	2157.25
8/19/2006 11:37	8.91222	4.42193	0.366256	2143.82
8/19/2006 11:37	8.91222	4.42193	0.24417	2127.95
8/19/2006 11:37	8.91222	4.42193	0.366256	2141.37
8/19/2006 11:37	8.91222	4.42193	0.488341	2092.54
8/19/2006 11:38	8.91222	4.42193	0.122085	2091.32
8/19/2006 11:38	8.91222	4.42193	0.122085	2075.45
8/19/2006 11:38	8.91222	4.42193	0.488341	2052.25
8/19/2006 11:38	8.91222	4.42193	0.488341	2043.71
8/19/2006 11:39	8.91222	4.42193	0.122085	2042.49
8/19/2006 11:39	8.91222	4.42193	0.488341	2000.98
8/19/2006 11:39	8.91222	4.42193	0.122085	1982.66
8/19/2006 11:39	8.91222	4.42193	0.366256	1958.25
8/19/2006 11:40	8.91222	4.42193	0.610426	1933.83
8/19/2006 11:40	8.91222	4.42193	0.122085	1914.3
8/19/2006 11:40	8.91222	4.42193	0.610426	1904.53
8/19/2006 11:40	8.91222	4.42193	0.24417	1882.55
8/19/2006 11:41	8.91222	4.42193	0.24417	1856.92
8/19/2006 11:41	8.91222	4.42193	0.488341	1834.94
8/19/2006 11:41	8.91222	4.42193	0.366256	1822.73
8/19/2006 11:41	8.91222	4.42193	0.366256	1801.98
8/19/2006 11:42	8.91222	4.42193	0.488341	1790.99
8/19/2006 11:42	8.91222	4.42193	0.24417	1797.09
8/19/2006 11:42	8.91222	4.42193	0.610426	1770.24
8/19/2006 11:42	8.91222	4.42193	0	1749.48
8/19/2006 11:43	8.91222	4.42193	0.488341	1745.82
8/19/2006 11:43	8.91222	4.42193	0.122085	1727.51
8/19/2006 11:43	8.91222	4.42193	0.366256	1720.18
8/19/2006 11:43	8.91222	4.42193	0.122085	1750.7
8/19/2006 11:44	8.91222	4.42193	0.610426	1711.63
8/19/2006 11:44	8.91222	4.42193	0.122085	1688.44
8/19/2006 11:44	8.91222	4.42193	0.366256	1681.11
8/19/2006 11:44	8.91222	4.42193	0.366256	1668.9
8/19/2006 11:45	8.91222	4.42193	0.366256	1665.24
8/19/2006 11:45	8.91222	4.42193	0.122085	1650.59
8/19/2006 11:45	8.91222	4.42193	0.488341	1653.03
8/19/2006 11:45	8.91222	4.42193	0	1633.5
8/19/2006 11:46	8.91222	4.42193	0.610426	1629.84

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:46	8.91222	4.42193	0.122085	1607.86
8/19/2006 11:46	8.91222	4.42193	0.122085	1600.54
8/19/2006 11:46	8.91222	4.42193	0.24417	1602.98
8/19/2006 11:47	9.01294	4.42193	0.488341	1591.99
8/19/2006 11:47	9.01294	4.42193	0.24417	1590.77
8/19/2006 11:47	9.01294	4.42193	0.122085	1579.78
8/19/2006 11:47	9.01294	4.42193	0.24417	1573.68
8/19/2006 11:48	9.01294	4.42193	0.488341	1574.9
8/19/2006 11:48	9.01294	4.42193	0	1562.69
8/19/2006 11:48	9.01294	4.42193	0.488341	1571.24
8/19/2006 11:48	9.01294	4.42193	0.122085	1557.81
8/19/2006 11:49	9.01294	4.42193	0	1563.91
8/19/2006 11:49	9.01294	4.42193	0.122085	1555.37
8/19/2006 11:49	9.01294	4.42193	0.366256	1555.37
8/19/2006 11:49	9.01294	4.42193	0	1540.72
8/19/2006 11:50	9.01294	4.42193	0.488341	1551.7
8/19/2006 11:50	9.01294	4.42193	0.122085	1545.6
8/19/2006 11:50	9.01294	4.42193	0.366256	1544.38
8/19/2006 11:50	9.01294	4.42193	0.488341	1534.61
8/19/2006 11:51	9.01294	4.42193	0.366256	1534.61
8/19/2006 11:51	9.01294	4.42193	0.122085	1540.72
8/19/2006 11:51	9.01294	4.42193	0.122085	1533.39
8/19/2006 11:51	9.01294	4.42193	0.366256	1539.49
8/19/2006 11:52	9.01294	4.42193	0.366256	1539.49
8/19/2006 11:52	9.01294	4.42193	0.488341	1538.27
8/19/2006 11:52	9.01294	4.42193	0.24417	1538.27
8/19/2006 11:52	9.01294	4.42193	0.24417	1529.73
8/19/2006 11:53	9.01294	4.42193	0.122085	1522.4
8/19/2006 11:53	9.01294	4.42193	0.366256	1524.84
8/19/2006 11:53	9.01294	4.42193	0.122085	1521.18
8/19/2006 11:53	9.01294	4.42193	0.488341	1522.4
8/19/2006 11:54	9.01294	4.42193	0.122085	1523.62
8/19/2006 11:54	9.11366	4.42193	0.610426	1519.96
8/19/2006 11:54	9.11366	4.42193	0.122085	1507.75
8/19/2006 11:54	9.11366	4.42193	0.488341	1515.08
8/19/2006 11:55	9.11366	4.42193	0.122085	1511.41
8/19/2006 11:55	9.11366	4.42193	0.488341	1528.51
8/19/2006 11:55	9.11366	4.42193	0.366256	1518.74
8/19/2006 11:55	9.11366	4.42193	0.122085	1518.74
8/19/2006 11:56	9.11366	4.42193	0.366256	1538.27
8/19/2006 11:56	9.11366	4.42193	0.488341	1527.29
8/19/2006 11:56	9.11366	4.42193	0.122085	1524.84
8/19/2006 11:56	9.11366	4.42193	0.366256	1530.95
8/19/2006 11:57	9.11366	4.42193	0.488341	1527.29

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:57	9.11366	4.42193	0.122085	1518.74
8/19/2006 11:57	9.11366	4.42193	0.24417	1516.3
8/19/2006 11:57	9.11366	4.42193	0.488341	1522.4
8/19/2006 11:58	9.11366	4.42193	0.122085	1511.41
8/19/2006 11:58	9.01294	4.42193	0.488341	1519.96
8/19/2006 11:58	9.01294	4.42193	0.366256	1507.75
8/19/2006 11:58	9.01294	4.42193	0.122085	1506.53
8/19/2006 11:59	9.01294	4.42193	0.610426	1512.64
8/19/2006 11:59	9.01294	4.42193	0.24417	1512.64
8/19/2006 11:59	9.01294	4.42193	0.122085	1522.4
8/19/2006 11:59	9.01294	4.42193	0.24417	1517.52
8/19/2006 12:00	9.01294	4.42193	0.366256	1510.19
8/19/2006 12:00	9.01294	4.42193	0.122085	1501.65
8/19/2006 12:00	9.01294	4.42193	0.24417	1516.3
8/19/2006 12:00	9.11366	4.42193	0.24417	1522.4
8/19/2006 12:01	9.11366	4.42193	0.488341	1508.97
8/19/2006 12:01	9.11366	4.42193	0.488341	1513.86
8/19/2006 12:01	9.11366	4.42193	0.488341	1513.86
8/19/2006 12:01	9.11366	4.42193	0.366256	1511.41
8/19/2006 12:02	9.11366	4.42193	0.122085	1502.87
8/19/2006 12:02	9.11366	4.42193	0.122085	1504.09
8/19/2006 12:02	9.11366	4.42193	0	1515.08
8/19/2006 12:02	9.11366	4.42193	0	1502.87
8/19/2006 12:03	9.11366	4.42193	0.610426	1506.53
8/19/2006 12:03	9.21743	4.42193	0	1512.64
8/19/2006 12:03	9.21743	4.42193	0.488341	1513.86
8/19/2006 12:03	9.21743	4.42193	0.366256	1497.99
8/19/2006 12:04	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:04	9.21743	4.42193	0	1502.87
8/19/2006 12:04	9.21743	4.42193	0	1502.87
8/19/2006 12:04	9.21743	4.42193	0.122085	1502.87
8/19/2006 12:05	9.21743	4.42193	0.122085	1513.86
8/19/2006 12:05	9.21743	4.42193	0.366256	1511.41
8/19/2006 12:05	9.21743	4.42193	0.24417	1505.31
8/19/2006 12:05	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:06	9.21743	4.42193	0.122085	1506.53
8/19/2006 12:06	9.21743	4.42193	0.366256	1512.64
8/19/2006 12:06	9.21743	4.42193	0.366256	1518.74
8/19/2006 12:06	9.21743	4.42193	0.366256	1505.31
8/19/2006 12:07	9.21743	4.42193	0	1496.76
8/19/2006 12:07	9.21743	4.42193	0.488341	1517.52
8/19/2006 12:07	9.21743	4.42193	0.24417	1506.53
8/19/2006 12:07	9.21743	4.42193	0.488341	1502.87
8/19/2006 12:08	9.21743	4.42193	0.122085	1499.21

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:08	9.21743	4.42193	0.122085	1491.88
8/19/2006 12:08	9.21743	4.42193	0.122085	1495.54
8/19/2006 12:08	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:09	9.21743	4.42193	0.122085	1495.54
8/19/2006 12:09	9.21743	4.42193	0.366256	1508.97
8/19/2006 12:09	9.21743	4.42193	0.488341	1501.65
8/19/2006 12:09	9.21743	4.42193	0.24417	1488.22
8/19/2006 12:10	9.21743	4.42193	0.366256	1504.09
8/19/2006 12:10	9.21743	4.42193	0.24417	1493.1
8/19/2006 12:10	9.21743	4.42193	0.366256	1496.76
8/19/2006 12:10	9.21743	4.42193	0.610426	1504.09
8/19/2006 12:11	9.21743	4.42193	0.488341	1494.32
8/19/2006 12:11	9.21743	4.42193	0.122085	1494.32
8/19/2006 12:11	9.21743	4.42193	0.366256	1501.65
8/19/2006 12:11	9.21743	4.42193	0.488341	1499.21
8/19/2006 12:12	9.21743	4.42193	0.24417	1493.1
8/19/2006 12:12	9.21743	4.42193	0.122085	1491.88
8/19/2006 12:12	9.21743	4.42193	0.610426	1504.09
8/19/2006 12:12	9.21743	4.42193	0.610426	1507.75
8/19/2006 12:13	9.21743	4.42193	0.366256	1493.1
8/19/2006 12:13	9.31815	4.42193	0.122085	1497.99
8/19/2006 12:13	9.31815	4.42193	0.24417	1495.54
8/19/2006 12:13	9.31815	4.42193	0.488341	1497.99
8/19/2006 12:14	9.31815	4.42193	0.366256	1494.32
8/19/2006 12:14	9.31815	4.42193	0	1491.88
8/19/2006 12:14	9.31815	4.42193	0.122085	1490.66
8/19/2006 12:14	9.31815	4.42193	0.24417	1490.66
8/19/2006 12:15	9.31815	4.42193	0.610426	1485.78
8/19/2006 12:15	9.31815	4.42193	0.488341	1494.32
8/19/2006 12:15	9.31815	4.42193	0.488341	1490.66
8/19/2006 12:15	9.31815	4.42193	0.488341	1488.22
8/19/2006 12:16	9.31815	4.42193	0.366256	1491.88
8/19/2006 12:16	9.31815	4.42193	0.122085	1485.78
8/19/2006 12:16	9.31815	4.42193	0.366256	1488.22
8/19/2006 12:16	9.31815	4.42193	0.366256	1478.45
8/19/2006 12:17	9.31815	4.42193	0.122085	1482.11
8/19/2006 12:17	9.31815	4.42193	0.24417	1478.45
8/19/2006 12:17	9.31815	4.42193	0.610426	1484.56
8/19/2006 12:17	9.31815	4.42193	0.122085	1480.89
8/19/2006 12:18	9.31815	4.42193	0.366256	1474.79
8/19/2006 12:18	9.31815	4.42193	0.122085	1479.67
8/19/2006 12:18	9.31815	4.42193	0.24417	1472.35
8/19/2006 12:18	9.31815	4.42193	0.488341	1491.88
8/19/2006 12:19	9.31815	4.42193	0.24417	1491.88

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:19	9.31815	4.42193	0.366256	1484.56
8/19/2006 12:19	9.31815	4.42193	0.122085	1483.34
8/19/2006 12:19	9.31815	4.42193	0.610426	1494.32
8/19/2006 12:20	9.31815	4.42193	0.24417	1489.44
8/19/2006 12:20	9.31815	4.42193	0.122085	1488.22
8/19/2006 12:20	9.31815	4.42193	0.366256	1497.99
8/19/2006 12:20	9.31815	4.42193	0.24417	1505.31
8/19/2006 12:21	9.31815	4.42193	0.366256	1499.21
8/19/2006 12:21	9.42803	4.42193	0.610426	1502.87
8/19/2006 12:21	9.42803	4.42193	0	1491.88
8/19/2006 12:21	9.42803	4.42193	0.366256	1493.1
8/19/2006 12:22	9.42803	4.42193	0.488341	1491.88
8/19/2006 12:22	9.42803	4.42193	0.122085	1502.87
8/19/2006 12:22	9.42803	4.42193	0.488341	1508.97
8/19/2006 12:22	9.42803	4.42193	0.122085	1497.99
8/19/2006 12:23	9.42803	4.42193	0.488341	1506.53
8/19/2006 12:23	9.42803	4.42193	0.122085	1508.97
8/19/2006 12:23	9.42803	4.42193	0.24417	1506.53
8/19/2006 12:23	9.42803	4.42193	0.488341	1505.31
8/19/2006 12:24	9.52875	4.42193	0.122085	1513.86
8/19/2006 12:24	9.52875	4.42193	0.610426	1518.74
8/19/2006 12:24	9.52875	4.42193	0	1511.41
8/19/2006 12:24	9.52875	4.42193	0.366256	1510.19
8/19/2006 12:25	9.52875	4.42193	0.122085	1512.64
8/19/2006 12:25	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:25	9.52875	4.42193	0.366256	1505.31
8/19/2006 12:25	9.52875	4.42193	0.122085	1513.86
8/19/2006 12:26	9.52875	4.42193	0.488341	1512.64
8/19/2006 12:26	9.52875	4.42193	0.24417	1505.31
8/19/2006 12:26	9.52875	4.42193	0.24417	1517.52
8/19/2006 12:26	9.52875	4.42193	0.610426	1513.86
8/19/2006 12:27	9.52875	4.42193	0.122085	1519.96
8/19/2006 12:27	9.52875	4.42193	0.366256	1521.18
8/19/2006 12:27	9.52875	4.42193	0.366256	1517.52
8/19/2006 12:27	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:28	9.52875	4.42193	0.122085	1506.53
8/19/2006 12:28	9.52875	4.42193	0.122085	1516.3
8/19/2006 12:28	9.52875	4.42193	0.366256	1516.3
8/19/2006 12:28	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:29	9.52875	4.42193	0.24417	1510.19
8/19/2006 12:29	9.52875	4.42193	0.24417	1522.4
8/19/2006 12:29	9.52875	4.42193	0.488341	1515.08
8/19/2006 12:29	9.52875	4.42193	0.122085	1515.08
8/19/2006 12:30	9.52875	4.42193	0.366256	1526.07

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:30	9.52875	4.42193	0.122085	1527.29
8/19/2006 12:30	9.62947	4.42193	0.24417	1517.52
8/19/2006 12:30	9.62947	4.42193	0.610426	1524.84
8/19/2006 12:31	9.62947	4.42193	0.366256	1533.39
8/19/2006 12:31	9.62947	4.42193	0.24417	1528.51
8/19/2006 12:31	9.62947	4.42193	0.122085	1533.39
8/19/2006 12:31	9.62947	4.42193	0.488341	1544.38
8/19/2006 12:32	9.62947	4.42193	0	1534.61
8/19/2006 12:32	9.52875	4.42193	0.488341	1541.94
8/19/2006 12:32	9.52875	4.42193	0.488341	1545.6
8/19/2006 12:32	9.52875	4.42193	0.122085	1546.82
8/19/2006 12:33	9.52875	4.42193	0.24417	1539.49
8/19/2006 12:33	9.52875	4.42193	0.488341	1540.72
8/19/2006 12:33	9.52875	4.42193	0.24417	1545.6
8/19/2006 12:33	9.42803	4.42193	0	1537.05
8/19/2006 12:34	9.42803	4.42193	0.24417	1538.27
8/19/2006 12:34	9.42803	4.42193	0.488341	1546.82
8/19/2006 12:34	9.42803	4.42193	0.366256	1537.05
8/19/2006 12:34	9.52875	4.42193	0.122085	1534.61
8/19/2006 12:35	9.52875	4.42193	0.24417	1551.7
8/19/2006 12:35	9.52875	4.42193	0.366256	1545.6
8/19/2006 12:35	9.52875	4.42193	0.366256	1549.26
8/19/2006 12:35	9.52875	4.42193	0.366256	1552.92
8/19/2006 12:36	9.52875	4.42193	0.366256	1550.48
8/19/2006 12:36	9.52875	4.42193	0.122085	1544.38
8/19/2006 12:36	9.52875	4.42193	0.488341	1559.03
8/19/2006 12:36	9.52875	4.42193	0.24417	1552.92
8/19/2006 12:37	9.52875	4.42193	0.366256	1550.48
8/19/2006 12:37	9.52875	4.42193	0.366256	1556.59
8/19/2006 12:37	9.52875	4.42193	0.122085	1550.48
8/19/2006 12:37	9.52875	4.42193	0.488341	1555.37
8/19/2006 12:38	9.52875	4.42193	0.122085	1557.81
8/19/2006 12:38	9.52875	4.42193	0.366256	1557.81
8/19/2006 12:38	9.52875	4.42193	0.24417	1556.59
8/19/2006 12:38	9.52875	4.42193	0	1562.69
8/19/2006 12:39	9.52875	4.42193	0.610426	1568.8
8/19/2006 12:39	9.52875	4.42193	0	1560.25
8/19/2006 12:39	9.52875	4.42193	0.610426	1566.35
8/19/2006 12:39	9.52875	4.42193	0	1572.46
8/19/2006 12:40	9.52875	4.42193	0.366256	1573.68
8/19/2006 12:40	9.52875	4.42193	0.24417	1577.34
8/19/2006 12:40	9.52875	4.42193	0.122085	1560.25
8/19/2006 12:40	9.52875	4.42193	0.488341	1570.02
8/19/2006 12:41	9.52875	4.42193	0.122085	1571.24

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:41	9.52875	4.42193	0.24417	1572.46
8/19/2006 12:41	9.52875	4.42193	0.122085	1572.46
8/19/2006 12:41	9.52875	4.42193	0.24417	1570.02
8/19/2006 12:42	9.52875	4.42193	0.610426	1591.99
8/19/2006 12:42	9.52875	4.42193	0	1595.65
8/19/2006 12:42	9.52875	4.42193	0.488341	1577.34
8/19/2006 12:42	9.52875	4.42193	0.366256	1589.55
8/19/2006 12:43	9.52875	4.42193	0.24417	1583.45
8/19/2006 12:43	9.52875	4.42193	0.24417	1589.55
8/19/2006 12:43	9.52875	4.42193	0.488341	1584.67
8/19/2006 12:43	9.52875	4.42193	0.24417	1582.22
8/19/2006 12:44	9.52875	4.42193	0	1581
8/19/2006 12:44	9.62947	4.42193	0.24417	1585.89
8/19/2006 12:44	9.62947	4.42193	0.366256	1587.11
8/19/2006 12:44	9.62947	4.42193	0.366256	1582.22
8/19/2006 12:45	9.62947	4.42193	0.24417	1583.45
8/19/2006 12:45	9.62947	4.42193	0.488341	1583.45
8/19/2006 12:45	9.62947	4.42193	0.610426	1593.21
8/19/2006 12:45	9.62947	4.42193	0.488341	1604.2
8/19/2006 12:46	9.62947	4.42193	0.488341	1596.87
8/19/2006 12:46	9.62947	4.42193	0.610426	1593.21
8/19/2006 12:46	9.62947	4.42193	0.488341	1606.64
8/19/2006 12:46	9.62947	4.42193	0.488341	1606.64
8/19/2006 12:47	9.62947	4.42193	0.366256	1604.2
8/19/2006 12:47	9.62947	4.42193	0.122085	1588.33
8/19/2006 12:47	9.62947	4.42193	0.122085	1600.54
8/19/2006 12:47	9.62947	4.42193	0.610426	1605.42
8/19/2006 12:48	9.62947	4.42193	0.122085	1594.43
8/19/2006 12:48	9.62947	4.42193	0.610426	1594.43
8/19/2006 12:48	9.62947	4.42193	0.24417	1588.33
8/19/2006 12:48	9.62947	4.42193	0.366256	1600.54
8/19/2006 12:49	9.62947	4.42193	0.366256	1604.2
8/19/2006 12:49	9.62947	4.42193	0.366256	1606.64
8/19/2006 12:49	9.62947	4.42193	0.366256	1611.52
8/19/2006 12:49	9.62947	4.42193	0.24417	1621.29
8/19/2006 12:50	9.62947	4.42193	0.24417	1616.41
8/19/2006 12:50	9.62947	4.42193	0.610426	1617.63
8/19/2006 12:50	9.62947	4.42193	0.122085	1605.42
8/19/2006 12:50	9.52875	4.42193	0.24417	1615.19
8/19/2006 12:51	9.52875	4.42193	0.24417	1617.63
8/19/2006 12:51	9.52875	4.42193	0.122085	1611.52
8/19/2006 12:51	9.52875	4.42193	0.366256	1623.73
8/19/2006 12:51	9.52875	4.42193	0.488341	1649.37
8/19/2006 12:52	9.52875	4.42193	0.488341	1629.84

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:52	9.62947	4.42193	0.366256	1629.84
8/19/2006 12:52	9.62947	4.42193	0.122085	1624.95
8/19/2006 12:52	9.62947	4.42193	0.24417	1631.06
8/19/2006 12:53	9.62947	4.42193	0.488341	1626.18
8/19/2006 12:53	9.62947	4.42193	0.122085	1618.85
8/19/2006 12:53	9.62947	4.42193	0.122085	1613.97
8/19/2006 12:53	9.62947	4.42193	0.366256	1632.28
8/19/2006 12:54	9.62947	4.42193	0.366256	1638.38
8/19/2006 12:54	9.62947	4.42193	0.122085	1632.28
8/19/2006 12:54	9.62947	4.42193	0.24417	1642.05
8/19/2006 12:54	9.62947	4.42193	0.366256	1635.94
8/19/2006 12:55	9.62947	4.42193	0.122085	1632.28
8/19/2006 12:55	9.62947	4.42193	0.122085	1639.6
8/19/2006 12:55	9.62947	4.42193	0.24417	1648.15
8/19/2006 12:55	9.62947	4.42193	0.366256	1645.71
8/19/2006 12:56	9.62947	4.42193	0.366256	1653.03
8/19/2006 12:56	9.62947	4.42193	0.24417	1661.58
8/19/2006 12:56	9.62947	4.42193	0.366256	1654.25
8/19/2006 12:56	9.62947	4.42193	0.610426	1667.68
8/19/2006 12:57	9.62947	4.42193	0.488341	1662.8
8/19/2006 12:57	9.62947	4.42193	0.24417	1653.03
8/19/2006 12:57	9.62947	4.42193	0.366256	1670.13
8/19/2006 12:57	9.62947	4.42193	0	1667.68
8/19/2006 12:58	9.62947	4.42193	0.24417	1682.33
8/19/2006 12:58	9.62947	4.42193	0.488341	1705.53
8/19/2006 12:58	9.62947	4.42193	0.610426	1709.19
8/19/2006 12:58	9.62947	4.42193	0.24417	1704.31
8/19/2006 12:59	9.62947	4.42193	0.24417	1705.53
8/19/2006 12:59	9.62947	4.42193	0.488341	1727.51
8/19/2006 12:59	9.62947	4.42193	0.366256	1723.84
8/19/2006 12:59	9.62947	4.42193	0.24417	1733.61
8/19/2006 13:00	9.62947	4.42193	0.366256	1733.61
8/19/2006 13:00	9.62947	4.42193	0.488341	1748.26
8/19/2006 13:00	9.62947	4.42193	0.122085	1739.71
8/19/2006 13:00	9.62947	4.42193	0.366256	1743.38
8/19/2006 13:01	9.62947	4.42193	0.610426	1733.61
8/19/2006 13:01	9.62947	4.42193	0.122085	1715.3
8/19/2006 13:01	9.62947	4.42193	0.122085	1727.51
8/19/2006 13:01	9.62947	4.42193	0.366256	1716.52
8/19/2006 13:02	9.62947	4.42193	0.122085	1711.63
8/19/2006 13:02	9.62947	4.42193	0.366256	1715.3
8/19/2006 13:02	9.62947	4.42193	0.366256	1717.74
8/19/2006 13:02	9.62947	4.42193	0.610426	1755.59
8/19/2006 13:03	9.62947	4.42193	0.24417	1744.6

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:03	9.62947	4.42193	0.122085	1743.38
8/19/2006 13:03	9.62947	4.42193	0.24417	1744.6
8/19/2006 13:03	9.62947	4.42193	0.366256	1745.82
8/19/2006 13:04	9.62947	4.42193	0.122085	1756.81
8/19/2006 13:04	9.62947	4.42193	0.366256	1764.13
8/19/2006 13:04	9.62947	4.42193	0.488341	1767.79
8/19/2006 13:04	9.62947	4.42193	0.24417	1772.68
8/19/2006 13:05	9.62947	4.42193	0.122085	1777.56
8/19/2006 13:05	9.62947	4.42193	0.366256	1771.46
8/19/2006 13:05	9.62947	4.42193	0.488341	1740.94
8/19/2006 13:05	9.62947	4.42193	0	1695.76
8/19/2006 13:06	9.62947	4.42193	0	1721.4
8/19/2006 13:06	9.62947	4.62459	0.366256	1732.39
8/19/2006 13:06	9.62947	4.73446	0.366256	1749.48
8/19/2006 13:06	9.62947	4.63435	0.122085	1744.6
8/19/2006 13:07	9.83702	4.52936	0.24417	1751.92
8/19/2006 13:07	9.93774	4.42437	0.488341	1750.7
8/19/2006 13:07	10.0446	4.42437	0.366256	1751.92
8/19/2006 13:07	10.0446	4.42437	0.366256	1756.81
8/19/2006 13:08	10.0446	4.32182	0	1756.81
8/19/2006 13:08	10.1453	4.32182	0.24417	1770.24
8/19/2006 13:08	10.1453	4.32182	0.24417	1777.56
8/19/2006 13:08	10.1453	4.32182	0.122085	1780
8/19/2006 13:09	10.1453	4.32182	0.366256	1778.78
8/19/2006 13:09	10.1453	4.32182	0.122085	1780
8/19/2006 13:09	10.1453	4.32182	0	1787.33
8/19/2006 13:09	10.1453	4.32182	0.488341	1795.87
8/19/2006 13:10	10.0446	4.32182	0.24417	1799.54
8/19/2006 13:10	10.0446	4.32182	0	1786.11
8/19/2006 13:10	10.0446	4.32182	0	1804.42
8/19/2006 13:10	10.0446	4.32182	0	1810.52
8/19/2006 13:11	10.0446	4.32182	0	1816.63
8/19/2006 13:11	10.0446	4.32182	0.24417	1819.07
8/19/2006 13:11	10.0446	4.32182	0.488341	1822.73
8/19/2006 13:11	10.0446	4.32182	0.488341	1825.17
8/19/2006 13:12	10.1514	4.32182	0	1830.06
8/19/2006 13:12	10.1514	4.32182	0	1833.72
8/19/2006 13:12	10.1514	4.32182	0.488341	1830.06
8/19/2006 13:12	10.1514	4.32182	0	1844.71
8/19/2006 13:13	10.1514	4.32182	0.122085	1841.05
8/19/2006 13:13	10.1514	4.32182	0.366256	1847.15
8/19/2006 13:13	10.1514	4.32182	0.366256	1849.59
8/19/2006 13:13	10.1514	4.32182	0	1849.59
8/19/2006 13:14	10.1514	4.32182	0.122085	1860.58

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:14	10.1514	4.32182	0.366256	1865.46
8/19/2006 13:14	10.1514	4.32182	0.24417	1872.79
8/19/2006 13:14	10.0476	4.32182	0.24417	1860.58
8/19/2006 13:15	10.0476	4.32182	0.24417	1861.8
8/19/2006 13:15	10.0476	4.32182	0.24417	1875.23
8/19/2006 13:15	10.0476	4.32182	0.488341	1877.67
8/19/2006 13:15	10.0476	4.32182	0.366256	1870.35
8/19/2006 13:16	10.0476	4.32182	0.366256	1878.89
8/19/2006 13:16	10.0476	4.32182	0.122085	1878.89
8/19/2006 13:16	10.0476	4.32182	0.366256	1881.33
8/19/2006 13:16	10.1483	4.32182	0.122085	1885
8/19/2006 13:17	10.1483	4.32182	0.488341	1895.98
8/19/2006 13:17	10.1483	4.32182	0.122085	1893.54
8/19/2006 13:17	10.1483	4.32182	0.366256	1895.98
8/19/2006 13:17	10.1483	4.32182	0.366256	1903.31
8/19/2006 13:18	10.1483	4.32182	0.122085	1902.09
8/19/2006 13:18	10.1483	4.32182	0.488341	1906.97
8/19/2006 13:18	10.1483	4.32182	0.122085	1911.85
8/19/2006 13:18	10.1483	4.32182	0.488341	1911.85
8/19/2006 13:19	10.1483	4.32182	0.24417	1914.3
8/19/2006 13:19	10.1483	4.32182	0.122085	1928.95
8/19/2006 13:19	10.1483	4.32182	0.488341	1926.5
8/19/2006 13:19	10.1483	4.32182	0.488341	1926.5
8/19/2006 13:20	10.1483	4.32182	0.488341	1930.17
8/19/2006 13:20	10.1483	4.32182	0	1927.73
8/19/2006 13:20	10.2491	4.32182	0	1932.61
8/19/2006 13:20	10.2491	4.32182	0.24417	1946.04
8/19/2006 13:21	10.2491	4.32182	0.366256	1937.49
8/19/2006 13:21	10.2491	4.32182	0.366256	1953.36
8/19/2006 13:21	10.2491	4.32182	0.24417	1959.47
8/19/2006 13:21	10.2491	4.32182	0.24417	1958.25
8/19/2006 13:22	10.2491	4.32182	0	1949.7
8/19/2006 13:22	10.2491	4.32182	0.122085	1964.35
8/19/2006 13:22	10.2491	4.32182	0.366256	1968.01
8/19/2006 13:22	10.2491	4.32182	0.366256	1966.79
8/19/2006 13:23	10.2491	4.32182	0.122085	1971.68
8/19/2006 13:23	10.3498	4.32182	0.366256	1974.12
8/19/2006 13:23	10.3498	4.32182	0.366256	1989.99
8/19/2006 13:23	10.246	4.32182	0.24417	1996.09
8/19/2006 13:24	10.246	4.32182	0.488341	1996.09
8/19/2006 13:24	10.246	4.32182	0.122085	1997.31
8/19/2006 13:24	10.246	4.32182	0.366256	1996.09
8/19/2006 13:24	10.246	4.32182	0.488341	2007.08
8/19/2006 13:25	10.246	4.32182	0.122085	1993.65

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:25	10.246	4.32182	0.366256	1998.53
8/19/2006 13:25	10.246	4.32182	0.24417	2003.42
8/19/2006 13:25	10.246	4.32182	0.488341	2005.86
8/19/2006 13:26	10.3498	4.32182	0	1997.31
8/19/2006 13:26	10.3498	4.32182	0.488341	2015.63
8/19/2006 13:26	10.3498	4.32182	0.366256	2005.86
8/19/2006 13:26	10.3498	4.32182	0.122085	2014.41
8/19/2006 13:27	10.3498	4.32182	0.122085	2005.86
8/19/2006 13:27	10.3498	4.32182	0.366256	2018.07
8/19/2006 13:27	10.3498	4.32182	0.610426	2035.16
8/19/2006 13:27	10.246	4.32182	0.366256	2021.73
8/19/2006 13:28	10.246	4.32182	0.24417	2030.28
8/19/2006 13:28	10.246	4.32182	0	2026.61
8/19/2006 13:28	10.246	4.32182	0.122085	2026.61
8/19/2006 13:28	10.246	4.32182	0.488341	2026.61
8/19/2006 13:29	10.246	4.32182	0.122085	2019.29
8/19/2006 13:29	10.246	4.32182	0.488341	2044.93
8/19/2006 13:29	10.246	4.32182	0.24417	2033.94
8/19/2006 13:29	10.3467	4.32182	0.122085	2032.72
8/19/2006 13:30	10.3467	4.32182	0.366256	2049.81
8/19/2006 13:30	10.3467	4.32182	0.122085	2055.92
8/19/2006 13:30	10.3467	4.32182	0.488341	2066.9
8/19/2006 13:30	10.3467	4.32182	0.122085	2059.58
8/19/2006 13:31	10.3467	4.32182	0.122085	2052.25
8/19/2006 13:31	10.3467	4.32182	0.366256	2064.46
8/19/2006 13:31	10.3467	4.32182	0.488341	2068.12
8/19/2006 13:31	10.3467	4.32182	0.488341	2060.8
8/19/2006 13:32	10.3467	4.32182	0.366256	2066.9
8/19/2006 13:32	10.3467	4.32182	0.122085	2065.68
8/19/2006 13:32	10.3467	4.32182	0.24417	2077.89
8/19/2006 13:32	10.3467	4.32182	0.366256	2077.89
8/19/2006 13:33	10.3467	4.32182	0.610426	2064.46
8/19/2006 13:33	10.3467	4.32182	0.24417	2080.33
8/19/2006 13:33	10.3467	4.32182	0.122085	2075.45
8/19/2006 13:33	10.3467	4.32182	0.488341	2077.89
8/19/2006 13:34	10.3467	4.32182	0.122085	2085.22
8/19/2006 13:34	10.3467	4.32182	0.366256	2076.67
8/19/2006 13:34	10.3467	4.32182	0.24417	2093.76
8/19/2006 13:34	10.3467	4.32182	0.24417	2091.32
8/19/2006 13:35	10.3467	4.32182	0.366256	2086.44
8/19/2006 13:35	10.3467	4.32182	0.24417	2094.98
8/19/2006 13:35	10.3467	4.32182	0.366256	2096.2
8/19/2006 13:35	10.3467	4.32182	0.366256	2092.54
8/19/2006 13:36	10.3467	4.32182	0.122085	2102.31

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:36	10.3467	4.32182	0.122085	2110.85
8/19/2006 13:36	10.3467	4.32182	0.24417	2104.75
8/19/2006 13:36	10.4474	4.32182	0.610426	2107.19
8/19/2006 13:37	10.3467	4.32182	0.122085	2110.85
8/19/2006 13:37	10.2216	4.32182	0.366256	2113.3
8/19/2006 13:37	10.3223	4.32182	0.24417	2105.97
8/19/2006 13:37	10.3223	4.32182	0.24417	2116.96
8/19/2006 13:38	10.3223	4.32182	0.366256	2107.19
8/19/2006 13:38	10.3223	4.32182	0.24417	2124.28
8/19/2006 13:38	10.2216	4.32182	0	2123.06
8/19/2006 13:38	10.2216	4.32182	0.610426	2129.17
8/19/2006 13:39	10.2216	4.32182	0.122085	2121.84
8/19/2006 13:39	10.2216	4.32182	0.366256	2135.27
8/19/2006 13:39	10.2216	4.32182	0.366256	2132.83
8/19/2006 13:39	10.2216	4.32182	0.122085	2142.6
8/19/2006 13:40	10.2216	4.32182	0.366256	2130.39
8/19/2006 13:40	10.2216	4.32182	0.122085	2112.07
8/19/2006 13:40	10.1209	4.32182	0.122085	2116.96
8/19/2006 13:40	10.1209	4.55134	0.488341	2103.53
8/19/2006 13:41	9.69357	4.66121	0.24417	2103.53
8/19/2006 13:41	9.57453	4.66121	0	2104.75
8/19/2006 13:41	9.67525	4.45855	0.488341	2121.84
8/19/2006 13:41	9.88585	4.35356	0	2125.5
8/19/2006 13:42	9.99267	4.25345	0.488341	2136.49
8/19/2006 13:42	10.0934	4.15334	0.366256	2138.93
8/19/2006 13:42	10.0934	4.15334	0	2134.05
8/19/2006 13:42	10.0934	4.15334	0.366256	2148.7
8/19/2006 13:43	10.0934	4.15334	0.24417	2146.26
8/19/2006 13:43	10.0934	4.15334	0.24417	2143.82
8/19/2006 13:43	10.0934	4.15334	0.366256	2154.8
8/19/2006 13:43	10.0934	4.15334	0	2152.36
8/19/2006 13:44	10.0934	4.15334	0.366256	2160.91
8/19/2006 13:44	10.0934	4.15334	0.488341	2162.13
8/19/2006 13:44	9.98657	4.25345	0.366256	2159.69
8/19/2006 13:44	9.98657	4.25345	0.24417	2164.57
8/19/2006 13:45	9.98657	4.25345	0	2158.47
8/19/2006 13:45	9.98657	4.25345	0	2163.35
8/19/2006 13:45	9.98657	4.25345	0.24417	2174.34
8/19/2006 13:45	9.98657	4.25345	0.24417	2184.1
8/19/2006 13:46	9.98657	4.25345	0.122085	2185.33
8/19/2006 13:46	9.98657	4.25345	0	2171.9
8/19/2006 13:46	9.98657	4.25345	0.366256	2178
8/19/2006 13:46	9.98657	4.25345	0.122085	2176.78
8/19/2006 13:47	9.98657	4.25345	0	2188.99

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:47	9.98657	4.25345	0.488341	2193.87
8/19/2006 13:47	9.98657	4.25345	0.122085	2180.44
8/19/2006 13:47	9.98657	4.25345	0.488341	2192.65
8/19/2006 13:48	9.98657	4.25345	0.122085	2192.65
8/19/2006 13:48	9.98657	4.25345	0.24417	2202.42
8/19/2006 13:48	9.98657	4.25345	0.366256	2197.53
8/19/2006 13:48	9.98657	4.25345	0.24417	2196.31
8/19/2006 13:49	9.98657	4.25345	0.488341	2198.75
8/19/2006 13:49	9.98657	4.25345	0.24417	2193.87
8/19/2006 13:49	9.98657	4.25345	0.122085	2190.21
8/19/2006 13:49	9.98657	4.25345	0.488341	2197.53
8/19/2006 13:50	9.98657	4.25345	0.122085	2199.98
8/19/2006 13:50	9.98657	4.25345	0.488341	2192.65
8/19/2006 13:50	9.98657	4.25345	0.122085	2192.65
8/19/2006 13:50	10.0873	4.25345	0.24417	2210.96
8/19/2006 13:51	10.0873	4.25345	0.24417	2212.18
8/19/2006 13:51	10.0873	4.25345	0.24417	2207.3
8/19/2006 13:51	10.0873	4.25345	0.366256	2218.29
8/19/2006 13:51	10.0873	4.25345	0.24417	2217.07
8/19/2006 13:52	10.0873	4.25345	0.366256	2212.18
8/19/2006 13:52	10.0873	4.25345	0.122085	2215.85
8/19/2006 13:52	10.0873	4.25345	0.488341	2217.07
8/19/2006 13:52	10.0873	4.25345	0.122085	2217.07
8/19/2006 13:53	10.0873	4.25345	0.366256	2223.17
8/19/2006 13:53	10.0873	4.25345	0.122085	2217.07
8/19/2006 13:53	10.0873	4.25345	0.122085	2218.29
8/19/2006 13:53	10.0873	4.25345	0.366256	2228.06
8/19/2006 13:54	10.0873	4.25345	0.366256	2215.85
8/19/2006 13:54	10.0873	4.25345	0.122085	2219.51
8/19/2006 13:54	10.0873	4.25345	0.366256	2225.61
8/19/2006 13:54	10.0873	4.25345	0.366256	2225.61
8/19/2006 13:55	10.0873	4.25345	0.366256	2226.83
8/19/2006 13:55	10.0873	4.25345	0.24417	2226.83
8/19/2006 13:55	10.0873	4.25345	0	2224.39
8/19/2006 13:55	10.0873	4.25345	0.610426	2237.82
8/19/2006 13:56	10.188	4.25345	0.122085	2228.06
8/19/2006 13:56	10.188	4.14846	0.366256	2224.39
8/19/2006 13:56	10.0873	4.14846	0.488341	2245.15
8/19/2006 13:56	10.0873	4.24857	0.24417	2228.06
8/19/2006 13:57	10.0873	4.24857	0.122085	2228.06
8/19/2006 13:57	10.0873	4.24857	0.488341	2232.94
8/19/2006 13:57	10.0873	4.24857	0	2231.72
8/19/2006 13:57	10.0873	4.24857	0.366256	2250.03
8/19/2006 13:58	9.98657	4.34868	0	2234.16

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:58	9.98657	4.34868	0.122085	2231.72
8/19/2006 13:58	9.98657	4.34868	0.122085	2247.59
8/19/2006 13:58	10.0873	4.34868	0.122085	2232.94
8/19/2006 13:59	10.0873	4.34868	0.488341	2245.15
8/19/2006 13:59	10.188	4.34868	0.488341	2236.6
8/19/2006 13:59	10.188	4.34868	0.488341	2235.38
8/19/2006 13:59	10.188	4.34868	0.488341	2246.37
8/19/2006 14:00	10.2887	4.24857	0.24417	2228.06
8/19/2006 14:00	10.2887	4.24857	0.24417	2224.39
8/19/2006 14:00	10.2887	4.24857	0	2235.38
8/19/2006 14:00	10.2887	4.24857	0.366256	2251.25
8/19/2006 14:01	10.188	4.24857	0.366256	2237.82
8/19/2006 14:01	10.188	4.24857	0.24417	2258.58
8/19/2006 14:01	10.188	4.24857	0.122085	2257.36
8/19/2006 14:01	10.188	4.24857	0.366256	2256.13
8/19/2006 14:02	10.188	4.24857	0.366256	2263.46
8/19/2006 14:02	10.188	4.24857	0.366256	2253.69
8/19/2006 14:02	10.188	4.24857	0.366256	2269.56
8/19/2006 14:02	10.188	4.24857	0	2267.12
8/19/2006 14:03	10.188	4.24857	0.24417	2261.02
8/19/2006 14:03	10.188	4.24857	0.366256	2267.12
8/19/2006 14:03	10.188	4.24857	0.24417	2259.8
8/19/2006 14:03	10.188	4.24857	0.366256	2261.02
8/19/2006 14:04	10.2887	4.24857	0.122085	2259.8
8/19/2006 14:04	10.2887	4.24857	0.122085	2276.89
8/19/2006 14:04	10.2887	4.24857	0	2262.24
8/19/2006 14:04	10.2887	4.24857	0.488341	2282.99
8/19/2006 14:05	10.2887	4.24857	0.24417	2270.79
8/19/2006 14:05	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:05	10.3925	4.24857	0.366256	2279.33
8/19/2006 14:05	10.3925	4.24857	0.488341	2274.45
8/19/2006 14:06	10.3925	4.24857	0.24417	2272.01
8/19/2006 14:06	10.3925	4.24857	0.366256	2292.76
8/19/2006 14:06	10.3925	4.24857	0.488341	2289.1
8/19/2006 14:06	10.2887	4.24857	0.366256	2284.21
8/19/2006 14:07	10.2887	4.24857	0.122085	2295.2
8/19/2006 14:07	10.2887	4.24857	0.24417	2300.09
8/19/2006 14:07	10.2887	4.24857	0	2282.99
8/19/2006 14:07	10.2887	4.24857	0.24417	2301.31
8/19/2006 14:08	10.2887	4.24857	0.488341	2282.99
8/19/2006 14:08	10.2887	4.24857	0.366256	2291.54
8/19/2006 14:08	10.2887	4.24857	0.366256	2289.1
8/19/2006 14:08	10.3895	4.24857	0	2280.55
8/19/2006 14:09	10.3895	4.24857	0.366256	2290.32

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:09	10.3895	4.24857	0.366256	2280.55
8/19/2006 14:09	10.3895	4.24857	0.122085	2290.32
8/19/2006 14:09	10.3895	4.24857	0.122085	2278.11
8/19/2006 14:10	10.3895	4.24857	0.488341	2285.44
8/19/2006 14:10	10.3895	4.24857	0.24417	2285.44
8/19/2006 14:10	10.3895	4.24857	0.24417	2280.55
8/19/2006 14:10	10.3895	4.24857	0.122085	2293.98
8/19/2006 14:11	10.3895	4.24857	0.366256	2293.98
8/19/2006 14:11	10.3895	4.24857	0.488341	2295.2
8/19/2006 14:11	10.3895	4.24857	0	2306.19
8/19/2006 14:11	10.3895	4.24857	0.488341	2298.86
8/19/2006 14:12	10.3895	4.24857	0.488341	2295.2
8/19/2006 14:12	10.3895	4.24857	0.122085	2295.2
8/19/2006 14:12	10.3895	4.24857	0	2278.11
8/19/2006 14:12	10.3895	4.24857	0.488341	2300.09
8/19/2006 14:13	10.3895	4.24857	0.122085	2286.66
8/19/2006 14:13	10.3895	4.24857	0	2293.98
8/19/2006 14:13	10.3895	4.24857	0.366256	2282.99
8/19/2006 14:13	10.3895	4.24857	0.366256	2295.2
8/19/2006 14:14	10.4963	4.24857	0.122085	2268.34
8/19/2006 14:14	10.4963	4.24857	0.366256	2290.32
8/19/2006 14:14	10.4963	4.24857	0.366256	2275.67
8/19/2006 14:14	10.3925	4.24857	0.122085	2291.54
8/19/2006 14:15	10.3925	4.24857	0.488341	2284.21
8/19/2006 14:15	10.3925	4.24857	0.122085	2291.54
8/19/2006 14:15	10.3925	4.24857	0	2285.44
8/19/2006 14:15	10.3925	4.24857	0.122085	2300.09
8/19/2006 14:16	10.3925	4.24857	0.366256	2303.75
8/19/2006 14:16	10.3925	4.24857	0.366256	2297.64
8/19/2006 14:16	10.3925	4.24857	0.122085	2302.53
8/19/2006 14:16	10.3925	4.24857	0.366256	2287.88
8/19/2006 14:17	10.3925	4.24857	0.122085	2278.11
8/19/2006 14:17	10.3925	4.24857	0.366256	2272.01
8/19/2006 14:17	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:17	10.3925	4.24857	0.488341	2280.55
8/19/2006 14:18	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:18	10.3925	4.24857	0.488341	2270.79
8/19/2006 14:18	10.3925	4.24857	0.122085	2253.69
8/19/2006 14:18	10.3925	4.24857	0.366256	2268.34
8/19/2006 14:19	10.3925	4.24857	0	2251.25
8/19/2006 14:19	10.3925	4.24857	0.488341	2263.46
8/19/2006 14:19	10.3925	4.24857	0.24417	2261.02
8/19/2006 14:19	10.3925	4.24857	0.122085	2251.25
8/19/2006 14:20	10.3925	4.24857	0.488341	2256.13

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:20	10.3925	4.24857	0	2252.47
8/19/2006 14:20	10.3925	4.24857	0.488341	2264.68
8/19/2006 14:20	10.3925	4.24857	0.122085	2257.36
8/19/2006 14:21	10.3925	4.24857	0.366256	2257.36
8/19/2006 14:21	10.3925	4.24857	0.488341	2253.69
8/19/2006 14:21	10.3925	4.24857	0.610426	2241.48
8/19/2006 14:21	10.4932	4.24857	0.488341	2256.13
8/19/2006 14:22	10.4932	4.24857	0	2246.37
8/19/2006 14:22	10.4932	4.24857	0.366256	2237.82
8/19/2006 14:22	10.597	4.24857	0.366256	2250.03
8/19/2006 14:22	10.597	4.24857	0	2230.5
8/19/2006 14:23	10.597	4.24857	0.488341	2254.91
8/19/2006 14:23	10.597	4.24857	0.122085	2246.37
8/19/2006 14:23	10.4963	4.24857	0	2253.69
8/19/2006 14:23	10.4963	4.24857	0.122085	2246.37
8/19/2006 14:24	10.4963	4.24857	0.488341	2256.13
8/19/2006 14:24	10.597	4.24857	0	2240.26
8/19/2006 14:24	10.597	4.24857	0.488341	2252.47
8/19/2006 14:24	10.597	4.24857	0.366256	2245.15
8/19/2006 14:25	10.597	4.24857	0.122085	2254.91
8/19/2006 14:25	10.597	4.24857	0.366256	2242.71
8/19/2006 14:25	10.597	4.24857	0.24417	2242.71
8/19/2006 14:25	10.597	4.24857	0.122085	2261.02
8/19/2006 14:26	10.597	4.24857	0.24417	2247.59
8/19/2006 14:26	10.597	4.24857	0.610426	2268.34
8/19/2006 14:26	10.597	4.24857	0.122085	2242.71
8/19/2006 14:26	10.597	4.24857	0	2261.02
8/19/2006 14:27	10.597	4.24857	0.366256	2245.15
8/19/2006 14:27	10.597	4.24857	0.488341	2256.13
8/19/2006 14:27	10.597	4.24857	0.122085	2250.03
8/19/2006 14:27	10.597	4.24857	0.488341	2257.36
8/19/2006 14:28	10.597	4.24857	0.366256	2253.69
8/19/2006 14:28	10.597	4.24857	0.122085	2261.02
8/19/2006 14:28	10.597	4.24857	0.122085	2251.25
8/19/2006 14:28	10.597	4.24857	0.122085	2256.13
8/19/2006 14:29	10.597	4.24857	0.366256	2254.91
8/19/2006 14:29	10.597	4.24857	0.366256	2256.13
8/19/2006 14:29	10.597	4.24857	0.488341	2258.58
8/19/2006 14:29	10.597	4.24857	0.488341	2251.25
8/19/2006 14:30	10.597	4.24857	0.366256	2257.36
8/19/2006 14:30	10.597	4.24857	0.122085	2248.81
8/19/2006 14:30	10.597	4.24857	0.122085	2240.26
8/19/2006 14:30	10.597	4.24857	0.366256	2257.36
8/19/2006 14:31	10.597	4.24857	0.488341	2236.6

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:31	10.6977	4.24857	0.122085	2240.26
8/19/2006 14:31	10.6977	4.24857	0.366256	2237.82
8/19/2006 14:31	10.6977	4.24857	0.24417	2240.26
8/19/2006 14:32	10.6977	4.24857	0.488341	2231.72
8/19/2006 14:32	10.6977	4.24857	0.122085	2236.6
8/19/2006 14:32	10.6977	4.24857	0.122085	2231.72
8/19/2006 14:32	10.6977	4.24857	0.24417	2223.17
8/19/2006 14:33	10.6977	4.24857	0.488341	2237.82
8/19/2006 14:33	10.6977	4.24857	0	2231.72
8/19/2006 14:33	10.6977	4.24857	0.366256	2243.93
8/19/2006 14:33	10.6977	4.24857	0.366256	2229.28
8/19/2006 14:34	10.6977	4.24857	0.24417	2245.15
8/19/2006 14:34	10.8015	4.24857	0.122085	2229.28
8/19/2006 14:34	10.8015	4.24857	0.488341	2234.16
8/19/2006 14:34	10.8015	4.24857	0.24417	2225.61
8/19/2006 14:35	10.8015	4.24857	0.122085	2239.04
8/19/2006 14:35	10.8015	4.24857	0.366256	2235.38
8/19/2006 14:35	10.8015	4.24857	0.366256	2229.28
8/19/2006 14:35	10.8015	4.24857	0.24417	2215.85
8/19/2006 14:36	10.8015	4.24857	0.488341	2218.29
8/19/2006 14:36	10.8015	4.24857	0.488341	2223.17
8/19/2006 14:36	10.8015	4.24857	0.488341	2228.06
8/19/2006 14:36	10.8015	4.24857	0.122085	2226.83
8/19/2006 14:37	10.8015	4.24857	0.610426	2225.61
8/19/2006 14:37	10.8015	4.24857	0.122085	2225.61
8/19/2006 14:37	10.8015	4.24857	0.610426	2234.16
8/19/2006 14:37	10.8015	4.24857	0.122085	2230.5
8/19/2006 14:38	10.8015	4.24857	0.488341	2221.95
8/19/2006 14:38	10.8015	4.24857	0.122085	2226.83
8/19/2006 14:38	10.8015	4.24857	0.488341	2215.85
8/19/2006 14:38	10.8015	4.24857	0.122085	2214.63
8/19/2006 14:39	10.8015	4.24857	0.488341	2224.39
8/19/2006 14:39	10.8015	4.24857	0.122085	2213.4
8/19/2006 14:39	10.9022	4.24857	0.366256	2219.51
8/19/2006 14:39	10.9022	4.24857	0.24417	2225.61
8/19/2006 14:40	10.9022	4.24857	0	2208.52
8/19/2006 14:40	10.9022	4.24857	0.366256	2217.07
8/19/2006 14:40	10.9022	4.24857	0.366256	2224.39
8/19/2006 14:40	10.9022	4.24857	0.610426	2210.96
8/19/2006 14:41	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:41	10.9022	4.24857	0.366256	2218.29
8/19/2006 14:41	10.9022	4.24857	0.610426	2207.3
8/19/2006 14:41	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.122085	2213.4

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:42	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.366256	2209.74
8/19/2006 14:43	10.9022	4.24857	0.488341	2219.51
8/19/2006 14:43	10.9022	4.24857	0.488341	2199.98
8/19/2006 14:43	10.9022	4.24857	0.122085	2213.4
8/19/2006 14:43	10.9022	4.24857	0.488341	2218.29
8/19/2006 14:44	10.9022	4.24857	0.122085	2191.43
8/19/2006 14:44	10.9022	4.24857	0.610426	2213.4
8/19/2006 14:44	10.9022	4.24857	0	2209.74
8/19/2006 14:44	10.9022	4.24857	0.610426	2209.74
8/19/2006 14:45	10.9022	4.24857	0.366256	2215.85
8/19/2006 14:45	10.9022	4.24857	0.122085	2219.51
8/19/2006 14:45	10.9022	4.24857	0.366256	2207.3
8/19/2006 14:45	10.9022	4.24857	0.488341	2221.95
8/19/2006 14:46	10.9022	4.24857	0.24417	2209.74
8/19/2006 14:46	10.9022	4.24857	0.366256	2207.3
8/19/2006 14:46	10.9022	4.24857	0.488341	2213.4
8/19/2006 14:46	10.9022	4.24857	0.122085	2198.75
8/19/2006 14:47	10.9022	4.24857	0.488341	2193.87
8/19/2006 14:47	11.0029	4.24857	0.488341	2201.2
8/19/2006 14:47	11.0029	4.24857	0.122085	2190.21
8/19/2006 14:47	11.0029	4.24857	0.366256	2198.75
8/19/2006 14:48	11.0029	4.24857	0.366256	2202.42
8/19/2006 14:48	11.0029	4.24857	0.24417	2190.21
8/19/2006 14:48	11.0029	4.24857	0.488341	2198.75
8/19/2006 14:48	11.0029	4.24857	0.24417	2180.44
8/19/2006 14:49	11.0029	4.24857	0.610426	2196.31
8/19/2006 14:49	11.0029	4.24857	0.122085	2190.21
8/19/2006 14:49	11.0029	4.24857	0.488341	2190.21
8/19/2006 14:49	11.0029	4.24857	0.24417	2197.53
8/19/2006 14:50	11.0029	4.24857	0.24417	2187.77
8/19/2006 14:50	11.0029	4.24857	0.488341	2179.22
8/19/2006 14:50	11.0029	4.24857	0.488341	2195.09
8/19/2006 14:50	11.0029	4.24857	0.24417	2192.65
8/19/2006 14:51	11.0029	4.24857	0.366256	2192.65
8/19/2006 14:51	11.0029	4.24857	0.488341	2193.87
8/19/2006 14:51	11.0029	4.24857	0.122085	2187.77
8/19/2006 14:51	11.0029	4.24857	0.610426	2181.66
8/19/2006 14:52	11.1037	4.24857	0.366256	2168.23
8/19/2006 14:52	11.1037	4.24857	0.24417	2179.22
8/19/2006 14:52	11.1037	4.24857	0.366256	2178
8/19/2006 14:52	11.1037	4.24857	0.488341	2176.78
8/19/2006 14:53	11.1037	4.24857	0.122085	2184.1

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:53	11.1037	4.24857	0.122085	2173.12
8/19/2006 14:53	11.1037	4.24857	0.366256	2169.45
8/19/2006 14:53	11.1037	4.24857	0.122085	2174.34
8/19/2006 14:54	11.2044	4.24857	0.366256	2169.45
8/19/2006 14:54	11.2044	4.24857	0.488341	2171.9
8/19/2006 14:54	11.2044	4.24857	0.24417	2167.01
8/19/2006 14:54	11.2044	4.24857	0.122085	2158.47
8/19/2006 14:55	11.2044	4.24857	0.488341	2164.57
8/19/2006 14:55	11.2044	4.24857	0.122085	2148.7
8/19/2006 14:55	11.2044	4.24857	0.610426	2174.34
8/19/2006 14:55	11.2044	4.24857	0.122085	2156.02
8/19/2006 14:56	11.2044	4.24857	0.488341	2157.25
8/19/2006 14:56	11.2044	4.24857	0.122085	2146.26
8/19/2006 14:56	11.2044	4.24857	0.610426	2152.36
8/19/2006 14:56	11.2044	4.24857	0.122085	2142.6
8/19/2006 14:57	11.2044	4.24857	0.610426	2145.04
8/19/2006 14:57	11.2044	4.24857	0.122085	2140.15
8/19/2006 14:57	11.3081	4.24857	0.488341	2141.37
8/19/2006 14:57	11.3081	4.24857	0.122085	2140.15
8/19/2006 14:58	11.3081	4.24857	0.488341	2143.82
8/19/2006 14:58	11.3081	4.24857	0.976682	2145.04
8/19/2006 14:58	11.2044	4.24857	0.732511	2154.8
8/19/2006 14:58	11.1037	4.24857	0.610426	2153.58
8/19/2006 14:59	11.0029	4.24857	0.366256	2145.04
8/19/2006 14:59	10.8839	4.35112	0.366256	2120.62
8/19/2006 14:59	10.7832	4.45123	0.24417	2096.2
8/19/2006 14:59	10.6794	4.55378	0.366256	2112.07
8/19/2006 15:00	10.5726	5.54267	0.488341	2619.95
8/19/2006 15:00	10.3498	5.9895	0.122085	2809.18
8/19/2006 15:00	10.8412	5.75998	0.366256	2925.16
8/19/2006 15:00	11.5035	5.42547	0.488341	2854.35
8/19/2006 15:01	12.062	5.11293	0.610426	2767.67
8/19/2006 15:01	12.294	5.11293	0.366256	2751.8
8/19/2006 15:01	12.3978	5.11293	0.366256	2633.38
8/19/2006 15:01	12.3978	5.01282	0.610426	2684.65
	10.86636	4.257945	0.400144	1734.541

John Zinc Inlet Raw Data
Run 3

	O2	CO2	Outlet	Inlet
8/21/2006 7:48	15.4163	3.08631	0.854597	670.248
8/21/2006 7:48	14.9158	3.08631	0.488341	588.451
8/21/2006 7:48	14.7052	3.30607	0.122085	513.979
8/21/2006 7:48	14.5983	3.41594	0	460.261
8/21/2006 7:49	14.4976	3.62349	0	419.973
8/21/2006 7:49	14.4976	3.62349	0	385.789
8/21/2006 7:49	14.4976	3.72604	0.122085	372.36
8/21/2006 7:49	14.4976	3.72604	0.366256	354.047
8/21/2006 7:50	14.5983	3.72604	0.24417	341.839
8/21/2006 7:50	14.8059	3.72604	0.122085	328.409
8/21/2006 7:50	14.9097	3.62593	0	318.642
8/21/2006 7:50	15.0134	3.52338	0.366256	313.759
8/21/2006 7:51	15.224	3.52338	0	310.096
8/21/2006 7:51	15.224	3.42327	0.366256	314.98
8/21/2006 7:51	15.3278	3.42327	0	312.538
8/21/2006 7:51	15.3278	3.52582	0.122085	323.526
8/21/2006 7:52	15.2271	3.52582	0.366256	334.513
8/21/2006 7:52	15.1264	3.52582	0.122085	349.164
8/21/2006 7:52	15.1264	3.52582	0.366256	373.581
8/21/2006 7:52	15.1264	3.52582	0.122085	390.673
8/21/2006 7:53	15.1264	3.52582	0.488341	415.09
8/21/2006 7:53	15.1264	3.52582	0	435.844
8/21/2006 7:53	15.2301	3.52582	0.366256	466.366
8/21/2006 7:53	15.2301	3.52582	0.122085	487.12
8/21/2006 7:54	15.2301	3.52582	0.24417	509.095
8/21/2006 7:54	15.2301	3.52582	0	524.966
8/21/2006 7:54	15.2301	3.52582	0.24417	544.5
8/21/2006 7:54	15.2301	3.52582	0	556.709
8/21/2006 7:55	15.2301	3.52582	0.488341	573.801
8/21/2006 7:55	15.2301	3.52582	0.366256	581.126
8/21/2006 7:55	15.2301	3.52582	0.122085	589.672
8/21/2006 7:55	15.2301	3.52582	0	594.555
8/21/2006 7:56	15.2301	3.52582	0.122085	603.101
8/21/2006 7:56	15.2301	3.52582	0.24417	604.322
8/21/2006 7:56	15.2301	3.52582	0.24417	604.322
8/21/2006 7:56	15.2301	3.52582	0.24417	610.426
8/21/2006 7:57	15.2301	3.52582	0.122085	611.647
8/21/2006 7:57	15.2301	3.52582	0.488341	614.089
8/21/2006 7:57	15.2301	3.52582	0.24417	610.426
8/21/2006 7:57	15.2301	3.52582	-0.12209	612.868
8/21/2006 7:58	15.2301	3.52582	0.122085	611.647

John Zinc Inlet Raw Data
Run 3

8/21/2006 7:58	15.2301	3.52582	0.122085	611.647
8/21/2006 7:58	15.2301	3.52582	0.122085	611.647
8/21/2006 7:58	15.2301	3.52582	0.24417	611.647
8/21/2006 7:59	15.2301	3.52582	0.366256	618.972
8/21/2006 7:59	15.2301	3.52582	0.24417	620.193
8/21/2006 7:59	15.2301	3.52582	0.24417	623.855
8/21/2006 7:59	15.2301	3.52582	0.366256	633.622
8/21/2006 8:00	15.2301	3.52582	0.122085	637.285
8/21/2006 8:00	15.2301	3.52582	0.24417	643.389
8/21/2006 8:00	15.2301	3.52582	0.24417	647.052
8/21/2006 8:00	15.2301	3.52582	0.24417	654.377
8/21/2006 8:01	15.2301	3.52582	0.366256	659.26
8/21/2006 8:01	15.1264	3.52582	0.366256	659.26
8/21/2006 8:01	15.1264	3.52582	0.24417	662.923
8/21/2006 8:01	15.1264	3.52582	-0.12209	670.248
8/21/2006 8:02	15.1264	3.52582	0.122085	676.352
8/21/2006 8:02	15.1264	3.52582	0.24417	680.015
8/21/2006 8:02	15.0256	3.52582	0.366256	676.352
8/21/2006 8:02	15.0256	3.52582	0.122085	680.015
8/21/2006 8:03	15.0256	3.52582	0.122085	683.677
8/21/2006 8:03	15.0256	3.52582	0.122085	680.015
8/21/2006 8:03	15.0256	3.52582	0.24417	680.015
8/21/2006 8:03	15.0256	3.52582	0	672.69
8/21/2006 8:04	15.0256	3.52582	0.122085	675.131
8/21/2006 8:04	15.0256	3.52582	0.122085	669.027
8/21/2006 8:04	15.0256	3.52582	0.488341	673.91
8/21/2006 8:04	15.0256	3.52582	0	669.027
8/21/2006 8:05	14.9249	3.52582	0.366256	675.131
8/21/2006 8:05	14.9249	3.52582	0.24417	678.794
8/21/2006 8:05	14.9249	3.52582	0.122085	677.573
8/21/2006 8:05	14.9249	3.52582	0.122085	683.677
8/21/2006 8:06	14.9249	3.52582	0.24417	683.677
8/21/2006 8:06	14.9249	3.52582	0	687.34
8/21/2006 8:06	14.9249	3.52582	0	689.781
8/21/2006 8:06	14.9249	3.52582	0.24417	693.444
8/21/2006 8:07	14.9249	3.52582	0.24417	693.444
8/21/2006 8:07	14.9249	3.52582	0.122085	695.886
8/21/2006 8:07	14.9249	3.52582	0.122085	698.327
8/21/2006 8:07	14.9249	3.52582	0.366256	705.653
8/21/2006 8:08	14.9249	3.52582	0.366256	708.094
8/21/2006 8:08	14.9249	3.52582	0	709.315
8/21/2006 8:08	14.8211	3.52582	0.488341	712.978
8/21/2006 8:08	14.8211	3.52582	0	714.199
8/21/2006 8:09	14.8211	3.52582	0.366256	721.524

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Run 3

8/21/2006 8:09	14.8211	3.52582	0	720.303
8/21/2006 8:09	14.8211	3.52582	0.24417	722.744
8/21/2006 8:09	14.8211	3.52582	0.24417	723.965
8/21/2006 8:10	14.7204	3.52582	0.366256	727.628
8/21/2006 8:10	14.7204	3.52582	0	723.965
8/21/2006 8:10	14.7204	3.52582	0	730.07
8/21/2006 8:10	14.7204	3.52582	0.24417	738.616
8/21/2006 8:11	14.7204	3.52582	0.366256	742.278
8/21/2006 8:11	14.7204	3.52582	0	742.278
8/21/2006 8:11	14.7204	3.52582	0.24417	755.707
8/21/2006 8:11	14.7204	3.52582	0.366256	764.253
8/21/2006 8:12	14.7204	3.52582	0	769.137
8/21/2006 8:12	14.6197	3.52582	0.366256	774.02
8/21/2006 8:12	14.6197	3.52582	0.122085	776.462
8/21/2006 8:12	14.6197	3.52582	0.24417	788.67
8/21/2006 8:13	14.6197	3.52582	0.122085	793.554
8/21/2006 8:13	14.6197	3.52582	0.122085	808.204
8/21/2006 8:13	14.6197	3.52582	0.122085	824.075
8/21/2006 8:13	14.6197	3.52582	0.24417	852.155
8/21/2006 8:14	14.6197	3.52582	0.24417	868.026
8/21/2006 8:14	14.519	3.52582	-0.12209	890.001
8/21/2006 8:14	14.4183	3.63326	0	907.093
8/21/2006 8:14	14.3175	3.73337	0.24417	921.743
8/21/2006 8:15	14.2138	3.73337	0.366256	938.835
8/21/2006 8:15	14.2138	3.73337	0	937.614
8/21/2006 8:15	14.2138	3.73337	0.366256	937.614
8/21/2006 8:15	14.2138	3.73337	0	932.731
8/21/2006 8:16	14.2138	3.73337	0.366256	936.394
8/21/2006 8:16	14.2138	3.73337	0	927.848
8/21/2006 8:16	14.2138	3.73337	0	927.848
8/21/2006 8:16	14.2138	3.73337	0.122085	932.731
8/21/2006 8:17	14.2138	3.73337	0.488341	933.952
8/21/2006 8:17	14.2138	3.73337	0.24417	931.51
8/21/2006 8:17	14.2138	3.73337	0.122085	926.627
8/21/2006 8:17	14.2138	3.84324	0.488341	925.406
8/21/2006 8:18	14.0093	3.84324	0.366256	916.86
8/21/2006 8:18	14.0093	3.84324	0.122085	905.872
8/21/2006 8:18	14.0093	3.84324	0.488341	903.431
8/21/2006 8:18	14.0093	3.84324	0.122085	891.222
8/21/2006 8:19	14.11	3.84324	0.122085	885.118
8/21/2006 8:19	14.11	3.74313	0.24417	877.793
8/21/2006 8:19	14.11	3.74313	0.366256	875.351
8/21/2006 8:19	14.11	3.74313	0.366256	888.78
8/21/2006 8:20	14.11	3.74313	0.366256	874.13

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Run 3

8/21/2006 8:20	14.11	3.74313	0	869.247
8/21/2006 8:20	14.11	3.74313	0	870.468
8/21/2006 8:20	14.0093	3.74313	0	874.13
8/21/2006 8:21	14.0093	3.74313	0.24417	881.455
8/21/2006 8:21	14.0093	3.74313	0.24417	883.897
8/21/2006 8:21	13.9086	3.74313	0	885.118
8/21/2006 8:21	13.9086	3.74313	0.24417	890.001
8/21/2006 8:22	13.9086	3.74313	0.122085	880.234
8/21/2006 8:22	13.9086	3.74313	-0.12209	879.014
8/21/2006 8:22	13.9086	3.74313	0	883.897
8/21/2006 8:22	13.9086	3.74313	0	892.443
8/21/2006 8:23	13.8078	3.74313	0	893.664
8/21/2006 8:23	13.8078	3.74313	0	896.105
8/21/2006 8:23	13.8078	3.74313	0.488341	899.768
8/21/2006 8:23	13.8078	3.74313	0.24417	914.418
8/21/2006 8:24	13.8078	3.74313	0.24417	2250.03
8/21/2006 8:24	13.8078	3.74313	0.122085	1471.13
8/21/2006 8:24	13.8078	3.74313	0	1568.8
8/21/2006 8:24	13.8078	3.74313	0	1540.72
8/21/2006 8:25	13.7071	3.74313	0.24417	1378.34
8/21/2006 8:25	13.7071	3.74313	0.488341	1375.9
8/21/2006 8:25	13.7071	3.74313	0.122085	1300.21
8/21/2006 8:25	13.7071	3.74313	0	1444.27
8/21/2006 8:26	13.6064	3.74313	0.366256	1307.53
8/21/2006 8:26	13.6064	3.74313	0	1226.96
8/21/2006 8:26	13.6064	3.74313	0.366256	1270.91
8/21/2006 8:26	13.6064	3.74313	0	1278.23
8/21/2006 8:27	13.6064	3.74313	0	1263.58
8/21/2006 8:27	13.6064	3.74313	0.122085	1257.48
8/21/2006 8:27	13.6064	3.64302	0.122085	1239.16
8/21/2006 8:27	13.6064	3.64302	0.122085	1395.43
8/21/2006 8:28	13.6064	3.64302	0.122085	1443.05
8/21/2006 8:28	13.6064	3.64302	0.24417	1313.64
8/21/2006 8:28	13.6064	3.64302	0	1250.15
8/21/2006 8:28	13.5026	3.64302	0.24417	1218.41
8/21/2006 8:29	13.5026	3.64302	0	1191.55
8/21/2006 8:29	13.5026	3.64302	0.122085	1217.19
8/21/2006 8:29	13.5026	3.64302	0	1213.53
8/21/2006 8:29	13.5026	3.64302	0.366256	1201.32
8/21/2006 8:30	13.5026	3.64302	0.122085	1189.11
8/21/2006 8:30	13.4019	3.64302	0.122085	1176.9
8/21/2006 8:30	13.4019	3.64302	0.366256	1184.23
8/21/2006 8:30	13.4019	3.64302	0	1178.12
8/21/2006 8:31	13.4019	3.64302	0.24417	1181.78

John Zinc Inlet Raw Data
Run 3

8/21/2006 8:31	13.4019	3.64302	0.488341	1195.21
8/21/2006 8:31	13.4019	3.64302	0.24417	1186.67
8/21/2006 8:31	13.4019	3.64302	0.24417	1185.45
8/21/2006 8:32	13.2981	3.64302	0.122085	1187.89
8/21/2006 8:32	13.2981	3.64302	0.366256	1195.21
8/21/2006 8:32	13.2981	3.64302	-0.12209	1193.99
8/21/2006 8:32	13.2981	3.64302	0.366256	1197.66
8/21/2006 8:33	13.2981	3.64302	0.122085	1197.66
8/21/2006 8:33	13.2981	3.64302	0.488341	1240.39
8/21/2006 8:33	13.2981	3.64302	0	1272.13
8/21/2006 8:33	13.2981	3.64302	0.24417	1279.45
8/21/2006 8:34	13.1913	3.64302	0.24417	1318.52
8/21/2006 8:34	13.1913	3.64302	-0.12209	1324.62
8/21/2006 8:34	13.1913	3.64302	0	1312.42
8/21/2006 8:34	13.1913	3.64302	0.366256	1295.32
8/21/2006 8:35	13.1913	3.64302	0.488341	1295.32
8/21/2006 8:35	13.0875	3.64302	0.488341	1309.97
8/21/2006 8:35	13.0875	3.64302	0.24417	1302.65
8/21/2006 8:35	13.0875	3.64302	0	1306.31
8/21/2006 8:36	13.0875	3.64302	0.122085	1297.77
8/21/2006 8:36	13.0875	3.64302	0	1285.56
8/21/2006 8:36	13.0875	3.64302	0.122085	1280.67
8/21/2006 8:36	12.9868	3.64302	0	1289.22
8/21/2006 8:37	12.9868	3.64302	0	1285.56
8/21/2006 8:37	12.9868	3.64302	0.24417	1311.2
8/21/2006 8:37	12.9868	3.64302	0.24417	1308.75
8/21/2006 8:37	12.9868	3.64302	0.488341	1307.53
8/21/2006 8:38	12.9868	3.64302	0	1298.99
8/21/2006 8:38	12.9868	3.64302	0.24417	1306.31
8/21/2006 8:38	12.9868	3.64302	0.122085	1301.43
8/21/2006 8:38	12.8861	3.64302	0.122085	1305.09
8/21/2006 8:39	12.8861	3.64302	0.366256	1331.95
8/21/2006 8:39	12.8861	3.64302	0.366256	1329.51
8/21/2006 8:39	12.8861	3.64302	0.122085	1347.82
8/21/2006 8:39	12.8861	3.64302	0.366256	1347.82
8/21/2006 8:40	12.8861	3.64302	0.122085	1792.21
8/21/2006 8:40	12.8861	3.64302	0.366256	1657.92
8/21/2006 8:40	12.8861	3.64302	0	1519.96
8/21/2006 8:40	12.8861	3.64302	0.366256	1458.92
8/21/2006 8:41	12.8861	3.64302	0.122085	1418.63
8/21/2006 8:41	12.8861	3.64302	0.488341	1407.64
8/21/2006 8:41	12.7823	3.64302	0.24417	1396.65
8/21/2006 8:41	12.7823	3.64302	0	1401.54
8/21/2006 8:42	12.7823	3.64302	0	1401.54

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Run 3

8/21/2006 8:42	12.7823	3.64302	0.488341	1407.64
8/21/2006 8:42	12.7823	3.74313	0.366256	1403.98
8/21/2006 8:42	12.7823	3.74313	0.24417	1428.4
8/21/2006 8:43	12.6816	3.74313	0	1424.73
8/21/2006 8:43	12.6816	3.74313	0	1403.98
8/21/2006 8:43	12.6816	3.74313	0.122085	1418.63
8/21/2006 8:43	12.6816	3.74313	0	1439.38
8/21/2006 8:44	12.6816	3.74313	0.122085	1438.16
8/21/2006 8:44	12.6816	3.74313	0	1439.38
8/21/2006 8:44	12.6816	3.74313	0.122085	1444.27
8/21/2006 8:44	12.6816	3.74313	0.122085	1628.62
8/21/2006 8:45	12.6816	3.74313	0.366256	2070.57
8/21/2006 8:45	12.6816	3.74313	0	1948.48
8/21/2006 8:45	12.5809	3.74313	0.366256	1875.23
8/21/2006 8:45	12.5809	3.74313	0	1721.4
8/21/2006 8:46	12.5809	3.74313	0.24417	1681.11
8/21/2006 8:46	12.5809	3.74313	0.122085	1637.16
8/21/2006 8:46	12.5809	3.74313	0.122085	1593.21
8/21/2006 8:46	12.5809	3.74313	0.24417	1570.02
8/21/2006 8:47	12.5809	3.74313	0.122085	1676.23
8/21/2006 8:47	12.4771	3.74313	0.366256	1688.44
8/21/2006 8:47	12.4771	3.74313	0	1659.14
8/21/2006 8:47	12.4771	3.74313	-0.12209	1769.01
8/21/2006 8:48	12.4771	3.74313	0.366256	1736.05
8/21/2006 8:48	12.4771	3.74313	-0.12209	1696.98
8/21/2006 8:48	12.4771	3.74313	0.122085	1665.24
8/21/2006 8:48	12.4771	3.74313	0.122085	1639.6
8/21/2006 8:49	12.3764	3.74313	-0.12209	1620.07
8/21/2006 8:49	12.3764	3.74313	-0.24417	1610.3
8/21/2006 8:49	12.3764	3.74313	0	1600.54
8/21/2006 8:49	12.3764	3.74313	0.24417	1605.42
8/21/2006 8:50	12.3764	3.74313	0.366256	1596.87
8/21/2006 8:50	12.3764	3.74313	0.366256	1605.42
8/21/2006 8:50	12.3764	3.74313	0.24417	1599.32
8/21/2006 8:50	12.3764	3.74313	0.122085	1600.54
8/21/2006 8:51	12.3764	3.74313	-0.12209	1605.42
8/21/2006 8:51	12.2757	3.74313	-0.12209	1623.73
8/21/2006 8:51	12.2757	3.74313	-0.12209	1642.05
8/21/2006 8:51	12.2757	3.74313	0	1635.94
8/21/2006 8:52	12.2757	3.74313	-0.12209	1637.16
8/21/2006 8:52	12.2757	3.74313	0.122085	1635.94
8/21/2006 8:52	12.1719	3.84324	0.366256	1639.6
8/21/2006 8:52	12.1719	3.84324	0.24417	1644.49
8/21/2006 8:53	12.1719	3.84324	-0.12209	1637.16

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Run 3

8/21/2006 8:53	12.1719	3.84324	0	1654.25
8/21/2006 8:53	12.1719	3.84324	0.24417	1642.05
8/21/2006 8:53	12.0712	3.84324	-0.24417	1642.05
8/21/2006 8:54	12.0712	3.84324	0.24417	1657.92
8/21/2006 8:54	12.0712	3.84324	-0.12209	1651.81
8/21/2006 8:54	12.0712	3.84324	0.122085	1664.02
8/21/2006 8:54	12.0712	3.84324	0	1668.9
8/21/2006 8:55	12.0712	3.84324	-0.12209	1671.35
8/21/2006 8:55	12.0712	3.84324	0.122085	1668.9
8/21/2006 8:55	11.9705	3.84324	0.122085	1672.57
8/21/2006 8:55	11.9705	3.84324	-0.12209	1679.89
8/21/2006 8:56	11.9705	3.84324	0.122085	1688.44
8/21/2006 8:56	11.9705	3.84324	0.122085	1701.87
8/21/2006 8:56	11.9705	3.84324	-0.12209	1707.97
8/21/2006 8:56	11.9705	3.84324	0.24417	1732.39
8/21/2006 8:57	11.8667	3.84324	0	1738.49
8/21/2006 8:57	11.8667	3.84324	0.122085	1754.36
8/21/2006 8:57	11.8667	3.84324	-0.12209	1755.59
8/21/2006 8:57	11.8667	3.84324	0.122085	1821.51
8/21/2006 8:58	11.8667	3.84324	0.24417	1822.73
8/21/2006 8:58	11.8667	3.84324	-0.12209	1819.07
8/21/2006 8:58	11.8667	3.84324	0	1821.51
8/21/2006 8:58	11.8667	3.84324	0.24417	1821.51
8/21/2006 8:59	11.8667	3.84324	0.122085	1831.28
8/21/2006 8:59	11.8667	3.84324	-0.12209	1831.28
8/21/2006 8:59	11.766	3.84324	0.122085	1832.5
8/21/2006 8:59	11.766	3.84324	0.122085	1856.92
8/21/2006 9:00	11.766	3.84324	-0.12209	1855.7
8/21/2006 9:00	11.766	3.84324	6.47052	1838.6
8/21/2006 9:00	11.6652	3.94335	6.95886	1609.08
8/21/2006 9:00	11.6652	3.94335	4.27298	1513.86
8/21/2006 9:01	11.6652	3.94335	0.488341	1490.66
8/21/2006 9:01	11.6652	3.7236	0.122085	1469.91
8/21/2006 9:01	11.9308	3.39397	0.122085	1450.37
8/21/2006 9:01	12.88	3.27921	0.24417	1444.27
8/21/2006 9:02	13.2432	3.27921	0.24417	1445.49
8/21/2006 9:02	13.347	3.50629	0.24417	1430.84
8/21/2006 9:02	13.1394	3.70651	0.366256	1414.97
8/21/2006 9:02	12.9197	3.80662	0.366256	1419.85
8/21/2006 9:03	12.7091	3.80662	0.366256	1434.5
8/21/2006 9:03	12.6084	3.80662	0.122085	1455.26
8/21/2006 9:03	12.6084	3.80662	0.366256	1480.89
8/21/2006 9:03	12.7091	3.80662	0.122085	1508.97
8/21/2006 9:04	12.8159	3.80662	0	1545.6

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Run 3

8/21/2006 9:04	12.8159	3.80662	-0.12209	1612.75
8/21/2006 9:04	12.7091	3.80662	0.24417	1643.27
8/21/2006 9:04	12.7091	3.80662	0.24417	1675.01
8/21/2006 9:05	12.7091	3.80662	0.24417	1694.54
8/21/2006 9:05	12.7091	3.80662	0.122085	1821.51
8/21/2006 9:05	12.7091	3.80662	0.24417	1803.2
8/21/2006 9:05	12.7091	3.80662	0.122085	1797.09
8/21/2006 9:06	12.7091	3.80662	-0.12209	1799.54
8/21/2006 9:06	12.7091	3.80662	0.122085	1906.97
8/21/2006 9:06	12.7091	3.80662	0.24417	1900.87
8/21/2006 9:06	12.7091	3.80662	0	1881.33
8/21/2006 9:07	12.7091	3.80662	0	1869.12
8/21/2006 9:07	12.7091	3.80662	0.24417	2076.67
8/21/2006 9:07	12.7091	3.80662	0.122085	2051.03
8/21/2006 9:07	12.7091	3.80662	0.24417	1993.65
8/21/2006 9:08	12.7091	3.80662	0.122085	1935.05
8/21/2006 9:08	12.7091	3.80662	0.24417	1899.65
8/21/2006 9:08	12.7091	3.80662	0	1875.23
8/21/2006 9:08	12.7091	3.80662	0.122085	1876.45
8/21/2006 9:09	12.7091	3.80662	0	1864.24
8/21/2006 9:09	12.7091	3.80662	-0.12209	1989.99
8/21/2006 9:09	12.7091	3.80662	0.122085	1942.38
8/21/2006 9:09	12.7091	3.80662	-0.12209	1891.1
8/21/2006 9:10	12.6053	3.80662	0.366256	1859.36
8/21/2006 9:10	12.6053	3.80662	-0.12209	1867.9
8/21/2006 9:10	12.6053	3.80662	0.366256	1784.89
8/21/2006 9:10	12.6053	3.80662	0.24417	1855.7
8/21/2006 9:11	12.6053	3.80662	-0.12209	1833.72
8/21/2006 9:11	12.6053	3.80662	0.122085	1821.51
8/21/2006 9:11	12.6053	3.80662	0	1812.97
8/21/2006 9:11	12.6053	3.80662	0.122085	1804.42
8/21/2006 9:12	12.6053	3.80662	0.24417	1822.73
8/21/2006 9:12	12.6053	3.80662	0	1805.64
8/21/2006 9:12	12.6053	3.80662	0.24417	1805.64
8/21/2006 9:12	12.6053	3.80662	-0.12209	1812.97
8/21/2006 9:13	12.6053	3.80662	0.24417	1922.84
8/21/2006 9:13	12.6053	3.80662	-0.12209	1891.1
8/21/2006 9:13	12.6053	3.80662	0	1880.11
8/21/2006 9:13	12.5015	3.80662	0	1957.03
8/21/2006 9:14	12.5015	3.80662	0.24417	1921.62
8/21/2006 9:14	12.5015	3.80662	-0.24417	1885
8/21/2006 9:14	12.5015	3.80662	0.366256	1837.38
8/21/2006 9:14	12.5015	3.80662	-0.12209	1874.01
8/21/2006 9:15	12.5015	3.80662	0.122085	1860.58

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Run 3

8/21/2006 9:15	12.5015	3.80662	-0.12209	1859.36
8/21/2006 9:15	12.5015	3.80662	0	1858.14
8/21/2006 9:15	12.5015	3.80662	-0.12209	1850.81
8/21/2006 9:16	12.5015	3.80662	0.366256	1841.05
8/21/2006 9:16	12.5015	3.80662	0.122085	1856.92
8/21/2006 9:16	12.5015	3.80662	-0.12209	1848.37
8/21/2006 9:16	12.5015	3.80662	-0.12209	1861.8
8/21/2006 9:17	12.5015	3.80662	0.24417	1865.46
8/21/2006 9:17	12.5015	3.80662	0.24417	1871.57
8/21/2006 9:17	12.5015	3.80662	-0.12209	1875.23
8/21/2006 9:17	12.4008	3.80662	0.122085	1882.55
8/21/2006 9:18	12.4008	3.80662	0.24417	1913.08
8/21/2006 9:18	12.4008	3.80662	-0.24417	1888.66
8/21/2006 9:18	12.4008	3.80662	0.122085	1925.28
8/21/2006 9:18	12.4008	3.80662	0.24417	1915.52
8/21/2006 9:19	12.4008	3.80662	0	1924.06
8/21/2006 9:19	12.4008	3.80662	0	1872.79
8/21/2006 9:19	12.4008	3.80662	0.122085	1916.74
8/21/2006 9:19	12.4008	3.80662	0.122085	1908.19
8/21/2006 9:20	12.4008	3.80662	0	1880.11
8/21/2006 9:20	12.4008	3.80662	-0.12209	1888.66
8/21/2006 9:20	12.3001	3.80662	0.24417	1922.84
8/21/2006 9:20	12.3001	3.80662	-0.12209	1915.52
8/21/2006 9:21	12.3001	3.80662	0.122085	1947.26
8/21/2006 9:21	12.3001	3.80662	0.24417	1946.04
8/21/2006 9:21	12.3001	3.90673	-0.12209	1919.18
8/21/2006 9:21	12.1994	3.90673	0	1921.62
8/21/2006 9:22	12.1994	3.90673	0.24417	1924.06
8/21/2006 9:22	12.1994	3.90673	-0.12209	1936.27
8/21/2006 9:22	12.1994	3.90673	0.366256	2026.61
8/21/2006 9:22	12.1994	3.90673	0	1993.65
8/21/2006 9:23	12.1994	3.90673	0	1972.9
8/21/2006 9:23	12.1994	3.90673	-0.12209	1985.11
8/21/2006 9:23	12.1994	3.90673	0.24417	2042.49
8/21/2006 9:23	12.1994	3.90673	0.122085	2016.85
8/21/2006 9:24	12.1994	3.90673	0.24417	1991.21
8/21/2006 9:24	12.0986	3.90673	-0.12209	2003.42
8/21/2006 9:24	12.0986	3.90673	0	2180.44
8/21/2006 9:24	12.0986	3.90673	0.122085	2118.18
8/21/2006 9:25	12.0986	3.90673	0	2064.46
8/21/2006 9:25	12.0986	3.90673	0	1943.6
8/21/2006 9:25	12.0986	3.90673	-0.12209	2063.24
8/21/2006 9:25	12.0986	3.90673	0.122085	2256.13
8/21/2006 9:26	12.0986	3.90673	0.24417	2115.74

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Run 3

8/21/2006 9:26	12.0986	3.90673	-0.12209	2107.19
8/21/2006 9:26	11.9979	3.90673	-0.12209	2398.97
8/21/2006 9:26	11.9979	3.90673	0.122085	2275.67
8/21/2006 9:27	11.9979	3.90673	-0.12209	2210.96
8/21/2006 9:27	11.9979	3.90673	-0.24417	2159.69
8/21/2006 9:27	11.9979	3.90673	0.122085	2121.84
8/21/2006 9:27	11.9979	3.90673	0.122085	2107.19
8/21/2006 9:28	11.9979	3.90673	0.122085	2033.94
8/21/2006 9:28	11.9979	3.90673	-0.12209	2020.51
8/21/2006 9:28	11.9979	3.90673	0.24417	2075.45
8/21/2006 9:28	11.9979	3.90673	0.24417	2070.57
8/21/2006 9:29	11.9979	3.90673	-0.12209	2101.09
8/21/2006 9:29	11.9979	3.90673	-0.12209	2086.44
8/21/2006 9:29	11.9979	3.90673	0.24417	2081.55
8/21/2006 9:29	11.9979	3.90673	-0.24417	2081.55
8/21/2006 9:30	11.8972	3.90673	0.122085	2109.63
8/21/2006 9:30	11.8972	3.90673	-0.12209	2102.31
8/21/2006 9:30	11.8972	3.90673	-0.12209	2079.11
8/21/2006 9:30	11.8972	3.90673	0.122085	2102.31
8/21/2006 9:31	11.8972	3.90673	-0.12209	2116.96
8/21/2006 9:31	11.8972	3.90673	0.24417	2309.85
8/21/2006 9:31	11.7934	3.90673	-0.12209	2258.58
8/21/2006 9:31	11.7934	3.90673	-0.12209	2212.18
8/21/2006 9:32	11.7934	3.90673	0.24417	2156.02
8/21/2006 9:32	11.7934	3.90673	-0.12209	2136.49
8/21/2006 9:32	11.7934	3.90673	0.24417	2132.83
8/21/2006 9:32	11.7934	3.90673	-0.12209	2135.27
8/21/2006 9:33	11.7934	3.90673	0.122085	2140.15
8/21/2006 9:33	11.7934	3.90673	-0.24417	2204.86
8/21/2006 9:33	11.7934	3.90673	0.24417	2193.87
8/21/2006 9:33	11.7934	3.90673	-0.12209	2160.91
8/21/2006 9:34	11.7934	3.90673	0	2114.52
8/21/2006 9:34	11.7934	3.90673	-0.12209	2286.66
8/21/2006 9:34	11.7934	3.90673	0	2243.93
8/21/2006 9:34	11.7934	3.90673	0.122085	2218.29
8/21/2006 9:35	11.7934	3.90673	-0.12209	2218.29
8/21/2006 9:35	11.7934	3.90673	0.122085	2220.73
8/21/2006 9:35	11.6897	4.00684	-0.24417	2187.77
8/21/2006 9:35	11.6897	4.00684	-0.24417	2228.06
8/21/2006 9:36	11.6897	4.00684	-0.12209	2226.83
8/21/2006 9:36	11.6897	4.00684	0.24417	2213.4
8/21/2006 9:36	11.6897	4.00684	0.24417	2214.63
8/21/2006 9:36	11.6897	4.00684	0.24417	2212.18
8/21/2006 9:37	11.6897	4.00684	0.122085	2213.4

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Run 3

8/21/2006 9:37	11.5889	4.00684	-0.12209	2240.26
8/21/2006 9:37	11.5889	4.00684	-0.24417	2221.95
8/21/2006 9:37	11.5889	4.00684	0	2193.87
8/21/2006 9:38	11.5889	4.00684	0.24417	2235.38
8/21/2006 9:38	11.5889	4.00684	0.122085	2220.73
8/21/2006 9:38	11.5889	4.00684	-0.12209	2221.95
8/21/2006 9:38	11.4882	4.00684	0	2231.72
8/21/2006 9:39	11.4882	4.00684	0.122085	2217.07
8/21/2006 9:39	11.4882	4.00684	-0.24417	2230.5
8/21/2006 9:39	11.4882	4.00684	0.366256	2317.18
8/21/2006 9:39	11.4882	4.00684	0	2284.21
8/21/2006 9:40	11.4882	4.00684	0.24417	2267.12
8/21/2006 9:40	11.4882	4.00684	-0.24417	2314.74
8/21/2006 9:40	11.4882	4.00684	0.24417	2301.31
8/21/2006 9:40	11.4882	4.00684	0.24417	2270.79
8/21/2006 9:41	11.4882	4.00684	-0.24417	2265.9
8/21/2006 9:41	11.4882	4.00684	0	2341.59
8/21/2006 9:41	11.4882	4.00684	0.122085	2337.93
8/21/2006 9:41	11.4882	4.00684	-0.12209	2325.72
8/21/2006 9:42	11.4882	4.00684	-0.24417	2323.28
8/21/2006 9:42	11.3844	4.00684	-0.12209	2309.85
8/21/2006 9:42	11.3844	4.00684	0.122085	2307.41
8/21/2006 9:42	11.2837	4.00684	0.366256	2287.88
8/21/2006 9:43	11.2837	4.00684	0	2311.07
8/21/2006 9:43	11.2837	4.00684	0	2313.51
8/21/2006 9:43	11.2837	4.00684	0	2289.1
8/21/2006 9:43	11.2837	4.00684	0	2286.66
8/21/2006 9:44	11.2837	4.00684	-0.12209	2335.49
8/21/2006 9:44	11.2837	4.00684	0.122085	2355.02
8/21/2006 9:44	11.2837	4.00684	0.24417	2408.74
8/21/2006 9:44	11.2837	4.00684	-0.12209	2409.96
8/21/2006 9:45	11.2837	4.00684	0.122085	2419.73
8/21/2006 9:45	11.2837	4.00684	0.122085	2430.72
8/21/2006 9:45	11.2837	4.00684	0	2451.47
8/21/2006 9:45	11.2837	4.00684	0.24417	2468.56
8/21/2006 9:46	11.2837	4.00684	-0.12209	2485.65
8/21/2006 9:46	11.2837	4.00684	-0.12209	2497.86
8/21/2006 9:46	11.2837	4.00684	0.24417	2511.29
8/21/2006 9:46	11.2837	4.00684	0	2500.31
8/21/2006 9:47	11.2837	4.00684	-0.12209	2467.34
8/21/2006 9:47	11.2837	4.00684	0.122085	2532.05
8/21/2006 9:47	11.2837	4.00684	-0.12209	2485.65
8/21/2006 9:47	11.183	4.00684	0.122085	2472.23
8/21/2006 9:48	11.183	4.00684	0	2521.06

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Run 3

8/21/2006 9:48	11.183	4.00684	-0.24417	2556.46
8/21/2006 9:48	11.183	4.00684	-0.24417	2616.29
8/21/2006 9:48	11.183	4.00684	0.122085	2597.97
8/21/2006 9:49	11.0762	4.00684	0.366256	2585.76
8/21/2006 9:49	11.0762	4.00684	0.24417	2604.08
8/21/2006 9:49	11.0762	4.00684	0	2596.75
8/21/2006 9:49	11.0762	4.00684	0.122085	2597.97
8/21/2006 9:50	11.0762	4.00684	0.122085	2590.65
8/21/2006 9:50	11.0762	4.00684	0.24417	2610.18
8/21/2006 9:50	11.0762	4.10695	0.24417	2811.62
8/21/2006 9:50	11.0762	4.10695	0.122085	2734.71
8/21/2006 9:51	10.9724	4.10695	0.24417	2706.63
8/21/2006 9:51	10.9724	4.10695	0.24417	2685.87
8/21/2006 9:51	10.9724	4.10695	0.24417	2612.62
8/21/2006 9:51	10.9724	4.10695	-0.12209	2602.86
8/21/2006 9:52	10.8717	4.10695	0.122085	2646.81
8/21/2006 9:52	10.8717	4.10695	0.366256	2685.87
8/21/2006 9:52	10.8717	4.10695	0	2677.33
8/21/2006 9:52	10.8717	4.10695	0.122085	2673.67
8/21/2006 9:53	10.8717	4.10695	0	2605.3
8/21/2006 9:53	10.7649	4.10695	0.122085	2690.76
8/21/2006 9:53	10.7649	4.10695	0.366256	2856.79
8/21/2006 9:53	10.7649	4.10695	-0.12209	2709.07
8/21/2006 9:54	10.7649	4.10695	0	2717.62
8/21/2006 9:54	10.7649	4.10695	0.24417	2706.63
8/21/2006 9:54	10.7649	4.10695	-0.12209	2652.91
8/21/2006 9:54	10.7649	4.10695	0	2656.57
8/21/2006 9:55	10.7649	4.10695	0.24417	2610.18
8/21/2006 9:55	10.7649	4.10695	0	2577.22
8/21/2006 9:55	10.7649	4.10695	0.122085	2545.48
8/21/2006 9:55	10.7649	4.10695	0.488341	2550.36
8/21/2006 9:56	10.7649	4.10695	-0.12209	2499.08
8/21/2006 9:56	10.7649	4.10695	0	2468.56
8/21/2006 9:56	10.7649	4.10695	-0.12209	2375.78
8/21/2006 9:56	10.7649	4.10695	0.122085	2397.75
8/21/2006 9:57	10.7649	4.10695	0.122085	2312.29
8/21/2006 9:57	10.7649	4.10695	-0.12209	2278.11
8/21/2006 9:57	10.7649	4.10695	0.976682	2430.72
8/21/2006 9:57	10.7649	4.10695	1.09877	2407.52
8/21/2006 9:58	10.7649	4.10695	1.46502	2377
8/21/2006 9:58	10.6641	4.10695	7.08094	2462.46
8/21/2006 9:58	10.6641	4.10695	3.2963	2390.43
8/21/2006 9:58	10.6641	4.10695	2.4417	2561.35
8/21/2006 9:59	10.6641	4.10695	1.46502	2573.56

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8/21/2006 9:59	10.6641	4.10695	0.854597	2655.35
8/21/2006 9:59	10.6641	4.10695	1.22085	2560.13
8/21/2006 9:59	10.6641	3.88719	1.22085	2489.32
8/21/2006 10:00	10.89	3.78708	0.854597	2434.38
8/21/2006 10:00	11.1128	3.78708	1.22085	2375.78
8/21/2006 10:00	11.1128	3.88963	0.610426	2301.31
8/21/2006 10:00	11.1128	3.99219	1.09877	2245.15
8/21/2006 10:01	11.1128	3.99219	0.854597	2219.51
8/21/2006 10:01	11.1128	3.99219	0.854597	2140.15
8/21/2006 10:01	11.2166	3.99219	0.976682	2151.14
8/21/2006 10:01	11.2166	3.99219	0.854597	2080.33
8/21/2006 10:02	11.3204	3.99219	0.732511	2008.3
8/21/2006 10:02	11.4211	4.0923	1.09877	1979
8/21/2006 10:02	11.5279	4.0923	1.34294	1883.77
8/21/2006 10:02	11.5279	4.0923	0.976682	1793.43
8/21/2006 10:03	11.6286	4.0923	0.732511	1917.96
8/21/2006 10:03	11.6286	4.0923	1.22085	1919.18
8/21/2006 10:03	11.7293	4.0923	0.732511	1838.6
8/21/2006 10:03	11.8392	3.99219	1.22085	1892.32
8/21/2006 10:04	12.0681	3.88963	0.610426	1867.9
8/21/2006 10:04	12.2848	3.88963	1.09877	1832.5
8/21/2006 10:04	12.2848	3.88963	0.610426	1858.14
8/21/2006 10:04	12.2848	3.99219	1.09877	1872.79
8/21/2006 10:05	12.1841	3.99219	0.854597	1872.79
8/21/2006 10:05	12.1841	3.99219	0.976682	1838.6
8/21/2006 10:05	12.1841	3.99219	0.610426	1876.45
8/21/2006 10:05	12.0834	4.0923	0.854597	1872.79
8/21/2006 10:06	12.0834	4.0923	1.22085	1860.58
8/21/2006 10:06	12.0834	4.0923	1.09877	1863.02
8/21/2006 10:06	12.0834	4.0923	0.732511	1993.65
8/21/2006 10:06	12.0834	4.0923	0.732511	1980.22
8/21/2006 10:07	12.0834	4.0923	0.854597	1948.48
8/21/2006 10:07	12.0834	4.0923	1.09877	1939.93
8/21/2006 10:07	12.0834	4.0923	0.976682	1927.73
8/21/2006 10:07	12.0834	4.0923	0.854597	1909.41
8/21/2006 10:08	12.0834	4.0923	1.09877	1937.49
8/21/2006 10:08	12.0834	4.0923	1.22085	1941.15
8/21/2006 10:08	12.0834	4.0923	0.854597	1902.09
8/21/2006 10:08	12.0834	4.0923	0.732511	1869.12
8/21/2006 10:09	12.0834	4.0923	1.09877	1939.93
8/21/2006 10:09	12.0834	4.0923	0.732511	2041.26
8/21/2006 10:09	12.0834	4.0923	1.09877	1935.05
8/21/2006 10:09	12.0834	4.0923	0.732511	1977.78
8/21/2006 10:10	12.0834	4.0923	0.976682	1935.05

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Run 3

8/21/2006 10:10	12.0834	4.0923	0.976682	1996.09
8/21/2006 10:10	12.0834	4.0923	0.610426	1992.43
8/21/2006 10:10	12.0834	4.0923	0.854597	2041.26
8/21/2006 10:11	12.0834	4.0923	0.854597	2022.95
8/21/2006 10:11	11.9827	4.0923	0.976682	1969.23
8/21/2006 10:11	11.9827	4.0923	0.610426	1927.73
8/21/2006 10:11	11.9827	4.0923	1.09877	1974.12
8/21/2006 10:12	11.9827	4.0923	0.732511	1949.7
8/21/2006 10:12	11.9827	4.0923	0.854597	1958.25
8/21/2006 10:12	11.9827	4.0923	0.732511	1971.68
8/21/2006 10:12	11.9827	4.0923	1.09877	1987.55
8/21/2006 10:13	11.9827	4.0923	0.732511	1977.78
8/21/2006 10:13	11.9827	4.0923	1.09877	1969.23
8/21/2006 10:13	11.9827	4.0923	0.488341	1965.57
8/21/2006 10:13	11.9827	4.0923	0.854597	1939.93
8/21/2006 10:14	11.9827	4.0923	0.854597	1959.47
8/21/2006 10:14	11.9827	4.0923	0.854597	2237.82
8/21/2006 10:14	11.9827	4.0923	0.854597	2082.77
8/21/2006 10:14	11.9827	4.0923	0.732511	2059.58
8/21/2006 10:15	11.9827	4.0923	1.09877	2036.38
8/21/2006 10:15	11.9827	4.0923	0.610426	2016.85
8/21/2006 10:15	11.9827	4.0923	0.976682	1943.6
8/21/2006 10:15	11.9827	4.0923	0.488341	1986.33
8/21/2006 10:16	11.9827	4.0923	0.854597	2011.96
8/21/2006 10:16	11.9827	4.0923	0.976682	1949.7
8/21/2006 10:16	11.9827	4.0923	0.854597	2064.46
8/21/2006 10:16	11.9827	4.0923	0.610426	2068.12
8/21/2006 10:17	11.9827	4.0923	0.976682	2047.37
8/21/2006 10:17	11.9827	4.0923	0.854597	2081.55
8/21/2006 10:17	11.9827	4.0923	0.854597	2118.18
8/21/2006 10:17	11.9827	4.0923	1.09877	2112.07
8/21/2006 10:18	11.9827	3.99219	0.854597	2116.96
8/21/2006 10:18	12.0895	3.99219	0.610426	2132.83
8/21/2006 10:18	12.0895	3.99219	0.976682	2157.25
8/21/2006 10:18	12.0895	3.99219	1.09877	2134.05
8/21/2006 10:19	12.0895	4.0923	0.610426	2052.25
8/21/2006 10:19	11.9888	4.0923	1.09877	2093.76
8/21/2006 10:19	11.9888	4.0923	0.732511	2210.96
8/21/2006 10:19	11.888	4.19241	1.09877	2226.83
8/21/2006 10:20	11.888	4.19241	0.854597	2188.99
8/21/2006 10:20	11.7873	4.19241	0.610426	2156.02
8/21/2006 10:20	11.7873	4.19241	0.976682	2219.51
8/21/2006 10:20	11.7873	4.19241	0.854597	2192.65
8/21/2006 10:21	11.7873	4.19241	0.732511	2220.73

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Run 3

8/21/2006 10:21	11.6836	4.19241	0.976682	2202.42
8/21/2006 10:21	11.6836	4.19241	0.610426	2188.99
8/21/2006 10:21	11.6836	4.19241	0.732511	2171.9
8/21/2006 10:22	11.6836	4.19241	0.854597	2156.02
8/21/2006 10:22	11.6836	4.19241	0.854597	2156.02
8/21/2006 10:22	11.6836	4.19241	0.732511	2141.37
8/21/2006 10:22	11.6836	4.19241	0.976682	2212.18
8/21/2006 10:23	11.5828	4.19241	0.976682	2178
8/21/2006 10:23	11.5828	4.19241	0.854597	2174.34
8/21/2006 10:23	11.5828	4.19241	1.09877	2167.01
8/21/2006 10:23	11.5828	4.19241	0.610426	2160.91
8/21/2006 10:24	11.5828	4.19241	1.22085	2124.28
8/21/2006 10:24	11.5828	4.19241	0.610426	2164.57
8/21/2006 10:24	11.5828	4.19241	1.09877	2164.57
8/21/2006 10:24	11.5828	4.19241	0.732511	2298.86
8/21/2006 10:25	11.5828	4.29252	0.610426	2191.43
8/21/2006 10:25	11.5828	4.29252	1.09877	2225.61
8/21/2006 10:25	11.4791	4.29252	0.976682	2132.83
8/21/2006 10:25	11.4791	4.29252	0.732511	2153.58
8/21/2006 10:26	11.4791	4.29252	0.976682	2110.85
8/21/2006 10:26	11.4791	4.29252	0.854597	2196.31
8/21/2006 10:26	11.4791	4.29252	0.610426	2136.49
8/21/2006 10:26	11.4791	4.29252	0.854597	2112.07
8/21/2006 10:27	11.4791	4.29252	0.854597	2092.54
8/21/2006 10:27	11.4791	4.29252	0.610426	2116.96
8/21/2006 10:27	11.4791	4.29252	1.09877	2162.13
8/21/2006 10:27	11.4791	4.29252	0.854597	2116.96
8/21/2006 10:28	11.4791	4.29252	0.610426	2038.82
8/21/2006 10:28	11.4791	4.29252	0.610426	2123.06
8/21/2006 10:28	11.4791	4.29252	0.854597	2074.23
8/21/2006 10:28	11.4791	4.29252	1.09877	2135.27
8/21/2006 10:29	11.4791	4.29252	0.732511	2109.63
8/21/2006 10:29	11.4791	4.29252	0.610426	2137.71
8/21/2006 10:29	11.4791	4.29252	0.976682	2113.3
8/21/2006 10:29	11.4791	4.29252	0.854597	2096.2
8/21/2006 10:30	11.4791	4.29252	0.976682	2163.35
8/21/2006 10:30	11.3753	4.29252	0.610426	2339.15
8/21/2006 10:30	11.3753	4.29252	0.976682	2202.42
8/21/2006 10:30	11.3753	4.29252	0.610426	2173.12
8/21/2006 10:31	11.3753	4.29252	0.610426	2112.07
8/21/2006 10:31	11.3753	4.29252	0.976682	2132.83
8/21/2006 10:31	11.3753	4.29252	0.854597	2197.53
8/21/2006 10:31	11.3753	4.29252	0.732511	2142.6
8/21/2006 10:32	11.3753	4.29252	0.732511	2135.27

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Run 3

8/21/2006 10:32	11.3753	4.29252	0.610426	2126.72
8/21/2006 10:32	11.3753	4.29252	0.732511	2112.07
8/21/2006 10:32	11.2746	4.29252	0.610426	2052.25
8/21/2006 10:33	11.2746	4.29252	0.732511	2093.76
8/21/2006 10:33	11.2746	4.29252	1.09877	2387.99
8/21/2006 10:33	11.2746	4.29252	0.854597	2252.47
8/21/2006 10:33	11.2746	4.29252	0.610426	2126.72
8/21/2006 10:34	11.2746	4.29252	0.732511	2226.83
8/21/2006 10:34	11.2746	4.29252	0.976682	2132.83
8/21/2006 10:34	11.2746	4.29252	0.732511	2129.17
8/21/2006 10:34	11.2746	4.29252	0.854597	2059.58
8/21/2006 10:35	11.1708	4.29252	0.732511	2110.85
8/21/2006 10:35	11.1708	4.29252	0.732511	2091.32
8/21/2006 10:35	11.1708	4.29252	1.09877	2126.72
8/21/2006 10:35	11.1708	4.29252	0.854597	2152.36
8/21/2006 10:36	11.1708	4.29252	0.610426	2297.64
8/21/2006 10:36	11.1708	4.29252	0.854597	2160.91
8/21/2006 10:36	11.1708	4.29252	1.09877	2174.34
8/21/2006 10:36	11.1708	4.29252	0.610426	2081.55
8/21/2006 10:37	11.1708	4.29252	0.854597	2059.58
8/21/2006 10:37	11.1708	4.39263	0.976682	2057.14
8/21/2006 10:37	11.0701	4.39263	0.610426	2008.3
8/21/2006 10:37	11.0701	4.39263	0.854597	2285.44
8/21/2006 10:38	11.0701	4.39263	0.976682	2125.5
8/21/2006 10:38	11.0701	4.39263	0.488341	2076.67
8/21/2006 10:38	11.0701	4.39263	0.488341	2019.29
8/21/2006 10:38	11.0701	4.39263	1.09877	1992.43
8/21/2006 10:39	11.0701	4.39263	0.854597	2003.42
8/21/2006 10:39	11.0701	4.39263	0.610426	1974.12
8/21/2006 10:39	11.0701	4.39263	1.09877	1983.88
8/21/2006 10:39	11.0701	4.39263	0.854597	2049.81
8/21/2006 10:40	10.9663	4.39263	0.610426	1975.34
8/21/2006 10:40	10.9663	4.39263	0.854597	1986.33
8/21/2006 10:40	10.9663	4.39263	0.976682	1957.03
8/21/2006 10:40	11.0731	4.39263	0.610426	1937.49
8/21/2006 10:41	10.9724	4.39263	1.09877	1924.06
8/21/2006 10:41	10.9724	4.39263	0.854597	1760.47
8/21/2006 10:41	10.9724	4.39263	0.732511	1941.15
8/21/2006 10:41	10.9724	4.39263	0.488341	1922.84
8/21/2006 10:42	10.9724	4.39263	0.976682	1820.29
8/21/2006 10:42	10.9724	4.39263	0.854597	1871.57
8/21/2006 10:42	10.9724	4.39263	0.610426	1834.94
8/21/2006 10:42	10.9724	4.39263	0.610426	1845.93
8/21/2006 10:43	10.9724	4.39263	0.732511	1999.76

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Run 3

8/21/2006 10:43	10.9724	4.39263	1.09877	1880.11
8/21/2006 10:43	10.8717	4.39263	0.610426	1808.08
8/21/2006 10:43	10.8717	4.39263	0.854597	1799.54
8/21/2006 10:44	10.8717	4.39263	0.976682	1722.62
8/21/2006 10:44	10.8717	4.39263	0.610426	1797.09
8/21/2006 10:44	10.8717	4.39263	0.976682	1744.6
8/21/2006 10:44	10.8717	4.39263	0.854597	1798.32
8/21/2006 10:45	10.8717	4.39263	0.732511	1782.44
8/21/2006 10:45	10.8717	4.39263	0.854597	1931.39
8/21/2006 10:45	10.8717	4.39263	0.732511	1854.47
8/21/2006 10:45	10.8717	4.39263	0.976682	1838.6
8/21/2006 10:46	10.8717	4.39263	0.732511	1775.12
8/21/2006 10:46	10.8717	4.39263	0.976682	1637.16
8/21/2006 10:46	10.8717	4.39263	0.610426	1728.73
8/21/2006 10:46	10.8717	4.39263	0.976682	1742.16
8/21/2006 10:47	10.8717	4.39263	0.854597	1725.06
8/21/2006 10:47	10.7649	4.39263	0.732511	1655.48
8/21/2006 10:47	10.7649	4.39263	0.610426	1668.9
8/21/2006 10:47	10.7649	4.39263	0.854597	1704.31
8/21/2006 10:48	10.7649	4.39263	0.610426	1703.09
8/21/2006 10:48	10.7649	4.39263	1.09877	1858.14
8/21/2006 10:48	10.7649	4.39263	0.732511	1803.2
8/21/2006 10:48	10.7649	4.39263	0.732511	1671.35
8/21/2006 10:49	10.7649	4.39263	0.976682	1703.09
8/21/2006 10:49	10.7649	4.39263	0.854597	1830.06
8/21/2006 10:49	10.7649	4.39263	0.732511	1751.92
8/21/2006 10:49	10.7649	4.39263	1.09877	1693.32
8/21/2006 10:50	10.7649	4.39263	0.732511	1788.55
8/21/2006 10:50	10.7649	4.39263	0.488341	1747.04
8/21/2006 10:50	10.7649	4.39263	0.610426	1696.98
8/21/2006 10:50	10.7649	4.39263	0.976682	1659.14
8/21/2006 10:51	10.7649	4.39263	0.854597	1587.11
8/21/2006 10:51	10.7649	4.39263	0.732511	1662.8
8/21/2006 10:51	10.7649	4.39263	1.09877	1515.08
8/21/2006 10:51	10.7649	4.39263	0.610426	1659.14
8/21/2006 10:52	10.7649	4.39263	0.854597	1726.28
8/21/2006 10:52	10.7649	4.39263	0.854597	1686
8/21/2006 10:52	10.7649	4.39263	0.976682	1677.45
8/21/2006 10:52	10.7649	4.39263	0.976682	1648.15
8/21/2006 10:53	10.7649	4.39263	0.610426	1617.63
8/21/2006 10:53	10.6611	4.39263	1.09877	1787.33
8/21/2006 10:53	10.6611	4.39263	0.854597	1707.97
8/21/2006 10:53	10.6611	4.39263	0.732511	1659.14
8/21/2006 10:54	10.6611	4.39263	0.854597	1629.84

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Run 3

8/21/2006 10:54	10.6611	4.39263	0.854597	1650.59
8/21/2006 10:54	10.6611	4.39263	0.610426	1646.93
8/21/2006 10:54	10.6611	4.39263	1.09877	1651.81
8/21/2006 10:55	10.6611	4.39263	1.09877	1627.4
8/21/2006 10:55	10.5573	4.39263	0.854597	1578.56
8/21/2006 10:55	10.5573	4.39263	0.976682	1528.51
8/21/2006 10:55	10.5573	4.39263	0.610426	1628.62
8/21/2006 10:56	10.5573	4.39263	0.854597	1688.44
8/21/2006 10:56	10.4566	4.39263	0.976682	1640.83
8/21/2006 10:56	10.4566	4.39263	0.854597	1638.38
8/21/2006 10:56	10.4566	4.39263	0.976682	1526.07
8/21/2006 10:57	10.4566	4.39263	0.610426	1529.73
8/21/2006 10:57	10.4566	4.49274	0.732511	1507.75
8/21/2006 10:57	10.4566	4.49274	0.854597	1545.6
8/21/2006 10:57	10.4566	4.49274	0.854597	1559.03
8/21/2006 10:58	10.4566	4.49274	1.09877	1599.32
8/21/2006 10:58	10.4566	4.49274	0.976682	1640.83
8/21/2006 10:58	10.4566	4.49274	0.732511	1598.1
8/21/2006 10:58	10.4566	4.39018	0.610426	1563.91
8/21/2006 10:59	10.4566	4.39018	1.09877	1671.35
8/21/2006 10:59	10.4566	4.39018	1.09877	1611.52
8/21/2006 10:59	10.4566	4.39018	0.976682	1587.11
8/21/2006 10:59	10.4566	4.39018	0.854597	1534.61
8/21/2006 11:00	10.4566	4.39018	0.976682	1510.19
8/21/2006 11:00	10.4566	4.39018	0.976682	1555.37
8/21/2006 11:00	10.4566	4.39018	0.976682	1543.16
8/21/2006 11:00	10.4566	4.28763	1.09877	1618.85
8/21/2006 11:01	10.4566	4.28763	0.976682	1581
8/21/2006 11:01	10.4566	4.28763	0.610426	1530.95
8/21/2006 11:01	10.4566	4.28763	0.976682	1548.04
8/21/2006 11:01	10.4566	4.28763	0.854597	1567.57
8/21/2006 11:02	10.5573	4.28763	0.732511	1512.64
8/21/2006 11:02	10.5573	4.28763	1.22085	1526.07
8/21/2006 11:02	10.5573	4.28763	0.854597	1504.09
8/21/2006 11:02	10.5573	4.28763	0.732511	1515.08
8/21/2006 11:03	10.5573	4.28763	1.09877	1507.75
8/21/2006 11:03	10.5573	4.28763	0.732511	1493.1
8/21/2006 11:03	10.5573	4.28763	0.610426	1490.66
8/21/2006 11:03	10.5573	4.28763	0.610426	1504.09
8/21/2006 11:04	10.5573	4.28763	1.09877	1473.57
8/21/2006 11:04	10.5573	4.28763	0.732511	1501.65
8/21/2006 11:04	10.5573	4.28763	0.854597	1629.84
8/21/2006 11:04	10.5573	4.28763	0.976682	1540.72
8/21/2006 11:05	10.4566	4.28763	0.610426	1596.87

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8/21/2006 11:05	10.4566	4.28763	1.09877	1559.03
8/21/2006 11:05	10.4566	4.28763	0.732511	1501.65
8/21/2006 11:05	10.4566	4.28763	0.610426	1504.09
8/21/2006 11:06	10.4566	4.28763	0.732511	1513.86
8/21/2006 11:06	10.4566	4.28763	0.610426	1506.53
8/21/2006 11:06	10.4566	4.28763	0.610426	1513.86
8/21/2006 11:06	10.3559	4.28763	0.732511	1512.64
8/21/2006 11:07	10.3559	4.28763	0.732511	1502.87
8/21/2006 11:07	10.3559	4.28763	0.732511	1474.79
8/21/2006 11:07	10.3559	4.28763	1.09877	1528.51
8/21/2006 11:07	10.3559	4.28763	0.976682	1519.96
8/21/2006 11:08	10.3559	4.28763	0.854597	1545.6
8/21/2006 11:08	10.3559	4.28763	0.854597	1522.4
8/21/2006 11:08	10.3559	4.28763	0.610426	1493.1
8/21/2006 11:08	10.3559	4.28763	0.610426	1544.38
8/21/2006 11:09	10.3559	4.28763	0.854597	1555.37
8/21/2006 11:09	10.3559	4.28763	1.09877	1587.11
8/21/2006 11:09	10.3559	4.28763	0.854597	1457.7
8/21/2006 11:09	10.3559	4.28763	0.610426	1555.37
8/21/2006 11:10	10.3559	4.28763	0.732511	1591.99
8/21/2006 11:10	10.3559	4.28763	0.976682	1566.35
8/21/2006 11:10	10.2552	4.28763	0.854597	1491.88
8/21/2006 11:10	10.2552	4.28763	0.732511	1523.62
8/21/2006 11:11	10.2552	4.28763	0.976682	1556.59
8/21/2006 11:11	10.2552	4.28763	1.09877	1507.75
8/21/2006 11:11	10.2552	4.28763	0.854597	1556.59
8/21/2006 11:11	10.2552	4.28763	0.610426	1519.96
8/21/2006 11:12	10.2552	4.28763	0.976682	1493.1
8/21/2006 11:12	10.2552	4.28763	0.610426	1555.37
8/21/2006 11:12	10.2552	4.28763	0.976682	1550.48
8/21/2006 11:12	10.1544	4.28763	0.610426	1555.37
8/21/2006 11:13	10.1544	4.28763	0.976682	1541.94
8/21/2006 11:13	10.1544	4.28763	0.610426	1505.31
8/21/2006 11:13	10.1544	4.28763	0.976682	1513.86
8/21/2006 11:13	10.1544	4.28763	0.610426	1534.61
8/21/2006 11:14	10.1544	4.28763	0.854597	1478.45
8/21/2006 11:14	10.1544	4.28763	1.22085	1507.75
8/21/2006 11:14	10.1544	4.28763	0.854597	1479.67
8/21/2006 11:14	10.1544	4.28763	0.732511	1457.7
8/21/2006 11:15	10.1544	4.28763	0.854597	1425.96
8/21/2006 11:15	10.1544	4.28763	0.854597	1472.35
8/21/2006 11:15	10.0537	4.28763	0.976682	1450.37
8/21/2006 11:15	10.0537	4.28763	0.732511	1546.82
8/21/2006 11:16	10.0537	4.28763	0.488341	1485.78

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Run 3

8/21/2006 11:16	10.0537	4.28763	0.610426	1463.8
8/21/2006 11:16	10.0537	4.28763	0.854597	1457.7
8/21/2006 11:16	10.0537	4.28763	0.488341	1465.02
8/21/2006 11:17	10.0537	4.28763	1.09877	1535.83
8/21/2006 11:17	10.0537	4.28763	0.610426	1450.37
8/21/2006 11:17	10.0537	4.28763	0.854597	1430.84
8/21/2006 11:17	10.0537	4.28763	0.488341	1443.05
8/21/2006 11:18	9.953	4.28763	1.09877	1455.26
8/21/2006 11:18	9.953	4.28763	0.732511	1396.65
8/21/2006 11:18	9.953	4.28763	0.488341	1441.83
8/21/2006 11:18	9.953	4.28763	1.09877	1406.42
8/21/2006 11:19	9.953	4.28763	0.976682	1438.16
8/21/2006 11:19	9.953	4.28763	0.610426	1419.85
8/21/2006 11:19	9.953	4.28763	0.976682	1422.29
8/21/2006 11:19	9.953	4.28763	1.22085	1378.34
8/21/2006 11:20	9.953	4.28763	0.732511	1433.28
8/21/2006 11:20	9.953	4.28763	0.732511	1450.37
8/21/2006 11:20	9.85228	4.28763	0.976682	1467.46
8/21/2006 11:20	9.85228	4.28763	0.610426	1478.45
8/21/2006 11:21	9.85228	4.28763	1.09877	1382
8/21/2006 11:21	9.85228	4.28763	0.610426	1443.05
8/21/2006 11:21	9.85228	4.28763	0.854597	1471.13
8/21/2006 11:21	9.85228	4.28763	0.610426	1466.24
8/21/2006 11:22	9.85228	4.28763	0.854597	1477.23
8/21/2006 11:22	9.85228	4.28763	0.854597	1480.89
8/21/2006 11:22	9.85228	4.28763	0.488341	1513.86
8/21/2006 11:22	9.85228	4.28763	0.854597	1473.57
8/21/2006 11:23	9.85228	4.28763	1.09877	1463.8
8/21/2006 11:23	9.85228	4.28763	0.610426	1515.08
8/21/2006 11:23	9.85228	4.28763	0.976682	1618.85
8/21/2006 11:23	9.85228	4.28763	0.976682	1524.84
8/21/2006 11:24	9.75156	4.28763	0.610426	1508.97
8/21/2006 11:31	9.74545	4.17287	0.854597	1565.13
8/21/2006 11:31	9.5257	4.27542	0.732511	1568.8
8/21/2006 11:32	9.42498	4.27542	0.976682	1576.12
8/21/2006 11:32	9.42498	4.27542	1.22085	1563.91
8/21/2006 11:32	9.42498	4.27542	0.732511	1567.57
8/21/2006 11:32	9.42498	4.27542	0.976682	1550.48
8/21/2006 11:33	9.42498	4.27542	0.854597	1546.82
8/21/2006 11:33	9.42498	4.27542	0.854597	1544.38
8/21/2006 11:33	9.42498	4.27542	0.732511	1532.17
8/21/2006 11:33	9.32121	4.27542	1.09877	1519.96
8/21/2006 11:34	9.32121	4.27542	0.610426	1463.8
8/21/2006 11:34	9.32121	4.27542	1.22085	1452.81

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Run 3

8/21/2006 11:34	9.32121	4.27542	0.610426	1439.38
8/21/2006 11:34	9.32121	4.27542	0.976682	1419.85
8/21/2006 11:35	9.32121	4.37553	0.854597	1622.51
8/21/2006 11:35	9.32121	4.37553	0.732511	1552.92
8/21/2006 11:35	9.21743	4.37553	0.976682	1530.95
8/21/2006 11:35	9.21743	4.37553	0.732511	1532.17
8/21/2006 11:36	9.21743	4.37553	0.854597	1517.52
8/21/2006 11:36	9.21743	4.37553	0.610426	1504.09
8/21/2006 11:36	9.21743	4.37553	1.09877	1576.12
8/21/2006 11:36	9.21743	4.37553	0.732511	1356.37
8/21/2006 11:37	9.21743	4.37553	0.976682	1538.27
8/21/2006 11:37	9.11671	4.37553	1.09877	1495.54
8/21/2006 11:37	9.11671	4.37553	0.610426	1516.3
8/21/2006 11:37	9.11671	4.37553	1.09877	1600.54
8/21/2006 11:38	9.11671	4.37553	0.610426	1438.16
8/21/2006 11:38	9.11671	4.37553	0.976682	1480.89
8/21/2006 11:38	9.11671	4.37553	0.610426	1500.43
8/21/2006 11:38	9.11671	4.37553	0.976682	1390.55
8/21/2006 11:39	9.11671	4.37553	0.610426	1482.11
8/21/2006 11:39	9.11671	4.37553	0.854597	1440.61
8/21/2006 11:39	9.11671	4.37553	0.976682	1483.34
8/21/2006 11:39	9.11671	4.37553	0.610426	1467.46
8/21/2006 11:40	9.11671	4.37553	0.732511	1485.78
8/21/2006 11:40	9.11671	4.37553	0.854597	1456.48
8/21/2006 11:40	9.11671	4.37553	0.610426	1490.66
8/21/2006 11:40	9.11671	4.37553	0.854597	1497.99
8/21/2006 11:41	9.11671	4.37553	0.732511	1521.18
8/21/2006 11:41	9.11671	4.37553	0.854597	1543.16
8/21/2006 11:41	9.11671	4.37553	0.610426	1548.04
8/21/2006 11:41	9.11671	4.37553	1.09877	1567.57
8/21/2006 11:42	9.11671	4.37553	0.854597	1526.07
8/21/2006 11:42	9.11671	4.37553	0.854597	1548.04
8/21/2006 11:42	9.11671	4.37553	0.732511	1534.61
8/21/2006 11:42	9.11671	4.37553	1.09877	1543.16
8/21/2006 11:43	9.11671	4.37553	0.610426	1548.04
8/21/2006 11:43	9.01599	4.37553	0.732511	1543.16
8/21/2006 11:43	9.01599	4.37553	1.09877	1521.18
8/21/2006 11:43	9.01599	4.37553	0.732511	1533.39
8/21/2006 11:44	9.01599	4.37553	0.976682	1515.08
8/21/2006 11:44	9.01599	4.37553	0.610426	1544.38
8/21/2006 11:44	9.01599	4.37553	0.732511	1530.95
8/21/2006 11:44	9.01599	4.37553	0.976682	1518.74
8/21/2006 11:45	9.01599	4.47809	0.854597	1482.11
8/21/2006 11:45	9.01599	4.47809	0.610426	1515.08

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Run 3

8/21/2006 11:45	9.01599	4.47809	0.976682	1517.52
8/21/2006 11:45	9.01599	4.47809	0.976682	1462.58
8/21/2006 11:46	9.01599	4.47809	0.610426	1527.29
8/21/2006 11:46	9.01599	4.47809	0.854597	1511.41
8/21/2006 11:46	9.01599	4.47809	1.09877	1623.73
8/21/2006 11:46	9.01599	4.47809	0.976682	1554.14
8/21/2006 11:47	9.01599	4.47809	0.854597	1612.75
8/21/2006 11:47	9.01599	4.47809	0.610426	1604.2
8/21/2006 11:47	9.01599	4.47809	0.854597	1538.27
8/21/2006 11:47	9.01599	4.47809	0.854597	1476.01
8/21/2006 11:48	9.01599	4.47809	0.610426	1539.49
8/21/2006 11:48	9.01599	4.47809	1.09877	1523.62
8/21/2006 11:48	9.01599	4.47809	0.610426	1512.64
8/21/2006 11:48	9.01599	4.47809	0.976682	1537.05
8/21/2006 11:49	9.01599	4.47809	0.854597	1482.11
8/21/2006 11:49	9.01599	4.47809	0.732511	1499.21
8/21/2006 11:49	9.01599	4.47809	0.732511	1555.37
8/21/2006 11:49	9.01599	4.47809	0.976682	1497.99
8/21/2006 11:50	9.01599	4.47809	1.09877	1561.47
8/21/2006 11:50	9.01599	4.47809	0.610426	1538.27
8/21/2006 11:50	9.01599	4.47809	0.976682	1537.05
8/21/2006 11:50	9.01599	4.47809	0.732511	1544.38
8/21/2006 11:51	9.01599	4.47809	0.854597	1637.16
8/21/2006 11:51	9.01599	4.47809	0.976682	1613.97
8/21/2006 11:51	9.01599	4.47809	0.610426	1548.04
8/21/2006 11:51	9.01599	4.47809	0.854597	1612.75
8/21/2006 11:52	9.01599	4.47809	1.09877	1485.78
8/21/2006 11:52	9.01599	4.47809	0.610426	1617.63
8/21/2006 11:52	9.01599	4.47809	0.610426	1557.81
8/21/2006 11:52	9.01599	4.47809	0.610426	1616.41
8/21/2006 11:53	9.01599	4.47809	0.854597	1595.65
8/21/2006 11:53	8.91527	4.47809	0.854597	1627.4
8/21/2006 11:53	8.91527	4.47809	0.610426	1621.29
8/21/2006 11:53	8.91527	4.47809	0.610426	1667.68
8/21/2006 11:54	8.91527	4.47809	0.488341	1650.59
8/21/2006 11:54	8.91527	4.47809	0.610426	1675.01
8/21/2006 11:54	8.91527	4.47809	0.610426	1772.68
8/21/2006 11:54	8.91527	4.47809	0.610426	1729.95
8/21/2006 11:55	8.91527	4.47809	0.732511	1692.1
8/21/2006 11:55	8.91527	4.47809	0.732511	1692.1
8/21/2006 11:55	8.91527	4.47809	0.732511	1659.14
8/21/2006 11:55	8.91527	4.47809	0.488341	1620.07
8/21/2006 11:56	8.91527	4.47809	0.488341	1633.5
8/21/2006 11:56	8.91527	4.47809	0.732511	1591.99

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Run 3

8/21/2006 11:56	8.91527	4.47809	0.732511	1611.52
8/21/2006 11:56	8.91527	4.47809	0.976682	1573.68
8/21/2006 11:57	8.91527	4.47809	0.976682	1484.56
8/21/2006 11:57	8.91527	4.47809	0.976682	1572.46
8/21/2006 11:57	8.91527	4.47809	1.09877	1511.41
8/21/2006 11:57	8.91527	4.47809	0.854597	1563.91
8/21/2006 11:58	8.91527	4.47809	0.976682	1530.95
8/21/2006 11:58	8.91527	4.47809	1.09877	1526.07
8/21/2006 11:58	8.91527	4.47809	1.09877	1357.59
8/21/2006 11:58	8.91527	4.47809	0.732511	1469.91
8/21/2006 11:59	8.91527	4.47809	0.732511	1446.71
8/21/2006 11:59	8.91527	4.47809	1.09877	1493.1
8/21/2006 11:59	8.91527	4.47809	0.854597	1403.98
8/21/2006 11:59	8.91527	4.47809	0.732511	1508.97
8/21/2006 12:00	8.91527	4.47809	0.610426	1414.97
8/21/2006 12:00	8.91527	4.47809	0.610426	1451.59
8/21/2006 12:00	8.91527	4.47809	0.732511	1501.65
8/21/2006 12:00	8.91527	4.47809	0.610426	1478.45
8/21/2006 12:01	8.91527	4.47809	0.610426	1467.46
8/21/2006 12:01	8.91527	4.47809	0.610426	1395.43
8/21/2006 12:01	8.91527	4.47809	0.610426	1457.7
8/21/2006 12:01	8.91527	4.47809	0.610426	1554.14
8/21/2006 12:02	8.91527	4.47809	0.610426	1572.46
8/21/2006 12:02	8.91527	4.47809	0.854597	1534.61
8/21/2006 12:02	8.91527	4.47809	1.09877	1602.98
8/21/2006 12:02	8.91527	4.47809	1.09877	1591.99
8/21/2006 12:03	8.91527	4.47809	0.854597	1545.6
8/21/2006 12:03	8.91527	4.47809	0.732511	1522.4
8/21/2006 12:03	8.91527	4.47809	0.488341	1472.35
8/21/2006 12:03	8.91527	4.47809	0.732511	1557.81
8/21/2006 12:04	8.91527	4.47809	0.976682	1551.7
8/21/2006 12:04	8.91527	4.47809	1.09877	1557.81
8/21/2006 12:04	8.91527	4.47809	0.854597	1607.86
8/21/2006 12:04	8.91527	4.47809	0.854597	1551.7
8/21/2006 12:05	8.81455	4.47809	1.09877	1427.18
8/21/2006 12:05	8.81455	4.47809	0.854597	1581
8/21/2006 12:05	8.81455	4.47809	0.976682	1643.27
8/21/2006 12:05	8.81455	4.47809	0.854597	1577.34
8/21/2006 12:06	8.81455	4.47809	0.610426	1438.16
8/21/2006 12:06	8.81455	4.47809	1.09877	1556.59
8/21/2006 12:06	8.81455	4.47809	0.610426	1577.34
8/21/2006 12:06	8.81455	4.47809	0.610426	1578.56
8/21/2006 12:07	8.81455	4.47809	0.854597	1483.34
8/21/2006 12:07	8.81455	4.47809	1.09877	1526.07

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Run 3

8/21/2006 12:07	8.81455	4.47809	0.732511	1540.72
8/21/2006 12:07	8.81455	4.47809	0.854597	1543.16
8/21/2006 12:08	8.81455	4.47809	1.09877	1602.98
8/21/2006 12:08	8.81455	4.47809	0.610426	1591.99
8/21/2006 12:08	8.81455	4.47809	0.610426	1601.76
8/21/2006 12:08	8.81455	4.47809	0.854597	1516.3
8/21/2006 12:09	8.81455	4.47809	0.854597	1591.99
8/21/2006 12:09	8.81455	4.47809	0.732511	1595.65
8/21/2006 12:09	8.81455	4.47809	0.854597	1563.91
8/21/2006 12:09	8.81455	4.47809	1.09877	1550.48
8/21/2006 12:10	8.81455	4.47809	1.09877	1576.12
8/21/2006 12:10	8.81455	4.47809	0.854597	1684.78
8/21/2006 12:10	8.81455	4.47809	0.976682	1633.5
8/21/2006 12:10	8.81455	4.47809	0.610426	1617.63
8/21/2006 12:11	8.81455	4.47809	0.854597	1550.48
8/21/2006 12:11	8.81455	4.47809	1.09877	1562.69
8/21/2006 12:11	8.81455	4.5782	0.610426	1604.2
8/21/2006 12:11	8.81455	4.5782	0.854597	1581
8/21/2006 12:12	8.81455	4.5782	1.09877	1589.55
8/21/2006 12:12	8.81455	4.5782	1.09877	1587.11
8/21/2006 12:12	8.81455	4.5782	0.854597	1587.11
8/21/2006 12:12	8.71383	4.5782	0.488341	1488.22
8/21/2006 12:13	8.71383	4.5782	0.610426	1578.56
8/21/2006 12:13	8.71383	4.5782	0.854597	1537.05
8/21/2006 12:13	8.71383	4.5782	1.09877	1467.46
8/21/2006 12:13	8.71383	4.5782	0.976682	1593.21
8/21/2006 12:14	8.71383	4.5782	0.610426	1589.55
8/21/2006 12:14	8.71383	4.5782	0.854597	1620.07
8/21/2006 12:14	8.71383	4.5782	0.976682	1581
8/21/2006 12:14	8.71383	4.5782	0.732511	1567.57
8/21/2006 12:15	8.71383	4.5782	0.854597	1632.28
8/21/2006 12:15	8.71383	4.5782	1.09877	1648.15
8/21/2006 12:15	8.71383	4.5782	0.610426	1640.83
8/21/2006 12:15	8.61006	4.5782	0.976682	1599.32
8/21/2006 12:16	8.61006	4.5782	1.09877	1646.93
8/21/2006 12:16	8.71688	4.5782	0.854597	1620.07
8/21/2006 12:16	8.71688	4.5782	0.732511	1540.72
8/21/2006 12:16	8.71688	4.5782	1.22085	1600.54
8/21/2006 12:17	8.71688	4.5782	0.610426	1607.86
8/21/2006 12:17	8.71688	4.5782	0.732511	1573.68
8/21/2006 12:17	8.71688	4.5782	0.976682	1595.65
8/21/2006 12:17	8.71688	4.5782	0.610426	1635.94
8/21/2006 12:18	8.71688	4.5782	0.854597	1606.64
8/21/2006 12:18	8.71688	4.5782	1.09877	1588.33

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Run 3

8/21/2006 12:18	8.71688	4.5782	0.732511	1715.3
8/21/2006 12:18	8.71688	4.5782	1.09877	1633.5
8/21/2006 12:19	8.71688	4.5782	0.610426	1693.32
8/21/2006 12:19	8.71688	4.5782	0.854597	1545.6
8/21/2006 12:19	8.71688	4.5782	0.732511	1676.23
8/21/2006 12:19	8.71688	4.5782	1.09877	1667.68
8/21/2006 12:20	8.71688	4.5782	0.610426	1678.67
8/21/2006 12:20	8.71688	4.5782	0.976682	1628.62
8/21/2006 12:20	8.71688	4.5782	0.732511	1684.78
8/21/2006 12:20	8.71688	4.5782	0.854597	1501.65
8/21/2006 12:21	8.71688	4.5782	0.854597	1549.26
8/21/2006 12:21	8.71688	4.5782	0.732511	1650.59
8/21/2006 12:21	8.71688	4.5782	0.732511	1657.92
8/21/2006 12:21	8.71688	4.5782	0.854597	1653.03
8/21/2006 12:22	8.71688	4.5782	1.09877	1700.65
8/21/2006 12:22	8.71688	4.5782	0.732511	1595.65
8/21/2006 12:22	8.71688	4.5782	0.854597	1678.67
8/21/2006 12:22	8.71688	4.5782	1.09877	1677.45
8/21/2006 12:23	8.71688	4.5782	0.976682	1657.92
8/21/2006 12:23	8.71688	4.5782	1.09877	1613.97
8/21/2006 12:23	8.71688	4.5782	0.610426	1599.32
8/21/2006 12:23	8.71688	4.5782	0.976682	1540.72
8/21/2006 12:24	8.71688	4.5782	1.22085	1602.98
8/21/2006 12:24	8.71688	4.5782	0.976682	1688.44
8/21/2006 12:24	8.71688	4.5782	0.854597	1686
8/21/2006 12:24	8.71688	4.5782	0.732511	1638.38
8/21/2006 12:25	8.71688	4.5782	0.854597	1627.4
8/21/2006 12:25	8.71688	4.5782	1.22085	1624.95
8/21/2006 12:25	8.71688	4.5782	0.854597	1638.38
8/21/2006 12:25	8.71688	4.5782	0.732511	1594.43
8/21/2006 12:26	8.71688	4.5782	1.22085	1591.99
8/21/2006 12:26	8.71688	4.5782	0.610426	1596.87
8/21/2006 12:26	8.71688	4.5782	0.976682	1606.64
8/21/2006 12:26	8.71688	4.5782	0.732511	1637.16
8/21/2006 12:27	8.71688	4.5782	0.732511	1557.81
8/21/2006 12:27	8.71688	4.5782	1.09877	1615.19
8/21/2006 12:27	8.71688	4.5782	0.854597	1766.57
8/21/2006 12:27	8.71688	4.5782	0.732511	1675.01
8/21/2006 12:28	8.71688	4.5782	1.22085	1662.8
8/21/2006 12:28	8.71688	4.5782	1.09877	1659.14
8/21/2006 12:28	8.71688	4.5782	0.854597	1665.24
8/21/2006 12:28	8.71688	4.5782	0.610426	1577.34
8/21/2006 12:29	8.71688	4.5782	0.610426	1665.24
8/21/2006 12:29	8.71688	4.5782	0.732511	1659.14

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Run 3

8/21/2006 12:29	8.8176	4.5782	0.854597	1596.87
8/21/2006 12:29	8.8176	4.5782	1.09877	1566.35
8/21/2006 12:30	8.8176	4.5782	0.732511	1596.87
8/21/2006 12:30	8.8176	4.5782	0.610426	1591.99
8/21/2006 12:30	8.8176	4.5782	0.732511	1627.4
8/21/2006 12:30	8.8176	4.5782	0.732511	1517.52
8/21/2006 12:31	8.8176	4.5782	0.854597	1579.78
8/21/2006 12:31	8.8176	4.5782	1.09877	1748.26
8/21/2006 12:31	8.8176	4.5782	1.09877	1678.67
8/21/2006 12:31	8.8176	4.5782	0.610426	1687.22
8/21/2006 12:32	8.8176	4.5782	0.976682	1612.75
8/21/2006 12:32	8.8176	4.5782	0.976682	1639.6
8/21/2006 12:32	8.8176	4.5782	0.610426	1609.08
8/21/2006 12:32	8.8176	4.5782	0.976682	1599.32
8/21/2006 12:33	8.8176	4.5782	0.854597	1639.6
8/21/2006 12:33	8.71688	4.5782	0.610426	1623.73
8/21/2006 12:33	8.71688	4.5782	1.09877	1606.64
8/21/2006 12:33	8.71688	4.5782	0.854597	1659.14
8/21/2006 12:34	8.71688	4.5782	0.732511	1612.75
8/21/2006 12:34	8.8176	4.5782	1.09877	1627.4
8/21/2006 12:34	8.8176	4.5782	0.854597	1611.52
8/21/2006 12:34	8.8176	4.5782	0.976682	1620.07
8/21/2006 12:35	8.8176	4.5782	0.854597	1718.96
8/21/2006 12:35	8.8176	4.5782	0.854597	1662.8
8/21/2006 12:35	8.8176	4.5782	0.732511	1694.54
8/21/2006 12:35	8.8176	4.5782	0.976682	1654.25
8/21/2006 12:36	8.8176	4.5782	1.09877	1711.63
8/21/2006 12:36	8.8176	4.5782	1.22085	1611.52
8/21/2006 12:36	8.8176	4.5782	0.976682	1639.6
8/21/2006 12:36	8.8176	4.5782	1.09877	1710.41
8/21/2006 12:37	8.8176	4.5782	0.854597	1689.66
8/21/2006 12:37	8.8176	4.5782	1.34294	1668.9
8/21/2006 12:37	8.8176	4.5782	0.732511	1707.97
8/21/2006 12:37	8.8176	4.5782	1.09877	1690.88
8/21/2006 12:38	8.8176	4.5782	0.732511	1656.7
8/21/2006 12:38	8.8176	4.5782	0.854597	1656.7
8/21/2006 12:38	8.8176	4.67831	0.976682	1687.22
8/21/2006 12:38	8.8176	4.67831	0.854597	1911.85
8/21/2006 12:39	8.8176	4.67831	1.09877	1739.71
8/21/2006 12:39	8.8176	4.67831	0.732511	1737.27
8/21/2006 12:39	8.8176	4.67831	0.976682	1694.54
8/21/2006 12:39	8.8176	4.67831	1.09877	1714.08
8/21/2006 12:40	8.8176	4.67831	0.854597	1664.02
8/21/2006 12:40	8.8176	4.67831	0.732511	1740.94

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Run 3

8/21/2006 12:40	8.8176	4.67831	0.976682	1705.53
8/21/2006 12:40	8.8176	4.67831	1.09877	1728.73
8/21/2006 12:41	8.8176	4.67831	0.610426	1740.94
8/21/2006 12:41	8.8176	4.67831	0.976682	1715.3
8/21/2006 12:41	8.8176	4.67831	0.732511	1784.89
8/21/2006 12:41	8.8176	4.67831	1.09877	1754.36
8/21/2006 12:42	8.8176	4.67831	0.610426	1778.78
8/21/2006 12:42	8.8176	4.67831	1.09877	1734.83
8/21/2006 12:42	8.8176	4.67831	0.854597	1786.11
8/21/2006 12:42	8.8176	4.67831	1.22085	1765.35
8/21/2006 12:43	8.91832	4.67831	0.732511	1585.89
8/21/2006 12:43	8.91832	4.67831	1.22085	1723.84
8/21/2006 12:43	8.91832	4.67831	0.976682	1780
8/21/2006 12:43	8.91832	4.67831	1.09877	1821.51
8/21/2006 12:44	8.91832	4.67831	0.610426	1788.55
8/21/2006 12:44	8.91832	4.67831	1.09877	1812.97
8/21/2006 12:44	8.91832	4.67831	0.732511	1712.86
8/21/2006 12:44	8.91832	4.67831	1.09877	1675.01
8/21/2006 12:45	8.91832	4.67831	0.732511	1700.65
8/21/2006 12:45	8.91832	4.67831	0.976682	1720.18
8/21/2006 12:45	8.91832	4.67831	0.732511	1751.92
8/21/2006 12:45	8.91832	4.67831	0.854597	1743.38
8/21/2006 12:46	8.91832	4.67831	0.976682	1727.51
8/21/2006 12:46	8.91832	4.67831	0.610426	1690.88
8/21/2006 12:46	8.91832	4.67831	0.976682	1766.57
8/21/2006 12:46	8.91832	4.67831	0.976682	1869.12
8/21/2006 12:47	8.91832	4.67831	0.976682	1810.52
8/21/2006 12:47	9.01905	4.67831	0.732511	1798.32
8/21/2006 12:47	9.01905	4.67831	1.09877	1809.3
8/21/2006 12:47	9.01905	4.67831	0.732511	1789.77
8/21/2006 12:48	9.01905	4.67831	0.854597	1799.54
8/21/2006 12:48	9.01905	4.67831	1.34294	1756.81
8/21/2006 12:48	9.01905	4.67831	0.610426	1795.87
8/21/2006 12:48	9.01905	4.67831	1.22085	1776.34
8/21/2006 12:49	9.01905	4.67831	0.610426	1826.39
8/21/2006 12:49	9.01905	4.67831	0.854597	1826.39
8/21/2006 12:49	9.01905	4.67831	0.976682	1838.6
8/21/2006 12:49	9.01905	4.67831	1.09877	1760.47
8/21/2006 12:50	9.01905	4.67831	0.854597	1801.98
8/21/2006 12:50	9.01905	4.67831	0.854597	1871.57
8/21/2006 12:50	9.01905	4.67831	0.854597	1864.24
8/21/2006 12:50	9.01905	4.67831	0.854597	1854.47
8/21/2006 12:51	9.01905	4.67831	0.610426	1888.66
8/21/2006 12:51	9.01905	4.67831	0.976682	1895.98

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8/21/2006 12:51	9.01905	4.67831	0.732511	1888.66
8/21/2006 12:51	9.11977	4.67831	0.854597	1902.09
8/21/2006 12:52	9.11977	4.67831	0.732511	1902.09
8/21/2006 12:52	9.11977	4.67831	0.976682	1894.76
8/21/2006 12:52	9.11977	4.67831	0.854597	1870.35
8/21/2006 12:52	9.11977	4.67831	0.732511	1898.43
8/21/2006 12:53	9.11977	4.67831	0.976682	1854.47
8/21/2006 12:53	9.11977	4.67831	0.732511	1888.66
8/21/2006 12:53	9.11977	4.67831	0.854597	1943.6
8/21/2006 12:53	9.11977	4.67831	0.976682	1970.46
8/21/2006 12:54	9.11977	4.67831	1.09877	1966.79
8/21/2006 12:54	9.11977	4.67831	1.22085	1991.21
8/21/2006 12:54	9.11977	4.67831	0.854597	1958.25
8/21/2006 12:54	9.11977	4.67831	0.732511	1939.93
8/21/2006 12:55	9.11977	4.67831	0.976682	1920.4
8/21/2006 12:55	9.11977	4.67831	1.09877	1927.73
8/21/2006 12:55	9.11977	4.67831	0.610426	1963.13
8/21/2006 12:55	9.11977	4.67831	0.610426	1914.3
8/21/2006 12:56	9.11977	4.67831	0.976682	1931.39
8/21/2006 12:56	9.22049	4.67831	0.610426	1905.75
8/21/2006 12:56	9.22049	4.67831	0.854597	1938.71
8/21/2006 12:56	9.22049	4.67831	0.854597	1941.15
8/21/2006 12:57	9.22049	4.67831	0.854597	1905.75
8/21/2006 12:57	9.22049	4.67831	0.854597	1942.38
8/21/2006 12:57	9.22049	4.5782	0.976682	1994.87
8/21/2006 12:57	9.22049	4.5782	1.09877	1917.96
8/21/2006 12:58	9.22049	4.5782	0.610426	1900.87
8/21/2006 12:58	9.22049	4.5782	1.22085	1921.62
8/21/2006 12:58	9.22049	4.5782	0.732511	1893.54
8/21/2006 12:58	9.22049	4.5782	1.09877	1966.79
8/21/2006 12:59	9.22049	4.5782	0.732511	1899.65
8/21/2006 12:59	9.22049	4.5782	1.09877	1960.69
8/21/2006 12:59	9.22049	4.5782	1.09877	1830.06
8/21/2006 12:59	9.22049	4.5782	0.976682	1869.12
8/21/2006 13:00	9.22049	4.5782	0.854597	1858.14
8/21/2006 13:00	9.22049	4.5782	0.854597	1863.02
8/21/2006 13:00	9.22049	4.5782	0.732511	1841.05
8/21/2006 13:00	9.22049	4.5782	0.732511	1883.77
8/21/2006 13:01	9.22049	4.5782	0.854597	1875.23
8/21/2006 13:01	9.22049	4.5782	0.976682	1808.08
8/21/2006 13:01	9.33036	4.5782	1.09877	2003.42
8/21/2006 13:01	9.33036	4.5782	0.732511	1943.6
8/21/2006 13:02	9.33036	4.5782	0.732511	1903.31
8/21/2006 13:02	9.33036	4.5782	1.09877	1926.5

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Run 3

8/21/2006 13:02	9.33036	4.5782	1.22085	1843.49
8/21/2006 13:02	9.33036	4.5782	1.09877	1983.88
8/21/2006 13:03	9.33036	4.5782	0.976682	1960.69
8/21/2006 13:03	9.33036	4.5782	1.22085	2005.86
8/21/2006 13:03	9.33036	4.5782	0.976682	1996.09
8/21/2006 13:03	9.33036	4.5782	1.09877	2010.74
8/21/2006 13:04	9.33036	4.5782	0.854597	1949.7
8/21/2006 13:04	9.33036	4.5782	0.610426	1946.04
8/21/2006 13:04	9.33036	4.5782	0.732511	1969.23
8/21/2006 13:04	9.33036	4.5782	0.854597	1971.68
8/21/2006 13:05	9.33036	4.5782	1.22085	2000.98
8/21/2006 13:05	9.33036	4.5782	0.976682	2044.93
8/21/2006 13:05	9.33036	4.5782	0.610426	2069.34
8/21/2006 13:05	9.33036	4.5782	1.09877	2049.81
8/21/2006 13:06	9.33036	4.5782	0.976682	2093.76
8/21/2006 13:06	9.33036	4.5782	0.732511	2063.24
8/21/2006 13:06	9.33036	4.5782	0.610426	2029.06
8/21/2006 13:06	9.33036	4.5782	0.854597	1957.03
8/21/2006 13:07	9.33036	4.5782	0.976682	2025.39
8/21/2006 13:07	9.43719	4.5782	0.854597	2066.9
8/21/2006 13:07	9.43719	4.5782	0.854597	2071.79
8/21/2006 13:07	9.43719	4.5782	0.976682	2132.83
8/21/2006 13:08	9.43719	4.5782	0.732511	2033.94
8/21/2006 13:08	9.43719	4.5782	0.976682	2181.66
8/21/2006 13:08	9.43719	4.5782	0.976682	2092.54
8/21/2006 13:08	9.43719	4.5782	0.610426	2066.9
8/21/2006 13:09	9.43719	4.5782	1.22085	2058.36
8/21/2006 13:09	9.43719	4.5782	0.610426	2085.22
8/21/2006 13:09	9.43719	4.5782	1.09877	2035.16
8/21/2006 13:09	9.43719	4.5782	0.854597	2087.66
8/21/2006 13:10	9.43719	4.5782	0.976682	2113.3
8/21/2006 13:10	9.43719	4.5782	0.854597	2118.18
8/21/2006 13:10	9.43719	4.5782	0.976682	2092.54
8/21/2006 13:10	9.43719	4.5782	0.610426	2126.72
8/21/2006 13:11	9.43719	4.5782	1.22085	2127.95
8/21/2006 13:11	9.43719	4.5782	0.854597	2116.96
8/21/2006 13:11	9.43719	4.5782	0.854597	2116.96
8/21/2006 13:11	9.43719	4.5782	0.732511	2093.76
8/21/2006 13:12	9.43719	4.5782	0.732511	2127.95
8/21/2006 13:12	9.43719	4.5782	1.09877	2016.85
8/21/2006 13:12	9.43719	4.5782	0.854597	2020.51
8/21/2006 13:12	9.43719	4.5782	0.732511	2093.76
8/21/2006 13:13	9.43719	4.5782	1.09877	2071.79
8/21/2006 13:13	9.43719	4.5782	0.732511	2054.69

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Run 3

8/21/2006 13:13	9.43719	4.5782	1.22085	2035.16
8/21/2006 13:13	9.43719	4.5782	1.09877	2099.87
8/21/2006 13:14	9.43719	4.5782	0.976682	2075.45
8/21/2006 13:14	9.43719	4.5782	1.22085	2043.71
8/21/2006 13:14	9.43719	4.5782	1.58711	2085.22
8/21/2006 13:14	9.54096	4.5782	1.09877	2054.69
8/21/2006 13:15	9.54096	4.5782	0.976682	2164.57
8/21/2006 13:15	9.54096	4.5782	1.09877	2210.96
8/21/2006 13:15	9.54096	4.5782	1.22085	2186.55
8/21/2006 13:15	9.54096	4.5782	0.732511	2096.2
8/21/2006 13:16	9.54096	4.5782	0.854597	2158.47
8/21/2006 13:16	9.54096	4.5782	1.09877	2080.33
8/21/2006 13:16	9.54096	4.5782	0.610426	2103.53
8/21/2006 13:16	9.54096	4.5782	1.09877	2149.92
8/21/2006 13:17	9.54096	4.5782	0.976682	2074.23
8/21/2006 13:17	9.54096	4.5782	0.732511	2077.89
8/21/2006 13:17	9.54096	4.5782	1.09877	2154.8
8/21/2006 13:17	9.54096	4.5782	0.732511	2174.34
8/21/2006 13:18	9.54096	4.5782	1.09877	2147.48
8/21/2006 13:18	9.54096	4.5782	0.732511	2141.37
8/21/2006 13:18	9.54096	4.5782	0.976682	2199.98
8/21/2006 13:18	9.64473	4.5782	0.976682	2119.4
8/21/2006 13:19	9.64473	4.5782	0.610426	2164.57
8/21/2006 13:19	9.64473	4.5782	0.854597	2158.47
8/21/2006 13:19	9.64473	4.5782	1.22085	2140.15
8/21/2006 13:19	9.64473	4.5782	0.854597	2069.34
8/21/2006 13:20	9.64473	4.5782	0.854597	2082.77
8/21/2006 13:20	9.64473	4.5782	1.09877	2119.4
8/21/2006 13:20	9.64473	4.5782	0.610426	2209.74
8/21/2006 13:20	9.64473	4.5782	1.09877	2159.69
8/21/2006 13:21	9.7485	4.5782	0.610426	2261.02
8/21/2006 13:21	9.7485	4.5782	0.976682	2217.07
8/21/2006 13:21	9.7485	4.5782	0.854597	2175.56
8/21/2006 13:21	9.7485	4.5782	0.732511	2276.89
8/21/2006 13:22	9.7485	4.5782	1.22085	2263.46
8/21/2006 13:22	9.7485	4.5782	0.610426	2290.32
8/21/2006 13:22	9.7485	4.5782	0.976682	2224.39
8/21/2006 13:22	9.7485	4.5782	0.610426	2363.57
8/21/2006 13:23	9.7485	4.5782	0.976682	2267.12
8/21/2006 13:23	9.7485	4.5782	0.854597	2285.44
8/21/2006 13:23	9.7485	4.5782	0.732511	2330.61
8/21/2006 13:23	9.85228	4.5782	0.854597	2273.23
8/21/2006 13:24	9.85228	4.5782	0.854597	2256.13
8/21/2006 13:24	9.85228	4.5782	0.976682	2335.49

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Run 3

8/21/2006 13:24	9.85228	4.5782	0.732511	2281.77
8/21/2006 13:24	9.85228	4.5782	0.732511	2208.52
8/21/2006 13:25	9.85228	4.5782	1.09877	2460.02
8/21/2006 13:25	9.85228	4.5782	0.976682	2300.09
8/21/2006 13:25	9.85228	4.5782	0.854597	2160.91
8/21/2006 13:25	9.85228	4.5782	0.854597	2246.37
8/21/2006 13:26	9.85228	4.5782	0.732511	2304.97
8/21/2006 13:26	9.85228	4.5782	0.610426	2240.26
8/21/2006 13:26	9.85228	4.5782	0.610426	2304.97
8/21/2006 13:26	9.85228	4.5782	0.610426	2290.32
8/21/2006 13:27	9.85228	4.5782	0.854597	2237.82
8/21/2006 13:27	9.953	4.5782	1.09877	2300.09
8/21/2006 13:27	9.953	4.5782	0.854597	2170.68
8/21/2006 13:27	9.953	4.5782	0.854597	2202.42
8/21/2006 13:28	9.953	4.5782	0.610426	2252.47
8/21/2006 13:28	9.953	4.5782	0.976682	2250.03
8/21/2006 13:28	9.953	4.5782	0.976682	2219.51
8/21/2006 13:28	9.953	4.5782	0.976682	2214.63
8/21/2006 13:29	9.953	4.5782	0.732511	2309.85
8/21/2006 13:29	9.953	4.5782	0.976682	2306.19
8/21/2006 13:29	9.953	4.5782	0.610426	2503.97
8/21/2006 13:29	9.953	4.5782	1.22085	2358.69
8/21/2006 13:30	9.953	4.5782	0.854597	2363.57
8/21/2006 13:30	9.953	4.5782	0.732511	2318.4
8/21/2006 13:30	9.953	4.5782	0.854597	2356.24
8/21/2006 13:30	9.85228	4.68807	0.854597	2324.5
8/21/2006 13:31	9.74545	4.68807	0.732511	2379.44
8/21/2006 13:31	9.74545	4.68807	0.854597	2331.83
8/21/2006 13:31	9.74545	4.68807	1.09877	2364.79
8/21/2006 13:31	9.74545	4.68807	1.22085	2320.84
8/21/2006 13:32	9.84617	4.58796	0.732511	2379.44
8/21/2006 13:32	9.84617	4.58796	0.976682	2350.14
8/21/2006 13:32	9.84617	4.58796	0.732511	2385.55
8/21/2006 13:32	9.84617	4.58796	0.976682	2407.52
8/21/2006 13:33	9.84617	4.58796	0.610426	2320.84
8/21/2006 13:33	9.84617	4.48785	1.22085	2409.96
8/21/2006 13:33	9.84617	4.48785	0.854597	2427.05
8/21/2006 13:33	9.94689	4.48785	1.22085	2447.81
8/21/2006 13:34	9.94689	4.48785	0.610426	2453.91
8/21/2006 13:34	9.94689	4.48785	0.976682	2572.34
8/21/2006 13:34	9.94689	4.48785	0.976682	2522.28
8/21/2006 13:34	9.94689	4.48785	0.732511	2562.57
8/21/2006 13:35	9.94689	4.48785	1.22085	2585.76
8/21/2006 13:35	9.94689	4.48785	0.976682	2688.32

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Run 3

8/21/2006 13:35	9.94689	4.48785	0.854597	2689.54
8/21/2006 13:35	9.94689	4.48785	1.09877	2687.1
8/21/2006 13:36	9.94689	4.48785	0.732511	2727.38
8/21/2006 13:36	9.94689	4.48785	0.732511	2656.57
8/21/2006 13:36	9.94689	4.48785	1.09877	2733.49
8/21/2006 13:36	9.94689	4.48785	1.34294	2887.32
8/21/2006 13:37	9.94689	4.48785	1.34294	2850.69
8/21/2006 13:37	9.94689	4.48785	1.46502	2777.44
8/21/2006 13:37	9.94689	4.48785	1.22085	2783.54
8/21/2006 13:37	9.94689	4.48785	0.976682	2740.81
8/21/2006 13:38	9.94689	4.48785	0.732511	2788.43
8/21/2006 13:38	9.94689	4.48785	1.09877	2765.23
8/21/2006 13:38	10.0537	4.48785	0.976682	2696.86
8/21/2006 13:38	10.0537	4.48785	0.976682	2746.92
8/21/2006 13:39	10.0537	4.48785	0.976682	2750.58
8/21/2006 13:39	10.0537	4.48785	0.854597	2760.35
8/21/2006 13:39	10.0537	4.48785	1.09877	2733.49
8/21/2006 13:39	10.0537	4.48785	1.09877	2897.08
8/21/2006 13:40	10.0537	4.48785	0.732511	2843.36
8/21/2006 13:40	10.0537	4.48785	0.976682	2836.04
8/21/2006 13:40	10.0537	4.48785	1.09877	2840.92
8/21/2006 13:40	10.1544	4.48785	0.732511	2767.67
8/21/2006 13:41	10.1544	4.48785	1.09877	2782.32
8/21/2006 13:41	10.1544	4.48785	0.854597	2770.11
8/21/2006 13:41	10.1544	4.48785	0.976682	2750.58
8/21/2006 13:41	10.1544	4.48785	0.732511	2806.74
8/21/2006 13:42	10.1544	4.48785	0.976682	2925.16
8/21/2006 13:42	10.1544	4.48785	0.976682	2798.19
8/21/2006 13:42	10.1544	4.48785	0.976682	2724.94
8/21/2006 13:42	10.1544	4.48785	1.09877	2787.21
8/21/2006 13:43	10.1544	4.48785	0.732511	2920.28
8/21/2006 13:43	10.1544	4.48785	0.976682	2865.34
8/21/2006 13:43	10.1544	4.48785	1.09877	2798.19
8/21/2006 13:43	10.1544	4.48785	0.732511	2773.78
8/21/2006 13:44	10.1544	4.48785	0.610426	2750.58
8/21/2006 13:44	10.1544	4.48785	1.22085	2718.84
8/21/2006 13:44	10.1544	4.48785	0.854597	2718.84
8/21/2006 13:44	10.1544	4.48785	0.732511	2740.81
8/21/2006 13:45	10.1544	4.48785	0.854597	2781.1
8/21/2006 13:45	10.1544	4.48785	1.09877	2695.64
8/21/2006 13:45	10.1544	4.48785	0.732511	2649.25
8/21/2006 13:45	10.1544	4.48785	0.732511	2707.85
8/21/2006 13:46	10.1544	4.48785	0.976682	2768.89
8/21/2006 13:46	10.1544	4.48785	1.09877	2663.9

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Run 3

8/21/2006 13:46	10.1544	4.48785	0.610426	2713.95
8/21/2006 13:46	10.1544	4.48785	1.22085	2670
8/21/2006 13:47	10.2552	4.48785	0.976682	2677.33
8/21/2006 13:47	10.2552	4.48785	0.732511	2722.5
8/21/2006 13:47	10.2552	4.48785	0.732511	2727.38
8/21/2006 13:47	10.2552	4.48785	1.09877	2811.62
8/21/2006 13:48	10.2552	4.48785	1.09877	2849.47
8/21/2006 13:48	10.2552	4.48785	0.976682	2843.36
8/21/2006 13:48	10.2552	4.48785	0.732511	2765.23
8/21/2006 13:48	10.2552	4.48785	1.09877	2784.76
8/21/2006 13:49	10.2552	4.48785	1.09877	2751.8
8/21/2006 13:49	10.1544	4.48785	1.22085	2750.58
8/21/2006 13:49	10.1544	4.48785	0.854597	2671.22
8/21/2006 13:49	10.1544	4.48785	0.854597	2622.39
8/21/2006 13:50	10.2552	4.48785	0.976682	2684.65
8/21/2006 13:50	10.2552	4.48785	0.610426	2691.98
8/21/2006 13:50	10.2552	4.48785	0.976682	2718.84
8/21/2006 13:50	10.2552	4.48785	0.976682	2773.78
8/21/2006 13:51	10.3559	4.48785	0.610426	2751.8
8/21/2006 13:51	10.3559	4.48785	0.854597	2715.18
8/21/2006 13:51	10.3559	4.48785	1.22085	2696.86
8/21/2006 13:51	10.3559	4.48785	0.976682	2699.3
8/21/2006 13:52	10.3559	4.48785	0.732511	2695.64
8/21/2006 13:52	10.3559	4.48785	0.976682	2768.89
8/21/2006 13:52	10.3559	4.48785	0.976682	2733.49
8/21/2006 13:52	10.3559	4.48785	0.610426	2749.36
8/21/2006 13:53	10.3559	4.48785	0.854597	2655.35
8/21/2006 13:53	10.3559	4.48785	1.09877	2634.6
8/21/2006 13:53	10.3559	4.48785	0.610426	2690.76
8/21/2006 13:53	10.3559	4.48785	0.976682	2679.77
8/21/2006 13:54	10.3559	4.48785	1.22085	2652.91
8/21/2006 13:54	10.3559	4.48785	1.09877	2538.15
8/21/2006 13:54	10.3559	4.48785	0.854597	2698.08
8/21/2006 13:54	10.3559	4.48785	0.854597	2595.53
8/21/2006 13:55	10.3559	4.48785	1.09877	2595.53
8/21/2006 13:55	10.3559	4.48785	0.732511	2656.57
8/21/2006 13:55	10.3559	4.48785	1.09877	2803.08
8/21/2006 13:55	10.3559	4.48785	0.854597	2626.05
8/21/2006 13:56	10.3559	4.48785	0.976682	2710.29
8/21/2006 13:56	10.3559	4.48785	0.976682	2633.38
8/21/2006 13:56	10.3559	4.48785	0.732511	2585.76
8/21/2006 13:56	10.3559	4.48785	1.22085	2661.46
8/21/2006 13:57	10.3559	4.48785	1.09877	2605.3
8/21/2006 13:57	10.3559	4.48785	0.854597	2541.81

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Run 3

8/21/2006 13:57	10.4597	4.48785	0.732511	2576
8/21/2006 13:57	10.4597	4.48785	0.854597	2571.11
8/21/2006 13:58	10.4597	4.48785	0.854597	2595.53
8/21/2006 13:58	10.4597	4.48785	0.854597	2578.44
8/21/2006 13:58	10.4597	4.48785	0.854597	2571.11
8/21/2006 13:58	10.4597	4.48785	0.976682	2010.74
8/21/2006 13:59	10.4597	4.48785	1.09877	2606.52
8/21/2006 13:59	10.4597	4.48785	1.09877	2624.83
8/21/2006 13:59	10.4597	4.48785	1.09877	2608.96
8/21/2006 13:59	10.4597	4.48785	0.976682	2690.76
8/21/2006 14:00	10.4597	4.48785	1.09877	2676.11
8/21/2006 14:00	10.4597	4.48785	1.09877	2594.31
8/21/2006 14:00	10.4597	4.48785	1.09877	2619.95
8/21/2006 14:00	10.4597	4.48785	1.22085	2571.11
8/21/2006 14:01	10.4597	4.48785	0.976682	2589.43
8/21/2006 14:01	10.4597	4.48785	0.732511	2572.34
8/21/2006 14:01	10.4597	4.48785	0.732511	2539.37
8/21/2006 14:01	10.5604	4.48785	0.976682	2606.52
8/21/2006 14:02	10.5604	4.48785	1.09877	2550.36
8/21/2006 14:02	10.5604	4.48785	0.732511	2595.53
8/21/2006 14:02	10.5604	4.48785	0.732511	2593.09
8/21/2006 14:02	10.5604	4.48785	0.976682	2712.73
8/21/2006 14:03	10.5604	4.48785	1.22085	2698.08
8/21/2006 14:03	10.5604	4.48785	0.976682	2641.92
8/21/2006 14:03	10.5604	4.48785	1.09877	2706.63
8/21/2006 14:03	10.5604	4.48785	0.976682	2670
8/21/2006 14:04	10.5604	4.48785	0.854597	2671.22
8/21/2006 14:04	10.5604	4.48785	0.732511	2679.77
8/21/2006 14:04	10.5604	4.48785	0.854597	2549.14
8/21/2006 14:04	10.5604	4.48785	0.976682	2815.29
8/21/2006 14:05	10.5604	4.48785	0.854597	2739.59
8/21/2006 14:05	10.5604	4.48785	0.610426	2687.1
8/21/2006 14:05	10.5604	4.48785	0.732511	2608.96
8/21/2006 14:05	10.6611	4.48785	0.854597	2654.13
8/21/2006 14:06	10.6611	4.48785	1.09877	2624.83
8/21/2006 14:06	10.6611	4.48785	1.09877	2596.75
8/21/2006 14:06	10.6611	4.48785	0.610426	2579.66
8/21/2006 14:06	10.6611	4.48785	0.976682	2803.08
8/21/2006 14:07	10.6611	4.48785	1.09877	2696.86
8/21/2006 14:07	10.6611	4.48785	0.732511	2704.19
8/21/2006 14:07	10.6611	4.48785	1.09877	2633.38
8/21/2006 14:07	10.6611	4.48785	0.732511	2627.27
8/21/2006 14:08	10.6611	4.48785	0.732511	2594.31
8/21/2006 14:08	10.6611	4.48785	0.976682	2563.79

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Run 3

8/21/2006 14:08	10.6611	4.48785	1.09877	2617.51
8/21/2006 14:08	10.6611	4.48785	0.854597	2274.45
8/21/2006 14:09	10.6611	4.48785	0.976682	2604.08
8/21/2006 14:09	10.6611	4.48785	0.976682	2549.14
8/21/2006 14:09	10.6611	4.48785	0.854597	2644.37
8/21/2006 14:09	10.7618	4.48785	0.732511	2610.18
8/21/2006 14:10	10.7618	4.48785	0.732511	2579.66
8/21/2006 14:10	10.7618	4.48785	1.22085	2639.48
8/21/2006 14:10	10.7618	4.48785	0.732511	2621.17
8/21/2006 14:10	10.7618	4.38774	1.09877	2580.88
8/21/2006 14:11	10.7618	4.38774	0.732511	2463.68
8/21/2006 14:11	10.7618	4.38774	1.09877	2580.88
8/21/2006 14:11	10.7618	4.38774	0.732511	2677.33
8/21/2006 14:11	10.7618	4.38774	0.732511	2597.97
8/21/2006 14:12	10.7618	4.38774	1.09877	2612.62
8/21/2006 14:12	10.7618	4.38774	0.976682	2640.7
8/21/2006 14:12	10.7618	4.38774	0.732511	2591.87
8/21/2006 14:12	10.7618	4.38774	0.976682	2595.53
8/21/2006 14:13	10.7618	4.38774	0.732511	2613.84
8/21/2006 14:13	10.7618	4.38774	1.22085	2723.72
8/21/2006 14:13	10.7618	4.38774	0.732511	2693.2
8/21/2006 14:13	10.7618	4.38774	0.976682	2626.05
8/21/2006 14:14	10.8656	4.38774	0.854597	2656.57
8/21/2006 14:14	10.8656	4.38774	0.732511	2551.58
8/21/2006 14:14	10.8656	4.38774	0.976682	2496.64
8/21/2006 14:14	10.8656	4.38774	1.22085	2546.7
8/21/2006 14:15	10.8656	4.38774	0.976682	2610.18
8/21/2006 14:15	10.8656	4.38774	0.732511	2528.38
8/21/2006 14:15	10.8656	4.38774	1.22085	2977.66
8/21/2006 14:15	10.8656	4.38774	0.610426	2776.22
8/21/2006 14:16	10.8656	4.38774	1.22085	2745.7
8/21/2006 14:16	10.8656	4.38774	0.732511	2633.38
8/21/2006 14:16	10.8656	4.38774	0.854597	2576
8/21/2006 14:16	10.8656	4.38774	0.976682	2654.13
8/21/2006 14:17	10.8656	4.38774	1.22085	2557.69
8/21/2006 14:17	10.8656	4.38774	0.854597	2649.25
8/21/2006 14:17	10.8656	4.38774	0.732511	2554.02
8/21/2006 14:17	10.8656	4.38774	1.22085	2660.24
8/21/2006 14:18	10.9663	4.38774	0.610426	2644.37
8/21/2006 14:18	10.9663	4.38774	0.976682	2685.87
8/21/2006 14:18	10.9663	4.38774	1.22085	2662.68
8/21/2006 14:18	10.9663	4.38774	0.732511	2646.81
8/21/2006 14:19	10.9663	4.38774	0.976682	2659.02
8/21/2006 14:19	10.9663	4.38774	0.854597	2613.84

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Run 3

8/21/2006 14:19	10.9663	4.38774	1.22085	2639.48
8/21/2006 14:19	10.9663	4.38774	0.732511	2562.57
8/21/2006 14:20	10.9663	4.38774	0.854597	2618.73
8/21/2006 14:20	10.9663	4.38774	0.610426	2554.02
8/21/2006 14:20	10.9663	4.38774	0.976682	2639.48
8/21/2006 14:20	10.9663	4.38774	1.22085	2612.62
8/21/2006 14:21	10.9663	4.38774	0.732511	2734.71
8/21/2006 14:21	10.9663	4.38774	0.854597	2624.83
8/21/2006 14:21	10.9663	4.38774	0.976682	2601.64
8/21/2006 14:21	10.9663	4.38774	0.976682	2567.45
8/21/2006 14:22	10.9663	4.38774	0.976682	2601.64
8/21/2006 14:22	10.9663	4.38774	0.854597	2596.75
8/21/2006 14:22	11.067	4.38774	0.854597	2552.8
8/21/2006 14:22	11.067	4.38774	1.09877	2567.45
8/21/2006 14:23	11.067	4.38774	0.976682	2550.36
8/21/2006 14:23	11.067	4.38774	0.732511	2506.41
8/21/2006 14:23	11.067	4.38774	1.09877	2770.11
8/21/2006 14:23	11.067	4.38774	0.610426	2740.81
8/21/2006 14:24	11.067	4.38774	0.976682	2670
8/21/2006 14:24	11.067	4.38774	0.732511	2618.73
8/21/2006 14:24	11.067	4.38774	0.976682	2689.54
8/21/2006 14:24	11.067	4.38774	0.976682	2593.09
8/21/2006 14:25	11.067	4.38774	1.22085	2649.25
8/21/2006 14:25	11.067	4.38774	0.732511	2519.84
8/21/2006 14:25	11.067	4.38774	0.854597	2597.97
8/21/2006 14:25	11.067	4.38774	1.09877	2586.99
8/21/2006 14:26	11.067	4.38774	0.854597	2472.23
8/21/2006 14:26	11.067	4.38774	0.976682	2539.37
8/21/2006 14:26	11.067	4.38774	1.09877	2505.19
8/21/2006 14:26	11.067	4.38774	0.610426	2523.5
8/21/2006 14:27	11.067	4.38774	0.732511	2483.21
8/21/2006 14:27	11.067	4.38774	0.854597	2488.1
8/21/2006 14:27	11.067	4.38774	0.854597	2538.15
8/21/2006 14:27	11.067	4.38774	0.854597	2522.28
8/21/2006 14:28	11.1708	4.38774	0.854597	2543.04
8/21/2006 14:28	11.1708	4.38774	0.854597	2400.2
8/21/2006 14:28	11.1708	4.38774	0.854597	2499.08
8/21/2006 14:28	11.1708	4.38774	0.976682	2546.7
8/21/2006 14:29	11.1708	4.38774	1.22085	2599.19
8/21/2006 14:29	11.1708	4.38774	1.09877	2579.66
8/21/2006 14:29	11.1708	4.38774	0.976682	2529.61
8/21/2006 14:29	11.1708	4.38774	0.854597	2540.59
8/21/2006 14:30	11.1708	4.38774	0.610426	2433.16
8/21/2006 14:30	11.1708	4.38774	0.976682	2573.56

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Run 3

8/21/2006 14:30	11.1708	4.38774	1.22085	2521.06
8/21/2006 14:30	11.1708	4.38774	0.976682	2500.31
8/21/2006 14:31	11.1708	4.38774	0.732511	2514.96
8/21/2006 14:31	11.1708	4.38774	1.22085	2491.76
8/21/2006 14:31	11.1708	4.38774	1.09877	2574.78
8/21/2006 14:31	11.1708	4.38774	0.854597	2552.8
8/21/2006 14:32	11.1708	4.38774	0.732511	2704.19
8/21/2006 14:32	11.1708	4.38774	1.22085	2601.64
8/21/2006 14:32	11.1708	4.38774	0.976682	2576
8/21/2006 14:32	11.1708	4.38774	0.610426	2568.67
8/21/2006 14:33	11.1708	4.38774	0.732511	2602.86
8/21/2006 14:33	11.1708	4.38774	1.09877	2480.77
8/21/2006 14:33	11.1708	4.38774	0.732511	2750.58
8/21/2006 14:33	11.1708	4.38774	0.732511	2732.27
8/21/2006 14:34	11.1708	4.38774	1.22085	2663.9
8/21/2006 14:34	11.1708	4.38774	0.610426	2611.4
8/21/2006 14:34	11.1708	4.38774	1.22085	2492.98
8/21/2006 14:34	11.1708	4.38774	0.732511	2595.53
8/21/2006 14:35	11.1708	4.38774	1.22085	2588.21
8/21/2006 14:35	11.1708	4.38774	0.854597	2571.11
8/21/2006 14:35	11.1708	4.38774	0.610426	2569.89
8/21/2006 14:35	11.1708	4.38774	0.854597	2536.93
8/21/2006 14:36	11.1708	4.38774	0.976682	2533.27
8/21/2006 14:36	11.1708	4.38774	0.854597	2873.89
8/21/2006 14:36	11.2776	4.38774	1.09877	2684.65
8/21/2006 14:36	11.2776	4.38774	0.732511	2499.08
8/21/2006 14:37	11.2776	4.38774	0.854597	2604.08
8/21/2006 14:37	11.2776	4.38774	0.732511	2505.19
8/21/2006 14:37	11.2776	4.38774	0.976682	2499.08
8/21/2006 14:37	11.2776	4.38774	0.854597	2463.68
8/21/2006 14:38	11.2776	4.38774	0.854597	2557.69
8/21/2006 14:38	11.2776	4.86143	1.09877	2456.35
8/21/2006 14:38	11.6042	4.86143	0.732511	2472.23
8/21/2006 14:38	12.0864	4.754	1.09877	2264.68
8/21/2006 14:39	12.5382	4.65389	0.610426	2445.37
8/21/2006 14:39	12.7579	4.55378	0.732511	2369.67
8/21/2006 14:39	12.8617	4.45367	0.976682	2481.99
8/21/2006 14:39	12.9624	4.45367	0.854597	2435.6
8/21/2006 14:40	13.0631	4.45367	0.732511	2390.43
8/21/2006 14:40	13.0631	4.45367	1.09877	2400.2
8/21/2006 14:40	13.0631	4.45367	0.976682	2457.58
8/21/2006 14:40	13.1638	4.45367	0.854597	2434.38
8/21/2006 14:41	13.1638	4.45367	0.732511	2439.26
8/21/2006 14:41	13.1638	4.45367	0.732511	2401.42

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Run 3

8/21/2006 14:41	13.1638	4.45367	0.976682	2369.67
8/21/2006 14:41	13.1638	4.35356	1.09877	2352.58
8/21/2006 14:42	13.1638	4.35356	0.732511	2455.13
8/21/2006 14:42	13.1638	4.35356	0.854597	2616.29
8/21/2006 14:42	13.1638	4.35356	1.22085	2579.66
8/21/2006 14:42	13.2646	4.35356	0.976682	2549.14
8/21/2006 14:43	13.2646	4.35356	0.854597	2535.71
8/21/2006 14:43	13.2646	4.35356	0.976682	2513.73
8/21/2006 14:43	13.2646	4.35356	1.22085	2512.51
8/21/2006 14:43	13.2646	4.35356	1.22085	2492.98
8/21/2006 14:44	13.2646	4.35356	1.22085	2478.33
8/21/2006 14:44	13.2646	4.25345	0.732511	2480.77
8/21/2006 14:44	13.3683	4.25345	0.854597	2450.25
8/21/2006 14:44	13.3683	4.25345	0.854597	2420.95
8/21/2006 14:45	13.3683	4.25345	1.22085	2451.47
8/21/2006 14:45	13.3683	4.25345	1.22085	2597.97
8/21/2006 14:45	13.3683	4.25345	0.976682	2607.74
8/21/2006 14:45	13.3683	4.25345	0.976682	2357.47
8/21/2006 14:46	13.3683	4.25345	0.732511	2527.16
8/21/2006 14:46	13.3683	4.25345	1.22085	2507.63
8/21/2006 14:46	13.3683	4.25345	0.732511	2434.38
8/21/2006 14:46	13.3683	4.25345	1.09877	2452.69
8/21/2006 14:47	13.3683	4.25345	0.976682	2433.16
8/21/2006 14:47	13.4691	4.25345	0.976682	2407.52
8/21/2006 14:47	13.4691	4.25345	1.34294	2395.31
8/21/2006 14:47	13.4691	4.25345	0.732511	2355.02
8/21/2006 14:48	13.4691	4.25345	1.09877	2358.69
8/21/2006 14:48	13.4691	4.25345	1.22085	2466.12
8/21/2006 14:48	13.4691	4.15334	1.09877	2501.53
8/21/2006 14:48	13.4691	4.15334	0.854597	2492.98
8/21/2006 14:49	13.5759	4.15334	1.22085	2471
8/21/2006 14:49	13.5759	4.15334	0.976682	2463.68
8/21/2006 14:49	13.5759	4.15334	0.976682	2414.85
8/21/2006 14:49	13.5759	4.15334	1.34294	2355.02
8/21/2006 14:50	13.5759	4.15334	0.854597	2429.5
8/21/2006 14:50	13.5759	4.15334	0.976682	2373.34
8/21/2006 14:50	13.5759	4.15334	1.34294	2386.77
8/21/2006 14:50	13.5759	4.15334	0.976682	2389.21
8/21/2006 14:51	13.5759	4.15334	0.976682	2306.19
8/21/2006 14:51	13.5759	4.15334	1.22085	2418.51
8/21/2006 14:51	13.5759	4.15334	0.854597	2455.13
8/21/2006 14:51	13.5759	4.15334	0.976682	2428.27
8/21/2006 14:52	13.5759	4.15334	1.22085	2422.17
8/21/2006 14:52	13.5759	4.15334	0.854597	2324.5

John Zinc Inlet Raw Data
Run 3

8/21/2006 14:52	13.5759	4.15334	0.976682	2313.51
8/21/2006 14:52	13.5759	4.15334	1.09877	2357.47
8/21/2006 14:53	13.5759	4.15334	0.732511	2292.76
8/21/2006 14:53	13.5759	4.15334	0.854597	2317.18
8/21/2006 14:53	13.5759	4.15334	1.09877	2292.76
8/21/2006 14:53	13.5759	4.15334	1.22085	2291.54
8/21/2006 14:54	13.5759	4.15334	0.854597	2293.98
8/21/2006 14:54	13.5759	4.15334	0.854597	2296.42
8/21/2006 14:54	13.5759	4.15334	1.09877	2280.55
8/21/2006 14:54	13.5759	4.15334	0.854597	2383.1
8/21/2006 14:55	13.5759	4.15334	0.854597	2237.82
8/21/2006 14:55	13.5759	4.15334	0.854597	2318.4
8/21/2006 14:55	13.5759	4.15334	0.976682	2301.31
8/21/2006 14:55	13.5759	4.15334	1.22085	2367.23
8/21/2006 14:56	13.5759	4.15334	1.09877	2435.6
8/21/2006 14:56	13.5759	4.15334	0.854597	2352.58
8/21/2006 14:56	13.5759	4.15334	1.09877	2339.15
8/21/2006 14:56	13.5759	4.15334	0.976682	2308.63
8/21/2006 14:57	13.5759	4.15334	0.732511	2291.54
8/21/2006 14:57	13.5759	4.15334	1.09877	2414.85
8/21/2006 14:57	13.5759	4.15334	1.09877	1983.88
8/21/2006 14:57	13.5759	4.15334	0.854597	2367.23
8/21/2006 14:58	13.5759	4.15334	0.976682	2361.13
8/21/2006 14:58	13.5759	4.15334	1.22085	2357.47
8/21/2006 14:58	13.5759	4.15334	0.854597	2328.17
8/21/2006 14:58	13.5759	4.15334	1.34294	2273.23
8/21/2006 14:59	13.5759	4.15334	0.976682	2300.09
8/21/2006 14:59	13.5759	4.15334	1.09877	2364.79
8/21/2006 14:59	13.5759	4.15334	1.09877	2308.63
8/21/2006 14:59	13.5759	4.15334	0.732511	2287.88
8/21/2006 15:00	13.5759	4.15334	1.22085	2274.45
8/21/2006 15:00	13.5759	4.15334	0.854597	2268.34
8/21/2006 15:00	13.5759	4.15334	1.34294	2186.55
8/21/2006 15:00	13.5759	4.15334	0.854597	2282.99
8/21/2006 15:01	13.5759	4.15334	1.22085	2242.71
8/21/2006 15:01	13.5759	4.15334	1.34294	2247.59
8/21/2006 15:01	13.5759	4.15334	0.854597	2221.95
8/21/2006 15:01	13.5759	4.15334	1.22085	2193.87
8/21/2006 15:02	13.4752	4.15334	1.34294	2297.64
8/21/2006 15:02	13.4752	4.15334	0.976682	2304.97
8/21/2006 15:02	13.3714	4.15334	0.854597	2197.53
8/21/2006 15:02	13.2707	4.25589	0.976682	2215.85
8/21/2006 15:03	13.2707	4.25589	1.34294	2206.08
8/21/2006 15:03	13.1669	4.25589	1.09877	2471

John Zinc Inlet Raw Data
Run 3

8/21/2006 15:03	13.1669	4.356	0.854597	2402.64
8/21/2006 15:03	13.1669	4.356	1.34294	2370.89
8/21/2006 15:04	13.0662	4.356	0.976682	2339.15
8/21/2006 15:04	13.0662	4.356	0.732511	2347.7
8/21/2006 15:04	13.0662	4.356	1.09877	2248.81
8/21/2006 15:04	13.0662	4.356	1.22085	2247.59
8/21/2006 15:05	13.0662	4.356	1.22085	2230.5
8/21/2006 15:05	13.0662	4.356	1.22085	2247.59
8/21/2006 15:05	13.0662	4.356	0.976682	2251.25
8/21/2006 15:05	13.0662	4.356	0.854597	2251.25
8/21/2006 15:06	13.0662	4.356	1.22085	2212.18
8/21/2006 15:06	13.0662	4.356	1.22085	2243.93
	11.1472	4.220398	0.674618	1891.069

John Zinc Inlet Raw Data
Run 2

	O2	CO2	THC	Inlet
8/19/2006 7:50	14.6075	3.97754	0.366256	604.322
8/19/2006 7:50	14.6075	3.97754	0.366256	612.868
8/19/2006 7:50	14.6075	3.8701	0.610426	620.193
8/19/2006 7:50	14.815	3.76267	0.610426	625.076
8/19/2006 7:51	14.815	3.76267	0.732511	638.506
8/19/2006 7:51	14.815	3.76267	0.488341	653.156
8/19/2006 7:51	14.815	3.76267	0.732511	675.131
8/19/2006 7:51	14.815	3.76267	0.732511	730.07
8/19/2006 7:52	14.815	3.76267	0.732511	774.02
8/19/2006 7:52	14.815	3.76267	0.610426	828.959
8/19/2006 7:52	14.815	3.76267	0.610426	890.001
8/19/2006 7:52	14.815	3.76267	0.366256	955.927
8/19/2006 7:53	14.9188	3.76267	0.24417	1008.42
8/19/2006 7:53	14.9188	3.76267	0.366256	1056.04
8/19/2006 7:53	14.9188	3.76267	0.366256	1093.88
8/19/2006 7:53	14.9188	3.76267	0.366256	1146.38
8/19/2006 7:54	14.9188	3.76267	0.488341	1190.33
8/19/2006 7:54	14.9188	3.76267	0.24417	1241.61
8/19/2006 7:54	14.9188	3.76267	0.610426	1283.12
8/19/2006 7:54	14.9188	3.76267	0.366256	1313.64
8/19/2006 7:55	14.9188	3.76267	0.732511	1357.59
8/19/2006 7:55	14.9188	3.76267	0.610426	1395.43
8/19/2006 7:55	14.9188	3.76267	0.610426	1408.86
8/19/2006 7:55	14.8181	3.76267	0.488341	1436.94
8/19/2006 7:56	14.8181	3.76267	0.24417	1465.02
8/19/2006 7:56	14.8181	3.76267	0.488341	1483.34
8/19/2006 7:56	14.8181	3.76267	0.610426	1502.87
8/19/2006 7:56	14.8181	3.76267	0.24417	1516.3
8/19/2006 7:57	14.8181	3.76267	0.366256	1526.07
8/19/2006 7:57	14.8181	3.76267	0.366256	1541.94
8/19/2006 7:57	14.8181	3.76267	0.732511	1548.04
8/19/2006 7:57	14.7174	3.76267	0.488341	1537.05
8/19/2006 7:58	14.7174	3.76267	0.610426	1556.59
8/19/2006 7:58	14.7174	3.76267	0.366256	1561.47
8/19/2006 7:58	14.7174	3.76267	0.24417	1567.57
8/19/2006 7:58	14.7174	3.76267	0.366256	1589.55
8/19/2006 7:59	14.7174	3.76267	0.610426	1587.11
8/19/2006 7:59	14.7174	3.76267	0.366256	1589.55
8/19/2006 7:59	14.7174	3.76267	0.366256	1588.33
8/19/2006 7:59	14.7174	3.76267	0.488341	1594.43
8/19/2006 8:00	14.7174	3.76267	0.610426	1612.75

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:00	14.7174	3.76267	0.122085	1591.99
8/19/2006 8:00	14.7174	3.76267	0.366256	1598.1
8/19/2006 8:00	14.7174	3.76267	0.488341	1612.75
8/19/2006 8:01	14.6075	3.76267	0.610426	1610.3
8/19/2006 8:01	14.6075	3.76267	0.24417	1632.28
8/19/2006 8:01	14.6075	3.76267	0.24417	1621.29
8/19/2006 8:01	14.6075	3.76267	0.488341	1612.75
8/19/2006 8:02	14.6075	3.76267	0.488341	1627.4
8/19/2006 8:02	14.6075	3.76267	0.122085	1615.19
8/19/2006 8:02	14.5037	3.76267	0.488341	1626.18
8/19/2006 8:02	14.5037	3.76267	0.610426	1622.51
8/19/2006 8:03	14.5037	3.76267	0.488341	1627.4
8/19/2006 8:03	14.5037	3.76267	0.24417	1640.83
8/19/2006 8:03	14.5037	3.76267	0.24417	1620.07
8/19/2006 8:03	14.5037	3.76267	0.488341	1640.83
8/19/2006 8:04	14.5037	3.76267	0.488341	1646.93
8/19/2006 8:04	14.5037	3.76267	0.122085	1643.27
8/19/2006 8:04	14.5037	3.76267	0.366256	1640.83
8/19/2006 8:04	14.5037	3.76267	0.488341	1655.48
8/19/2006 8:05	14.5037	3.76267	0.122085	1643.27
8/19/2006 8:05	14.5037	3.76267	0.366256	1660.36
8/19/2006 8:05	14.5037	3.76267	0.366256	1660.36
8/19/2006 8:05	14.5037	3.76267	0.122085	1660.36
8/19/2006 8:06	14.403	3.76267	0.610426	1673.79
8/19/2006 8:06	14.403	3.76267	0.24417	1657.92
8/19/2006 8:06	14.403	3.76267	0.122085	1671.35
8/19/2006 8:06	14.403	3.76267	0.122085	1676.23
8/19/2006 8:07	14.403	3.76267	0.366256	1676.23
8/19/2006 8:07	14.403	3.76267	0.610426	1679.89
8/19/2006 8:07	14.403	3.76267	0.122085	1681.11
8/19/2006 8:07	14.403	3.76267	0.366256	1722.62
8/19/2006 8:08	14.403	3.76267	0.488341	1721.4
8/19/2006 8:08	14.403	3.76267	0.24417	1710.41
8/19/2006 8:08	14.403	3.76267	0.488341	1693.32
8/19/2006 8:08	14.403	3.66256	0.366256	1704.31
8/19/2006 8:09	14.5037	3.66256	0.366256	1704.31
8/19/2006 8:09	14.4	3.76755	0.610426	1659.14
8/19/2006 8:09	14.2901	3.76755	0.122085	1649.37
8/19/2006 8:09	14.2901	3.76755	0.488341	1667.68
8/19/2006 8:10	14.1863	3.76755	0.24417	1657.92
8/19/2006 8:10	14.0856	3.76755	0.610426	1661.58
8/19/2006 8:10	14.0856	3.86766	0.24417	1712.86
8/19/2006 8:10	14.0856	3.86766	0.366256	1705.53
8/19/2006 8:11	14.0856	3.86766	0.610426	1692.1

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:11	14.0856	3.86766	0.366256	1699.43
8/19/2006 8:11	14.0856	3.86766	0.122085	1700.65
8/19/2006 8:11	14.0856	3.86766	0.366256	1696.98
8/19/2006 8:12	14.0856	3.86766	0.488341	1704.31
8/19/2006 8:12	14.0856	3.86766	0.366256	1734.83
8/19/2006 8:12	14.0856	3.86766	0.122085	1714.08
8/19/2006 8:12	14.0856	3.86766	0.24417	1754.36
8/19/2006 8:13	14.0856	3.86766	0.366256	1727.51
8/19/2006 8:13	14.0856	3.86766	0.488341	1749.48
8/19/2006 8:13	14.0856	3.86766	0.24417	1754.36
8/19/2006 8:13	14.0856	3.86766	0.366256	1776.34
8/19/2006 8:14	14.0856	3.86766	0.366256	1790.99
8/19/2006 8:14	14.0856	3.86766	0.122085	1780
8/19/2006 8:14	14.0856	3.86766	0.366256	1772.68
8/19/2006 8:14	14.0856	3.86766	0.366256	1784.89
8/19/2006 8:15	14.0856	3.86766	0.366256	1782.44
8/19/2006 8:15	14.0856	3.86766	0.122085	1783.66
8/19/2006 8:15	14.0856	3.86766	0.366256	1782.44
8/19/2006 8:15	14.0856	3.86766	0.488341	1803.2
8/19/2006 8:16	13.9849	3.86766	0.366256	1792.21
8/19/2006 8:16	13.9849	3.86766	0.24417	1808.08
8/19/2006 8:16	13.9849	3.86766	0.122085	1804.42
8/19/2006 8:16	13.9849	3.86766	0.366256	1808.08
8/19/2006 8:17	13.9849	3.86766	0.24417	1812.97
8/19/2006 8:17	13.9849	3.86766	0.122085	1799.54
8/19/2006 8:17	13.9849	3.86766	0.488341	1817.85
8/19/2006 8:17	13.9849	3.86766	0.24417	1800.76
8/19/2006 8:18	13.9849	3.86766	0.122085	1814.19
8/19/2006 8:18	13.8841	3.86766	0.488341	1822.73
8/19/2006 8:18	13.8841	3.86766	0.366256	1826.39
8/19/2006 8:18	13.8841	3.86766	0.122085	1822.73
8/19/2006 8:19	13.8841	3.86766	0.610426	1827.62
8/19/2006 8:19	13.8841	3.86766	0.122085	1838.6
8/19/2006 8:19	13.8841	3.86766	0.488341	1842.27
8/19/2006 8:19	13.8841	3.86766	0.366256	1854.47
8/19/2006 8:20	13.8841	3.86766	0.122085	1855.7
8/19/2006 8:20	13.8841	3.86766	0.366256	1848.37
8/19/2006 8:20	13.7804	3.86766	0.24417	1841.05
8/19/2006 8:20	13.7804	3.86766	0.122085	1864.24
8/19/2006 8:21	13.7804	3.86766	0.366256	1852.03
8/19/2006 8:21	13.7804	3.86766	0.24417	1863.02
8/19/2006 8:21	13.7804	3.86766	0.488341	1854.47
8/19/2006 8:21	13.7804	3.86766	0.122085	1875.23
8/19/2006 8:22	13.7804	3.86766	0.24417	1870.35

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:22	13.7804	3.86766	0.24417	1886.22
8/19/2006 8:22	13.6796	3.86766	0.24417	1871.57
8/19/2006 8:22	13.6796	3.86766	0.122085	1869.12
8/19/2006 8:23	13.6796	3.86766	0.488341	1847.15
8/19/2006 8:23	13.6796	3.86766	0.366256	1849.59
8/19/2006 8:23	13.6796	3.86766	0.24417	1822.73
8/19/2006 8:23	13.6796	3.86766	0.366256	1805.64
8/19/2006 8:24	13.6796	3.86766	0.366256	1817.85
8/19/2006 8:24	13.6796	3.86766	0	1789.77
8/19/2006 8:24	13.5789	3.86766	0.366256	1822.73
8/19/2006 8:24	13.5789	3.86766	0.366256	1821.51
8/19/2006 8:25	13.5789	3.86766	0.122085	1815.41
8/19/2006 8:25	13.5789	3.86766	0.488341	1794.65
8/19/2006 8:25	13.5789	3.86766	0.24417	1790.99
8/19/2006 8:25	13.5789	3.86766	0.24417	1770.24
8/19/2006 8:26	13.5789	3.86766	0.610426	1795.87
8/19/2006 8:26	13.5789	3.86766	0.24417	1841.05
8/19/2006 8:26	13.5789	3.86766	0.122085	1819.07
8/19/2006 8:26	13.5789	3.86766	0.488341	1804.42
8/19/2006 8:27	13.5789	3.86766	0.488341	1819.07
8/19/2006 8:27	13.5789	3.86766	0.488341	1819.07
8/19/2006 8:27	13.5789	3.86766	0.488341	1810.52
8/19/2006 8:27	13.5789	3.86766	0.366256	1800.76
8/19/2006 8:28	13.5789	3.86766	0.24417	1797.09
8/19/2006 8:28	13.5789	3.86766	0.122085	1800.76
8/19/2006 8:28	13.5789	3.86766	0.24417	1806.86
8/19/2006 8:28	13.5789	3.86766	0.24417	1790.99
8/19/2006 8:29	13.5789	3.86766	0.366256	1812.97
8/19/2006 8:29	13.5789	3.86766	0.488341	1800.76
8/19/2006 8:29	13.4782	3.86766	0	1805.64
8/19/2006 8:29	13.4782	3.86766	0.24417	1806.86
8/19/2006 8:30	13.4782	3.86766	0.366256	1838.6
8/19/2006 8:30	13.4782	3.86766	0.24417	1834.94
8/19/2006 8:30	13.4782	3.86766	0.24417	1822.73
8/19/2006 8:30	13.4782	3.86766	0.24417	1834.94
8/19/2006 8:31	13.4782	3.86766	0.122085	1819.07
8/19/2006 8:31	13.4782	3.86766	0.122085	1822.73
8/19/2006 8:31	13.4782	3.86766	0.488341	1811.74
8/19/2006 8:31	13.4782	3.86766	0.122085	1822.73
8/19/2006 8:32	13.4782	3.86766	0.488341	1820.29
8/19/2006 8:32	13.4782	3.86766	0.122085	1841.05
8/19/2006 8:32	13.3744	3.86766	0.488341	1847.15
8/19/2006 8:32	13.3744	3.86766	0.24417	1837.38
8/19/2006 8:33	13.3744	3.86766	0.24417	1849.59

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:33	13.3744	3.86766	0.24417	1852.03
8/19/2006 8:33	13.3744	3.86766	0.610426	1850.81
8/19/2006 8:33	13.3744	3.86766	0.122085	1849.59
8/19/2006 8:34	13.3744	3.86766	0.366256	1866.68
8/19/2006 8:34	13.3744	3.86766	0.366256	1866.68
8/19/2006 8:34	13.2737	3.86766	0.122085	1860.58
8/19/2006 8:34	13.2737	3.86766	0.610426	1889.88
8/19/2006 8:35	13.2737	3.96777	0.24417	1874.01
8/19/2006 8:35	13.2737	3.96777	0.366256	1961.91
8/19/2006 8:35	13.2737	3.96777	0.24417	1950.92
8/19/2006 8:35	13.2737	3.96777	0.366256	1931.39
8/19/2006 8:36	13.2737	3.96777	0.24417	1930.17
8/19/2006 8:36	13.2737	3.96777	0.488341	1980.22
8/19/2006 8:36	13.2737	3.96777	0.122085	1961.91
8/19/2006 8:36	13.2737	3.96777	0.24417	1942.38
8/19/2006 8:37	13.173	3.96777	0.610426	1927.73
8/19/2006 8:37	13.173	3.96777	0.24417	1939.93
8/19/2006 8:37	13.173	3.96777	0.122085	1948.48
8/19/2006 8:37	13.173	3.96777	0.610426	1941.15
8/19/2006 8:38	13.173	3.96777	0.366256	1930.17
8/19/2006 8:38	13.173	3.96777	0.122085	1943.6
8/19/2006 8:38	13.173	3.96777	0.610426	1953.36
8/19/2006 8:38	13.173	3.96777	0	1942.38
8/19/2006 8:39	13.173	3.96777	0.366256	1937.49
8/19/2006 8:39	13.173	3.96777	0.488341	1942.38
8/19/2006 8:39	13.0723	3.96777	0.610426	1959.47
8/19/2006 8:39	13.0723	3.96777	0.366256	1997.31
8/19/2006 8:40	13.0723	3.96777	0.24417	1979
8/19/2006 8:40	13.0723	3.96777	0.488341	2040.04
8/19/2006 8:40	13.0723	3.96777	0.24417	2032.72
8/19/2006 8:40	13.0723	3.96777	0.488341	2033.94
8/19/2006 8:41	13.0723	3.96777	0.610426	2037.6
8/19/2006 8:41	13.0723	3.96777	0.366256	2016.85
8/19/2006 8:41	12.9716	3.96777	0.122085	2010.74
8/19/2006 8:41	12.9716	3.96777	0.24417	2021.73
8/19/2006 8:42	12.9716	3.96777	0.122085	1999.76
8/19/2006 8:42	12.9716	3.96777	0.366256	2020.51
8/19/2006 8:42	12.9716	3.96777	0.488341	2010.74
8/19/2006 8:42	12.9716	3.96777	0.24417	2003.42
8/19/2006 8:43	12.9716	3.96777	0.366256	2024.17
8/19/2006 8:43	12.9716	3.96777	0.24417	1996.09
8/19/2006 8:43	12.9716	3.96777	0.488341	2137.71
8/19/2006 8:43	12.8708	3.96777	0.24417	2107.19
8/19/2006 8:44	12.8708	3.96777	0.122085	2065.68

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:44	12.8708	3.96777	0.366256	2101.09
8/19/2006 8:44	12.8708	3.96777	0.122085	2074.23
8/19/2006 8:44	12.8708	3.96777	0.366256	2027.84
8/19/2006 8:45	12.8708	3.96777	0.610426	2024.17
8/19/2006 8:45	12.8708	3.96777	0.122085	1996.09
8/19/2006 8:45	12.8708	3.96777	0.610426	1979
8/19/2006 8:45	12.8708	3.96777	0.610426	1989.99
8/19/2006 8:46	12.8708	3.96777	0.610426	1997.31
8/19/2006 8:46	12.8708	3.96777	0.366256	1969.23
8/19/2006 8:46	12.8708	3.96777	0.366256	1977.78
8/19/2006 8:46	12.8708	3.96777	0.24417	1975.34
8/19/2006 8:47	12.8708	3.96777	0	1977.78
8/19/2006 8:47	12.8708	3.96777	0.122085	1980.22
8/19/2006 8:47	12.764	3.96777	0.488341	2092.54
8/19/2006 8:47	12.764	3.96777	0.610426	2071.79
8/19/2006 8:48	12.764	3.96777	0.610426	2033.94
8/19/2006 8:48	12.764	3.96777	0.488341	2024.17
8/19/2006 8:48	12.764	3.96777	0.122085	1998.53
8/19/2006 8:48	12.764	3.96777	0.366256	1992.43
8/19/2006 8:49	12.764	3.96777	0.366256	1988.77
8/19/2006 8:49	12.764	3.96777	0.24417	1993.65
8/19/2006 8:49	12.764	3.96777	0.366256	2000.98
8/19/2006 8:49	12.764	3.96777	0.24417	2060.8
8/19/2006 8:50	12.764	3.96777	0.122085	2054.69
8/19/2006 8:50	12.764	3.96777	0.366256	2054.69
8/19/2006 8:50	12.764	3.96777	0.24417	2035.16
8/19/2006 8:50	12.764	3.96777	0.488341	2038.82
8/19/2006 8:51	12.764	3.96777	0.366256	2035.16
8/19/2006 8:51	12.764	3.96777	0	2031.5
8/19/2006 8:51	12.764	3.96777	0.24417	2033.94
8/19/2006 8:51	12.6633	3.96777	0.488341	2021.73
8/19/2006 8:52	12.6633	3.96777	0.488341	2042.49
8/19/2006 8:52	12.6633	3.96777	0.122085	2033.94
8/19/2006 8:52	12.6633	3.96777	0.610426	2046.15
8/19/2006 8:52	12.6633	3.96777	0.610426	2062.02
8/19/2006 8:53	12.6633	3.96777	0.122085	2044.93
8/19/2006 8:53	12.6633	3.96777	0.488341	2065.68
8/19/2006 8:53	12.6633	3.96777	0.24417	2074.23
8/19/2006 8:53	12.6633	3.96777	0.488341	2105.97
8/19/2006 8:54	12.6633	3.96777	0.122085	2101.09
8/19/2006 8:54	12.6633	3.96777	0.488341	2108.41
8/19/2006 8:54	12.6633	3.96777	0.366256	2104.75
8/19/2006 8:54	12.6633	3.96777	0.24417	2115.74
8/19/2006 8:55	12.6633	3.96777	0.488341	2066.9

John Zinc Inlet Raw Data
Run 2

8/19/2006 8:55	12.6633	3.96777	0.122085	2022.95
8/19/2006 8:55	12.6633	3.96777	0.488341	1986.33
8/19/2006 8:55	12.6633	3.96777	8.30179	1941.15
8/19/2006 8:56	12.6633	3.96777	48.2237	1988.77
8/19/2006 8:56	12.6633	3.21572	13.4294	2130.39
8/19/2006 8:56	13.0112	3.32072	4.39507	2252.47
8/19/2006 8:56	13.0112	3.7529	1.58711	2254.91
8/19/2006 8:57	12.6755	3.98486	0.610426	2167.01
8/19/2006 8:57	12.4557	4.19729	0.610426	2138.93
8/19/2006 8:57	12.4557	4.2974	0.610426	2002.2
8/19/2006 8:57	12.4557	4.2974	0.24417	1874.01
8/19/2006 8:58	12.5626	4.2974	0.488341	1733.61
8/19/2006 8:58	12.6633	4.2974	0.24417	1637.16
8/19/2006 8:58	12.764	4.2974	0.610426	1527.29
8/19/2006 8:58	12.9777	4.19241	0.24417	1465.02
8/19/2006 8:59	12.9777	4.19241	0.366256	1425.96
8/19/2006 8:59	13.0845	4.19241	1.22085	1352.7
8/19/2006 8:59	13.1852	4.0923	0.610426	1298.99
8/19/2006 8:59	13.2859	4.0923	0.366256	1233.06
8/19/2006 9:00	13.2859	4.0923	0.366256	1197.66
8/19/2006 9:00	13.2859	4.0923	0.366256	1158.59
8/19/2006 9:00	13.2859	4.0923	0.366256	1143.94
8/19/2006 9:00	13.1852	4.0923	0.24417	1117.08
8/19/2006 9:01	13.1852	4.0923	0.610426	1106.09
8/19/2006 9:01	13.292	4.0923	0.24417	1099.99
8/19/2006 9:01	13.292	4.0923	0.610426	1091.44
8/19/2006 9:01	13.292	4.0923	0.24417	1093.88
8/19/2006 9:02	13.292	4.0923	0.488341	1090.22
8/19/2006 9:02	13.292	4.0923	0.488341	1087.78
8/19/2006 9:02	13.292	4.0923	0.366256	1084.12
8/19/2006 9:02	13.292	4.0923	0.366256	1097.55
8/19/2006 9:03	13.292	4.0923	0.610426	1089
8/19/2006 9:03	13.292	4.0923	0.488341	1091.44
8/19/2006 9:03	13.292	4.0923	0.610426	1110.98
8/19/2006 9:03	13.292	4.0923	0.122085	1097.55
8/19/2006 9:04	13.292	4.0923	0.732511	1110.98
8/19/2006 9:04	13.292	4.0923	0.732511	1107.31
8/19/2006 9:04	13.1913	4.0923	0.488341	1096.33
8/19/2006 9:04	13.1913	4.0923	0.366256	1104.87
8/19/2006 9:05	13.1913	4.0923	0.366256	1090.22
8/19/2006 9:05	13.1913	4.0923	0.122085	1085.34
8/19/2006 9:05	13.1913	4.0923	0.122085	1091.44
8/19/2006 9:05	13.1913	4.0923	0.366256	1079.23
8/19/2006 9:06	13.1913	4.0923	0.366256	1097.55

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:06	13.1913	4.0923	0.488341	1065.8
8/19/2006 9:06	13.1913	4.0923	0.610426	1087.78
8/19/2006 9:06	13.1913	4.0923	0.610426	1078.01
8/19/2006 9:07	13.1913	4.0923	0.732511	1139.06
8/19/2006 9:07	13.1913	4.0923	2.19753	1162.25
8/19/2006 9:07	13.1913	3.99219	2.56379	1142.72
8/19/2006 9:07	13.4355	3.76999	1.22085	1104.87
8/19/2006 9:08	13.6369	3.76999	0.24417	1086.56
8/19/2006 9:08	13.5362	3.87743	0.488341	1109.75
8/19/2006 9:08	13.2096	4.10206	0.366256	1132.95
8/19/2006 9:08	12.9899	4.20217	0.122085	1141.5
8/19/2006 9:09	12.7854	4.30228	0.732511	1150.04
8/19/2006 9:09	12.7854	4.30228	0.366256	1162.25
8/19/2006 9:09	12.7854	4.30228	0.366256	1159.81
8/19/2006 9:09	12.7854	4.30228	0.488341	1214.75
8/19/2006 9:10	12.7854	4.30228	0.610426	1209.86
8/19/2006 9:10	12.7854	4.30228	0.610426	1212.31
8/19/2006 9:10	12.7854	4.30228	0.488341	1186.67
8/19/2006 9:10	12.7854	4.30228	0.732511	1187.89
8/19/2006 9:11	12.7854	4.30228	0.610426	1176.9
8/19/2006 9:11	12.6847	4.30228	0.732511	1180.56
8/19/2006 9:11	12.6847	4.30228	0.488341	1125.63
8/19/2006 9:11	12.6847	4.30228	0.976682	1176.9
8/19/2006 9:12	12.6847	4.30228	0.488341	1173.24
8/19/2006 9:12	12.6847	4.30228	0.854597	1170.8
8/19/2006 9:12	12.6847	4.30228	1.09877	1126.85
8/19/2006 9:12	12.5809	4.30228	0.488341	1197.66
8/19/2006 9:13	12.5809	4.30228	0.610426	1161.03
8/19/2006 9:13	12.5809	4.30228	0.732511	1180.56
8/19/2006 9:13	12.5809	4.30228	0.854597	1185.45
8/19/2006 9:13	12.4802	4.30228	0.488341	1208.64
8/19/2006 9:14	12.4802	4.30228	0.732511	1231.84
8/19/2006 9:14	12.4802	4.30228	0.854597	1195.21
8/19/2006 9:14	12.4802	4.30228	0.488341	1196.44
8/19/2006 9:14	12.3794	4.30228	0.366256	1491.88
8/19/2006 9:15	12.3794	4.30228	0.610426	1358.81
8/19/2006 9:15	12.3794	4.40239	0.976682	1306.31
8/19/2006 9:15	12.3794	4.40239	0.610426	1274.57
8/19/2006 9:15	12.3794	4.40239	0.488341	1286.78
8/19/2006 9:16	12.3794	4.40239	0.976682	1251.37
8/19/2006 9:16	12.3794	4.40239	0.854597	1268.47
8/19/2006 9:16	12.2757	4.40239	0.366256	1239.16
8/19/2006 9:16	12.2757	4.40239	0.488341	1239.16
8/19/2006 9:17	12.2757	4.40239	0.732511	1229.4

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:17	12.2757	4.40239	0.488341	1228.18
8/19/2006 9:17	12.2757	4.40239	0.488341	1385.67
8/19/2006 9:17	12.2757	4.40239	0.610426	1289.22
8/19/2006 9:18	12.2757	4.40239	0.732511	1252.59
8/19/2006 9:18	12.2757	4.40239	0.610426	1328.29
8/19/2006 9:18	12.1749	4.40239	0.610426	1338.05
8/19/2006 9:18	12.0681	4.51471	0.610426	1330.73
8/19/2006 9:19	11.9674	4.51471	0.366256	2018.07
8/19/2006 9:19	11.9674	4.51471	0.488341	1623.73
8/19/2006 9:19	11.9674	4.51471	0.366256	1561.47
8/19/2006 9:19	12.0803	4.41216	0.488341	1467.46
8/19/2006 9:20	12.1811	4.41216	0.24417	1449.15
8/19/2006 9:20	12.1811	4.31205	0.24417	1421.07
8/19/2006 9:20	12.1811	4.31205	0.366256	1397.88
8/19/2006 9:20	12.2818	4.31205	0.366256	1402.76
8/19/2006 9:21	12.2818	4.20706	0.732511	1351.48
8/19/2006 9:21	12.2818	4.20706	0.366256	1330.73
8/19/2006 9:21	12.2818	4.20706	0.24417	1300.21
8/19/2006 9:21	12.2818	4.20706	0.488341	1329.51
8/19/2006 9:22	12.2818	4.20706	0.366256	1433.28
8/19/2006 9:22	12.2818	4.20706	0.488341	1392.99
8/19/2006 9:22	12.2818	4.20706	0.366256	1377.12
8/19/2006 9:22	12.2818	4.20706	0.488341	1358.81
8/19/2006 9:23	12.2818	4.20706	0.122085	1298.99
8/19/2006 9:23	12.1811	4.20706	0.366256	1283.12
8/19/2006 9:23	12.1811	4.20706	0.610426	1253.82
8/19/2006 9:23	12.1811	4.20706	0.366256	1277.01
8/19/2006 9:24	12.1811	4.20706	0.122085	1341.72
8/19/2006 9:24	12.1811	4.20706	0.366256	1279.45
8/19/2006 9:24	12.1811	4.20706	0.366256	1224.51
8/19/2006 9:24	12.1811	4.20706	0.122085	1184.23
8/19/2006 9:25	12.1811	4.20706	0.488341	1302.65
8/19/2006 9:25	12.0803	4.20706	0.24417	1213.53
8/19/2006 9:25	12.0803	4.20706	0.24417	1191.55
8/19/2006 9:25	12.0803	4.20706	0.366256	1158.59
8/19/2006 9:26	12.0803	4.10206	0.122085	1172.02
8/19/2006 9:26	12.0803	4.10206	0.122085	1136.61
8/19/2006 9:26	12.0803	4.10206	0.366256	1119.52
8/19/2006 9:26	12.0803	4.10206	0.488341	1102.43
8/19/2006 9:27	11.9796	4.10206	0.24417	1131.73
8/19/2006 9:27	11.9796	4.10206	0.122085	1092.66
8/19/2006 9:27	11.9796	4.10206	0.366256	1058.48
8/19/2006 9:27	11.9796	4.10206	0.610426	1047.49
8/19/2006 9:28	11.9796	4.10206	0.122085	1087.78

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Run 2

8/19/2006 9:28	11.9796	4.10206	0.122085	1135.39
8/19/2006 9:28	11.9796	4.10206	0.366256	1109.75
8/19/2006 9:28	11.8728	4.10206	0.488341	1089
8/19/2006 9:29	11.8728	4.10206	0.610426	1065.8
8/19/2006 9:29	11.8728	4.10206	0.610426	1047.49
8/19/2006 9:29	11.8728	4.10206	0.122085	1029.18
8/19/2006 9:29	11.8728	4.10206	0.24417	1020.63
8/19/2006 9:30	11.7721	4.10206	0.610426	1002.32
8/19/2006 9:30	11.7721	4.10206	0	994.995
8/19/2006 9:30	11.7721	4.10206	0.488341	1020.63
8/19/2006 9:30	11.7721	4.10206	0.122085	1024.29
8/19/2006 9:31	11.7721	4.10206	0.366256	1012.09
8/19/2006 9:31	11.7721	4.10206	0.24417	1012.09
8/19/2006 9:31	11.7721	4.10206	0.488341	999.878
8/19/2006 9:31	11.6713	4.10206	0.24417	996.215
8/19/2006 9:32	11.6713	4.10206	0.610426	993.774
8/19/2006 9:32	11.6713	4.10206	0.122085	980.344
8/19/2006 9:32	11.6713	4.10206	0.122085	982.786
8/19/2006 9:32	11.6713	4.10206	0.366256	976.682
8/19/2006 9:33	11.6713	4.10206	0.488341	971.798
8/19/2006 9:33	11.6713	4.10206	0.122085	964.473
8/19/2006 9:33	11.6713	4.10206	0.610426	966.915
8/19/2006 9:33	11.5676	4.10206	0.122085	957.148
8/19/2006 9:34	11.5676	4.10206	0.488341	957.148
8/19/2006 9:34	11.5676	4.10206	0.24417	962.031
8/19/2006 9:34	11.5676	4.10206	0.366256	953.486
8/19/2006 9:34	11.5676	4.10206	0.610426	954.706
8/19/2006 9:35	11.5676	4.10206	0.122085	949.823
8/19/2006 9:35	11.5676	4.10206	0.488341	959.59
8/19/2006 9:35	11.4638	4.10206	0.24417	949.823
8/19/2006 9:35	11.4638	4.10206	0.122085	952.265
8/19/2006 9:36	11.4638	4.10206	0.366256	955.927
8/19/2006 9:36	11.4638	4.10206	0.366256	954.706
8/19/2006 9:36	11.4638	4.10206	0.24417	949.823
8/19/2006 9:36	11.4638	4.10206	0.610426	953.486
8/19/2006 9:37	11.4638	4.10206	0.122085	958.369
8/19/2006 9:37	11.4638	4.10206	0.488341	955.927
8/19/2006 9:37	11.4638	4.10206	0.366256	955.927
8/19/2006 9:37	11.3631	4.10206	0.366256	965.694
8/19/2006 9:38	11.3631	4.10206	0.366256	952.265
8/19/2006 9:38	11.3631	4.10206	0.488341	966.915
8/19/2006 9:38	11.3631	4.10206	0.122085	955.927
8/19/2006 9:38	11.3631	4.10206	0.488341	968.136
8/19/2006 9:39	11.3631	4.10206	0.610426	965.694

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:39	11.3631	4.10206	0.122085	1052.37
8/19/2006 9:39	11.2624	4.10206	0.122085	1009.64
8/19/2006 9:39	11.2624	4.10206	0.366256	1002.32
8/19/2006 9:40	11.2624	4.10206	0.732511	993.774
8/19/2006 9:40	11.2624	4.10206	0.488341	991.332
8/19/2006 9:40	11.2624	4.10206	0.122085	987.669
8/19/2006 9:40	11.2624	4.10206	0.24417	987.669
8/19/2006 9:41	11.2624	4.10206	0.24417	987.669
8/19/2006 9:41	11.2624	4.10206	0.610426	991.332
8/19/2006 9:41	11.2624	4.10206	0.488341	984.007
8/19/2006 9:41	11.1555	4.10206	0.122085	992.553
8/19/2006 9:42	11.1555	4.10206	0.122085	991.332
8/19/2006 9:42	11.1555	4.20217	0	993.774
8/19/2006 9:42	11.0518	4.20217	0.366256	999.878
8/19/2006 9:42	11.0518	4.20217	0.488341	999.878
8/19/2006 9:43	11.0518	4.20217	0.122085	999.878
8/19/2006 9:43	11.0518	4.20217	0.488341	1003.54
8/19/2006 9:43	11.0518	4.20217	0.122085	1005.98
8/19/2006 9:43	11.0518	4.20217	0.24417	1002.32
8/19/2006 9:44	11.0518	4.20217	0.366256	1007.2
8/19/2006 9:44	11.0518	4.20217	0.488341	1008.42
8/19/2006 9:44	11.0518	4.20217	0.488341	1016.97
8/19/2006 9:44	11.0518	4.20217	0.24417	1037.72
8/19/2006 9:45	10.9449	4.20217	0.366256	1040.17
8/19/2006 9:45	10.9449	4.20217	0.366256	1036.5
8/19/2006 9:45	10.9449	4.20217	0.366256	1040.17
8/19/2006 9:45	10.9449	4.20217	0.488341	1074.35
8/19/2006 9:46	10.9449	4.20217	0.366256	1069.47
8/19/2006 9:46	10.9449	4.20217	0.610426	1065.8
8/19/2006 9:46	10.9449	4.20217	0.366256	1075.57
8/19/2006 9:46	10.8442	4.20217	0.122085	1059.7
8/19/2006 9:47	10.8442	4.20217	0.366256	1070.69
8/19/2006 9:47	10.8442	4.20217	0.488341	1064.58
8/19/2006 9:47	10.8442	4.20217	0.24417	1074.35
8/19/2006 9:47	10.8442	4.20217	0.24417	1076.79
8/19/2006 9:48	10.8442	4.20217	0.488341	1085.34
8/19/2006 9:48	10.8442	4.20217	0.122085	1079.23
8/19/2006 9:48	10.8442	4.20217	0.610426	1090.22
8/19/2006 9:48	10.8442	4.20217	0.122085	1076.79
8/19/2006 9:49	10.8442	4.20217	0.610426	1093.88
8/19/2006 9:49	10.8442	4.20217	0.488341	1137.83
8/19/2006 9:49	10.7404	4.20217	0.122085	1115.86
8/19/2006 9:49	10.7404	4.20217	0.488341	1120.74
8/19/2006 9:50	10.7404	4.20217	0.24417	1109.75

John Zinc Inlet Raw Data
Run 2

8/19/2006 9:50	10.7404	4.20217	0.122085	1121.96
8/19/2006 9:50	10.7404	4.20217	0.24417	1109.75
8/19/2006 9:50	10.7404	4.20217	0.610426	1114.64
8/19/2006 9:51	10.7404	4.20217	0.366256	1124.4
8/19/2006 9:51	10.7404	4.20217	0.24417	1128.07
8/19/2006 9:51	10.6397	4.20217	0.366256	1130.51
8/19/2006 9:51	10.6397	4.20217	0.24417	1129.29
8/19/2006 9:52	10.6397	4.20217	0.488341	1135.39
8/19/2006 9:52	10.6397	4.20217	0.366256	1137.83
8/19/2006 9:52	10.536	4.20217	0.488341	1136.61
8/19/2006 9:52	10.536	4.20217	0.488341	1150.04
8/19/2006 9:53	10.536	4.20217	0.366256	1142.72
8/19/2006 9:53	10.536	4.20217	0.122085	1147.6
8/19/2006 9:53	10.536	4.20217	0.24417	1147.6
8/19/2006 9:53	10.536	4.20217	0.488341	1161.03
8/19/2006 9:54	10.536	4.20217	0.488341	1154.93
8/19/2006 9:54	10.536	4.20217	0.366256	1164.69
8/19/2006 9:54	10.536	4.20217	0.24417	1251.37
8/19/2006 9:54	10.536	4.20217	0	1207.42
8/19/2006 9:55	10.536	4.20217	0.122085	1206.2
8/19/2006 9:55	10.4352	4.20217	0.488341	1202.54
8/19/2006 9:55	10.4352	4.20217	0.610426	1192.77
8/19/2006 9:55	10.4352	4.20217	0.24417	1204.98
8/19/2006 9:56	10.4352	4.20217	0	1201.32
8/19/2006 9:56	10.4352	4.20217	0.122085	1207.42
8/19/2006 9:56	10.4352	4.30472	0.24417	1213.53
8/19/2006 9:56	10.3345	4.30472	0.366256	1245.27
8/19/2006 9:57	10.3345	4.30472	0	1229.4
8/19/2006 9:57	10.3345	4.30472	0.366256	1231.84
8/19/2006 9:57	10.3345	4.30472	0.122085	1226.96
8/19/2006 9:57	10.3345	4.30472	0.610426	1236.72
8/19/2006 9:58	10.3345	4.30472	0.366256	1231.84
8/19/2006 9:58	10.3345	4.30472	0.488341	1236.72
8/19/2006 9:58	10.3345	4.30472	0.122085	1240.39
8/19/2006 9:58	10.2338	4.30472	0.122085	1242.83
8/19/2006 9:59	10.2338	4.30472	0.24417	1252.59
8/19/2006 9:59	10.2338	4.30472	0.366256	1251.37
8/19/2006 9:59	10.2338	4.30472	0.610426	1259.92
8/19/2006 9:59	10.2338	4.30472	0.122085	1258.7
8/19/2006 10:00	10.2338	4.30472	0.122085	1266.02
8/19/2006 10:00	10.2338	4.30472	0.24417	1268.47
8/19/2006 10:00	10.2338	4.30472	0.366256	1268.47
8/19/2006 10:00	10.2338	4.30472	0.122085	1272.13
8/19/2006 10:01	10.2338	4.30472	0.122085	1285.56

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:01	10.2338	4.30472	0.122085	1283.12
8/19/2006 10:01	10.127	4.30472	0	1279.45
8/19/2006 10:01	10.127	4.30472	0.122085	1289.22
8/19/2006 10:02	10.127	4.30472	0.366256	1295.32
8/19/2006 10:02	10.127	4.30472	0.610426	1298.99
8/19/2006 10:02	10.127	4.30472	0.366256	1306.31
8/19/2006 10:02	10.127	4.30472	0.24417	1336.83
8/19/2006 10:03	10.127	4.30472	12.5748	1373.46
8/19/2006 10:03	10.0262	4.15578	16.7257	1361.25
8/19/2006 10:03	10.2643	3.59419	8.17971	1556.59
8/19/2006 10:03	10.6977	3.59419	1.95336	1593.21
8/19/2006 10:04	10.6977	3.69674	2.07545	1621.29
8/19/2006 10:04	10.6977	3.90184	6.5926	1606.64
8/19/2006 10:04	10.6977	3.90184	4.88341	1604.2
8/19/2006 10:04	11.1647	3.79685	2.4417	1518.74
8/19/2006 10:05	11.3936	3.79685	0.732511	1439.38
8/19/2006 10:05	11.4974	3.79685	0.732511	1380.78
8/19/2006 10:05	11.3844	4.00195	0.488341	1317.3
8/19/2006 10:05	11.3844	4.00195	0.610426	1284.34
8/19/2006 10:06	11.4913	4.00195	1.09877	1247.71
8/19/2006 10:06	11.4913	4.00195	0.976682	1219.63
8/19/2006 10:06	11.5981	4.10206	0.610426	1201.32
8/19/2006 10:06	11.4974	4.20706	0.366256	1197.66
8/19/2006 10:07	11.2837	4.20706	0.24417	1187.89
8/19/2006 10:07	11.2837	4.20706	0.488341	1179.34
8/19/2006 10:07	11.183	4.30717	0.366256	1184.23
8/19/2006 10:07	11.0792	4.40728	0.122085	1178.12
8/19/2006 10:08	10.9785	4.40728	0.24417	1173.24
8/19/2006 10:08	10.9785	4.40728	0.488341	1180.56
8/19/2006 10:08	10.9785	4.40728	0.610426	1180.56
8/19/2006 10:08	11.0792	4.40728	0.488341	1173.24
8/19/2006 10:09	11.18	4.30717	0.732511	1165.91
8/19/2006 10:09	11.2807	4.30717	0.366256	1157.37
8/19/2006 10:09	11.2807	4.30717	0.488341	1146.38
8/19/2006 10:09	11.2807	4.20706	0.24417	1152.48
8/19/2006 10:10	11.3814	4.20706	0.122085	1136.61
8/19/2006 10:10	11.3814	4.20706	0.610426	1130.51
8/19/2006 10:10	11.4821	4.20706	0.488341	1141.5
8/19/2006 10:10	11.4821	4.20706	0.24417	1129.29
8/19/2006 10:11	11.4821	4.20706	0.488341	1139.06
8/19/2006 10:11	11.4821	4.20706	0.122085	1140.28
8/19/2006 10:11	11.3814	4.20706	0.488341	1137.83
8/19/2006 10:11	11.3814	4.20706	0.122085	1176.9
8/19/2006 10:12	11.3814	4.20706	0.366256	1168.36

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:12	11.3814	4.20706	0.24417	1163.47
8/19/2006 10:12	11.3814	4.20706	0.122085	1161.03
8/19/2006 10:12	11.3814	4.20706	0.488341	1170.8
8/19/2006 10:13	11.3814	4.20706	0.366256	1165.91
8/19/2006 10:13	11.3814	4.20706	0.24417	1174.46
8/19/2006 10:13	11.3814	4.20706	0.488341	1192.77
8/19/2006 10:13	11.3814	4.20706	0.488341	1191.55
8/19/2006 10:14	11.3814	4.20706	0.122085	1189.11
8/19/2006 10:14	11.3814	4.20706	0.488341	1203.76
8/19/2006 10:14	11.3814	4.20706	0.122085	1195.21
8/19/2006 10:14	11.3814	4.20706	0.488341	1200.1
8/19/2006 10:15	11.3814	4.20706	0.24417	1208.64
8/19/2006 10:15	11.3814	4.20706	0.122085	1222.07
8/19/2006 10:15	11.3814	4.20706	0.366256	1230.62
8/19/2006 10:15	11.2776	4.20706	0	1222.07
8/19/2006 10:16	11.2776	4.20706	0.24417	1226.96
8/19/2006 10:16	11.2776	4.20706	0.610426	1233.06
8/19/2006 10:16	11.2776	4.20706	0.24417	1234.28
8/19/2006 10:16	11.3814	4.10206	0.366256	1234.28
8/19/2006 10:17	11.5889	4.10206	0.732511	1233.06
8/19/2006 10:17	11.6897	4.00195	0.24417	1215.97
8/19/2006 10:17	11.6897	4.00195	0.488341	1233.06
8/19/2006 10:17	11.4882	4.10206	0.24417	1240.39
8/19/2006 10:18	11.3814	4.20461	0.122085	1261.14
8/19/2006 10:18	11.2746	4.30472	0.24417	1267.24
8/19/2006 10:18	11.1738	4.30472	0.488341	1284.34
8/19/2006 10:18	11.1738	4.30472	0	1296.54
8/19/2006 10:19	11.0731	4.30472	0	1302.65
8/19/2006 10:19	11.0731	4.30472	0.488341	1324.62
8/19/2006 10:19	11.0731	4.30472	0.366256	1327.07
8/19/2006 10:19	11.0731	4.30472	0.122085	1320.96
8/19/2006 10:20	11.0731	4.30472	0.488341	1323.4
8/19/2006 10:20	11.0731	4.30472	0.24417	1330.73
8/19/2006 10:20	10.9694	4.30472	0.24417	1336.83
8/19/2006 10:20	10.9694	4.30472	0.122085	1342.94
8/19/2006 10:21	10.9694	4.30472	0.610426	1341.72
8/19/2006 10:21	10.9694	4.30472	0.122085	1352.7
8/19/2006 10:21	10.9694	4.30472	0.366256	1351.48
8/19/2006 10:21	10.9694	4.40483	0.24417	1344.16
8/19/2006 10:22	10.9694	4.40483	0.488341	1356.37
8/19/2006 10:22	10.9694	4.40483	0.366256	1349.04
8/19/2006 10:22	10.9694	4.40483	0	1356.37
8/19/2006 10:22	10.9694	4.40483	0.366256	1363.69
8/19/2006 10:23	10.9694	4.40483	0.488341	1360.03

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:23	10.9694	4.40483	0.24417	1353.93
8/19/2006 10:23	10.9694	4.40483	0.122085	1371.02
8/19/2006 10:23	10.8656	4.40483	0.488341	1371.02
8/19/2006 10:24	10.8656	4.40483	0.122085	1358.81
8/19/2006 10:24	10.8656	4.40483	0.488341	1375.9
8/19/2006 10:24	10.8656	4.40483	0.122085	1364.91
8/19/2006 10:24	10.8656	4.40483	0.366256	1369.8
8/19/2006 10:25	10.7618	4.40483	0.24417	1378.34
8/19/2006 10:25	10.7618	4.40483	0.366256	1375.9
8/19/2006 10:25	10.7618	4.40483	0.122085	1380.78
8/19/2006 10:25	10.7618	4.40483	0.366256	1382
8/19/2006 10:26	10.7618	4.40483	0.366256	1385.67
8/19/2006 10:26	10.7618	4.40483	0.24417	1380.78
8/19/2006 10:26	10.7618	4.40483	0.122085	1385.67
8/19/2006 10:26	10.6611	4.40483	0.488341	1391.77
8/19/2006 10:27	10.6611	4.40483	0.122085	1397.88
8/19/2006 10:27	10.6611	4.40483	0.488341	1403.98
8/19/2006 10:27	10.6611	4.40483	0	1399.1
8/19/2006 10:27	10.6611	4.40483	0.610426	1403.98
8/19/2006 10:28	10.6611	4.40483	0	1395.43
8/19/2006 10:28	10.6611	4.50494	0.366256	1412.53
8/19/2006 10:28	10.6611	4.50494	0.488341	1412.53
8/19/2006 10:28	10.6611	4.50494	0.488341	1419.85
8/19/2006 10:29	10.6611	4.50494	0.366256	1405.2
8/19/2006 10:29	10.6611	4.50494	0.24417	1432.06
8/19/2006 10:29	10.6611	4.50494	0.122085	1423.51
8/19/2006 10:29	10.6611	4.50494	0.122085	1429.62
8/19/2006 10:30	10.5604	4.50494	0.366256	1441.83
8/19/2006 10:30	10.5604	4.50494	0.488341	1449.15
8/19/2006 10:30	10.5604	4.50494	0.488341	1452.81
8/19/2006 10:30	10.5604	4.50494	0.610426	1446.71
8/19/2006 10:31	10.5604	4.50494	0.610426	1451.59
8/19/2006 10:31	10.5604	4.50494	0.366256	1454.03
8/19/2006 10:31	10.5604	4.50494	0.488341	1445.49
8/19/2006 10:31	10.5604	4.50494	0	1455.26
8/19/2006 10:32	10.4597	4.50494	0.488341	1466.24
8/19/2006 10:32	10.4597	4.50494	0.122085	1460.14
8/19/2006 10:32	10.4597	4.50494	0.366256	1469.91
8/19/2006 10:32	10.4597	4.50494	0.122085	1469.91
8/19/2006 10:33	10.4597	4.50494	0.366256	1474.79
8/19/2006 10:33	10.4597	4.50494	0.24417	1493.1
8/19/2006 10:33	10.4597	4.50494	0.122085	1483.34
8/19/2006 10:33	10.4597	4.50494	0	1493.1
8/19/2006 10:34	10.4597	4.50494	0.366256	1501.65

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:34	10.4597	4.50494	0.488341	1500.43
8/19/2006 10:34	10.4597	4.50494	0.122085	1497.99
8/19/2006 10:34	10.3589	4.50494	0.366256	1507.75
8/19/2006 10:35	10.3589	4.50494	0.488341	1552.92
8/19/2006 10:35	10.3589	4.50494	0.122085	1540.72
8/19/2006 10:35	10.3589	4.50494	0.488341	1541.94
8/19/2006 10:35	10.3589	4.50494	0.366256	1532.17
8/19/2006 10:36	10.3589	4.50494	0.24417	1533.39
8/19/2006 10:36	10.3589	4.50494	0.24417	1588.33
8/19/2006 10:36	10.3589	4.50494	0.488341	1570.02
8/19/2006 10:36	10.3589	4.50494	0.610426	1633.5
8/19/2006 10:37	10.3589	4.50494	0.24417	1701.87
8/19/2006 10:37	10.3589	4.50494	0.24417	1687.22
8/19/2006 10:37	10.3589	4.50494	0.610426	1657.92
8/19/2006 10:37	10.3589	4.50494	0.24417	1637.16
8/19/2006 10:38	10.2582	4.50494	0.366256	1671.35
8/19/2006 10:38	10.2582	4.50494	0.122085	1660.36
8/19/2006 10:38	10.2582	4.50494	0.610426	1653.03
8/19/2006 10:38	10.2582	4.50494	0.122085	1637.16
8/19/2006 10:39	10.2582	4.50494	0.488341	1635.94
8/19/2006 10:39	10.2582	4.50494	0.24417	1693.32
8/19/2006 10:39	10.2582	4.50494	0.24417	1681.11
8/19/2006 10:39	10.2582	4.50494	0.488341	1684.78
8/19/2006 10:40	10.1514	4.50494	0.24417	1676.23
8/19/2006 10:40	10.1514	4.50494	0.488341	1677.45
8/19/2006 10:40	10.1514	4.50494	0.122085	1701.87
8/19/2006 10:40	10.1514	4.50494	0.488341	1690.88
8/19/2006 10:41	10.1514	4.50494	0.122085	1701.87
8/19/2006 10:41	10.1514	4.50494	0.488341	1693.32
8/19/2006 10:41	10.1514	4.50494	0.122085	1705.53
8/19/2006 10:41	10.1514	4.50494	0.488341	1701.87
8/19/2006 10:42	10.1514	4.50494	0.366256	1706.75
8/19/2006 10:42	10.1514	4.50494	0.122085	1704.31
8/19/2006 10:42	10.1514	4.50494	0.122085	1709.19
8/19/2006 10:42	10.1514	4.50494	0.122085	1711.63
8/19/2006 10:43	10.1514	4.50494	0.366256	1704.31
8/19/2006 10:43	10.1514	4.50494	0.610426	1707.97
8/19/2006 10:43	10.1514	4.50494	0.488341	1743.38
8/19/2006 10:43	10.1514	4.50494	0.122085	1722.62
8/19/2006 10:44	10.1514	4.50494	0	1714.08
8/19/2006 10:44	10.1514	4.50494	0.122085	1728.73
8/19/2006 10:44	10.0507	4.50494	0.24417	1744.6
8/19/2006 10:44	10.0507	4.50494	0.488341	1748.26
8/19/2006 10:45	10.0507	4.50494	0	1761.69

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:45	10.0507	4.50494	0.24417	1776.34
8/19/2006 10:45	10.0507	4.50494	0.488341	1767.79
8/19/2006 10:45	10.0507	4.50494	0.610426	1765.35
8/19/2006 10:46	10.0507	4.50494	0.488341	1762.91
8/19/2006 10:46	10.0507	4.50494	0.366256	1753.14
8/19/2006 10:46	10.0507	4.50494	0.366256	1755.59
8/19/2006 10:46	10.0507	4.50494	0.366256	1749.48
8/19/2006 10:47	10.0507	4.50494	0.122085	1754.36
8/19/2006 10:47	10.0507	4.50494	0.24417	1766.57
8/19/2006 10:47	10.0507	4.50494	0.366256	1790.99
8/19/2006 10:47	9.94689	4.50494	0.488341	1770.24
8/19/2006 10:48	9.94689	4.50494	0	1780
8/19/2006 10:48	9.94689	4.60505	0.366256	1778.78
8/19/2006 10:48	9.94689	4.60505	0.366256	1766.57
8/19/2006 10:48	9.84312	4.60505	0	1825.17
8/19/2006 10:49	9.84312	4.60505	0.488341	1822.73
8/19/2006 10:49	9.84312	4.60505	0.122085	1820.29
8/19/2006 10:49	9.84312	4.60505	0.122085	1861.8
8/19/2006 10:49	9.84312	4.60505	0.366256	1831.28
8/19/2006 10:50	9.84312	4.60505	0.122085	1817.85
8/19/2006 10:50	9.84312	4.60505	0.366256	1810.52
8/19/2006 10:50	9.84312	4.60505	0.24417	1800.76
8/19/2006 10:50	9.84312	4.5025	0.122085	1784.89
8/19/2006 10:51	9.84312	4.5025	0.366256	1788.55
8/19/2006 10:51	9.84312	4.5025	0	1767.79
8/19/2006 10:51	9.84312	4.5025	0.488341	1773.9
8/19/2006 10:51	9.84312	4.5025	0.366256	1844.71
8/19/2006 10:52	9.84312	4.5025	0.122085	2395.31
8/19/2006 10:52	9.84312	4.40239	0.610426	2508.85
8/19/2006 10:52	9.94384	4.40239	0	2533.27
8/19/2006 10:52	9.94384	4.40239	0.366256	2438.04
8/19/2006 10:53	9.94384	4.40239	0	2549.14
8/19/2006 10:53	9.94384	4.40239	0.488341	3422.05
8/19/2006 10:53	9.94384	4.40239	0.122085	2987.43
8/19/2006 10:53	9.94384	4.40239	0	2627.27
8/19/2006 10:54	9.94384	4.40239	0.488341	2344.04
8/19/2006 10:54	9.94384	4.40239	0.122085	2220.73
8/19/2006 10:54	9.94384	4.40239	0.610426	2405.08
8/19/2006 10:54	9.94384	4.40239	0	2290.32
8/19/2006 10:55	9.83702	4.40239	0.24417	2230.5
8/19/2006 10:55	9.83702	4.40239	0.366256	2159.69
8/19/2006 10:55	9.83702	4.40239	0.122085	2092.54
8/19/2006 10:55	9.83702	4.40239	0.122085	2062.02
8/19/2006 10:56	9.83702	4.40239	0.24417	2062.02

John Zinc Inlet Raw Data
Run 2

8/19/2006 10:56	9.83702	4.40239	0.488341	2094.98
8/19/2006 10:56	9.83702	4.40239	0.24417	2019.29
8/19/2006 10:56	9.83702	4.40239	0	2092.54
8/19/2006 10:57	9.83702	4.40239	0.24417	2163.35
8/19/2006 10:57	9.73324	4.40239	0.488341	2110.85
8/19/2006 10:57	9.73324	4.40239	0.488341	2055.92
8/19/2006 10:57	9.73324	4.40239	0.488341	2029.06
8/19/2006 10:58	9.73324	4.40239	0.488341	2014.41
8/19/2006 10:58	9.73324	4.40239	0.366256	2007.08
8/19/2006 10:58	9.73324	4.40239	0.24417	2051.03
8/19/2006 10:58	9.73324	4.40239	0.122085	2073.01
8/19/2006 10:59	9.73324	4.40239	-0.12209	2218.29
8/19/2006 10:59	9.63252	4.40239	0	2167.01
8/19/2006 10:59	9.63252	4.40239	0.122085	2090.1
8/19/2006 10:59	9.63252	4.40239	0.122085	2066.9
8/19/2006 11:00	9.63252	4.40239	0.24417	2025.39
8/19/2006 11:00	9.63252	4.40239	0.488341	2013.19
8/19/2006 11:00	9.63252	4.40239	0.366256	2015.63
8/19/2006 11:00	9.63252	4.40239	0.24417	1991.21
8/19/2006 11:01	9.63252	4.40239	0.24417	1992.43
8/19/2006 11:01	9.63252	4.40239	0.24417	1994.87
8/19/2006 11:01	9.52265	4.40239	0.24417	1985.11
8/19/2006 11:01	9.52265	4.40239	0.122085	1964.35
8/19/2006 11:02	9.52265	4.40239	0.122085	1948.48
8/19/2006 11:02	9.52265	4.40239	0.122085	1924.06
8/19/2006 11:02	9.52265	4.40239	0	1924.06
8/19/2006 11:02	9.52265	4.40239	0	1935.05
8/19/2006 11:03	9.52265	4.40239	0	1933.83
8/19/2006 11:03	9.52265	4.40239	0.122085	1932.61
8/19/2006 11:03	9.52265	4.40239	0	1920.4
8/19/2006 11:03	9.52265	4.40239	0	1915.52
8/19/2006 11:04	9.52265	4.40239	0	1915.52
8/19/2006 11:04	9.52265	4.40239	0	1914.3
8/19/2006 11:04	9.52265	4.40239	0.366256	1904.53
8/19/2006 11:04	9.42193	4.40239	0.24417	1943.6
8/19/2006 11:05	9.42193	4.40239	0	1927.73
8/19/2006 11:05	9.42193	4.40239	0	1926.5
8/19/2006 11:05	9.42193	4.40239	0.24417	1955.81
8/19/2006 11:05	9.42193	4.40239	0.488341	1968.01
8/19/2006 11:06	9.42193	4.40239	0.24417	1979
8/19/2006 11:06	9.42193	4.40239	0.24417	1991.21
8/19/2006 11:06	9.42193	4.40239	0.488341	1979
8/19/2006 11:06	9.42193	4.40239	0.122085	1974.12
8/19/2006 11:07	9.42193	4.40239	0.24417	1968.01

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:07	9.42193	4.40239	0.122085	1981.44
8/19/2006 11:07	9.42193	4.40239	0.24417	1974.12
8/19/2006 11:07	9.32121	4.40239	0.122085	1960.69
8/19/2006 11:08	9.32121	4.40239	0.366256	1974.12
8/19/2006 11:08	9.32121	4.40239	0	1960.69
8/19/2006 11:08	9.32121	4.40239	0.366256	1987.55
8/19/2006 11:08	9.32121	4.40239	0.24417	1960.69
8/19/2006 11:09	9.32121	4.40239	0.122085	1961.91
8/19/2006 11:09	9.32121	4.40239	0	1965.57
8/19/2006 11:09	9.32121	4.40239	0.24417	1968.01
8/19/2006 11:09	9.32121	4.40239	0.488341	1961.91
8/19/2006 11:10	9.32121	4.40239	0	1952.14
8/19/2006 11:10	9.32121	4.40239	0.610426	1953.36
8/19/2006 11:10	9.32121	4.40239	0.366256	1949.7
8/19/2006 11:10	9.32121	4.40239	0.24417	1946.04
8/19/2006 11:11	9.32121	4.40239	0.24417	1952.14
8/19/2006 11:11	9.32121	4.40239	0.610426	1948.48
8/19/2006 11:11	9.32121	4.40239	0	1953.36
8/19/2006 11:11	9.32121	4.40239	0.488341	1960.69
8/19/2006 11:12	9.32121	4.40239	0	1959.47
8/19/2006 11:12	9.32121	4.40239	0.366256	1957.03
8/19/2006 11:12	9.32121	4.40239	0	1943.6
8/19/2006 11:12	9.32121	4.40239	0	1955.81
8/19/2006 11:13	9.32121	4.40239	0.366256	1957.03
8/19/2006 11:13	9.32121	4.40239	0.610426	1968.01
8/19/2006 11:13	9.32121	4.40239	0.366256	1959.47
8/19/2006 11:13	9.32121	4.40239	0.122085	1948.48
8/19/2006 11:14	9.32121	4.40239	0.24417	1965.57
8/19/2006 11:14	9.32121	4.40239	0.122085	1979
8/19/2006 11:14	9.32121	4.40239	0.366256	1959.47
8/19/2006 11:14	9.21743	4.40239	0.488341	1972.9
8/19/2006 11:15	9.21743	4.40239	0.610426	1969.23
8/19/2006 11:15	9.21743	4.40239	0.366256	2002.2
8/19/2006 11:15	9.21743	4.40239	0.366256	1983.88
8/19/2006 11:15	9.21743	4.40239	0.24417	1993.65
8/19/2006 11:16	9.21743	4.40239	0.122085	1989.99
8/19/2006 11:16	9.21743	4.40239	0.366256	1989.99
8/19/2006 11:16	9.21743	4.40239	0.488341	2002.2
8/19/2006 11:16	9.21743	4.40239	0.610426	1989.99
8/19/2006 11:17	9.21743	4.40239	0.366256	1989.99
8/19/2006 11:17	9.21743	4.40239	0.122085	1991.21
8/19/2006 11:17	9.11366	4.40239	0.24417	1986.33
8/19/2006 11:17	9.11366	4.40239	0.366256	1976.56
8/19/2006 11:18	9.11366	4.40239	0.122085	2004.64

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:18	9.11366	4.40239	0.488341	2000.98
8/19/2006 11:18	9.11366	4.40239	0.24417	1989.99
8/19/2006 11:18	9.11366	4.40239	0.24417	2010.74
8/19/2006 11:19	9.11366	4.40239	0.488341	2010.74
8/19/2006 11:19	9.11366	4.40239	0	2007.08
8/19/2006 11:19	9.11366	4.40239	0.488341	2007.08
8/19/2006 11:19	9.11366	4.40239	0.24417	2005.86
8/19/2006 11:20	9.11366	4.40239	0.366256	1999.76
8/19/2006 11:20	9.11366	4.40239	0.488341	2005.86
8/19/2006 11:20	9.11366	4.40239	0.366256	2005.86
8/19/2006 11:20	9.11366	4.40239	0	2002.2
8/19/2006 11:21	9.11366	4.40239	0.488341	1998.53
8/19/2006 11:21	9.11366	4.40239	0.24417	2016.85
8/19/2006 11:21	9.11366	4.40239	0.24417	2019.29
8/19/2006 11:21	9.11366	4.40239	0.366256	2011.96
8/19/2006 11:22	9.11366	4.40239	0.24417	2009.52
8/19/2006 11:22	9.11366	4.40239	0.366256	2005.86
8/19/2006 11:22	9.11366	4.40239	0.24417	2044.93
8/19/2006 11:22	9.11366	4.40239	0.122085	2031.5
8/19/2006 11:23	9.11366	4.40239	0.24417	2025.39
8/19/2006 11:23	9.11366	4.40239	0.366256	2038.82
8/19/2006 11:23	9.11366	4.40239	0.854597	2032.72
8/19/2006 11:23	9.11366	4.0166	1.09877	2033.94
8/19/2006 11:30	9.31815	4.32182	0.610426	2109.63
8/19/2006 11:30	9.21743	4.32182	0.24417	2103.53
8/19/2006 11:30	9.11366	4.42193	0.366256	2103.53
8/19/2006 11:30	9.11366	4.42193	0.488341	2093.76
8/19/2006 11:31	9.11366	4.42193	0.488341	2123.06
8/19/2006 11:31	9.01294	4.42193	0.366256	2101.09
8/19/2006 11:31	9.01294	4.42193	0.366256	2109.63
8/19/2006 11:31	9.01294	4.42193	0.610426	2101.09
8/19/2006 11:32	9.01294	4.42193	0.122085	2102.31
8/19/2006 11:32	9.01294	4.42193	0.24417	2125.5
8/19/2006 11:32	9.01294	4.42193	0.488341	2113.3
8/19/2006 11:32	9.01294	4.42193	0.122085	2135.27
8/19/2006 11:33	9.01294	4.42193	0.366256	2132.83
8/19/2006 11:33	9.01294	4.42193	0.488341	2126.72
8/19/2006 11:33	9.01294	4.42193	0.366256	2124.28
8/19/2006 11:33	9.01294	4.42193	0	2129.17
8/19/2006 11:34	9.01294	4.42193	0.366256	2127.95
8/19/2006 11:34	9.01294	4.42193	0.610426	2125.5
8/19/2006 11:34	9.01294	4.42193	0.488341	2142.6
8/19/2006 11:34	9.01294	4.42193	0.122085	2125.5
8/19/2006 11:35	9.01294	4.42193	0.488341	2131.61

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:35	9.01294	4.42193	0.24417	2162.13
8/19/2006 11:35	8.91222	4.42193	0.366256	2141.37
8/19/2006 11:35	8.91222	4.42193	0.24417	2160.91
8/19/2006 11:36	8.91222	4.42193	0.24417	2169.45
8/19/2006 11:36	8.91222	4.42193	0.24417	2160.91
8/19/2006 11:36	8.91222	4.42193	0.488341	2170.68
8/19/2006 11:36	8.91222	4.42193	0.610426	2157.25
8/19/2006 11:37	8.91222	4.42193	0.366256	2143.82
8/19/2006 11:37	8.91222	4.42193	0.24417	2127.95
8/19/2006 11:37	8.91222	4.42193	0.366256	2141.37
8/19/2006 11:37	8.91222	4.42193	0.488341	2092.54
8/19/2006 11:38	8.91222	4.42193	0.122085	2091.32
8/19/2006 11:38	8.91222	4.42193	0.122085	2075.45
8/19/2006 11:38	8.91222	4.42193	0.488341	2052.25
8/19/2006 11:38	8.91222	4.42193	0.488341	2043.71
8/19/2006 11:39	8.91222	4.42193	0.122085	2042.49
8/19/2006 11:39	8.91222	4.42193	0.488341	2000.98
8/19/2006 11:39	8.91222	4.42193	0.122085	1982.66
8/19/2006 11:39	8.91222	4.42193	0.366256	1958.25
8/19/2006 11:40	8.91222	4.42193	0.610426	1933.83
8/19/2006 11:40	8.91222	4.42193	0.122085	1914.3
8/19/2006 11:40	8.91222	4.42193	0.610426	1904.53
8/19/2006 11:40	8.91222	4.42193	0.24417	1882.55
8/19/2006 11:41	8.91222	4.42193	0.24417	1856.92
8/19/2006 11:41	8.91222	4.42193	0.488341	1834.94
8/19/2006 11:41	8.91222	4.42193	0.366256	1822.73
8/19/2006 11:41	8.91222	4.42193	0.366256	1801.98
8/19/2006 11:42	8.91222	4.42193	0.488341	1790.99
8/19/2006 11:42	8.91222	4.42193	0.24417	1797.09
8/19/2006 11:42	8.91222	4.42193	0.610426	1770.24
8/19/2006 11:42	8.91222	4.42193	0	1749.48
8/19/2006 11:43	8.91222	4.42193	0.488341	1745.82
8/19/2006 11:43	8.91222	4.42193	0.122085	1727.51
8/19/2006 11:43	8.91222	4.42193	0.366256	1720.18
8/19/2006 11:43	8.91222	4.42193	0.122085	1750.7
8/19/2006 11:44	8.91222	4.42193	0.610426	1711.63
8/19/2006 11:44	8.91222	4.42193	0.122085	1688.44
8/19/2006 11:44	8.91222	4.42193	0.366256	1681.11
8/19/2006 11:44	8.91222	4.42193	0.366256	1668.9
8/19/2006 11:45	8.91222	4.42193	0.366256	1665.24
8/19/2006 11:45	8.91222	4.42193	0.122085	1650.59
8/19/2006 11:45	8.91222	4.42193	0.488341	1653.03
8/19/2006 11:45	8.91222	4.42193	0	1633.5
8/19/2006 11:46	8.91222	4.42193	0.610426	1629.84

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:46	8.91222	4.42193	0.122085	1607.86
8/19/2006 11:46	8.91222	4.42193	0.122085	1600.54
8/19/2006 11:46	8.91222	4.42193	0.24417	1602.98
8/19/2006 11:47	9.01294	4.42193	0.488341	1591.99
8/19/2006 11:47	9.01294	4.42193	0.24417	1590.77
8/19/2006 11:47	9.01294	4.42193	0.122085	1579.78
8/19/2006 11:47	9.01294	4.42193	0.24417	1573.68
8/19/2006 11:48	9.01294	4.42193	0.488341	1574.9
8/19/2006 11:48	9.01294	4.42193	0	1562.69
8/19/2006 11:48	9.01294	4.42193	0.488341	1571.24
8/19/2006 11:48	9.01294	4.42193	0.122085	1557.81
8/19/2006 11:49	9.01294	4.42193	0	1563.91
8/19/2006 11:49	9.01294	4.42193	0.122085	1555.37
8/19/2006 11:49	9.01294	4.42193	0.366256	1555.37
8/19/2006 11:49	9.01294	4.42193	0	1540.72
8/19/2006 11:50	9.01294	4.42193	0.488341	1551.7
8/19/2006 11:50	9.01294	4.42193	0.122085	1545.6
8/19/2006 11:50	9.01294	4.42193	0.366256	1544.38
8/19/2006 11:50	9.01294	4.42193	0.488341	1534.61
8/19/2006 11:51	9.01294	4.42193	0.366256	1534.61
8/19/2006 11:51	9.01294	4.42193	0.122085	1540.72
8/19/2006 11:51	9.01294	4.42193	0.122085	1533.39
8/19/2006 11:51	9.01294	4.42193	0.366256	1539.49
8/19/2006 11:52	9.01294	4.42193	0.366256	1539.49
8/19/2006 11:52	9.01294	4.42193	0.488341	1538.27
8/19/2006 11:52	9.01294	4.42193	0.24417	1538.27
8/19/2006 11:52	9.01294	4.42193	0.24417	1529.73
8/19/2006 11:53	9.01294	4.42193	0.122085	1522.4
8/19/2006 11:53	9.01294	4.42193	0.366256	1524.84
8/19/2006 11:53	9.01294	4.42193	0.122085	1521.18
8/19/2006 11:53	9.01294	4.42193	0.488341	1522.4
8/19/2006 11:54	9.01294	4.42193	0.122085	1523.62
8/19/2006 11:54	9.11366	4.42193	0.610426	1519.96
8/19/2006 11:54	9.11366	4.42193	0.122085	1507.75
8/19/2006 11:54	9.11366	4.42193	0.488341	1515.08
8/19/2006 11:55	9.11366	4.42193	0.122085	1511.41
8/19/2006 11:55	9.11366	4.42193	0.488341	1528.51
8/19/2006 11:55	9.11366	4.42193	0.366256	1518.74
8/19/2006 11:55	9.11366	4.42193	0.122085	1518.74
8/19/2006 11:56	9.11366	4.42193	0.366256	1538.27
8/19/2006 11:56	9.11366	4.42193	0.488341	1527.29
8/19/2006 11:56	9.11366	4.42193	0.122085	1524.84
8/19/2006 11:56	9.11366	4.42193	0.366256	1530.95
8/19/2006 11:57	9.11366	4.42193	0.488341	1527.29

John Zinc Inlet Raw Data
Run 2

8/19/2006 11:57	9.11366	4.42193	0.122085	1518.74
8/19/2006 11:57	9.11366	4.42193	0.24417	1516.3
8/19/2006 11:57	9.11366	4.42193	0.488341	1522.4
8/19/2006 11:58	9.11366	4.42193	0.122085	1511.41
8/19/2006 11:58	9.01294	4.42193	0.488341	1519.96
8/19/2006 11:58	9.01294	4.42193	0.366256	1507.75
8/19/2006 11:58	9.01294	4.42193	0.122085	1506.53
8/19/2006 11:59	9.01294	4.42193	0.610426	1512.64
8/19/2006 11:59	9.01294	4.42193	0.24417	1512.64
8/19/2006 11:59	9.01294	4.42193	0.122085	1522.4
8/19/2006 11:59	9.01294	4.42193	0.24417	1517.52
8/19/2006 12:00	9.01294	4.42193	0.366256	1510.19
8/19/2006 12:00	9.01294	4.42193	0.122085	1501.65
8/19/2006 12:00	9.01294	4.42193	0.24417	1516.3
8/19/2006 12:00	9.11366	4.42193	0.24417	1522.4
8/19/2006 12:01	9.11366	4.42193	0.488341	1508.97
8/19/2006 12:01	9.11366	4.42193	0.488341	1513.86
8/19/2006 12:01	9.11366	4.42193	0.488341	1513.86
8/19/2006 12:01	9.11366	4.42193	0.366256	1511.41
8/19/2006 12:02	9.11366	4.42193	0.122085	1502.87
8/19/2006 12:02	9.11366	4.42193	0.122085	1504.09
8/19/2006 12:02	9.11366	4.42193	0	1515.08
8/19/2006 12:02	9.11366	4.42193	0	1502.87
8/19/2006 12:03	9.11366	4.42193	0.610426	1506.53
8/19/2006 12:03	9.21743	4.42193	0	1512.64
8/19/2006 12:03	9.21743	4.42193	0.488341	1513.86
8/19/2006 12:03	9.21743	4.42193	0.366256	1497.99
8/19/2006 12:04	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:04	9.21743	4.42193	0	1502.87
8/19/2006 12:04	9.21743	4.42193	0	1502.87
8/19/2006 12:04	9.21743	4.42193	0.122085	1502.87
8/19/2006 12:05	9.21743	4.42193	0.122085	1513.86
8/19/2006 12:05	9.21743	4.42193	0.366256	1511.41
8/19/2006 12:05	9.21743	4.42193	0.24417	1505.31
8/19/2006 12:05	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:06	9.21743	4.42193	0.122085	1506.53
8/19/2006 12:06	9.21743	4.42193	0.366256	1512.64
8/19/2006 12:06	9.21743	4.42193	0.366256	1518.74
8/19/2006 12:06	9.21743	4.42193	0.366256	1505.31
8/19/2006 12:07	9.21743	4.42193	0	1496.76
8/19/2006 12:07	9.21743	4.42193	0.488341	1517.52
8/19/2006 12:07	9.21743	4.42193	0.24417	1506.53
8/19/2006 12:07	9.21743	4.42193	0.488341	1502.87
8/19/2006 12:08	9.21743	4.42193	0.122085	1499.21

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:08	9.21743	4.42193	0.122085	1491.88
8/19/2006 12:08	9.21743	4.42193	0.122085	1495.54
8/19/2006 12:08	9.21743	4.42193	0.122085	1497.99
8/19/2006 12:09	9.21743	4.42193	0.122085	1495.54
8/19/2006 12:09	9.21743	4.42193	0.366256	1508.97
8/19/2006 12:09	9.21743	4.42193	0.488341	1501.65
8/19/2006 12:09	9.21743	4.42193	0.24417	1488.22
8/19/2006 12:10	9.21743	4.42193	0.366256	1504.09
8/19/2006 12:10	9.21743	4.42193	0.24417	1493.1
8/19/2006 12:10	9.21743	4.42193	0.366256	1496.76
8/19/2006 12:10	9.21743	4.42193	0.610426	1504.09
8/19/2006 12:11	9.21743	4.42193	0.488341	1494.32
8/19/2006 12:11	9.21743	4.42193	0.122085	1494.32
8/19/2006 12:11	9.21743	4.42193	0.366256	1501.65
8/19/2006 12:11	9.21743	4.42193	0.488341	1499.21
8/19/2006 12:12	9.21743	4.42193	0.24417	1493.1
8/19/2006 12:12	9.21743	4.42193	0.122085	1491.88
8/19/2006 12:12	9.21743	4.42193	0.610426	1504.09
8/19/2006 12:12	9.21743	4.42193	0.610426	1507.75
8/19/2006 12:13	9.21743	4.42193	0.366256	1493.1
8/19/2006 12:13	9.31815	4.42193	0.122085	1497.99
8/19/2006 12:13	9.31815	4.42193	0.24417	1495.54
8/19/2006 12:13	9.31815	4.42193	0.488341	1497.99
8/19/2006 12:14	9.31815	4.42193	0.366256	1494.32
8/19/2006 12:14	9.31815	4.42193	0	1491.88
8/19/2006 12:14	9.31815	4.42193	0.122085	1490.66
8/19/2006 12:14	9.31815	4.42193	0.24417	1490.66
8/19/2006 12:15	9.31815	4.42193	0.610426	1485.78
8/19/2006 12:15	9.31815	4.42193	0.488341	1494.32
8/19/2006 12:15	9.31815	4.42193	0.488341	1490.66
8/19/2006 12:15	9.31815	4.42193	0.488341	1488.22
8/19/2006 12:16	9.31815	4.42193	0.366256	1491.88
8/19/2006 12:16	9.31815	4.42193	0.122085	1485.78
8/19/2006 12:16	9.31815	4.42193	0.366256	1488.22
8/19/2006 12:16	9.31815	4.42193	0.366256	1478.45
8/19/2006 12:17	9.31815	4.42193	0.122085	1482.11
8/19/2006 12:17	9.31815	4.42193	0.24417	1478.45
8/19/2006 12:17	9.31815	4.42193	0.610426	1484.56
8/19/2006 12:17	9.31815	4.42193	0.122085	1480.89
8/19/2006 12:18	9.31815	4.42193	0.366256	1474.79
8/19/2006 12:18	9.31815	4.42193	0.122085	1479.67
8/19/2006 12:18	9.31815	4.42193	0.24417	1472.35
8/19/2006 12:18	9.31815	4.42193	0.488341	1491.88
8/19/2006 12:19	9.31815	4.42193	0.24417	1491.88

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:19	9.31815	4.42193	0.366256	1484.56
8/19/2006 12:19	9.31815	4.42193	0.122085	1483.34
8/19/2006 12:19	9.31815	4.42193	0.610426	1494.32
8/19/2006 12:20	9.31815	4.42193	0.24417	1489.44
8/19/2006 12:20	9.31815	4.42193	0.122085	1488.22
8/19/2006 12:20	9.31815	4.42193	0.366256	1497.99
8/19/2006 12:20	9.31815	4.42193	0.24417	1505.31
8/19/2006 12:21	9.31815	4.42193	0.366256	1499.21
8/19/2006 12:21	9.42803	4.42193	0.610426	1502.87
8/19/2006 12:21	9.42803	4.42193	0	1491.88
8/19/2006 12:21	9.42803	4.42193	0.366256	1493.1
8/19/2006 12:22	9.42803	4.42193	0.488341	1491.88
8/19/2006 12:22	9.42803	4.42193	0.122085	1502.87
8/19/2006 12:22	9.42803	4.42193	0.488341	1508.97
8/19/2006 12:22	9.42803	4.42193	0.122085	1497.99
8/19/2006 12:23	9.42803	4.42193	0.488341	1506.53
8/19/2006 12:23	9.42803	4.42193	0.122085	1508.97
8/19/2006 12:23	9.42803	4.42193	0.24417	1506.53
8/19/2006 12:23	9.42803	4.42193	0.488341	1505.31
8/19/2006 12:24	9.52875	4.42193	0.122085	1513.86
8/19/2006 12:24	9.52875	4.42193	0.610426	1518.74
8/19/2006 12:24	9.52875	4.42193	0	1511.41
8/19/2006 12:24	9.52875	4.42193	0.366256	1510.19
8/19/2006 12:25	9.52875	4.42193	0.122085	1512.64
8/19/2006 12:25	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:25	9.52875	4.42193	0.366256	1505.31
8/19/2006 12:25	9.52875	4.42193	0.122085	1513.86
8/19/2006 12:26	9.52875	4.42193	0.488341	1512.64
8/19/2006 12:26	9.52875	4.42193	0.24417	1505.31
8/19/2006 12:26	9.52875	4.42193	0.24417	1517.52
8/19/2006 12:26	9.52875	4.42193	0.610426	1513.86
8/19/2006 12:27	9.52875	4.42193	0.122085	1519.96
8/19/2006 12:27	9.52875	4.42193	0.366256	1521.18
8/19/2006 12:27	9.52875	4.42193	0.366256	1517.52
8/19/2006 12:27	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:28	9.52875	4.42193	0.122085	1506.53
8/19/2006 12:28	9.52875	4.42193	0.122085	1516.3
8/19/2006 12:28	9.52875	4.42193	0.366256	1516.3
8/19/2006 12:28	9.52875	4.42193	0.488341	1511.41
8/19/2006 12:29	9.52875	4.42193	0.24417	1510.19
8/19/2006 12:29	9.52875	4.42193	0.24417	1522.4
8/19/2006 12:29	9.52875	4.42193	0.488341	1515.08
8/19/2006 12:29	9.52875	4.42193	0.122085	1515.08
8/19/2006 12:30	9.52875	4.42193	0.366256	1526.07

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:30	9.52875	4.42193	0.122085	1527.29
8/19/2006 12:30	9.62947	4.42193	0.24417	1517.52
8/19/2006 12:30	9.62947	4.42193	0.610426	1524.84
8/19/2006 12:31	9.62947	4.42193	0.366256	1533.39
8/19/2006 12:31	9.62947	4.42193	0.24417	1528.51
8/19/2006 12:31	9.62947	4.42193	0.122085	1533.39
8/19/2006 12:31	9.62947	4.42193	0.488341	1544.38
8/19/2006 12:32	9.62947	4.42193	0	1534.61
8/19/2006 12:32	9.52875	4.42193	0.488341	1541.94
8/19/2006 12:32	9.52875	4.42193	0.488341	1545.6
8/19/2006 12:32	9.52875	4.42193	0.122085	1546.82
8/19/2006 12:33	9.52875	4.42193	0.24417	1539.49
8/19/2006 12:33	9.52875	4.42193	0.488341	1540.72
8/19/2006 12:33	9.52875	4.42193	0.24417	1545.6
8/19/2006 12:33	9.42803	4.42193	0	1537.05
8/19/2006 12:34	9.42803	4.42193	0.24417	1538.27
8/19/2006 12:34	9.42803	4.42193	0.488341	1546.82
8/19/2006 12:34	9.42803	4.42193	0.366256	1537.05
8/19/2006 12:34	9.52875	4.42193	0.122085	1534.61
8/19/2006 12:35	9.52875	4.42193	0.24417	1551.7
8/19/2006 12:35	9.52875	4.42193	0.366256	1545.6
8/19/2006 12:35	9.52875	4.42193	0.366256	1549.26
8/19/2006 12:35	9.52875	4.42193	0.366256	1552.92
8/19/2006 12:36	9.52875	4.42193	0.366256	1550.48
8/19/2006 12:36	9.52875	4.42193	0.122085	1544.38
8/19/2006 12:36	9.52875	4.42193	0.488341	1559.03
8/19/2006 12:36	9.52875	4.42193	0.24417	1552.92
8/19/2006 12:37	9.52875	4.42193	0.366256	1550.48
8/19/2006 12:37	9.52875	4.42193	0.366256	1556.59
8/19/2006 12:37	9.52875	4.42193	0.122085	1550.48
8/19/2006 12:37	9.52875	4.42193	0.488341	1555.37
8/19/2006 12:38	9.52875	4.42193	0.122085	1557.81
8/19/2006 12:38	9.52875	4.42193	0.366256	1557.81
8/19/2006 12:38	9.52875	4.42193	0.24417	1556.59
8/19/2006 12:38	9.52875	4.42193	0	1562.69
8/19/2006 12:39	9.52875	4.42193	0.610426	1568.8
8/19/2006 12:39	9.52875	4.42193	0	1560.25
8/19/2006 12:39	9.52875	4.42193	0.610426	1566.35
8/19/2006 12:39	9.52875	4.42193	0	1572.46
8/19/2006 12:40	9.52875	4.42193	0.366256	1573.68
8/19/2006 12:40	9.52875	4.42193	0.24417	1577.34
8/19/2006 12:40	9.52875	4.42193	0.122085	1560.25
8/19/2006 12:40	9.52875	4.42193	0.488341	1570.02
8/19/2006 12:41	9.52875	4.42193	0.122085	1571.24

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:41	9.52875	4.42193	0.24417	1572.46
8/19/2006 12:41	9.52875	4.42193	0.122085	1572.46
8/19/2006 12:41	9.52875	4.42193	0.24417	1570.02
8/19/2006 12:42	9.52875	4.42193	0.610426	1591.99
8/19/2006 12:42	9.52875	4.42193	0	1595.65
8/19/2006 12:42	9.52875	4.42193	0.488341	1577.34
8/19/2006 12:42	9.52875	4.42193	0.366256	1589.55
8/19/2006 12:43	9.52875	4.42193	0.24417	1583.45
8/19/2006 12:43	9.52875	4.42193	0.24417	1589.55
8/19/2006 12:43	9.52875	4.42193	0.488341	1584.67
8/19/2006 12:43	9.52875	4.42193	0.24417	1582.22
8/19/2006 12:44	9.52875	4.42193	0	1581
8/19/2006 12:44	9.62947	4.42193	0.24417	1585.89
8/19/2006 12:44	9.62947	4.42193	0.366256	1587.11
8/19/2006 12:44	9.62947	4.42193	0.366256	1582.22
8/19/2006 12:45	9.62947	4.42193	0.24417	1583.45
8/19/2006 12:45	9.62947	4.42193	0.488341	1583.45
8/19/2006 12:45	9.62947	4.42193	0.610426	1593.21
8/19/2006 12:45	9.62947	4.42193	0.488341	1604.2
8/19/2006 12:46	9.62947	4.42193	0.488341	1596.87
8/19/2006 12:46	9.62947	4.42193	0.610426	1593.21
8/19/2006 12:46	9.62947	4.42193	0.488341	1606.64
8/19/2006 12:46	9.62947	4.42193	0.488341	1606.64
8/19/2006 12:47	9.62947	4.42193	0.366256	1604.2
8/19/2006 12:47	9.62947	4.42193	0.122085	1588.33
8/19/2006 12:47	9.62947	4.42193	0.122085	1600.54
8/19/2006 12:47	9.62947	4.42193	0.610426	1605.42
8/19/2006 12:48	9.62947	4.42193	0.122085	1594.43
8/19/2006 12:48	9.62947	4.42193	0.610426	1594.43
8/19/2006 12:48	9.62947	4.42193	0.24417	1588.33
8/19/2006 12:48	9.62947	4.42193	0.366256	1600.54
8/19/2006 12:49	9.62947	4.42193	0.366256	1604.2
8/19/2006 12:49	9.62947	4.42193	0.366256	1606.64
8/19/2006 12:49	9.62947	4.42193	0.366256	1611.52
8/19/2006 12:49	9.62947	4.42193	0.24417	1621.29
8/19/2006 12:50	9.62947	4.42193	0.24417	1616.41
8/19/2006 12:50	9.62947	4.42193	0.610426	1617.63
8/19/2006 12:50	9.62947	4.42193	0.122085	1605.42
8/19/2006 12:50	9.52875	4.42193	0.24417	1615.19
8/19/2006 12:51	9.52875	4.42193	0.24417	1617.63
8/19/2006 12:51	9.52875	4.42193	0.122085	1611.52
8/19/2006 12:51	9.52875	4.42193	0.366256	1623.73
8/19/2006 12:51	9.52875	4.42193	0.488341	1649.37
8/19/2006 12:52	9.52875	4.42193	0.488341	1629.84

John Zinc Inlet Raw Data
Run 2

8/19/2006 12:52	9.62947	4.42193	0.366256	1629.84
8/19/2006 12:52	9.62947	4.42193	0.122085	1624.95
8/19/2006 12:52	9.62947	4.42193	0.24417	1631.06
8/19/2006 12:53	9.62947	4.42193	0.488341	1626.18
8/19/2006 12:53	9.62947	4.42193	0.122085	1618.85
8/19/2006 12:53	9.62947	4.42193	0.122085	1613.97
8/19/2006 12:53	9.62947	4.42193	0.366256	1632.28
8/19/2006 12:54	9.62947	4.42193	0.366256	1638.38
8/19/2006 12:54	9.62947	4.42193	0.122085	1632.28
8/19/2006 12:54	9.62947	4.42193	0.24417	1642.05
8/19/2006 12:54	9.62947	4.42193	0.366256	1635.94
8/19/2006 12:55	9.62947	4.42193	0.122085	1632.28
8/19/2006 12:55	9.62947	4.42193	0.122085	1639.6
8/19/2006 12:55	9.62947	4.42193	0.24417	1648.15
8/19/2006 12:55	9.62947	4.42193	0.366256	1645.71
8/19/2006 12:56	9.62947	4.42193	0.366256	1653.03
8/19/2006 12:56	9.62947	4.42193	0.24417	1661.58
8/19/2006 12:56	9.62947	4.42193	0.366256	1654.25
8/19/2006 12:56	9.62947	4.42193	0.610426	1667.68
8/19/2006 12:57	9.62947	4.42193	0.488341	1662.8
8/19/2006 12:57	9.62947	4.42193	0.24417	1653.03
8/19/2006 12:57	9.62947	4.42193	0.366256	1670.13
8/19/2006 12:57	9.62947	4.42193	0	1667.68
8/19/2006 12:58	9.62947	4.42193	0.24417	1682.33
8/19/2006 12:58	9.62947	4.42193	0.488341	1705.53
8/19/2006 12:58	9.62947	4.42193	0.610426	1709.19
8/19/2006 12:58	9.62947	4.42193	0.24417	1704.31
8/19/2006 12:59	9.62947	4.42193	0.24417	1705.53
8/19/2006 12:59	9.62947	4.42193	0.488341	1727.51
8/19/2006 12:59	9.62947	4.42193	0.366256	1723.84
8/19/2006 12:59	9.62947	4.42193	0.24417	1733.61
8/19/2006 13:00	9.62947	4.42193	0.366256	1733.61
8/19/2006 13:00	9.62947	4.42193	0.488341	1748.26
8/19/2006 13:00	9.62947	4.42193	0.122085	1739.71
8/19/2006 13:00	9.62947	4.42193	0.366256	1743.38
8/19/2006 13:01	9.62947	4.42193	0.610426	1733.61
8/19/2006 13:01	9.62947	4.42193	0.122085	1715.3
8/19/2006 13:01	9.62947	4.42193	0.122085	1727.51
8/19/2006 13:01	9.62947	4.42193	0.366256	1716.52
8/19/2006 13:02	9.62947	4.42193	0.122085	1711.63
8/19/2006 13:02	9.62947	4.42193	0.366256	1715.3
8/19/2006 13:02	9.62947	4.42193	0.366256	1717.74
8/19/2006 13:02	9.62947	4.42193	0.610426	1755.59
8/19/2006 13:03	9.62947	4.42193	0.24417	1744.6

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:03	9.62947	4.42193	0.122085	1743.38
8/19/2006 13:03	9.62947	4.42193	0.24417	1744.6
8/19/2006 13:03	9.62947	4.42193	0.366256	1745.82
8/19/2006 13:04	9.62947	4.42193	0.122085	1756.81
8/19/2006 13:04	9.62947	4.42193	0.366256	1764.13
8/19/2006 13:04	9.62947	4.42193	0.488341	1767.79
8/19/2006 13:04	9.62947	4.42193	0.24417	1772.68
8/19/2006 13:05	9.62947	4.42193	0.122085	1777.56
8/19/2006 13:05	9.62947	4.42193	0.366256	1771.46
8/19/2006 13:05	9.62947	4.42193	0.488341	1740.94
8/19/2006 13:05	9.62947	4.42193	0	1695.76
8/19/2006 13:06	9.62947	4.42193	0	1721.4
8/19/2006 13:06	9.62947	4.62459	0.366256	1732.39
8/19/2006 13:06	9.62947	4.73446	0.366256	1749.48
8/19/2006 13:06	9.62947	4.63435	0.122085	1744.6
8/19/2006 13:07	9.83702	4.52936	0.24417	1751.92
8/19/2006 13:07	9.93774	4.42437	0.488341	1750.7
8/19/2006 13:07	10.0446	4.42437	0.366256	1751.92
8/19/2006 13:07	10.0446	4.42437	0.366256	1756.81
8/19/2006 13:08	10.0446	4.32182	0	1756.81
8/19/2006 13:08	10.1453	4.32182	0.24417	1770.24
8/19/2006 13:08	10.1453	4.32182	0.24417	1777.56
8/19/2006 13:08	10.1453	4.32182	0.122085	1780
8/19/2006 13:09	10.1453	4.32182	0.366256	1778.78
8/19/2006 13:09	10.1453	4.32182	0.122085	1780
8/19/2006 13:09	10.1453	4.32182	0	1787.33
8/19/2006 13:09	10.1453	4.32182	0.488341	1795.87
8/19/2006 13:10	10.0446	4.32182	0.24417	1799.54
8/19/2006 13:10	10.0446	4.32182	0	1786.11
8/19/2006 13:10	10.0446	4.32182	0	1804.42
8/19/2006 13:10	10.0446	4.32182	0	1810.52
8/19/2006 13:11	10.0446	4.32182	0	1816.63
8/19/2006 13:11	10.0446	4.32182	0.24417	1819.07
8/19/2006 13:11	10.0446	4.32182	0.488341	1822.73
8/19/2006 13:11	10.0446	4.32182	0.488341	1825.17
8/19/2006 13:12	10.1514	4.32182	0	1830.06
8/19/2006 13:12	10.1514	4.32182	0	1833.72
8/19/2006 13:12	10.1514	4.32182	0.488341	1830.06
8/19/2006 13:12	10.1514	4.32182	0	1844.71
8/19/2006 13:13	10.1514	4.32182	0.122085	1841.05
8/19/2006 13:13	10.1514	4.32182	0.366256	1847.15
8/19/2006 13:13	10.1514	4.32182	0.366256	1849.59
8/19/2006 13:13	10.1514	4.32182	0	1849.59
8/19/2006 13:14	10.1514	4.32182	0.122085	1860.58

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:14	10.1514	4.32182	0.366256	1865.46
8/19/2006 13:14	10.1514	4.32182	0.24417	1872.79
8/19/2006 13:14	10.0476	4.32182	0.24417	1860.58
8/19/2006 13:15	10.0476	4.32182	0.24417	1861.8
8/19/2006 13:15	10.0476	4.32182	0.24417	1875.23
8/19/2006 13:15	10.0476	4.32182	0.488341	1877.67
8/19/2006 13:15	10.0476	4.32182	0.366256	1870.35
8/19/2006 13:16	10.0476	4.32182	0.366256	1878.89
8/19/2006 13:16	10.0476	4.32182	0.122085	1878.89
8/19/2006 13:16	10.0476	4.32182	0.366256	1881.33
8/19/2006 13:16	10.1483	4.32182	0.122085	1885
8/19/2006 13:17	10.1483	4.32182	0.488341	1895.98
8/19/2006 13:17	10.1483	4.32182	0.122085	1893.54
8/19/2006 13:17	10.1483	4.32182	0.366256	1895.98
8/19/2006 13:17	10.1483	4.32182	0.366256	1903.31
8/19/2006 13:18	10.1483	4.32182	0.122085	1902.09
8/19/2006 13:18	10.1483	4.32182	0.488341	1906.97
8/19/2006 13:18	10.1483	4.32182	0.122085	1911.85
8/19/2006 13:18	10.1483	4.32182	0.488341	1911.85
8/19/2006 13:19	10.1483	4.32182	0.24417	1914.3
8/19/2006 13:19	10.1483	4.32182	0.122085	1928.95
8/19/2006 13:19	10.1483	4.32182	0.488341	1926.5
8/19/2006 13:19	10.1483	4.32182	0.488341	1926.5
8/19/2006 13:20	10.1483	4.32182	0.488341	1930.17
8/19/2006 13:20	10.1483	4.32182	0	1927.73
8/19/2006 13:20	10.2491	4.32182	0	1932.61
8/19/2006 13:20	10.2491	4.32182	0.24417	1946.04
8/19/2006 13:21	10.2491	4.32182	0.366256	1937.49
8/19/2006 13:21	10.2491	4.32182	0.366256	1953.36
8/19/2006 13:21	10.2491	4.32182	0.24417	1959.47
8/19/2006 13:21	10.2491	4.32182	0.24417	1958.25
8/19/2006 13:22	10.2491	4.32182	0	1949.7
8/19/2006 13:22	10.2491	4.32182	0.122085	1964.35
8/19/2006 13:22	10.2491	4.32182	0.366256	1968.01
8/19/2006 13:22	10.2491	4.32182	0.366256	1966.79
8/19/2006 13:23	10.2491	4.32182	0.122085	1971.68
8/19/2006 13:23	10.3498	4.32182	0.366256	1974.12
8/19/2006 13:23	10.3498	4.32182	0.366256	1989.99
8/19/2006 13:23	10.246	4.32182	0.24417	1996.09
8/19/2006 13:24	10.246	4.32182	0.488341	1996.09
8/19/2006 13:24	10.246	4.32182	0.122085	1997.31
8/19/2006 13:24	10.246	4.32182	0.366256	1996.09
8/19/2006 13:24	10.246	4.32182	0.488341	2007.08
8/19/2006 13:25	10.246	4.32182	0.122085	1993.65

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:25	10.246	4.32182	0.366256	1998.53
8/19/2006 13:25	10.246	4.32182	0.24417	2003.42
8/19/2006 13:25	10.246	4.32182	0.488341	2005.86
8/19/2006 13:26	10.3498	4.32182	0	1997.31
8/19/2006 13:26	10.3498	4.32182	0.488341	2015.63
8/19/2006 13:26	10.3498	4.32182	0.366256	2005.86
8/19/2006 13:26	10.3498	4.32182	0.122085	2014.41
8/19/2006 13:27	10.3498	4.32182	0.122085	2005.86
8/19/2006 13:27	10.3498	4.32182	0.366256	2018.07
8/19/2006 13:27	10.3498	4.32182	0.610426	2035.16
8/19/2006 13:27	10.246	4.32182	0.366256	2021.73
8/19/2006 13:28	10.246	4.32182	0.24417	2030.28
8/19/2006 13:28	10.246	4.32182	0	2026.61
8/19/2006 13:28	10.246	4.32182	0.122085	2026.61
8/19/2006 13:28	10.246	4.32182	0.488341	2026.61
8/19/2006 13:29	10.246	4.32182	0.122085	2019.29
8/19/2006 13:29	10.246	4.32182	0.488341	2044.93
8/19/2006 13:29	10.246	4.32182	0.24417	2033.94
8/19/2006 13:29	10.3467	4.32182	0.122085	2032.72
8/19/2006 13:30	10.3467	4.32182	0.366256	2049.81
8/19/2006 13:30	10.3467	4.32182	0.122085	2055.92
8/19/2006 13:30	10.3467	4.32182	0.488341	2066.9
8/19/2006 13:30	10.3467	4.32182	0.122085	2059.58
8/19/2006 13:31	10.3467	4.32182	0.122085	2052.25
8/19/2006 13:31	10.3467	4.32182	0.366256	2064.46
8/19/2006 13:31	10.3467	4.32182	0.488341	2068.12
8/19/2006 13:31	10.3467	4.32182	0.488341	2060.8
8/19/2006 13:32	10.3467	4.32182	0.366256	2066.9
8/19/2006 13:32	10.3467	4.32182	0.122085	2065.68
8/19/2006 13:32	10.3467	4.32182	0.24417	2077.89
8/19/2006 13:32	10.3467	4.32182	0.366256	2077.89
8/19/2006 13:33	10.3467	4.32182	0.610426	2064.46
8/19/2006 13:33	10.3467	4.32182	0.24417	2080.33
8/19/2006 13:33	10.3467	4.32182	0.122085	2075.45
8/19/2006 13:33	10.3467	4.32182	0.488341	2077.89
8/19/2006 13:34	10.3467	4.32182	0.122085	2085.22
8/19/2006 13:34	10.3467	4.32182	0.366256	2076.67
8/19/2006 13:34	10.3467	4.32182	0.24417	2093.76
8/19/2006 13:34	10.3467	4.32182	0.24417	2091.32
8/19/2006 13:35	10.3467	4.32182	0.366256	2086.44
8/19/2006 13:35	10.3467	4.32182	0.24417	2094.98
8/19/2006 13:35	10.3467	4.32182	0.366256	2096.2
8/19/2006 13:35	10.3467	4.32182	0.366256	2092.54
8/19/2006 13:36	10.3467	4.32182	0.122085	2102.31

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:36	10.3467	4.32182	0.122085	2110.85
8/19/2006 13:36	10.3467	4.32182	0.24417	2104.75
8/19/2006 13:36	10.4474	4.32182	0.610426	2107.19
8/19/2006 13:37	10.3467	4.32182	0.122085	2110.85
8/19/2006 13:37	10.2216	4.32182	0.366256	2113.3
8/19/2006 13:37	10.3223	4.32182	0.24417	2105.97
8/19/2006 13:37	10.3223	4.32182	0.24417	2116.96
8/19/2006 13:38	10.3223	4.32182	0.366256	2107.19
8/19/2006 13:38	10.3223	4.32182	0.24417	2124.28
8/19/2006 13:38	10.2216	4.32182	0	2123.06
8/19/2006 13:38	10.2216	4.32182	0.610426	2129.17
8/19/2006 13:39	10.2216	4.32182	0.122085	2121.84
8/19/2006 13:39	10.2216	4.32182	0.366256	2135.27
8/19/2006 13:39	10.2216	4.32182	0.366256	2132.83
8/19/2006 13:39	10.2216	4.32182	0.122085	2142.6
8/19/2006 13:40	10.2216	4.32182	0.366256	2130.39
8/19/2006 13:40	10.2216	4.32182	0.122085	2112.07
8/19/2006 13:40	10.1209	4.32182	0.122085	2116.96
8/19/2006 13:40	10.1209	4.55134	0.488341	2103.53
8/19/2006 13:41	9.69357	4.66121	0.24417	2103.53
8/19/2006 13:41	9.57453	4.66121	0	2104.75
8/19/2006 13:41	9.67525	4.45855	0.488341	2121.84
8/19/2006 13:41	9.88585	4.35356	0	2125.5
8/19/2006 13:42	9.99267	4.25345	0.488341	2136.49
8/19/2006 13:42	10.0934	4.15334	0.366256	2138.93
8/19/2006 13:42	10.0934	4.15334	0	2134.05
8/19/2006 13:42	10.0934	4.15334	0.366256	2148.7
8/19/2006 13:43	10.0934	4.15334	0.24417	2146.26
8/19/2006 13:43	10.0934	4.15334	0.24417	2143.82
8/19/2006 13:43	10.0934	4.15334	0.366256	2154.8
8/19/2006 13:43	10.0934	4.15334	0	2152.36
8/19/2006 13:44	10.0934	4.15334	0.366256	2160.91
8/19/2006 13:44	10.0934	4.15334	0.488341	2162.13
8/19/2006 13:44	9.98657	4.25345	0.366256	2159.69
8/19/2006 13:44	9.98657	4.25345	0.24417	2164.57
8/19/2006 13:45	9.98657	4.25345	0	2158.47
8/19/2006 13:45	9.98657	4.25345	0	2163.35
8/19/2006 13:45	9.98657	4.25345	0.24417	2174.34
8/19/2006 13:45	9.98657	4.25345	0.24417	2184.1
8/19/2006 13:46	9.98657	4.25345	0.122085	2185.33
8/19/2006 13:46	9.98657	4.25345	0	2171.9
8/19/2006 13:46	9.98657	4.25345	0.366256	2178
8/19/2006 13:46	9.98657	4.25345	0.122085	2176.78
8/19/2006 13:47	9.98657	4.25345	0	2188.99

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:47	9.98657	4.25345	0.488341	2193.87
8/19/2006 13:47	9.98657	4.25345	0.122085	2180.44
8/19/2006 13:47	9.98657	4.25345	0.488341	2192.65
8/19/2006 13:48	9.98657	4.25345	0.122085	2192.65
8/19/2006 13:48	9.98657	4.25345	0.24417	2202.42
8/19/2006 13:48	9.98657	4.25345	0.366256	2197.53
8/19/2006 13:48	9.98657	4.25345	0.24417	2196.31
8/19/2006 13:49	9.98657	4.25345	0.488341	2198.75
8/19/2006 13:49	9.98657	4.25345	0.24417	2193.87
8/19/2006 13:49	9.98657	4.25345	0.122085	2190.21
8/19/2006 13:49	9.98657	4.25345	0.488341	2197.53
8/19/2006 13:50	9.98657	4.25345	0.122085	2199.98
8/19/2006 13:50	9.98657	4.25345	0.488341	2192.65
8/19/2006 13:50	9.98657	4.25345	0.122085	2192.65
8/19/2006 13:50	10.0873	4.25345	0.24417	2210.96
8/19/2006 13:51	10.0873	4.25345	0.24417	2212.18
8/19/2006 13:51	10.0873	4.25345	0.24417	2207.3
8/19/2006 13:51	10.0873	4.25345	0.366256	2218.29
8/19/2006 13:51	10.0873	4.25345	0.24417	2217.07
8/19/2006 13:52	10.0873	4.25345	0.366256	2212.18
8/19/2006 13:52	10.0873	4.25345	0.122085	2215.85
8/19/2006 13:52	10.0873	4.25345	0.488341	2217.07
8/19/2006 13:52	10.0873	4.25345	0.122085	2217.07
8/19/2006 13:53	10.0873	4.25345	0.366256	2223.17
8/19/2006 13:53	10.0873	4.25345	0.122085	2217.07
8/19/2006 13:53	10.0873	4.25345	0.122085	2218.29
8/19/2006 13:53	10.0873	4.25345	0.366256	2228.06
8/19/2006 13:54	10.0873	4.25345	0.366256	2215.85
8/19/2006 13:54	10.0873	4.25345	0.122085	2219.51
8/19/2006 13:54	10.0873	4.25345	0.366256	2225.61
8/19/2006 13:54	10.0873	4.25345	0.366256	2225.61
8/19/2006 13:55	10.0873	4.25345	0.366256	2226.83
8/19/2006 13:55	10.0873	4.25345	0.24417	2226.83
8/19/2006 13:55	10.0873	4.25345	0	2224.39
8/19/2006 13:55	10.0873	4.25345	0.610426	2237.82
8/19/2006 13:56	10.188	4.25345	0.122085	2228.06
8/19/2006 13:56	10.188	4.14846	0.366256	2224.39
8/19/2006 13:56	10.0873	4.14846	0.488341	2245.15
8/19/2006 13:56	10.0873	4.24857	0.24417	2228.06
8/19/2006 13:57	10.0873	4.24857	0.122085	2228.06
8/19/2006 13:57	10.0873	4.24857	0.488341	2232.94
8/19/2006 13:57	10.0873	4.24857	0	2231.72
8/19/2006 13:57	10.0873	4.24857	0.366256	2250.03
8/19/2006 13:58	9.98657	4.34868	0	2234.16

John Zinc Inlet Raw Data
Run 2

8/19/2006 13:58	9.98657	4.34868	0.122085	2231.72
8/19/2006 13:58	9.98657	4.34868	0.122085	2247.59
8/19/2006 13:58	10.0873	4.34868	0.122085	2232.94
8/19/2006 13:59	10.0873	4.34868	0.488341	2245.15
8/19/2006 13:59	10.188	4.34868	0.488341	2236.6
8/19/2006 13:59	10.188	4.34868	0.488341	2235.38
8/19/2006 13:59	10.188	4.34868	0.488341	2246.37
8/19/2006 14:00	10.2887	4.24857	0.24417	2228.06
8/19/2006 14:00	10.2887	4.24857	0.24417	2224.39
8/19/2006 14:00	10.2887	4.24857	0	2235.38
8/19/2006 14:00	10.2887	4.24857	0.366256	2251.25
8/19/2006 14:01	10.188	4.24857	0.366256	2237.82
8/19/2006 14:01	10.188	4.24857	0.24417	2258.58
8/19/2006 14:01	10.188	4.24857	0.122085	2257.36
8/19/2006 14:01	10.188	4.24857	0.366256	2256.13
8/19/2006 14:02	10.188	4.24857	0.366256	2263.46
8/19/2006 14:02	10.188	4.24857	0.366256	2253.69
8/19/2006 14:02	10.188	4.24857	0.366256	2269.56
8/19/2006 14:02	10.188	4.24857	0	2267.12
8/19/2006 14:03	10.188	4.24857	0.24417	2261.02
8/19/2006 14:03	10.188	4.24857	0.366256	2267.12
8/19/2006 14:03	10.188	4.24857	0.24417	2259.8
8/19/2006 14:03	10.188	4.24857	0.366256	2261.02
8/19/2006 14:04	10.2887	4.24857	0.122085	2259.8
8/19/2006 14:04	10.2887	4.24857	0.122085	2276.89
8/19/2006 14:04	10.2887	4.24857	0	2262.24
8/19/2006 14:04	10.2887	4.24857	0.488341	2282.99
8/19/2006 14:05	10.2887	4.24857	0.24417	2270.79
8/19/2006 14:05	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:05	10.3925	4.24857	0.366256	2279.33
8/19/2006 14:05	10.3925	4.24857	0.488341	2274.45
8/19/2006 14:06	10.3925	4.24857	0.24417	2272.01
8/19/2006 14:06	10.3925	4.24857	0.366256	2292.76
8/19/2006 14:06	10.3925	4.24857	0.488341	2289.1
8/19/2006 14:06	10.2887	4.24857	0.366256	2284.21
8/19/2006 14:07	10.2887	4.24857	0.122085	2295.2
8/19/2006 14:07	10.2887	4.24857	0.24417	2300.09
8/19/2006 14:07	10.2887	4.24857	0	2282.99
8/19/2006 14:07	10.2887	4.24857	0.24417	2301.31
8/19/2006 14:08	10.2887	4.24857	0.488341	2282.99
8/19/2006 14:08	10.2887	4.24857	0.366256	2291.54
8/19/2006 14:08	10.2887	4.24857	0.366256	2289.1
8/19/2006 14:08	10.3895	4.24857	0	2280.55
8/19/2006 14:09	10.3895	4.24857	0.366256	2290.32

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:09	10.3895	4.24857	0.366256	2280.55
8/19/2006 14:09	10.3895	4.24857	0.122085	2290.32
8/19/2006 14:09	10.3895	4.24857	0.122085	2278.11
8/19/2006 14:10	10.3895	4.24857	0.488341	2285.44
8/19/2006 14:10	10.3895	4.24857	0.24417	2285.44
8/19/2006 14:10	10.3895	4.24857	0.24417	2280.55
8/19/2006 14:10	10.3895	4.24857	0.122085	2293.98
8/19/2006 14:11	10.3895	4.24857	0.366256	2293.98
8/19/2006 14:11	10.3895	4.24857	0.488341	2295.2
8/19/2006 14:11	10.3895	4.24857	0	2306.19
8/19/2006 14:11	10.3895	4.24857	0.488341	2298.86
8/19/2006 14:12	10.3895	4.24857	0.488341	2295.2
8/19/2006 14:12	10.3895	4.24857	0.122085	2295.2
8/19/2006 14:12	10.3895	4.24857	0	2278.11
8/19/2006 14:12	10.3895	4.24857	0.488341	2300.09
8/19/2006 14:13	10.3895	4.24857	0.122085	2286.66
8/19/2006 14:13	10.3895	4.24857	0	2293.98
8/19/2006 14:13	10.3895	4.24857	0.366256	2282.99
8/19/2006 14:13	10.3895	4.24857	0.366256	2295.2
8/19/2006 14:14	10.4963	4.24857	0.122085	2268.34
8/19/2006 14:14	10.4963	4.24857	0.366256	2290.32
8/19/2006 14:14	10.4963	4.24857	0.366256	2275.67
8/19/2006 14:14	10.3925	4.24857	0.122085	2291.54
8/19/2006 14:15	10.3925	4.24857	0.488341	2284.21
8/19/2006 14:15	10.3925	4.24857	0.122085	2291.54
8/19/2006 14:15	10.3925	4.24857	0	2285.44
8/19/2006 14:15	10.3925	4.24857	0.122085	2300.09
8/19/2006 14:16	10.3925	4.24857	0.366256	2303.75
8/19/2006 14:16	10.3925	4.24857	0.366256	2297.64
8/19/2006 14:16	10.3925	4.24857	0.122085	2302.53
8/19/2006 14:16	10.3925	4.24857	0.366256	2287.88
8/19/2006 14:17	10.3925	4.24857	0.122085	2278.11
8/19/2006 14:17	10.3925	4.24857	0.366256	2272.01
8/19/2006 14:17	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:17	10.3925	4.24857	0.488341	2280.55
8/19/2006 14:18	10.3925	4.24857	0.122085	2263.46
8/19/2006 14:18	10.3925	4.24857	0.488341	2270.79
8/19/2006 14:18	10.3925	4.24857	0.122085	2253.69
8/19/2006 14:18	10.3925	4.24857	0.366256	2268.34
8/19/2006 14:19	10.3925	4.24857	0	2251.25
8/19/2006 14:19	10.3925	4.24857	0.488341	2263.46
8/19/2006 14:19	10.3925	4.24857	0.24417	2261.02
8/19/2006 14:19	10.3925	4.24857	0.122085	2251.25
8/19/2006 14:20	10.3925	4.24857	0.488341	2256.13

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:20	10.3925	4.24857	0	2252.47
8/19/2006 14:20	10.3925	4.24857	0.488341	2264.68
8/19/2006 14:20	10.3925	4.24857	0.122085	2257.36
8/19/2006 14:21	10.3925	4.24857	0.366256	2257.36
8/19/2006 14:21	10.3925	4.24857	0.488341	2253.69
8/19/2006 14:21	10.3925	4.24857	0.610426	2241.48
8/19/2006 14:21	10.4932	4.24857	0.488341	2256.13
8/19/2006 14:22	10.4932	4.24857	0	2246.37
8/19/2006 14:22	10.4932	4.24857	0.366256	2237.82
8/19/2006 14:22	10.597	4.24857	0.366256	2250.03
8/19/2006 14:22	10.597	4.24857	0	2230.5
8/19/2006 14:23	10.597	4.24857	0.488341	2254.91
8/19/2006 14:23	10.597	4.24857	0.122085	2246.37
8/19/2006 14:23	10.4963	4.24857	0	2253.69
8/19/2006 14:23	10.4963	4.24857	0.122085	2246.37
8/19/2006 14:24	10.4963	4.24857	0.488341	2256.13
8/19/2006 14:24	10.597	4.24857	0	2240.26
8/19/2006 14:24	10.597	4.24857	0.488341	2252.47
8/19/2006 14:24	10.597	4.24857	0.366256	2245.15
8/19/2006 14:25	10.597	4.24857	0.122085	2254.91
8/19/2006 14:25	10.597	4.24857	0.366256	2242.71
8/19/2006 14:25	10.597	4.24857	0.24417	2242.71
8/19/2006 14:25	10.597	4.24857	0.122085	2261.02
8/19/2006 14:26	10.597	4.24857	0.24417	2247.59
8/19/2006 14:26	10.597	4.24857	0.610426	2268.34
8/19/2006 14:26	10.597	4.24857	0.122085	2242.71
8/19/2006 14:26	10.597	4.24857	0	2261.02
8/19/2006 14:27	10.597	4.24857	0.366256	2245.15
8/19/2006 14:27	10.597	4.24857	0.488341	2256.13
8/19/2006 14:27	10.597	4.24857	0.122085	2250.03
8/19/2006 14:27	10.597	4.24857	0.488341	2257.36
8/19/2006 14:28	10.597	4.24857	0.366256	2253.69
8/19/2006 14:28	10.597	4.24857	0.122085	2261.02
8/19/2006 14:28	10.597	4.24857	0.122085	2251.25
8/19/2006 14:28	10.597	4.24857	0.122085	2256.13
8/19/2006 14:29	10.597	4.24857	0.366256	2254.91
8/19/2006 14:29	10.597	4.24857	0.366256	2256.13
8/19/2006 14:29	10.597	4.24857	0.488341	2258.58
8/19/2006 14:29	10.597	4.24857	0.488341	2251.25
8/19/2006 14:30	10.597	4.24857	0.366256	2257.36
8/19/2006 14:30	10.597	4.24857	0.122085	2248.81
8/19/2006 14:30	10.597	4.24857	0.122085	2240.26
8/19/2006 14:30	10.597	4.24857	0.366256	2257.36
8/19/2006 14:31	10.597	4.24857	0.488341	2236.6

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:31	10.6977	4.24857	0.122085	2240.26
8/19/2006 14:31	10.6977	4.24857	0.366256	2237.82
8/19/2006 14:31	10.6977	4.24857	0.24417	2240.26
8/19/2006 14:32	10.6977	4.24857	0.488341	2231.72
8/19/2006 14:32	10.6977	4.24857	0.122085	2236.6
8/19/2006 14:32	10.6977	4.24857	0.122085	2231.72
8/19/2006 14:32	10.6977	4.24857	0.24417	2223.17
8/19/2006 14:33	10.6977	4.24857	0.488341	2237.82
8/19/2006 14:33	10.6977	4.24857	0	2231.72
8/19/2006 14:33	10.6977	4.24857	0.366256	2243.93
8/19/2006 14:33	10.6977	4.24857	0.366256	2229.28
8/19/2006 14:34	10.6977	4.24857	0.24417	2245.15
8/19/2006 14:34	10.8015	4.24857	0.122085	2229.28
8/19/2006 14:34	10.8015	4.24857	0.488341	2234.16
8/19/2006 14:34	10.8015	4.24857	0.24417	2225.61
8/19/2006 14:35	10.8015	4.24857	0.122085	2239.04
8/19/2006 14:35	10.8015	4.24857	0.366256	2235.38
8/19/2006 14:35	10.8015	4.24857	0.366256	2229.28
8/19/2006 14:35	10.8015	4.24857	0.24417	2215.85
8/19/2006 14:36	10.8015	4.24857	0.488341	2218.29
8/19/2006 14:36	10.8015	4.24857	0.488341	2223.17
8/19/2006 14:36	10.8015	4.24857	0.488341	2228.06
8/19/2006 14:36	10.8015	4.24857	0.122085	2226.83
8/19/2006 14:37	10.8015	4.24857	0.610426	2225.61
8/19/2006 14:37	10.8015	4.24857	0.122085	2225.61
8/19/2006 14:37	10.8015	4.24857	0.610426	2234.16
8/19/2006 14:37	10.8015	4.24857	0.122085	2230.5
8/19/2006 14:38	10.8015	4.24857	0.488341	2221.95
8/19/2006 14:38	10.8015	4.24857	0.122085	2226.83
8/19/2006 14:38	10.8015	4.24857	0.488341	2215.85
8/19/2006 14:38	10.8015	4.24857	0.122085	2214.63
8/19/2006 14:39	10.8015	4.24857	0.488341	2224.39
8/19/2006 14:39	10.8015	4.24857	0.122085	2213.4
8/19/2006 14:39	10.9022	4.24857	0.366256	2219.51
8/19/2006 14:39	10.9022	4.24857	0.24417	2225.61
8/19/2006 14:40	10.9022	4.24857	0	2208.52
8/19/2006 14:40	10.9022	4.24857	0.366256	2217.07
8/19/2006 14:40	10.9022	4.24857	0.366256	2224.39
8/19/2006 14:40	10.9022	4.24857	0.610426	2210.96
8/19/2006 14:41	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:41	10.9022	4.24857	0.366256	2218.29
8/19/2006 14:41	10.9022	4.24857	0.610426	2207.3
8/19/2006 14:41	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.122085	2213.4

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:42	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.122085	2214.63
8/19/2006 14:42	10.9022	4.24857	0.366256	2209.74
8/19/2006 14:43	10.9022	4.24857	0.488341	2219.51
8/19/2006 14:43	10.9022	4.24857	0.488341	2199.98
8/19/2006 14:43	10.9022	4.24857	0.122085	2213.4
8/19/2006 14:43	10.9022	4.24857	0.488341	2218.29
8/19/2006 14:44	10.9022	4.24857	0.122085	2191.43
8/19/2006 14:44	10.9022	4.24857	0.610426	2213.4
8/19/2006 14:44	10.9022	4.24857	0	2209.74
8/19/2006 14:44	10.9022	4.24857	0.610426	2209.74
8/19/2006 14:45	10.9022	4.24857	0.366256	2215.85
8/19/2006 14:45	10.9022	4.24857	0.122085	2219.51
8/19/2006 14:45	10.9022	4.24857	0.366256	2207.3
8/19/2006 14:45	10.9022	4.24857	0.488341	2221.95
8/19/2006 14:46	10.9022	4.24857	0.24417	2209.74
8/19/2006 14:46	10.9022	4.24857	0.366256	2207.3
8/19/2006 14:46	10.9022	4.24857	0.488341	2213.4
8/19/2006 14:46	10.9022	4.24857	0.122085	2198.75
8/19/2006 14:47	10.9022	4.24857	0.488341	2193.87
8/19/2006 14:47	11.0029	4.24857	0.488341	2201.2
8/19/2006 14:47	11.0029	4.24857	0.122085	2190.21
8/19/2006 14:47	11.0029	4.24857	0.366256	2198.75
8/19/2006 14:48	11.0029	4.24857	0.366256	2202.42
8/19/2006 14:48	11.0029	4.24857	0.24417	2190.21
8/19/2006 14:48	11.0029	4.24857	0.488341	2198.75
8/19/2006 14:48	11.0029	4.24857	0.24417	2180.44
8/19/2006 14:49	11.0029	4.24857	0.610426	2196.31
8/19/2006 14:49	11.0029	4.24857	0.122085	2190.21
8/19/2006 14:49	11.0029	4.24857	0.488341	2190.21
8/19/2006 14:49	11.0029	4.24857	0.24417	2197.53
8/19/2006 14:50	11.0029	4.24857	0.24417	2187.77
8/19/2006 14:50	11.0029	4.24857	0.488341	2179.22
8/19/2006 14:50	11.0029	4.24857	0.488341	2195.09
8/19/2006 14:50	11.0029	4.24857	0.24417	2192.65
8/19/2006 14:51	11.0029	4.24857	0.366256	2192.65
8/19/2006 14:51	11.0029	4.24857	0.488341	2193.87
8/19/2006 14:51	11.0029	4.24857	0.122085	2187.77
8/19/2006 14:51	11.0029	4.24857	0.610426	2181.66
8/19/2006 14:52	11.1037	4.24857	0.366256	2168.23
8/19/2006 14:52	11.1037	4.24857	0.24417	2179.22
8/19/2006 14:52	11.1037	4.24857	0.366256	2178
8/19/2006 14:52	11.1037	4.24857	0.488341	2176.78
8/19/2006 14:53	11.1037	4.24857	0.122085	2184.1

John Zinc Inlet Raw Data
Run 2

8/19/2006 14:53	11.1037	4.24857	0.122085	2173.12
8/19/2006 14:53	11.1037	4.24857	0.366256	2169.45
8/19/2006 14:53	11.1037	4.24857	0.122085	2174.34
8/19/2006 14:54	11.2044	4.24857	0.366256	2169.45
8/19/2006 14:54	11.2044	4.24857	0.488341	2171.9
8/19/2006 14:54	11.2044	4.24857	0.24417	2167.01
8/19/2006 14:54	11.2044	4.24857	0.122085	2158.47
8/19/2006 14:55	11.2044	4.24857	0.488341	2164.57
8/19/2006 14:55	11.2044	4.24857	0.122085	2148.7
8/19/2006 14:55	11.2044	4.24857	0.610426	2174.34
8/19/2006 14:55	11.2044	4.24857	0.122085	2156.02
8/19/2006 14:56	11.2044	4.24857	0.488341	2157.25
8/19/2006 14:56	11.2044	4.24857	0.122085	2146.26
8/19/2006 14:56	11.2044	4.24857	0.610426	2152.36
8/19/2006 14:56	11.2044	4.24857	0.122085	2142.6
8/19/2006 14:57	11.2044	4.24857	0.610426	2145.04
8/19/2006 14:57	11.2044	4.24857	0.122085	2140.15
8/19/2006 14:57	11.3081	4.24857	0.488341	2141.37
8/19/2006 14:57	11.3081	4.24857	0.122085	2140.15
8/19/2006 14:58	11.3081	4.24857	0.488341	2143.82
8/19/2006 14:58	11.3081	4.24857	0.976682	2145.04
8/19/2006 14:58	11.2044	4.24857	0.732511	2154.8
8/19/2006 14:58	11.1037	4.24857	0.610426	2153.58
8/19/2006 14:59	11.0029	4.24857	0.366256	2145.04
8/19/2006 14:59	10.8839	4.35112	0.366256	2120.62
8/19/2006 14:59	10.7832	4.45123	0.24417	2096.2
8/19/2006 14:59	10.6794	4.55378	0.366256	2112.07
8/19/2006 15:00	10.5726	5.54267	0.488341	2619.95
8/19/2006 15:00	10.3498	5.9895	0.122085	2809.18
8/19/2006 15:00	10.8412	5.75998	0.366256	2925.16
8/19/2006 15:00	11.5035	5.42547	0.488341	2854.35
8/19/2006 15:01	12.062	5.11293	0.610426	2767.67
8/19/2006 15:01	12.294	5.11293	0.366256	2751.8
8/19/2006 15:01	12.3978	5.11293	0.366256	2633.38
8/19/2006 15:01	12.3978	5.01282	0.610426	2684.65
	10.86636	4.257945	0.400144	1734.541

TRUCK LOADING RACK

Plant:	MEDINA
Location:	Loading Rack
Date:	8/22/2006
Test no.:	1
Operator:	SC
Monitor:	

		Cal Gas Value
Inlet Span value,	10000	8493
Outlet Span ValueC3H8 :	500	878.5
Outlet Span ValueCH4 :		

Gas Divider Settings	Inlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		5	2	6	4		-0.03	0.01	-0.01
30	2547.9		2557				0.36			
60	5095.8		5125	5115	5111	5121	0.57	-0.10	-0.14	-0.04
100	8493		8490							

Gas Divider Settings	Outlet Calibration gas conc., ppmC3H8	Calibration response, ppmC3H8					Analyzer cal. error, % of cal. gas	Drift, % of span		
		Direct Injection	System Injection							
			Pretest	PostT 1	PostT 2	PostT 3		Test 1	Test 2	Test 3
0	0		0.5	0.4	0.7	0.6		-0.02	0.04	0.02
20	175.7		176.5				0.46			
30	263.55		264.8	263.5	262	263	0.47	-0.26	-0.56	-0.36
50	439.25		439							
10	87.85		88.5	89	88.1	88.4	0.74	1.31	0.28	-0.02

	Run 1	Run 2	Run 3
Outlet WSCFM:	722	728	728
Outlet THC ppm as C3:	8.2	13.3	24.5
Outlet % Moisture:	3	3	3
Outlet Lbs/Hr as C3:	0.0406	0.0663	0.1222
Inlet WSCFM:	722	728	728
Inlet THC ppm as C3:	328.0	318.0	546.0
Inlet % Moisture:	3	3	3
Inlet Lbs/Hr:	1.62	1.59	2.72
%DE:	97.5	95.8	95.5

*** AS DEFINED BY EPA METHOD 25A, THESE THREE VALUES MUST BE THE SAME.**

Analyzer cal. error, % of cal. gas = (sys. pretest cal. response, ppmC3H8 - cal. gas conc., ppmC3H8)X100%/(cal. gas conc., ppmC3H8): Limit = 5%.

Drift, % of span = (relevant posttest sys. inj. cal. response, ppmC3H8 - sys. pretest cal. response, ppmC3H8)X100%/(span value, ppmC3H8): Limit = 3%.

System response time (95% of response for high cal. gas), sec. = 1st: 2nd: 3rd: Average: Limit = 30sec

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	Loading Rack	Date:	8/22/2006
Plant:	Medina	Location:	Outlet	Run #:	1
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	70	(°F)	Area:	0.44	(ft^2)
T-couple		$Pressure_{BARAMETRIC}$:	29.90	(in. Hg.)	Diameter:	9.00	(in.)
Pitot Con. #:							
Pitot ID. #		$Pressure_{STATIC}$:	0.20	(in. H20.)			
C_P	0.84	RUN VALUES			TEST INFORMATION		
		Bws:	0.03	(fraction)	Number of Ports:	2	
Meter Box:	BEO4908	CO_2:	0.10	(%)	Points / Port	8	
		O_2:	20.80	(%)	Reads / Point	1	

Run 1A		Average		Run 1B
Vs - ft/sec.	31.52	Vs - ft/sec.	31.52	Vs - ft/sec.
Qa - ACFM	832.1	Qa - ACFM	832.10	Qa - ACFM
Qs - WSCFM	722.4	Qs - WSCFM	722.40	Qs - WSCFM
Qs - DSCFM	700.7	Qs - DSCFM	700.70	Qs - DSCFM

Time	Title Run 1A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29	139	0.24	0.49	
2	0.95	147	0.28	0.53	
3	1.75	159	0.31	0.56	
4	2.91	157	0.33	0.57	
5	6.09	148	0.27	0.52	
6	7.25	153	0.31	0.56	
7	8.06	145	0.24	0.49	
8	8.71	132	0.20	0.45	
1	0.29	139	0.24	0.49	
2	0.95	147	0.28	0.53	
3	1.75	159	0.31	0.56	
4	2.91	157	0.33	0.57	
5	6.09	148	0.27	0.52	
6	7.25	153	0.31	0.56	
7	8.06	145	0.24	0.49	
8	8.71	132	0.20	0.45	
Average		148	0.27	0.52	#DIV/0!

Time	Title Run 1B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
Average		#DIV/0!	#DIV/0!	0	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	Loading Rack	Date:	8/22/2006
Plant:	Medina	Location:	Outlet	Run #:	2
Project #:	45396	Operator:	SC	Method:	2

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE			STACK DATA		
		$Temperature_{STD}$:	68	(°F)	Shape:	Circle	
Barometer Con. #:	BEO4923	$Temperature_{AMBIENT}$:	70	(°F)	Area:	0.44	(ft^2)
T-couple		$Pressure_{BARAMETRIC}$:	29.90	(in. Hg.)	Diameter:	9.00	(in.)
Pitot Con. #:							
Pitot ID. #		$Pressure_{STATIC}$:	0.20	(in. H20.)			
C_P	0.84	RUN VALUES			TEST INFORMATION		
		Bws:	0.03	(fraction)	Number of Ports:	2	
Meter Box:	BEO4908	CO_2:	0.10	(%)	Points / Port	8	
		O_2:	20.80	(%)	Reads / Point	1	

Run 2A		Average		Run 2B
Vs - ft/sec.	33.74	Vs - ft/sec.	33.74	Vs - ft/sec.
Qa - ACFM	890.7	Qa - ACFM	890.70	Qa - ACFM
Qs - WSCFM	727.8	Qs - WSCFM	727.80	Qs - WSCFM
Qs - DSCFM	705.9	Qs - DSCFM	705.90	Qs - DSCFM

Time	Title
	Run 2A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29	185	0.30	0.55	
2	0.95	184	0.32	0.57	
3	1.75	184	0.35	0.59	
4	2.91	185	0.35	0.59	
5	6.09	192	0.30	0.55	
6	7.25	191	0.35	0.59	
7	8.06	190	0.30	0.55	
8	8.71	190	0.25	0.50	
1	0.29	185	0.24	0.49	
2	0.95	185	0.28	0.53	
3	1.75	184	0.31	0.56	
4	2.91	182	0.33	0.57	
5	6.09	182	0.27	0.52	
6	7.25	182	0.31	0.56	
7	8.06	184	0.24	0.49	
8	8.71	190	0.20	0.45	
Average		186	0.29	0.54	#DIV/0!

Time	Title
	Run 2B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

VELOCITY AND VOLUMETRIC FLOW DETERMINATION SPREADSHEET

Client:	Owens Corning	Source:	Loading Rack	Date:	
Plant:	Medina	Location:	Outlet	Run #:	
Project #:	45396	Operator:		Method:	

EQUIPMENT IDS AND INFO		TEMPERATURE / PRESSURE						STACK DATA		
		$Temperature_{STD}$:	68	(°F)				Shape:	Circle	
Barometer Con. #:		$Temperature_{AMBIENT}$:	75	(°F)				Area:	0.44	(ft^2)
T-couple		$Pressure_{BARAMETRIC}$:	29.90	(in. Hg.)				Diameter:	9.00	(in.)
Pitot Con. #:										
Pitot ID. #		$Pressure_{STATIC}$:	0.30	(in. H20.)						
C_P	0.84	RUN VALUES						TEST INFORMATION		
		Bws:	0.03	(fraction)	N_2:	78.60	(%)	Number of Ports:	2	
Meter Box:	BEO4908	CO_2:	0.10	(%)	Md:	28.87	lb/lb-mole	Points / Port	8	
		O_2:	21.30	(%)	Ms:	28.54	lb/lb-mole	Reads / Point	1	

Run 3A		Average		Run 3B
Vs - ft/sec.	33.70	Vs - ft/sec.	33.70	Vs - ft/sec.
Qa - ACFM	889.7	Qa - ACFM	889.70	Qa - ACFM
Qs - WSCFM	728.3	Qs - WSCFM	728.30	Qs - WSCFM
Qs - DSCFM	706.5	Qs - DSCFM	706.50	Qs - DSCFM

Time	Title Run 3A

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29	183	0.30	0.55	
2	0.95	182	0.32	0.57	
3	1.75	184	0.35	0.59	
4	2.91	186	0.35	0.59	
5	6.09	190	0.30	0.55	
6	7.25	190	0.35	0.59	
7	8.06	189	0.26	0.51	
8	8.71	189	0.24	0.49	
1	0.29	185	0.25	0.50	
2	0.95	185	0.26	0.51	
3	1.75	184	0.32	0.57	
4	2.91	182	0.32	0.57	
5	6.09	182	0.27	0.52	
6	7.25	182	0.31	0.56	
7	8.06	184	0.24	0.49	
8	8.71	190	0.20	0.45	
Average		185	0.29	0.54	#DIV/0!

Time	Title Run 3B

Traverse Pt. No.	Distance (inches)	T_S (°F)	ΔP	SQRT(ΔP)	Null Angle
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
1	0.29			0.00	
2	0.95			0.00	
3	1.75			0.00	
4	2.91			0.00	
5	6.09			0.00	
6	7.25			0.00	
7	8.06			0.00	
8	8.71			0.00	
Average		#DIV/0!	#DIV/0!	0.00	#DIV/0!

MOISTURE SAMPLING DATA SHEET

Client: Owens Corning	Source: Loading Rack	Date:	8/22/2006
Plant: Medina	Location: Outlet	Run #:	1
Project #: 45396	Operator: SC	Method:	4

Equipment ID's and Info		Temperature and Pressure		Stack Data			Train Weight	
	Meter Box: BEO4908	Tstd: 68 F		Shape: Circle				
Barometer: BEO4923	Meter Y: 1.0133	Pbar: 29.90 in. Hg		Area: 0.00	(ft2)	Wi	3380.5	g
		Pstatic: 0.10 in. H2O		Diameter:	(in.)	Wf	3397.0	g

Leak Check Analysis					Test Information	
Meter Initial:	0.005	cfm@	15	in. Hg	Number of Ports:	1
Meter Final:	0.001	cfm@	6	in. Hg	Points/Port:	1
					Reads/Point:	7
					Time/Reading:	5.00 (min)
					Total Time:	35 (min)

Trvs. Pts.	Sample Time	Clock Time (24hr)	ΔH (in. H_2O)	Meter Vm (cf)	Temperatures (F) Meter In	Meter Out	Probe	Exit	Stack	Vac. in. Hg
1		8:07:00	1.7	518.102	65	62		63	180	2
1	0:05:00	8:12:00			65	65		50		2
1	0:10:00	8:17:00			69	65		53		2
1	0:15:00	8:22:00			69	65		54		2
1	0:20:00	8:27:00			70	65		53		2
1	0:25:00	8:46:00			70	65		52		2
1	0:30:00	8:51:00			70	65		52		2
	0:35:00	8:56:00		542.106						
			Avg. 1.70	Total Vol. 24.004	Avg. 68.3	Avg. 64.6	Avg.	Avg. 53.9	Avg. 180	
						Avg. Tm 66.4				

MOISTURE SAMPLING DATA SHEET

Client:	Owens Corning	Source:	Loading Rack	Date:	8/22/2006
Plant:	Medina	Location:	Outlet	Run #:	2
Project #:	45396	Operator:	SC	Method:	4

Equipment ID's and Info				Temperature and Pressure			Stack Data					
		Meter Box:	BEO4908	Tstd:	68	F	Shape:	Circle			Train Weight	
Barometer:	BEO4923	Meter Y:	1.0133	Pbar:	29.90	in. Hg	Area:	0.00	(ft2)	Wi	3397.0	g
				Pstatic:	0.10	in. H2O	Diameter:		(in.)	Wf	3416.0	g

Leak Check Analysis					Test Information	
Meter Initial:	0.001	cfm@	15	in. Hg	Number of Ports:	1
Meter Final:	0.002	cfm@	11	in. Hg	Points/Port:	1
					Reads/Point:	7
					Time/Reading:	5.00 (min)
					Total Time:	35 (min)

Trvs. Pts.	Sample Time	Clock Time (24hr)	ΔH (in. H_2O)	Meter Vm (cf)	Temperatures (F) Meter In	Meter Out	Probe	Exit	Stack	Vac. in. Hg
1		10:44:00	1.7	542.285	70	69		68	185	2
1	0:05:00	10:49:00			72	69		64		2
1	0:10:00	10:54:00			73	69		60		2
1	0:15:00	10:59:00			75	68		61		2
1	0:20:00	11:09:00			76	70		62		2
1	0:25:00	11:14:00			78	71		63		2
1	0:30:00	11:19:00			79	71		64		2
	0:35:00	11:24:00		570.537						
			Avg. 1.70	Total Vol. 28.252	Avg. 74.7	Avg. 69.6	Avg.	Avg. 63.1	Avg. 185	
						Avg. Tm 72.1				

MOISTURE SAMPLING DATA SHEET

Client:	Owens Corning	Source:	Loading Rack	Date:	8/22/2006
Plant:	Medina	Location:	Outlet	Run #:	3
Project #:	45396	Operator:	SC	Method:	4

Equipment ID's and Info				Temperature and Pressure			Stack Data				Train Weight		
		Meter Box:	BEO4908	Tstd:	68	F	Shape:	Circle					
Barometer:	BEO4923	Meter Y:	1.0133	Pbar:	29.90	in. Hg	Area:	0.00	(ft2)	Wi	3416.0	g
				Pstatic:	0.10	in. H2O	Diameter:		(in.)	Wf	3432.5	g

Leak Check Analysis					Test Information	
Meter Initial:	0.003	cfm@	15	in. Hg	Number of Ports:	1
Meter Final:	0.006	cfm@	8	in. Hg	Points/Port:	1
					Reads/Point:	7
					Time/Reading:	5.00 (min)
					Total Time:	35 (min)

Trvs. Pts.	Sample Time	Clock Time (24hr)	ΔH (in. H_2O)	Meter Vm (cf)	Temperatures (F) Meter In	Meter Out	Probe	Exit	Stack	Vac. in. Hg
1		15:06:00	1.7	570.658	72	72		68	183	2
1	0:05:00	15:11:00			74	72		66		2
1	0:10:00	15:16:00			76	72		64		2
1	0:15:00	15:21:00			76	72		62		2
1	0:20:00	15:26:00			80	73		63		2
1	0:25:00	15:31:00			81	73		62		2
1	0:30:00	15:36:00			82	74		63		2
	0:35:00	15:41:00		596.309						
			Avg. 1.70	Total Vol. 25.651	Avg. 77.3	Avg. 72.6	Avg.	Avg. 64.0	Avg. 183	
						Avg. Tm 74.9				

MOISTURE SAMPLING DATA SHEET

Client:	Owens Corning	**Source:**	Loading Rack	**Date:**	8/22/2006
Plant:	Medina	**Location:**	Outlet	**Run #:**	1
Project #:	45396	**Operator:**	SC	**Method:**	4

Sample Volume, Standard Conditions

$V_{m(std)} = V_m Y((T_{std} P_m) / (T_m P_{std}))$ $V_{m(std)} =$ 24.48147 DSCF

Water Vapor Volume Collected

$V_{wc(std)} = .04706 (W_f - W_i)$ $V_{wc(std)} =$ 0.77649 ft^3/g

Moisture Volume Fraction of Stack Gas

$B_{ws} = V_{wc(std)} / (V_{wc(std)} + V_{m(std)})$ $B_{ws} =$ 0.030742

Saturated Vapor Pressure at Avg. Stack Temperature

SVP= 15.3 in. Hg

B_{ws} VP

B_{ws} VP = SVP/P_s B_{ws} VP = 0.5116

Min B_{ws} or B_{ws} VP

If B_{ws} > B_{ws} VP, then B_{ws} VP MIN B_{ws} or B_{ws} VP = 0.0307

** The Saturation Vapor Pressure Chart was obtain from Table 3-301 on page 3-237 from Perry's Chemical Engineering Handbook Sixth Edition and the units were changed from pounds per square inch to inches of mercury

MOISTURE SAMPLING DATA SHEET

Client:	Owens Corning	**Source:**	Loading Rack	**Date:**	8/22/2006
Plant:	Medina	**Location:**	Outlet	**Run #:**	2
Project #:	45396	**Operator:**	SC	**Method:**	4

Sample Volume, Standard Conditions

$V_{m(std)} = V_m Y((T_{std} P_m) / (T_m P_{std}))$ $V_{m(std)} =$ 28.50456 DSCF

Water Vapor Volume Collected

$V_{wc(std)} = .04706 (W_f - W_i)$ $V_{wc(std)} =$ 0.89414 ft^3/g

Moisture Volume Fraction of Stack Gas

$B_{ws} = V_{wc(std)} / (V_{wc(std)} + V_{m(std)})$ $B_{ws} =$ 0.030414

Saturated Vapor Pressure at Avg. Stack Temperature

SVP= 17.07 in. Hg

B_{ws} VP

B_{ws} VP = SVP/P_s B_{ws} VP = 0.5708

Min B_{ws} or B_{ws} VP

If B_{ws} > B_{ws} VP, then B_{ws} VP MIN B_{ws} or B_{ws} VP = 0.0304

** The Saturation Vapor Pressure Chart was obtain from Table 3-301 on page 3-237 from Perry's Chemical Engineering Handbook Sixth Edition and the units were changed from pounds per square inch to inches of mercury

MOISTURE SAMPLING DATA SHEET

Client:	Owens Corning	**Source:**	Loading Rack	**Date:**	8/22/2006
Plant:	Medina	**Location:**	Outlet	**Run #:**	3
Project #:	45396	**Operator:**	SC	**Method:**	4

Sample Volume, Standard Conditions

$V_{m(std)} = V_m Y((T_{std} P_m) / (T_m P_{std}))$ $V_{m(std)} =$ 25.74553 DSCF

Water Vapor Volume Collected

$V_{wc(std)} = .04706 (W_f - W_i)$ $V_{wc(std)} =$ 0.77649 ft^3/g

Moisture Volume Fraction of Stack Gas

$B_{ws} = V_{wc(std)} / (V_{wc(std)} + V_{m(std)})$ $B_{ws} =$ 0.029277

Saturated Vapor Pressure at Avg. Stack Temperature

SVP= 16.34 in. Hg

B_{ws} VP

B_{ws} VP = SVP/P_s B_{ws} VP = 0.5464

Min B_{ws} or B_{ws} VP

If B_{ws} > B_{ws} VP, then B_{ws} VP MIN B_{ws} or B_{ws} VP = 0.0293

** The Saturation Vapor Pressure Chart was obtain from Table 3-301 on page 3-237 from Perry's Chemical Engineering Handbook Sixth Edition and the units were changed from pounds per square inch to inches of mercury

ANALYZER RAW DATA

Client:	Owens Corning	Location:	Outlet	Plant:	Medina OH	Date:	8/22/2006
Project #:	45396	Operator:	SC	Source:	Loading Rack	Time:	

Method / Gas	3A / O2	3A / CO2	10 / CO

Analyzer Info

Make	Horiba	Horiba	Horiba		
ID					
Span	25	20	100		
Source	Loading Rack	Loading Rack	Loading Rack		

Calibration Gas Info

Gas Divider used?	Yes	Yes	Yes
Compostition	O2/CO2/N2	O2/CO2/N2	CO/N2
Concentration	21.05	17.06	90
Bottlle ID			

Divider Info	Setting	% Span	Setting	% Span	Setting	% Span
Zero	0	0.0%	0	0.0%	0	0.0%
Low		—		—	30	27.0%
Mid	60	50.5%	60	51.2%	60	54.0%
High	100	84.2%	100	85.3%	100	90.0%

Analyzer Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0	0.05	0	0.5	0
Low		—		—	27	27
Mid	12.6	12.63	10.4	10.236	54	54
High	20.9	21.05	17.01	17.06	90	90

Probe Calibration	Response	Target	Response	Target	Response	Target
Zero	0.1	0.1	0.1	0.05	0.7	0.5
Low		—				27
Mid	12.6	12.6	10.3	10.4	55	54
High						90

Results	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias	Cal. Error	Sys. Bias
Zero	0.4%	0.0%	0.3%	0.3%	0.5%	0.2%
Low	—	—	—	—	0.0%	-27.0%
Mid	-0.1%	0.0%	0.8%	-0.5%	0.0%	1.0%
High	-0.6%	0.0%	-0.2%	0.0%	0.0%	-90.0%

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

RESPONSE TIME

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	8/21/2006
Operator:	SC	Method/Gas:		Time:	7:00 PM

	Upscale Response (sec.)				Downscale Response (sec.)				Response
Analyzer (ID)	1	2	3	Average	1	2	3	Average	Time[1]
THC IN	85	85	85	85.00	85	90	90	88.33	88.33
THC OUT	90	90	90	90.00	90	90	90	90.00	90.00
O2	90	90	90	90.00	90	90	90	90.00	90.00
CO2	90	90	90	90.00	90	90	90	90.00	90.00
CO	90	90	90	90.00	90	90	90	90.00	90.00
								System Response Time[2]:	90.00

Notes:
1 Greater value of average upscale response and average downscale response.
2 Maximum value of all analyzer response times.

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DILUTION CHECK

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	08/13/06
Operator:	SC	Method/Gas:	3A / O2	Time:	4:00 PM

Span Value 25 Gas Concentration 21.05 Analyzer ID 0

Cal Gas	Divider Setting (%)	% Span	Analyzer Response	Target	Calibration Error
Zero		0.00%	0	0	0.00%
Mid*		48.20%	12	12.05	-0.20%
High**		84.20%	21	21.05	-0.20%

Note:
*Mid Gas must be 40% to 60% of span
**High Gas must be 80% to 100% of span

Gas Concentration 21.05 Gas Composition O2/CO2/N2

Dilution (%)	Target	Trial #1	Trial #2	Trial #3	Avg. Resp.	% Accuracy*
0	0.00					
10	2.11					
20	4.21					
30	6.32	6.3	6.3	6.2	6.27	-0.77%
40	8.42					
50	10.53	10.5	10.6	10.5	10.53	0.08%
60	12.63	12.6	12.6	12.6	12.60	-0.24%
70	14.74					
80	16.84					
90	18.95					

$$\text{Accuracy} = \frac{\text{Average Response - Target}}{\text{Target}} \times 100$$

*Note: Accuracy must be within ± 2% at all dilution levels

System Check

Target	Resp. 1	Resp. 2	Resp. 3	Avg. Resp.	% Accuracy*
12.05	12.1	12.1	12.1	12.10	0.41%

*Note: Accuracy must be within ± 2% at all dilution levels

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SUMMARY DATA SHEET

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	8/22/2006
		$Temperature_{STD}$:	68	Molar Volume:	24.05

Run Information		1	2	3	
Stack Parameter					
Brake HP					
mmBtu of Fuel (Fd)					
Moisture	%				
Dry Std. Flow Rate					Avg.
	DSCFM	700	706	700	
O2 (drift corrected)					
	%	20.8	21.3	20.4	20.8
CO2 (drift corrected)					
	%	0.11	0.14	0.24	0.16
10 / CO					
	ppmvd	43.8	67.9	25.0	45.5
	lb/hr	0.13	0.21	0.076	0.14

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	8/22/2006

	Method / Gas	3A / O2	3A / CO2	10 / CO
	Source	Loading Rack	Loading Rack	Loading Rack
Calibration Drift Check				
	Time	10:00 AM	10:00 AM	10:00 AM
	Span	25	20	100
	Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero				
	Initial	0.1	0.1	0.7
	Final	0.1	0.1	0.7
	Average (C_o)	0.1	0.1	0.7
	Certified Value	0	0	0
	% Drift	0.0%	0.0%	0.0%
	% Sys. Bias	0.0%	0.3%	0.2%
Upscale (Cma)				
	Upscale Gas:	Mid	Mid	Mid
	Initial	12.6	10.3	55
	Final	12.4	10.2	54.5
	Average (C_m)	12.5	10.25	54.75
	Certified Value	12.63	10.236	54
	% Drift	-0.8%	-0.5%	-0.5%
	% Sys. Bias	-0.8%	-1.0%	0.5%
Run Data Calculations				
	Number of Sample Points:	253	253	253
	Average Concentration (C):	20.48	0.21	44.51
	Drift Corrected Average (C_{gas})	20.76	0.11	43.77
	Maximum Concentration:	20.98	0.34	212.92
	Minumum Concentration:	19.93	0.14	-2.93

DATE	TIME	%	%	ppmvd
	8/22/2006 8:35	20.9834	0.141619	50.7874
	8/22/2006 8:35	20.9834	0.141619	50.7874
	8/22/2006 8:35	20.9834	0.141619	52.7408
	8/22/2006 8:36	20.9834	0.141619	66.6585
	8/22/2006 8:36	20.9834	0.141619	96.9357
	8/22/2006 8:36	20.9834	0.141619	146.746
	8/22/2006 8:36	20.9834	0.141619	174.826
	8/22/2006 8:37	20.9834	0.141619	132.829
	8/22/2006 8:37	20.9834	0.141619	83.0179
	8/22/2006 8:37	20.9834	0.141619	66.9027
	8/22/2006 8:37	20.9834	0.141619	70.8094
	8/22/2006 8:38	20.9834	0.141619	90.8314
	8/22/2006 8:38	20.9834	0.141619	104.993
	8/22/2006 8:38	20.9834	0.141619	80.8204
	8/22/2006 8:38	20.9834	0.141619	50.7874
	8/22/2006 8:39	20.9834	0.141619	42.974
	8/22/2006 8:39	20.9834	0.141619	54.6942
	8/22/2006 8:39	20.9834	0.141619	86.9247
	8/22/2006 8:39	20.8827	0.141619	112.807
	8/22/2006 8:40	20.8827	0.241729	84.9713

8/22/2006 8:40	20.8827	0.241729	44.9274
8/22/2006 8:40	20.8827	0.241729	29.0563
8/22/2006 8:40	20.8827	0.241729	28.8121
8/22/2006 8:41	20.8827	0.241729	36.8697
8/22/2006 8:41	20.8827	0.241729	44.9274
8/22/2006 8:41	20.8827	0.241729	36.8697
8/22/2006 8:41	20.8827	0.241729	22.952
8/22/2006 8:42	20.8827	0.241729	16.8478
8/22/2006 8:42	20.8827	0.241729	20.9987
8/22/2006 8:42	20.8827	0.241729	36.8697
8/22/2006 8:42	20.8827	0.241729	54.9383
8/22/2006 8:43	20.8827	0.241729	44.9274
8/22/2006 8:43	20.8827	0.241729	24.9054
8/22/2006 8:43	20.8827	0.241729	16.8478
8/22/2006 8:43	20.8827	0.241729	16.8478
8/22/2006 8:44	20.8827	0.241729	22.7079
8/22/2006 8:44	20.8827	0.241729	28.8121
8/22/2006 8:44	20.8827	0.241729	22.952
8/22/2006 8:44	20.8827	0.241729	12.941
8/22/2006 8:45	20.8827	0.241729	9.03431
8/22/2006 8:45	20.8827	0.241729	10.9877
8/22/2006 8:45	20.8827	0.241729	20.7545
8/22/2006 8:45	20.8827	0.241729	34.9164
8/22/2006 8:46	20.8827	0.241729	28.8121
8/22/2006 8:46	20.8827	0.241729	16.8478
8/22/2006 8:46	20.8827	0.241729	10.7435
8/22/2006 8:46	20.8827	0.241729	10.9877
8/22/2006 8:47	20.782	0.241729	12.941
8/22/2006 8:47	20.782	0.241729	18.8011
8/22/2006 8:47	20.782	0.241729	16.8478
8/22/2006 8:47	20.782	0.241729	8.79014
8/22/2006 8:48	20.782	0.241729	6.83677
8/22/2006 8:48	20.782	0.241729	8.79014
8/22/2006 8:48	20.782	0.241729	14.8944
8/22/2006 8:48	20.782	0.241729	22.952
8/22/2006 8:49	20.782	0.241729	18.8011
8/22/2006 8:49	20.782	0.241729	10.7435
8/22/2006 8:49	20.782	0.241729	7.08094
8/22/2006 8:49	20.782	0.241729	7.08094
8/22/2006 8:50	20.782	0.241729	10.9877
8/22/2006 8:50	20.782	0.241729	14.8944
8/22/2006 8:50	20.782	0.241729	12.941
8/22/2006 8:50	20.782	0.241729	6.83677
8/22/2006 8:51	20.782	0.241729	4.88341
8/22/2006 8:51	20.782	0.241729	4.88341
8/22/2006 8:51	20.782	0.241729	10.9877
8/22/2006 8:51	20.782	0.241729	16.8478
8/22/2006 8:52	20.782	0.241729	14.8944
8/22/2006 8:52	20.782	0.241729	9.03431
8/22/2006 8:52	20.782	0.241729	4.88341
8/22/2006 8:52	20.782	0.241729	7.08094
8/22/2006 8:53	20.782	0.241729	8.79014
8/22/2006 8:53	20.782	0.241729	12.941
8/22/2006 8:53	20.782	0.241729	10.9877

8/22/2006 8:53	20.782	0.241729	6.83677
8/22/2006 8:54	20.782	0.241729	4.88341
8/22/2006 9:00	20.8827	0.141619	54.6942
8/22/2006 9:00	20.8827	0.141619	64.7052
8/22/2006 9:00	20.8827	0.141619	80.8204
8/22/2006 9:00	20.8827	0.141619	86.9247
8/22/2006 9:01	20.8827	0.141619	68.8561
8/22/2006 9:01	20.8827	0.141619	48.8341
8/22/2006 9:01	20.8827	0.141619	41.0206
8/22/2006 9:01	20.8827	0.141619	44.9274
8/22/2006 9:02	20.8827	0.141619	56.8917
8/22/2006 9:02	20.8827	0.141619	64.7052
8/22/2006 9:02	20.782	0.141619	52.7408
8/22/2006 9:02	20.782	0.141619	34.6722
8/22/2006 9:03	20.782	0.141619	31.0096
8/22/2006 9:03	20.782	0.141619	44.9274
8/22/2006 9:03	20.782	0.141619	76.9137
8/22/2006 9:03	20.782	0.141619	104.749
8/22/2006 9:04	20.782	0.141619	80.8204
8/22/2006 9:04	20.782	0.141619	40.7765
8/22/2006 9:04	20.782	0.141619	22.952
8/22/2006 9:04	20.782	0.141619	22.952
8/22/2006 9:05	20.782	0.141619	29.0563
8/22/2006 9:05	20.782	0.141619	36.6256
8/22/2006 9:05	20.6812	0.241729	31.0096
8/22/2006 9:05	20.6812	0.241729	16.8478
8/22/2006 9:06	20.6812	0.241729	12.941
8/22/2006 9:06	20.6812	0.241729	14.8944
8/22/2006 9:06	20.6812	0.241729	30.7655
8/22/2006 9:06	20.6812	0.241729	49.0783
8/22/2006 9:07	20.6812	0.241729	38.8231
8/22/2006 9:07	20.6812	0.241729	18.8011
8/22/2006 9:07	20.6812	0.241729	8.79014
8/22/2006 9:07	20.6812	0.241729	8.79014
8/22/2006 9:08	20.5805	0.241729	14.8944
8/22/2006 9:08	20.5805	0.241729	20.7545
8/22/2006 9:08	20.5805	0.241729	16.8478
8/22/2006 9:08	20.5805	0.241729	8.79014
8/22/2006 9:09	20.5805	0.241729	4.88341
8/22/2006 9:09	20.5805	0.241729	4.88341
8/22/2006 9:09	20.5805	0.241729	12.941
8/22/2006 9:09	20.5805	0.241729	24.9054
8/22/2006 9:10	20.5805	0.241729	20.7545
8/22/2006 9:10	20.5805	0.241729	9.03431
8/22/2006 9:10	20.5805	0.241729	4.88341
8/22/2006 9:10	20.5805	0.241729	4.88341
8/22/2006 9:11	20.5805	0.241729	8.79014
8/22/2006 9:11	20.5805	0.241729	12.941
8/22/2006 9:11	20.5805	0.241729	10.9877
8/22/2006 9:11	20.5805	0.241729	4.88341
8/22/2006 9:12	20.5805	0.241729	0.732511
8/22/2006 9:12	20.4798	0.241729	0.732511
8/22/2006 9:12	20.4798	0.241729	6.83677
8/22/2006 9:12	20.4798	0.241729	14.8944

8/22/2006 9:13	20.4798	0.241729	12.941
8/22/2006 9:13	20.4798	0.241729	4.88341
8/22/2006 9:13	20.4798	0.241729	0.976682
8/22/2006 9:13	20.4798	0.241729	0.976682
8/22/2006 9:14	20.4798	0.241729	2.93005
8/22/2006 9:14	20.4798	0.241729	6.83677
8/22/2006 9:14	20.4798	0.241729	4.88341
8/22/2006 9:14	20.4798	0.241729	0.732511
8/22/2006 9:15	20.4798	0.241729	-0.976682
8/22/2006 9:15	20.4798	0.241729	-0.976682
8/22/2006 9:15	20.4798	0.241729	4.88341
8/22/2006 9:15	20.4798	0.241729	10.9877
8/22/2006 9:16	20.4798	0.241729	10.9877
8/22/2006 9:16	20.4798	0.241729	2.68587
8/22/2006 9:16	20.4798	0.241729	0.976682
8/22/2006 9:16	20.4798	0.241729	-0.976682
8/22/2006 9:17	20.373	0.241729	0.732511
8/22/2006 9:17	20.373	0.241729	7.08094
8/22/2006 9:17	20.373	0.241729	4.63924
8/22/2006 9:17	20.373	0.241729	-0.732511
8/22/2006 9:18	20.373	0.241729	-2.93005
8/22/2006 9:18	20.373	0.241729	-0.976682
8/22/2006 9:18	20.373	0.241729	2.93005
8/22/2006 9:18	20.373	0.241729	8.79014
8/22/2006 9:19	20.373	0.241729	6.83677
8/22/2006 9:19	20.373	0.241729	0.976682
8/22/2006 9:19	20.373	0.241729	-0.976682
8/22/2006 9:19	20.373	0.241729	-1.22085
8/22/2006 9:20	20.373	0.241729	0.976682
8/22/2006 9:20	20.373	0.241729	4.63924
8/22/2006 9:20	20.373	0.241729	2.93005
8/22/2006 9:20	20.373	0.241729	-1.22085
8/22/2006 9:32	20.1593	0.139177	54.9383
8/22/2006 9:32	20.1593	0.139177	62.7518
8/22/2006 9:32	20.1593	0.139177	61.0426
8/22/2006 9:32	20.1593	0.139177	54.9383
8/22/2006 9:33	20.1593	0.139177	58.8451
8/22/2006 9:33	20.1593	0.139177	74.9603
8/22/2006 9:33	20.0372	0.139177	148.7
8/22/2006 9:33	19.9304	0.139177	212.917
8/22/2006 9:34	19.9304	0.139177	169.21
8/22/2006 9:34	20.0311	0.139177	96.6915
8/22/2006 9:34	20.0311	0.139177	68.8561
8/22/2006 9:34	20.0311	0.139177	68.8561
8/22/2006 9:35	20.0311	0.139177	83.0179
8/22/2006 9:35	20.1319	0.139177	94.9823
8/22/2006 9:35	20.1319	0.139177	84.9713
8/22/2006 9:35	20.1319	0.139177	71.0536
8/22/2006 9:36	20.1319	0.139177	74.7162
8/22/2006 9:36	20.1319	0.139177	96.9357
8/22/2006 9:36	20.1319	0.139177	130.875
8/22/2006 9:36	20.1319	0.139177	144.793
8/22/2006 9:37	20.1319	0.139177	108.9
8/22/2006 9:37	20.1319	0.139177	66.9027

8/22/2006 9:37	20.1319	0.139177	51.0316
8/22/2006 9:37	20.1319	0.139177	56.8917
8/22/2006 9:38	20.1319	0.139177	76.9137
8/22/2006 9:38	20.1319	0.139177	92.5406
8/22/2006 9:38	20.1319	0.139177	84.9713
8/22/2006 9:38	20.1319	0.139177	72.7628
8/22/2006 9:39	20.1319	0.139177	80.8204
8/22/2006 9:39	20.1319	0.139177	106.947
8/22/2006 9:39	20.1319	0.139177	140.642
8/22/2006 9:39	20.1319	0.139177	156.757
8/22/2006 9:40	20.1319	0.139177	118.911
8/22/2006 9:40	20.1319	0.139177	74.9603
8/22/2006 9:40	20.1319	0.139177	60.7984
8/22/2006 9:40	20.1319	0.139177	68.8561
8/22/2006 9:41	20.1319	0.139177	94.9823
8/22/2006 9:41	20.1319	0.139177	116.958
8/22/2006 9:41	20.1319	0.139177	103.04
8/22/2006 9:41	20.1319	0.139177	80.8204
8/22/2006 9:42	20.1319	0.139177	80.8204
8/22/2006 9:42	20.1319	0.139177	116.958
8/22/2006 9:42	20.1319	0.139177	178.733
8/22/2006 9:42	20.1319	0.139177	210.963
8/22/2006 9:43	20.1319	0.139177	154.804
8/22/2006 9:43	20.1319	0.139177	84.9713
8/22/2006 9:43	20.1319	0.139177	56.8917
8/22/2006 9:43	20.1319	0.139177	62.7518
8/22/2006 9:44	20.1319	0.139177	86.9247
8/22/2006 9:44	20.1319	0.139177	106.947
8/22/2006 9:44	20.1319	0.139177	86.9247
8/22/2006 9:44	20.1319	0.139177	52.985
8/22/2006 9:45	20.0281	0.139177	48.8341
8/22/2006 9:45	20.0281	0.139177	82.7738
8/22/2006 9:45	20.0281	0.139177	152.851
8/22/2006 9:45	20.0281	0.139177	204.859
8/22/2006 9:46	20.0281	0.139177	152.851
8/22/2006 9:46	20.0281	0.139177	76.6695
8/22/2006 9:46	20.0281	0.139177	42.7298
8/22/2006 9:46	20.0281	0.239287	40.7765
8/22/2006 9:47	20.0281	0.239287	56.6475
8/22/2006 9:47	20.0281	0.239287	74.9603
8/22/2006 9:47	20.0281	0.239287	60.7984
8/22/2006 9:47	20.0281	0.239287	30.7655
8/22/2006 9:48	20.0281	0.239287	18.8011
8/22/2006 9:48	20.0281	0.239287	28.8121
8/22/2006 9:48	20.0281	0.239287	62.7518
8/22/2006 9:48	20.0281	0.239287	106.947
8/22/2006 9:49	20.0281	0.239287	86.9247
8/22/2006 9:49	20.0281	0.239287	42.974
8/22/2006 9:49	20.0281	0.239287	20.7545
8/22/2006 9:49	20.0281	0.239287	18.8011
8/22/2006 9:50	20.0281	0.239287	26.6146
8/22/2006 9:50	20.0281	0.239287	41.0206
8/22/2006 9:50	20.0281	0.239287	32.7188
8/22/2006 9:50	20.0281	0.239287	14.8944

8/22/2006 9:51	20.0281	0.239287	6.83677
8/22/2006 9:51	20.0281	0.239287	9.03431
8/22/2006 9:51	20.0281	0.239287	22.952
8/22/2006 9:51	20.0281	0.239287	46.8807
8/22/2006 9:52	20.0281	0.339397	42.974
8/22/2006 9:52	19.9274	0.339397	20.7545
8/22/2006 9:52	19.9274	0.339397	9.03431
8/22/2006 9:52	19.9274	0.339397	6.83677
8/22/2006 9:53	19.9274	0.339397	12.941
8/22/2006 9:53	19.9274	0.339397	22.952
8/22/2006 9:53	19.9274	0.339397	18.8011
8/22/2006 9:53	19.9274	0.339397	8.79014
8/22/2006 9:54	19.9274	0.339397	2.68587
8/22/2006 9:54	19.9274	0.339397	0.976682
8/22/2006 9:54	19.9274	0.339397	4.88341
8/22/2006 9:54	19.9274	0.339397	14.8944
8/22/2006 9:55	19.9274	0.339397	16.8478

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	8/22/2006

	Method / Gas	3A / O2	3A / CO2	10 / CO
	Source	Loading Rack	Loading Rack	Loading Rack
Calibration Drift Check				
	Time	12:45 PM	12:45 PM	12:45 PM
	Span	25	20	100
	Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero				
	Initial	0.1	0.1	0.7
	Final	0.16	0.1	1
	Average (C_o)	0.13	0.1	0.85
	Certified Value	0	0	0
	% Drift	0.2%	0.0%	0.3%
	% Sys. Bias	0.2%	0.3%	0.5%
Upscale (Cma)				
	Upscale Gas:	Mid	Mid	Mid
	Initial	12.6	10.3	55
	Final	12.6	10.2	54.3
	Average (C_m)	12.6	10.25	54.65
	Certified Value	12.63	10.236	54
	% Drift	0.0%	-0.5%	-0.7%
	% Sys. Bias	0.0%	-1.0%	0.3%
Run Data Calculations				
	Number of Sample Points:	304	304	304
	Average Concentration (C):	21.18	0.24	68.48
	Drift Corrected Average (C_{gas})	21.32	0.14	67.88
	Maximum Concentration:	21.45	0.42	292.76
	Minumum Concentration:	20.84	0.11	6.84
DATE	TIME	%	%	ppmvd
	8/22/2006 10:43	21.2642	0.107435	73.007
	8/22/2006 10:43	21.2642	0.107435	62.7518
	8/22/2006 10:43	21.2642	0.107435	62.996
	8/22/2006 10:43	21.2642	0.107435	70.8094
	8/22/2006 10:44	21.2642	0.107435	93.0289
	8/22/2006 10:44	21.0597	0.21487	118.667
	8/22/2006 10:44	21.1665	0.21487	110.853
	8/22/2006 10:44	21.1665	0.21487	93.0289
	8/22/2006 10:45	21.1665	0.21487	102.796
	8/22/2006 10:45	21.1665	0.21487	136.735
	8/22/2006 10:45	21.1665	0.21487	182.884
	8/22/2006 10:45	21.1665	0.21487	198.999
	8/22/2006 10:46	21.1665	0.21487	146.502
	8/22/2006 10:46	21.1665	0.21487	90.8314
	8/22/2006 10:46	21.1665	0.21487	72.7628
	8/22/2006 10:46	21.1665	0.21487	80.8204
	8/22/2006 10:47	21.1665	0.21487	108.9
	8/22/2006 10:47	21.1665	0.21487	130.875
	8/22/2006 10:47	21.1665	0.21487	116.713
	8/22/2006 10:47	21.1665	0.21487	94.7381

8/22/2006 10:48	21.1665	0.21487	96.9357
8/22/2006 10:48	21.1665	0.21487	122.818
8/22/2006 10:48	21.1665	0.21487	168.966
8/22/2006 10:48	21.1665	0.21487	186.79
8/22/2006 10:49	21.1665	0.21487	142.84
8/22/2006 10:49	21.1665	0.21487	86.9247
8/22/2006 10:49	21.1665	0.21487	68.8561
8/22/2006 10:49	21.1665	0.21487	76.9137
8/22/2006 10:50	21.1665	0.21487	104.993
8/22/2006 10:50	21.1665	0.21487	128.922
8/22/2006 10:50	21.1665	0.21487	108.9
8/22/2006 10:50	21.1665	0.21487	78.867
8/22/2006 10:51	21.1665	0.21487	78.6229
8/22/2006 10:51	21.1665	0.21487	113.051
8/22/2006 10:51	21.1665	0.21487	178.733
8/22/2006 10:51	21.1665	0.21487	222.683
8/22/2006 10:52	21.1665	0.21487	168.722
8/22/2006 10:52	21.1665	0.21487	92.7848
8/22/2006 10:52	21.1665	0.21487	64.7052
8/22/2006 10:52	21.1665	0.21487	68.8561
8/22/2006 10:53	21.1665	0.21487	90.8314
8/22/2006 10:53	21.1665	0.21487	114.76
8/22/2006 10:53	21.1665	0.21487	93.0289
8/22/2006 10:53	21.1665	0.21487	58.8451
8/22/2006 10:54	21.1665	0.21487	50.5433
8/22/2006 10:54	21.1665	0.21487	74.9603
8/22/2006 10:54	21.1665	0.21487	138.933
8/22/2006 10:54	21.1665	0.21487	198.755
8/22/2006 10:55	21.1665	0.21487	156.757
8/22/2006 10:55	21.1665	0.21487	82.7738
8/22/2006 10:55	21.1665	0.21487	50.7874
8/22/2006 10:55	21.1665	0.21487	48.8341
8/22/2006 10:56	21.1665	0.21487	66.9027
8/22/2006 10:56	21.1665	0.21487	84.9713
8/22/2006 10:56	21.1665	0.21487	68.6119
8/22/2006 10:56	21.1665	0.21487	40.7765
8/22/2006 10:57	21.1665	0.21487	31.0096
8/22/2006 10:57	21.0658	0.21487	38.8231
8/22/2006 10:57	21.0658	0.21487	74.9603
8/22/2006 10:57	21.0658	0.21487	126.724
8/22/2006 10:58	21.0658	0.21487	108.9
8/22/2006 10:58	21.0658	0.21487	56.8917
8/22/2006 10:58	21.0658	0.21487	30.7655
8/22/2006 10:58	21.0658	0.21487	28.8121
8/22/2006 10:59	21.0658	0.21487	34.9164
8/22/2006 10:59	21.0658	0.21487	46.8807
8/22/2006 10:59	21.0658	0.21487	40.7765
8/22/2006 10:59	21.0658	0.21487	24.9054
8/22/2006 11:00	21.0658	0.21487	16.8478
8/22/2006 11:00	21.0658	0.21487	18.8011
8/22/2006 11:00	21.0658	0.21487	38.8231
8/22/2006 11:00	21.0658	0.21487	68.8561
8/22/2006 11:01	21.0658	0.21487	62.996
8/22/2006 11:01	21.0658	0.21487	34.9164

8/22/2006 11:01	21.0658	0.21487	20.7545
8/22/2006 11:01	21.0658	0.21487	16.8478
8/22/2006 11:02	21.0658	0.21487	20.7545
8/22/2006 11:02	21.0658	0.21487	28.8121
8/22/2006 11:02	21.0658	0.21487	24.9054
8/22/2006 11:02	21.0658	0.21487	14.8944
8/22/2006 11:03	20.9651	0.21487	10.9877
8/22/2006 11:03	20.9651	0.21487	12.941
8/22/2006 11:03	20.9651	0.21487	24.9054
8/22/2006 11:03	20.9651	0.21487	41.0206
8/22/2006 11:04	20.9651	0.21487	36.8697
8/22/2006 11:04	20.9651	0.21487	22.7079
8/22/2006 11:09	21.1604	0.21487	62.7518
8/22/2006 11:09	21.0505	0.21487	96.9357
8/22/2006 11:09	21.0505	0.21487	196.801
8/22/2006 11:09	21.0505	0.21487	292.76
8/22/2006 11:10	21.0505	0.21487	230.741
8/22/2006 11:10	21.0505	0.31498	110.853
8/22/2006 11:10	20.9498	0.31498	52.985
8/22/2006 11:10	20.9498	0.31498	36.8697
8/22/2006 11:11	20.9498	0.31498	34.9164
8/22/2006 11:11	20.9498	0.31498	42.974
8/22/2006 11:11	20.9498	0.31498	36.8697
8/22/2006 11:11	20.9498	0.31498	22.952
8/22/2006 11:12	20.9498	0.31498	12.941
8/22/2006 11:12	20.9498	0.31498	12.941
8/22/2006 11:12	20.9498	0.31498	18.8011
8/22/2006 11:12	20.9498	0.31498	34.9164
8/22/2006 11:13	20.9498	0.31498	34.9164
8/22/2006 11:13	20.9498	0.31498	22.952
8/22/2006 11:13	20.9498	0.31498	12.941
8/22/2006 11:13	20.9498	0.31498	12.941
8/22/2006 11:14	20.9498	0.31498	12.941
8/22/2006 11:14	20.9498	0.31498	20.7545
8/22/2006 11:14	20.9498	0.31498	20.9987
8/22/2006 11:14	20.9498	0.31498	12.941
8/22/2006 11:15	20.8399	0.31498	8.79014
8/22/2006 11:15	20.8399	0.31498	6.83677
8/22/2006 11:15	20.8399	0.31498	10.9877
8/22/2006 11:15	20.8399	0.31498	18.8011
8/22/2006 11:16	20.8399	0.31498	20.7545
8/22/2006 11:16	20.8399	0.31498	14.8944
8/22/2006 11:16	20.8399	0.31498	10.9877
8/22/2006 11:16	20.8399	0.31498	8.79014
8/22/2006 11:17	20.8399	0.31498	9.03431
8/22/2006 11:17	20.8399	0.31498	14.8944
8/22/2006 11:17	20.8399	0.31498	16.8478
8/22/2006 11:17	20.8399	0.31498	10.9877
8/22/2006 11:18	20.8399	0.41509	6.83677
8/22/2006 11:18	20.8399	0.41509	6.83677
8/22/2006 11:18	20.8399	0.41509	6.83677
8/22/2006 11:18	20.8399	0.41509	12.941
8/22/2006 11:19	20.8399	0.41509	16.8478
8/22/2006 11:19	20.8399	0.41509	12.941

8/22/2006 11:19	20.8399	0.41509	8.79014
8/22/2006 11:19	20.8399	0.41509	6.83677
8/22/2006 11:20	20.8399	0.41509	9.03431
8/22/2006 11:20	20.8399	0.41509	10.9877
8/22/2006 11:20	20.8399	0.41509	12.941
8/22/2006 11:20	20.8399	0.41509	10.9877
8/22/2006 11:21	20.8399	0.41509	6.83677
8/22/2006 11:21	20.9407	0.41509	6.83677
8/22/2006 11:21	20.9407	0.41509	7.08094
8/22/2006 11:21	20.9407	0.41509	12.941
8/22/2006 11:22	20.9407	0.41509	14.8944
8/22/2006 11:22	20.9407	0.41509	10.9877
8/22/2006 11:22	20.9407	0.41509	7.08094
8/22/2006 11:22	20.9407	0.41509	7.08094
8/22/2006 11:23	20.9407	0.41509	8.79014
8/22/2006 11:23	20.9407	0.41509	12.6969
8/22/2006 11:23	21.0414	0.41509	12.941
8/22/2006 11:23	21.0414	0.41509	8.79014
8/22/2006 11:24	21.0414	0.41509	6.83677
8/22/2006 11:24	21.0414	0.41509	7.08094
8/22/2006 11:24	21.0414	0.41509	6.83677
8/22/2006 11:24	21.0414	0.41509	12.941
8/22/2006 11:25	21.0414	0.41509	14.8944
8/22/2006 11:25	21.0414	0.41509	10.9877
8/22/2006 11:25	21.0414	0.41509	7.08094
8/22/2006 11:25	21.0414	0.41509	6.83677
8/22/2006 11:26	21.0414	0.41509	9.03431
8/22/2006 11:26	21.0414	0.41509	10.9877
8/22/2006 11:26	21.0414	0.41509	12.941
8/22/2006 11:26	21.1482	0.31498	9.03431
8/22/2006 11:59	21.4443	0.11476	162.618
8/22/2006 11:59	21.4443	0.11476	198.999
8/22/2006 11:59	21.4443	0.11476	174.826
8/22/2006 11:59	21.3405	0.21487	122.818
8/22/2006 12:00	21.3405	0.21487	94.7381
8/22/2006 12:00	21.3405	0.21487	116.958
8/22/2006 12:00	21.3405	0.21487	186.79
8/22/2006 12:00	21.3405	0.21487	258.821
8/22/2006 12:01	21.3405	0.21487	202.661
8/22/2006 12:01	21.3405	0.21487	102.796
8/22/2006 12:01	21.3405	0.21487	56.8917
8/22/2006 12:01	21.3405	0.21487	48.8341
8/22/2006 12:02	21.3405	0.21487	58.8451
8/22/2006 12:02	21.3405	0.21487	76.9137
8/22/2006 12:02	21.3405	0.21487	66.9027
8/22/2006 12:02	21.2398	0.21487	38.8231
8/22/2006 12:03	21.2398	0.21487	26.8587
8/22/2006 12:03	21.2398	0.21487	31.0096
8/22/2006 12:03	21.2398	0.21487	56.8917
8/22/2006 12:03	21.2398	0.21487	104.749
8/22/2006 12:04	21.2398	0.21487	98.889
8/22/2006 12:04	21.2398	0.21487	54.6942
8/22/2006 12:04	21.2398	0.31498	28.8121
8/22/2006 12:04	21.2398	0.31498	22.7079

8/22/2006 12:05	21.1391	0.31498	26.8587
8/22/2006 12:05	21.1391	0.31498	36.8697
8/22/2006 12:05	21.1391	0.31498	32.963
8/22/2006 12:05	21.1391	0.31498	20.7545
8/22/2006 12:06	21.1391	0.31498	12.941
8/22/2006 12:06	21.1391	0.31498	12.941
8/22/2006 12:06	21.1391	0.31498	18.8011
8/22/2006 12:06	21.1391	0.31498	36.8697
8/22/2006 12:07	21.1391	0.31498	36.8697
8/22/2006 12:07	21.1391	0.31498	24.9054
8/22/2006 12:07	21.1391	0.31498	14.8944
8/22/2006 12:07	21.1391	0.31498	13.1852
8/22/2006 12:08	21.1391	0.31498	14.8944
8/22/2006 12:08	21.1391	0.31498	22.952
8/22/2006 12:08	21.1391	0.31498	24.9054
8/22/2006 12:08	21.1391	0.31498	14.8944
8/22/2006 12:09	21.1391	0.31498	10.9877
8/22/2006 12:09	21.1391	0.31498	8.79014
8/22/2006 12:09	21.1391	0.41509	12.941
8/22/2006 12:09	21.0383	0.41509	22.952
8/22/2006 12:10	21.0383	0.41509	26.8587
8/22/2006 12:10	21.0383	0.41509	19.0453
8/22/2006 12:10	21.0383	0.41509	12.941
8/22/2006 12:10	21.0383	0.41509	10.9877
8/22/2006 12:11	21.0383	0.41509	12.941
8/22/2006 12:11	21.0383	0.41509	18.8011
8/22/2006 12:11	21.0383	0.41509	20.7545
8/22/2006 12:11	21.0383	0.41509	14.8944
8/22/2006 12:12	21.0383	0.41509	10.9877
8/22/2006 12:12	21.0383	0.41509	9.03431
8/22/2006 12:12	21.0383	0.41509	9.03431
8/22/2006 12:12	21.0383	0.41509	18.8011
8/22/2006 12:13	21.0383	0.41509	24.9054
8/22/2006 12:13	21.0383	0.41509	18.8011
8/22/2006 12:13	21.0383	0.41509	12.941
8/22/2006 12:13	21.0383	0.41509	10.9877
8/22/2006 12:14	21.0383	0.41509	10.9877
8/22/2006 12:14	21.0383	0.41509	16.8478
8/22/2006 12:23	21.4473	0.21487	54.9383
8/22/2006 12:23	21.4473	0.21487	74.7162
8/22/2006 12:23	21.4473	0.21487	74.7162
8/22/2006 12:23	21.4473	0.21487	58.8451
8/22/2006 12:24	21.4473	0.21487	56.8917
8/22/2006 12:24	21.4473	0.21487	72.7628
8/22/2006 12:24	21.4473	0.21487	98.889
8/22/2006 12:24	21.4473	0.11476	118.911
8/22/2006 12:25	21.4473	0.11476	94.7381
8/22/2006 12:25	21.4473	0.11476	62.7518
8/22/2006 12:25	21.4473	0.11476	48.8341
8/22/2006 12:25	21.4473	0.11476	50.7874
8/22/2006 12:26	21.4473	0.11476	62.7518
8/22/2006 12:26	21.4473	0.11476	78.867
8/22/2006 12:26	21.4473	0.11476	74.7162
8/22/2006 12:26	21.4473	0.11476	66.9027

8/22/2006 12:27	21.4473	0.11476	70.5653
8/22/2006 12:27	21.4473	0.11476	88.878
8/22/2006 12:27	21.4473	0.11476	118.911
8/22/2006 12:27	21.4473	0.11476	138.933
8/22/2006 12:28	21.4473	0.11476	112.807
8/22/2006 12:28	21.4473	0.11476	74.9603
8/22/2006 12:28	21.4473	0.11476	60.7984
8/22/2006 12:28	21.4473	0.11476	64.9493
8/22/2006 12:29	21.4473	0.11476	80.8204
8/22/2006 12:29	21.4473	0.11476	98.889
8/22/2006 12:29	21.4473	0.11476	93.0289
8/22/2006 12:29	21.4473	0.11476	80.5762
8/22/2006 12:30	21.4473	0.11476	84.7271
8/22/2006 12:30	21.4473	0.11476	104.993
8/22/2006 12:30	21.4473	0.11476	140.886
8/22/2006 12:30	21.4473	0.11476	158.955
8/22/2006 12:31	21.4473	0.11476	124.771
8/22/2006 12:31	21.4473	0.11476	82.7738
8/22/2006 12:31	21.4473	0.11476	66.6585
8/22/2006 12:31	21.4473	0.11476	73.007
8/22/2006 12:32	21.4473	0.11476	90.8314
8/22/2006 12:32	21.4473	0.11476	112.807
8/22/2006 12:32	21.4473	0.11476	104.993
8/22/2006 12:32	21.4473	0.11476	88.878
8/22/2006 12:33	21.4473	0.11476	92.7848
8/22/2006 12:33	21.4473	0.11476	118.911
8/22/2006 12:33	21.4473	0.11476	160.908
8/22/2006 12:33	21.4473	0.11476	182.884
8/22/2006 12:34	21.4473	0.11476	140.642
8/22/2006 12:34	21.4473	0.11476	90.5872
8/22/2006 12:34	21.4473	0.11476	70.8094
8/22/2006 12:34	21.4473	0.11476	76.9137
8/22/2006 12:35	21.4473	0.11476	98.889
8/22/2006 12:35	21.4473	0.11476	123.062
8/22/2006 12:35	21.4473	0.11476	112.807
8/22/2006 12:35	21.4473	0.11476	94.7381
8/22/2006 12:36	21.4473	0.11476	96.9357
8/22/2006 12:36	21.4473	0.11476	124.527
8/22/2006 12:36	21.4473	0.11476	170.919
8/22/2006 12:36	21.4473	0.11476	200.952
8/22/2006 12:37	21.4473	0.11476	158.711
8/22/2006 12:37	21.4473	0.11476	96.6915
8/22/2006 12:37	21.4473	0.11476	74.9603
8/22/2006 12:37	21.4473	0.11476	78.867
8/22/2006 12:38	21.4473	0.11476	100.598
8/22/2006 12:38	21.4473	0.11476	122.818
8/22/2006 12:38	21.4473	0.11476	111.098
8/22/2006 12:38	21.4473	0.11476	90.8314
8/22/2006 12:39	21.4473	0.11476	90.5872
8/22/2006 12:39	21.4473	0.11476	118.911
8/22/2006 12:39	21.4473	0.11476	172.873
8/22/2006 12:39	21.4473	0.11476	210.963
8/22/2006 12:40	21.4473	0.11476	164.815
8/22/2006 12:40	21.4473	0.11476	98.6449

8/22/2006 12:40	21.4473	0.11476	70.8094
8/22/2006 12:40	21.4473	0.11476	73.007
8/22/2006 12:41	21.4473	0.11476	94.9823
8/22/2006 12:41	21.4473	0.11476	120.864
8/22/2006 12:41	21.4473	0.11476	108.9
8/22/2006 12:41	21.4473	0.11476	86.9247
8/22/2006 12:42	21.4473	0.11476	86.9247
8/22/2006 12:42	21.4473	0.11476	116.958
8/22/2006 12:42	21.4473	0.11476	172.628
8/22/2006 12:42	21.4473	0.11476	214.87
8/22/2006 12:43	21.4473	0.11476	168.966
8/22/2006 12:43	21.4473	0.11476	96.9357
8/22/2006 12:43	21.4473	0.11476	68.8561
8/22/2006 12:43	21.4473	0.11476	70.8094

Client:	Owens Corning	Plant:	Medina OH	Location:	Outlet
Project #:	45396	Source:	Loading Rack	Date:	8/22/2006

Method / Gas	3A / O2	3A / CO2	10 / CO
Source	Loading Rack	Loading Rack	Loading Rack
Calibration Drift Check			
Time	4:40 PM	4:40 PM	4:40 PM
Span	25	20	100
Drift limit	< 3.0%	< 3.0%	< 3.0%
Zero			
Initial	0.1	0.1	0.7
Final	0.2	0.1	0.2
Average (C_o)	0.15	0.1	0.45
Certified Value	0	0	0
% Drift	0.4%	0.0%	-0.5%
% Sys. Bias	0.4%	0.3%	-0.3%
Upscale (Cma)			
Upscale Gas:			
Initial	12.6	10.3	55
Final	12.5	10.3	54
Average (C_m)	12.55	10.3	54.5
Certified Value	12.63	10.236	54
% Drift	-0.4%	0.0%	-1.0%
% Sys. Bias	-0.4%	-0.5%	0.0%
Run Data Calculations			
Number of Sample Points:	286	286	286
Average Concentration (C):	20.20	0.34	25.45
Drift Corrected Average (C_{gas})	20.42	0.24	24.97
Maximum Concentration:	20.57	0.51	261.02
Minumum Concentration:	19.87	0.10	0.98

DATE TIME	%	%	ppmvd
8/22/2006 15:04	20.5683	0.104993	80.5762
8/22/2006 15:04	20.5683	0.104993	60.7984
8/22/2006 15:04	20.5683	0.104993	50.7874
8/22/2006 15:04	20.5683	0.104993	56.8917
8/22/2006 15:05	20.5683	0.104993	70.8094
8/22/2006 15:05	20.5683	0.104993	90.8314
8/22/2006 15:05	20.5683	0.104993	88.6339
8/22/2006 15:05	20.5683	0.104993	80.8204
8/22/2006 15:06	20.5683	0.104993	80.8204
8/22/2006 15:06	20.5683	0.104993	98.889
8/22/2006 15:06	20.5683	0.104993	122.818
8/22/2006 15:06	20.5683	0.104993	142.596
8/22/2006 15:07	20.5683	0.104993	122.818
8/22/2006 15:07	20.5683	0.104993	86.9247
8/22/2006 15:07	20.5683	0.104993	74.7162
8/22/2006 15:07	20.5683	0.104993	88.878
8/22/2006 15:08	20.5683	0.104993	118.911
8/22/2006 15:08	20.5683	0.104993	152.851
8/22/2006 15:08	20.5683	0.104993	144.549
8/22/2006 15:08	20.5683	0.104993	116.713

8/22/2006 15:09	20.5683	0.104993	108.9
8/22/2006 15:09	20.5683	0.104993	138.933
8/22/2006 15:09	20.5683	0.104993	200.708
8/22/2006 15:09	20.5683	0.104993	261.018
8/22/2006 15:10	20.5683	0.104993	218.777
8/22/2006 15:10	20.5683	0.104993	125.015
8/22/2006 15:10	20.5683	0.104993	74.9603
8/22/2006 15:10	20.5683	0.205103	66.9027
8/22/2006 15:11	20.5683	0.205103	86.9247
8/22/2006 15:11	20.5683	0.205103	118.667
8/22/2006 15:11	20.5683	0.205103	108.656
8/22/2006 15:11	20.4645	0.205103	68.8561
8/22/2006 15:12	20.4645	0.205103	46.8807
8/22/2006 15:12	20.4645	0.205103	52.7408
8/22/2006 15:12	20.4645	0.205103	92.7848
8/22/2006 15:12	20.4645	0.205103	166.768
8/22/2006 15:13	20.4645	0.205103	160.908
8/22/2006 15:13	20.4645	0.205103	88.878
8/22/2006 15:13	20.4645	0.205103	42.974
8/22/2006 15:13	20.4645	0.205103	31.0096
8/22/2006 15:14	20.4645	0.205103	32.7188
8/22/2006 15:14	20.3638	0.205103	46.8807
8/22/2006 15:14	20.3638	0.205103	46.6366
8/22/2006 15:14	20.3638	0.305213	28.8121
8/22/2006 15:15	20.3638	0.305213	14.8944
8/22/2006 15:15	20.3638	0.305213	14.8944
8/22/2006 15:15	20.3638	0.305213	26.8587
8/22/2006 15:15	20.3638	0.305213	58.8451
8/22/2006 15:16	20.3638	0.305213	64.7052
8/22/2006 15:16	20.3638	0.305213	41.0206
8/22/2006 15:16	20.3638	0.305213	20.7545
8/22/2006 15:16	20.3638	0.305213	14.8944
8/22/2006 15:17	20.3638	0.305213	16.8478
8/22/2006 15:17	20.3638	0.305213	26.8587
8/22/2006 15:17	20.3638	0.305213	28.8121
8/22/2006 15:17	20.3638	0.305213	18.8011
8/22/2006 15:18	20.3638	0.305213	11.476
8/22/2006 15:18	20.3638	0.305213	9.03431
8/22/2006 15:18	20.2631	0.305213	12.941
8/22/2006 15:18	20.2631	0.305213	28.8121
8/22/2006 15:19	20.2631	0.305213	34.9164
8/22/2006 15:19	20.2631	0.305213	22.952
8/22/2006 15:19	20.2631	0.305213	12.941
8/22/2006 15:19	20.2631	0.305213	9.03431
8/22/2006 15:20	20.2631	0.305213	12.941
8/22/2006 15:28	19.9731	0.305213	93.0289
8/22/2006 15:28	19.9731	0.305213	56.8917
8/22/2006 15:28	19.8694	0.410206	28.8121
8/22/2006 15:28	19.8694	0.410206	18.8011
8/22/2006 15:29	19.8694	0.410206	16.8478
8/22/2006 15:29	19.8694	0.410206	22.952
8/22/2006 15:29	19.9762	0.410206	24.9054
8/22/2006 15:29	19.9762	0.410206	16.8478
8/22/2006 15:30	19.9762	0.410206	9.03431

8/22/2006 15:30	19.9762	0.410206	6.83677
8/22/2006 15:30	19.9762	0.410206	8.79014
8/22/2006 15:30	19.9762	0.410206	16.8478
8/22/2006 15:31	19.9762	0.410206	22.952
8/22/2006 15:31	19.9762	0.410206	18.8011
8/22/2006 15:31	19.9762	0.410206	10.9877
8/22/2006 15:31	19.9762	0.410206	8.79014
8/22/2006 15:32	19.9762	0.410206	8.79014
8/22/2006 15:32	19.9762	0.410206	12.941
8/22/2006 15:32	19.9762	0.410206	16.8478
8/22/2006 15:32	19.9762	0.410206	12.941
8/22/2006 15:33	19.9762	0.410206	6.83677
8/22/2006 15:33	19.9762	0.410206	4.88341
8/22/2006 15:33	19.9762	0.410206	4.88341
8/22/2006 15:33	19.9762	0.410206	10.9877
8/22/2006 15:34	19.9762	0.410206	16.8478
8/22/2006 15:34	19.9762	0.510316	14.8944
8/22/2006 15:34	19.9762	0.510316	9.03431
8/22/2006 15:34	19.9762	0.510316	6.83677
8/22/2006 15:35	19.8724	0.510316	6.83677
8/22/2006 15:35	19.8724	0.510316	10.9877
8/22/2006 15:35	19.8724	0.510316	14.8944
8/22/2006 15:35	19.8724	0.510316	10.9877
8/22/2006 15:36	19.8724	0.510316	6.83677
8/22/2006 15:36	19.8724	0.510316	4.88341
8/22/2006 15:36	19.8724	0.510316	2.68587
8/22/2006 15:36	19.8724	0.510316	8.79014
8/22/2006 15:37	19.8724	0.510316	14.8944
8/22/2006 15:37	19.8724	0.510316	12.941
8/22/2006 15:37	19.8724	0.510316	8.79014
8/22/2006 15:37	19.8724	0.510316	4.88341
8/22/2006 15:38	19.8724	0.510316	6.83677
8/22/2006 15:38	19.8724	0.510316	8.79014
8/22/2006 15:38	19.8724	0.510316	12.941
8/22/2006 15:38	19.8724	0.510316	10.7435
8/22/2006 15:39	19.8724	0.510316	6.83677
8/22/2006 15:39	19.8724	0.510316	2.93005
8/22/2006 15:39	19.8724	0.510316	2.93005
8/22/2006 15:39	19.8724	0.510316	6.83677
8/22/2006 15:40	19.9731	0.510316	12.6969
8/22/2006 15:40	19.9731	0.510316	10.9877
8/22/2006 15:40	19.9731	0.510316	6.83677
8/22/2006 15:40	19.9731	0.510316	6.83677
8/22/2006 15:41	19.9731	0.510316	4.88341
8/22/2006 15:41	19.9731	0.510316	8.79014
8/22/2006 15:41	19.9731	0.510316	12.941
8/22/2006 15:41	19.9731	0.510316	9.03431
8/22/2006 15:42	19.9731	0.510316	4.88341
8/22/2006 15:42	19.9731	0.510316	2.93005
8/22/2006 15:42	19.9731	0.510316	2.93005
8/22/2006 15:42	19.9731	0.510316	6.83677
8/22/2006 15:43	19.9731	0.510316	12.941
8/22/2006 15:43	19.9731	0.510316	10.9877
8/22/2006 15:43	19.9731	0.510316	6.83677

8/22/2006 15:43	19.9731	0.510316	4.88341
8/22/2006 15:44	19.9731	0.510316	4.88341
8/22/2006 15:44	19.9731	0.510316	9.03431
8/22/2006 15:44	19.9731	0.510316	10.9877
8/22/2006 15:44	19.9731	0.510316	8.79014
8/22/2006 15:45	19.9731	0.510316	4.88341
8/22/2006 15:45	19.9731	0.510316	2.93005
8/22/2006 15:45	19.9731	0.510316	4.88341
8/22/2006 15:45	20.1807	0.410206	8.79014
8/22/2006 15:51	20.3943	0.209987	10.7435
8/22/2006 15:51	20.3943	0.209987	14.8944
8/22/2006 15:51	20.3943	0.209987	18.8011
8/22/2006 15:51	20.2906	0.209987	26.8587
8/22/2006 15:52	20.2906	0.209987	26.8587
8/22/2006 15:52	20.2906	0.209987	18.8011
8/22/2006 15:52	20.2906	0.209987	10.9877
8/22/2006 15:52	20.2906	0.209987	9.03431
8/22/2006 15:53	20.2906	0.310096	8.79014
8/22/2006 15:53	20.2906	0.310096	12.941
8/22/2006 15:53	20.2906	0.310096	14.8944
8/22/2006 15:53	20.1868	0.310096	10.7435
8/22/2006 15:54	20.1868	0.310096	4.88341
8/22/2006 15:54	20.1868	0.310096	4.88341
8/22/2006 15:54	20.1868	0.310096	4.88341
8/22/2006 15:54	20.1868	0.310096	10.9877
8/22/2006 15:55	20.1868	0.310096	14.8944
8/22/2006 15:55	20.1868	0.310096	10.9877
8/22/2006 15:55	20.1868	0.310096	6.83677
8/22/2006 15:55	20.1868	0.310096	4.88341
8/22/2006 15:56	20.1868	0.310096	4.88341
8/22/2006 15:56	20.1868	0.310096	6.83677
8/22/2006 15:56	20.1868	0.310096	10.9877
8/22/2006 15:56	20.1868	0.310096	6.83677
8/22/2006 15:57	20.1868	0.410206	4.88341
8/22/2006 15:57	20.1868	0.410206	2.93005
8/22/2006 15:57	20.1868	0.410206	3.17422
8/22/2006 15:57	20.1868	0.410206	6.83677
8/22/2006 15:58	20.1868	0.410206	10.9877
8/22/2006 15:58	20.0861	0.410206	8.79014
8/22/2006 15:58	20.0861	0.410206	6.83677
8/22/2006 15:58	20.0861	0.410206	4.88341
8/22/2006 15:59	20.0861	0.410206	2.93005
8/22/2006 15:59	20.0861	0.410206	4.88341
8/22/2006 15:59	20.0861	0.410206	9.03431
8/22/2006 15:59	20.0861	0.410206	6.83677
8/22/2006 16:00	20.0861	0.410206	2.93005
8/22/2006 16:00	20.0861	0.410206	2.93005
8/22/2006 16:00	20.0861	0.410206	2.93005
8/22/2006 16:00	20.0861	0.410206	4.88341
8/22/2006 16:01	20.0861	0.410206	8.79014
8/22/2006 16:01	19.9853	0.510316	6.83677
8/22/2006 16:01	19.9853	0.510316	4.88341
8/22/2006 16:01	19.9853	0.510316	2.93005
8/22/2006 16:02	19.9853	0.510316	2.93005

8/22/2006 16:02	19.9853	0.510316	4.88341
8/22/2006 16:02	19.9853	0.510316	9.03431
8/22/2006 16:02	19.9853	0.510316	6.83677
8/22/2006 16:03	19.9853	0.510316	2.93005
8/22/2006 16:03	19.9853	0.510316	2.93005
8/22/2006 16:03	19.9853	0.510316	2.93005
8/22/2006 16:03	19.9853	0.510316	4.88341
8/22/2006 16:04	20.0952	0.510316	6.83677
8/22/2006 16:04	20.0952	0.510316	6.83677
8/22/2006 16:04	20.0952	0.510316	2.93005
8/22/2006 16:04	20.0952	0.510316	2.93005
8/22/2006 16:05	20.0952	0.510316	2.93005
8/22/2006 16:05	20.0952	0.510316	5.12758
8/22/2006 16:05	20.0952	0.510316	7.08094
8/22/2006 16:05	20.0952	0.510316	4.88341
8/22/2006 16:06	20.0952	0.510316	2.93005
8/22/2006 16:06	20.0952	0.510316	0.976682
8/22/2006 16:06	20.0952	0.510316	2.93005
8/22/2006 16:06	20.0952	0.510316	4.88341
8/22/2006 16:07	20.0952	0.510316	8.79014
8/22/2006 16:07	20.0952	0.510316	7.08094
8/22/2006 16:07	20.0952	0.510316	2.93005
8/22/2006 16:07	20.0952	0.510316	2.93005
8/22/2006 16:08	20.0952	0.510316	2.93005
8/22/2006 16:08	20.0952	0.510316	4.88341
8/22/2006 16:08	20.0952	0.510316	9.03431
8/22/2006 16:08	20.0952	0.510316	6.83677
8/22/2006 16:09	20.0952	0.410206	2.93005
8/22/2006 16:09	20.0952	0.410206	2.93005
8/22/2006 16:09	20.1959	0.410206	2.93005
8/22/2006 16:09	20.1959	0.410206	6.83677
8/22/2006 16:10	20.2967	0.310096	9.03431
8/22/2006 16:10	20.2967	0.310096	8.79014
8/22/2006 16:19	20.2936	0.209987	52.7408
8/22/2006 16:19	20.2936	0.209987	34.6722
8/22/2006 16:19	20.2936	0.209987	20.9987
8/22/2006 16:19	20.2936	0.209987	16.8478
8/22/2006 16:20	20.2936	0.209987	18.8011
8/22/2006 16:20	20.2936	0.209987	26.8587
8/22/2006 16:20	20.2936	0.209987	26.8587
8/22/2006 16:20	20.2936	0.209987	18.8011
8/22/2006 16:21	20.2936	0.209987	12.941
8/22/2006 16:21	20.2936	0.209987	14.8944
8/22/2006 16:21	20.2936	0.209987	24.9054
8/22/2006 16:21	20.2936	0.209987	44.9274
8/22/2006 16:22	20.2936	0.209987	46.8807
8/22/2006 16:22	20.2936	0.209987	30.7655
8/22/2006 16:22	20.2936	0.209987	16.8478
8/22/2006 16:22	20.2936	0.209987	14.8944
8/22/2006 16:23	20.2936	0.209987	16.8478
8/22/2006 16:23	20.2936	0.209987	22.7079
8/22/2006 16:23	20.2936	0.209987	22.952
8/22/2006 16:23	20.2936	0.209987	14.8944
8/22/2006 16:24	20.2936	0.209987	10.9877

8/22/2006 16:24	20.2936	0.209987	10.9877
8/22/2006 16:24	20.2936	0.209987	16.8478
8/22/2006 16:24	20.2936	0.209987	30.7655
8/22/2006 16:25	20.2936	0.209987	32.7188
8/22/2006 16:25	20.2936	0.209987	20.9987
8/22/2006 16:25	20.2936	0.209987	10.9877
8/22/2006 16:25	20.2936	0.209987	9.03431
8/22/2006 16:26	20.2936	0.209987	10.9877
8/22/2006 16:26	20.2936	0.209987	14.8944
8/22/2006 16:26	20.2936	0.209987	16.8478
8/22/2006 16:26	20.2936	0.209987	10.9877
8/22/2006 16:27	20.2936	0.209987	6.83677
8/22/2006 16:27	20.2936	0.209987	6.5926
8/22/2006 16:27	20.2936	0.209987	8.79014
8/22/2006 16:27	20.2936	0.209987	16.8478
8/22/2006 16:28	20.2936	0.209987	20.7545
8/22/2006 16:28	20.2936	0.209987	12.941
8/22/2006 16:28	20.2936	0.209987	9.03431
8/22/2006 16:28	20.2936	0.209987	6.83677
8/22/2006 16:29	20.2936	0.310096	7.08094
8/22/2006 16:29	20.2936	0.310096	10.9877
8/22/2006 16:29	20.2936	0.310096	12.941
8/22/2006 16:29	20.2936	0.310096	8.79014
8/22/2006 16:30	20.2936	0.310096	4.88341
8/22/2006 16:30	20.2936	0.310096	2.93005
8/22/2006 16:30	20.2936	0.310096	4.88341
8/22/2006 16:30	20.2936	0.310096	12.941
8/22/2006 16:31	20.2936	0.310096	14.8944
8/22/2006 16:31	20.2936	0.310096	10.9877
8/22/2006 16:31	20.2936	0.310096	6.83677
8/22/2006 16:31	20.2936	0.310096	4.88341
8/22/2006 16:32	20.2936	0.310096	4.88341
8/22/2006 16:32	20.1898	0.310096	8.79014
8/22/2006 16:32	20.1898	0.310096	10.9877
8/22/2006 16:32	20.1898	0.310096	6.83677
8/22/2006 16:33	20.1898	0.310096	2.93005
8/22/2006 16:33	20.1898	0.310096	2.93005
8/22/2006 16:33	20.1898	0.310096	4.88341
8/22/2006 16:33	20.1898	0.310096	8.79014
8/22/2006 16:34	20.1898	0.310096	12.941
8/22/2006 16:34	20.1898	0.310096	8.79014
8/22/2006 16:34	20.1898	0.310096	4.88341
8/22/2006 16:34	20.1898	0.310096	4.88341
8/22/2006 16:35	20.1898	0.310096	4.88341
8/22/2006 16:35	20.1898	0.310096	9.03431
8/22/2006 16:35	20.1898	0.310096	8.79014
8/22/2006 16:35	20.1898	0.310096	6.83677
8/22/2006 16:36	20.1898	0.310096	4.88341
8/22/2006 16:36	20.1898	0.310096	2.93005
8/22/2006 16:36	20.1898	0.310096	4.88341

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	O2	CO2	CO	THC	Inlet
8/22/2006 8:35	20.9834	0.141619	50.7874	3.05213	41.509
8/22/2006 8:35	20.9834	0.141619	50.7874	2.68587	14.6502
8/22/2006 8:35	20.9834	0.141619	52.7408	2.4417	68.3677
8/22/2006 8:36	20.9834	0.141619	66.6585	1.58711	92.7848
8/22/2006 8:36	20.9834	0.141619	96.9357	3.2963	115.981
8/22/2006 8:36	20.9834	0.141619	146.746	2.68587	167.257
8/22/2006 8:36	20.9834	0.141619	174.826	2.80796	164.815
8/22/2006 8:37	20.9834	0.141619	132.829	2.31962	180.686
8/22/2006 8:37	20.9834	0.141619	83.0179	3.17422	202.661
8/22/2006 8:37	20.9834	0.141619	66.9027	3.2963	224.637
8/22/2006 8:37	20.9834	0.141619	70.8094	3.66256	228.299
8/22/2006 8:38	20.9834	0.141619	90.8314	4.39507	236.845
8/22/2006 8:38	20.9834	0.141619	104.993	2.56379	269.808
8/22/2006 8:38	20.9834	0.141619	80.8204	2.4417	262.483
8/22/2006 8:38	20.9834	0.141619	50.7874	2.68587	280.796
8/22/2006 8:39	20.9834	0.141619	42.974	2.56379	303.992
8/22/2006 8:39	20.9834	0.141619	54.6942	3.41839	302.771
8/22/2006 8:39	20.9834	0.141619	86.9247	9.64473	360.151
8/22/2006 8:39	20.8827	0.141619	112.807	7.81345	354.047
8/22/2006 8:40	20.8827	0.241729	84.9713	6.34843	323.526
8/22/2006 8:40	20.8827	0.241729	44.9274	7.20303	402.881
8/22/2006 8:40	20.8827	0.241729	29.0563	7.4472	376.022
8/22/2006 8:40	20.8827	0.241729	28.8121	7.20303	339.397
8/22/2006 8:41	20.8827	0.241729	36.8697	7.93554	406.544
8/22/2006 8:41	20.8827	0.241729	44.9274	5.24966	343.059
8/22/2006 8:41	20.8827	0.241729	36.8697	5.24966	405.323
8/22/2006 8:41	20.8827	0.241729	22.952	4.88341	433.403
8/22/2006 8:42	20.8827	0.241729	16.8478	5.00549	417.531
8/22/2006 8:42	20.8827	0.241729	20.9987	4.76132	377.243
8/22/2006 8:42	20.8827	0.241729	36.8697	12.2085	426.077
8/22/2006 8:42	20.8827	0.241729	54.9383	10.2552	380.906
8/22/2006 8:43	20.8827	0.241729	44.9274	8.79014	377.243
8/22/2006 8:43	20.8827	0.241729	24.9054	8.42388	433.403
8/22/2006 8:43	20.8827	0.241729	16.8478	8.54597	426.077
8/22/2006 8:43	20.8827	0.241729	16.8478	9.27848	489.562
8/22/2006 8:44	20.8827	0.241729	22.7079	9.52265	397.998
8/22/2006 8:44	20.8827	0.241729	28.8121	7.4472	509.095
8/22/2006 8:44	20.8827	0.241729	22.952	6.95886	472.47
8/22/2006 8:44	20.8827	0.241729	12.941	6.47052	478.574
8/22/2006 8:45	20.8827	0.241729	9.03431	6.34843	462.703
8/22/2006 8:45	20.8827	0.241729	10.9877	5.86009	407.765

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8/22/2006 8:45	20.8827	0.241729	20.7545	13.5515	474.911
8/22/2006 8:45	20.8827	0.241729	34.9164	11.2318	459.04
8/22/2006 8:46	20.8827	0.241729	28.8121	11.1098	493.224
8/22/2006 8:46	20.8827	0.241729	16.8478	11.5981	511.537
8/22/2006 8:46	20.8827	0.241729	10.7435	10.6214	488.341
8/22/2006 8:46	20.8827	0.241729	10.9877	10.3772	489.562
8/22/2006 8:47	20.782	0.241729	12.941	10.4993	476.132
8/22/2006 8:47	20.782	0.241729	18.8011	8.05762	505.433
8/22/2006 8:47	20.782	0.241729	16.8478	6.71469	443.169
8/22/2006 8:47	20.782	0.241729	8.79014	6.5926	476.132
8/22/2006 8:48	20.782	0.241729	6.83677	6.47052	499.329
8/22/2006 8:48	20.782	0.241729	8.79014	6.47052	506.654
8/22/2006 8:48	20.782	0.241729	14.8944	15.3827	488.341
8/22/2006 8:48	20.782	0.241729	22.952	12.4527	502.991
8/22/2006 8:49	20.782	0.241729	18.8011	12.2085	542.058
8/22/2006 8:49	20.782	0.241729	10.7435	11.5981	473.691
8/22/2006 8:49	20.782	0.241729	7.08094	10.7435	454.157
8/22/2006 8:49	20.782	0.241729	7.08094	12.4527	496.887
8/22/2006 8:50	20.782	0.241729	10.9877	12.6969	485.899
8/22/2006 8:50	20.782	0.241729	14.8944	9.27848	570.138
8/22/2006 8:50	20.782	0.241729	12.941	8.17971	474.911
8/22/2006 8:50	20.782	0.241729	6.83677	7.20303	493.224
8/22/2006 8:51	20.782	0.241729	4.88341	6.95886	515.2
8/22/2006 8:51	20.782	0.241729	4.88341	6.34843	482.237
8/22/2006 8:51	20.782	0.241729	10.9877	14.8944	518.862
8/22/2006 8:51	20.782	0.241729	16.8478	12.5748	526.187
8/22/2006 8:52	20.782	0.241729	14.8944	11.5981	504.212
8/22/2006 8:52	20.782	0.241729	9.03431	10.4993	498.108
8/22/2006 8:52	20.782	0.241729	4.88341	10.3772	450.494
8/22/2006 8:52	20.782	0.241729	7.08094	11.7202	535.954
8/22/2006 8:53	20.782	0.241729	8.79014	11.5981	511.537
8/22/2006 8:53	20.782	0.241729	12.941	9.40056	501.77
8/22/2006 8:53	20.782	0.241729	10.9877	7.81345	366.256
8/22/2006 8:53	20.782	0.241729	6.83677	5.98218	249.054
8/22/2006 8:54	20.782	0.241729	4.88341	4.63924	256.379
8/22/2006 9:00	20.8827	0.141619	54.6942	2.4417	45.1715
8/22/2006 9:00	20.8827	0.141619	64.7052	3.17422	68.3677
8/22/2006 9:00	20.8827	0.141619	80.8204	2.93005	104.993
8/22/2006 9:00	20.8827	0.141619	86.9247	2.93005	134.294
8/22/2006 9:01	20.8827	0.141619	68.8561	3.2963	148.944
8/22/2006 9:01	20.8827	0.141619	48.8341	3.66256	168.478
8/22/2006 9:01	20.8827	0.141619	41.0206	3.66256	192.895
8/22/2006 9:01	20.8827	0.141619	44.9274	4.39507	208.766
8/22/2006 9:02	20.8827	0.141619	56.8917	4.63924	209.987

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8/22/2006 9:02	20.8827	0.141619	64.7052	3.2963	222.195
8/22/2006 9:02	20.782	0.141619	52.7408	3.05213	233.183
8/22/2006 9:02	20.782	0.141619	34.6722	2.93005	246.612
8/22/2006 9:03	20.782	0.141619	31.0096	3.2963	274.692
8/22/2006 9:03	20.782	0.141619	44.9274	3.66256	286.9
8/22/2006 9:03	20.782	0.141619	76.9137	9.15639	305.213
8/22/2006 9:03	20.782	0.141619	104.749	7.56928	332.072
8/22/2006 9:04	20.782	0.141619	80.8204	7.56928	335.734
8/22/2006 9:04	20.782	0.141619	40.7765	7.08094	346.722
8/22/2006 9:04	20.782	0.141619	22.952	7.32511	357.71
8/22/2006 9:04	20.782	0.141619	22.952	7.69137	361.372
8/22/2006 9:05	20.782	0.141619	29.0563	8.54597	380.906
8/22/2006 9:05	20.782	0.141619	36.6256	6.22635	379.685
8/22/2006 9:05	20.6812	0.241729	31.0096	5.98218	372.36
8/22/2006 9:05	20.6812	0.241729	16.8478	5.73801	389.452
8/22/2006 9:06	20.6812	0.241729	12.941	5.12758	384.568
8/22/2006 9:06	20.6812	0.241729	14.8944	5.00549	408.985
8/22/2006 9:06	20.6812	0.241729	30.7655	13.6735	413.869
8/22/2006 9:06	20.6812	0.241729	49.0783	11.2318	437.065
8/22/2006 9:07	20.6812	0.241729	38.8231	10.3772	430.961
8/22/2006 9:07	20.6812	0.241729	18.8011	10.6214	435.844
8/22/2006 9:07	20.6812	0.241729	8.79014	10.2552	440.728
8/22/2006 9:07	20.6812	0.241729	8.79014	9.03431	406.544
8/22/2006 9:08	20.5805	0.241729	14.8944	10.2552	421.194
8/22/2006 9:08	20.5805	0.241729	20.7545	8.05762	405.323
8/22/2006 9:08	20.5805	0.241729	16.8478	7.20303	457.82
8/22/2006 9:08	20.5805	0.241729	8.79014	7.20303	462.703
8/22/2006 9:09	20.5805	0.241729	4.88341	6.95886	456.599
8/22/2006 9:09	20.5805	0.241729	4.88341	6.47052	492.003
8/22/2006 9:09	20.5805	0.241729	12.941	16.1152	467.586
8/22/2006 9:09	20.5805	0.241729	24.9054	12.941	472.47
8/22/2006 9:10	20.5805	0.241729	20.7545	12.3306	444.39
8/22/2006 9:10	20.5805	0.241729	9.03431	11.5981	467.586
8/22/2006 9:10	20.5805	0.241729	4.88341	11.3539	438.286
8/22/2006 9:10	20.5805	0.241729	4.88341	11.3539	451.715
8/22/2006 9:11	20.5805	0.241729	8.79014	11.8423	493.224
8/22/2006 9:11	20.5805	0.241729	12.941	9.52265	509.095
8/22/2006 9:11	20.5805	0.241729	10.9877	8.42388	524.966
8/22/2006 9:11	20.5805	0.241729	4.88341	8.05762	490.783
8/22/2006 9:12	20.5805	0.241729	0.732511	7.69137	483.457
8/22/2006 9:12	20.4798	0.241729	0.732511	7.69137	532.292
8/22/2006 9:12	20.4798	0.241729	6.83677	17.7024	509.095
8/22/2006 9:12	20.4798	0.241729	14.8944	14.4061	485.899
8/22/2006 9:13	20.4798	0.241729	12.941	13.7956	474.911

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8/22/2006 9:13	20.4798	0.241729	4.88341	13.4294	495.666
8/22/2006 9:13	20.4798	0.241729	0.976682	13.0631	510.316
8/22/2006 9:13	20.4798	0.241729	0.976682	12.0864	456.599
8/22/2006 9:14	20.4798	0.241729	2.93005	13.4294	466.366
8/22/2006 9:14	20.4798	0.241729	6.83677	10.1331	466.366
8/22/2006 9:14	20.4798	0.241729	4.88341	9.52265	478.574
8/22/2006 9:14	20.4798	0.241729	0.732511	8.42388	504.212
8/22/2006 9:15	20.4798	0.241729	-0.97668	8.30179	492.003
8/22/2006 9:15	20.4798	0.241729	-0.97668	8.30179	482.237
8/22/2006 9:15	20.4798	0.241729	4.88341	17.5803	511.537
8/22/2006 9:15	20.4798	0.241729	10.9877	15.2607	457.82
8/22/2006 9:16	20.4798	0.241729	10.9877	14.4061	522.525
8/22/2006 9:16	20.4798	0.241729	2.68587	13.5515	507.874
8/22/2006 9:16	20.4798	0.241729	0.976682	13.3073	520.083
8/22/2006 9:16	20.4798	0.241729	-0.97668	13.0631	515.2
8/22/2006 9:17	20.373	0.241729	0.732511	13.9177	490.783
8/22/2006 9:17	20.373	0.241729	7.08094	10.4993	502.991
8/22/2006 9:17	20.373	0.241729	4.63924	10.011	505.433
8/22/2006 9:17	20.373	0.241729	-0.73251	9.40056	496.887
8/22/2006 9:18	20.373	0.241729	-2.93005	8.54597	554.267
8/22/2006 9:18	20.373	0.241729	-0.97668	8.54597	532.292
8/22/2006 9:18	20.373	0.241729	2.93005	19.1674	506.654
8/22/2006 9:18	20.373	0.241729	8.79014	15.2607	493.224
8/22/2006 9:19	20.373	0.241729	6.83677	14.5281	481.016
8/22/2006 9:19	20.373	0.241729	0.976682	14.284	481.016
8/22/2006 9:19	20.373	0.241729	-0.97668	14.1619	515.2
8/22/2006 9:19	20.373	0.241729	-1.22085	12.5748	472.47
8/22/2006 9:20	20.373	0.241729	0.976682	14.1619	455.378
8/22/2006 9:20	20.373	0.241729	4.63924	11.1098	439.507
8/22/2006 9:20	20.373	0.241729	2.93005	9.15639	341.839
8/22/2006 9:20	20.373	0.241729	-1.22085	7.69137	250.275
8/22/2006 9:32	20.1593	0.139177	54.9383	4.63924	34.1839
8/22/2006 9:32	20.1593	0.139177	62.7518	3.2963	30.5213
8/22/2006 9:32	20.1593	0.139177	61.0426	3.66256	30.5213
8/22/2006 9:32	20.1593	0.139177	54.9383	4.1509	30.5213
8/22/2006 9:33	20.1593	0.139177	58.8451	8.17971	166.036
8/22/2006 9:33	20.1593	0.139177	74.9603	10.6214	119.644
8/22/2006 9:33	20.0372	0.139177	148.7	5.73801	52.4966
8/22/2006 9:33	19.9304	0.139177	212.917	4.63924	50.0549
8/22/2006 9:34	19.9304	0.139177	169.21	4.39507	46.3924
8/22/2006 9:34	20.0311	0.139177	96.6915	3.90673	46.3924
8/22/2006 9:34	20.0311	0.139177	68.8561	4.39507	51.2758
8/22/2006 9:34	20.0311	0.139177	68.8561	4.51715	47.6132
8/22/2006 9:35	20.0311	0.139177	83.0179	4.63924	51.2758

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8/22/2006 9:35	20.1319	0.139177	94.9823	3.90673	50.0549
8/22/2006 9:35	20.1319	0.139177	84.9713	3.54047	50.0549
8/22/2006 9:35	20.1319	0.139177	71.0536	3.78464	48.8341
8/22/2006 9:36	20.1319	0.139177	74.7162	4.88341	45.1715
8/22/2006 9:36	20.1319	0.139177	96.9357	6.34843	47.6132
8/22/2006 9:36	20.1319	0.139177	130.875	5.00549	50.0549
8/22/2006 9:36	20.1319	0.139177	144.793	4.02881	47.6132
8/22/2006 9:37	20.1319	0.139177	108.9	4.02881	50.0549
8/22/2006 9:37	20.1319	0.139177	66.9027	4.1509	50.0549
8/22/2006 9:37	20.1319	0.139177	51.0316	4.27298	42.7298
8/22/2006 9:37	20.1319	0.139177	56.8917	4.39507	54.9383
8/22/2006 9:38	20.1319	0.139177	76.9137	4.88341	54.9383
8/22/2006 9:38	20.1319	0.139177	92.5406	4.02881	64.7052
8/22/2006 9:38	20.1319	0.139177	84.9713	3.78464	52.4966
8/22/2006 9:38	20.1319	0.139177	72.7628	4.39507	48.8341
8/22/2006 9:39	20.1319	0.139177	80.8204	5.73801	57.3801
8/22/2006 9:39	20.1319	0.139177	106.947	8.17971	73.2511
8/22/2006 9:39	20.1319	0.139177	140.642	5.49383	76.9137
8/22/2006 9:39	20.1319	0.139177	156.757	4.76132	68.3677
8/22/2006 9:40	20.1319	0.139177	118.911	4.76132	76.9137
8/22/2006 9:40	20.1319	0.139177	74.9603	4.63924	79.3554
8/22/2006 9:40	20.1319	0.139177	60.7984	5.12758	96.4473
8/22/2006 9:40	20.1319	0.139177	68.8561	5.49383	89.1222
8/22/2006 9:41	20.1319	0.139177	94.9823	5.37175	95.2265
8/22/2006 9:41	20.1319	0.139177	116.958	4.51715	119.644
8/22/2006 9:41	20.1319	0.139177	103.04	3.90673	111.098
8/22/2006 9:41	20.1319	0.139177	80.8204	4.63924	111.098
8/22/2006 9:42	20.1319	0.139177	80.8204	6.47052	122.085
8/22/2006 9:42	20.1319	0.139177	116.958	7.93554	130.631
8/22/2006 9:42	20.1319	0.139177	178.733	8.05762	140.398
8/22/2006 9:42	20.1319	0.139177	210.963	6.34843	146.502
8/22/2006 9:43	20.1319	0.139177	154.804	6.47052	159.932
8/22/2006 9:43	20.1319	0.139177	84.9713	6.5926	167.257
8/22/2006 9:43	20.1319	0.139177	56.8917	6.71469	168.478
8/22/2006 9:43	20.1319	0.139177	62.7518	7.56928	179.465
8/22/2006 9:44	20.1319	0.139177	86.9247	7.32511	185.57
8/22/2006 9:44	20.1319	0.139177	106.947	6.10426	217.312
8/22/2006 9:44	20.1319	0.139177	86.9247	5.37175	169.698
8/22/2006 9:44	20.1319	0.139177	52.985	5.61592	140.398
8/22/2006 9:45	20.0281	0.139177	48.8341	5.73801	139.177
8/22/2006 9:45	20.0281	0.139177	82.7738	8.17971	197.778
8/22/2006 9:45	20.0281	0.139177	152.851	9.76682	214.87
8/22/2006 9:45	20.0281	0.139177	204.859	9.27848	235.624
8/22/2006 9:46	20.0281	0.139177	152.851	8.17971	246.612

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8/22/2006 9:46	20.0281	0.139177	76.6695	8.54597	241.729
8/22/2006 9:46	20.0281	0.139177	42.7298	8.42388	247.833
8/22/2006 9:46	20.0281	0.239287	40.7765	9.03431	264.925
8/22/2006 9:47	20.0281	0.239287	56.6475	9.15639	272.25
8/22/2006 9:47	20.0281	0.239287	74.9603	7.69137	260.042
8/22/2006 9:47	20.0281	0.239287	60.7984	6.83677	291.784
8/22/2006 9:47	20.0281	0.239287	30.7655	6.22635	290.563
8/22/2006 9:48	20.0281	0.239287	18.8011	6.47052	296.667
8/22/2006 9:48	20.0281	0.239287	28.8121	6.95886	314.98
8/22/2006 9:48	20.0281	0.239287	62.7518	14.0398	302.771
8/22/2006 9:48	20.0281	0.239287	106.947	11.476	341.839
8/22/2006 9:49	20.0281	0.239287	86.9247	10.9877	350.385
8/22/2006 9:49	20.0281	0.239287	42.974	10.6214	318.642
8/22/2006 9:49	20.0281	0.239287	20.7545	10.8656	343.059
8/22/2006 9:49	20.0281	0.239287	18.8011	10.8656	357.71
8/22/2006 9:50	20.0281	0.239287	26.6146	11.2318	354.047
8/22/2006 9:50	20.0281	0.239287	41.0206	9.40056	389.452
8/22/2006 9:50	20.0281	0.239287	32.7188	9.15639	388.231
8/22/2006 9:50	20.0281	0.239287	14.8944	8.54597	358.931
8/22/2006 9:51	20.0281	0.239287	6.83677	8.30179	374.802
8/22/2006 9:51	20.0281	0.239287	9.03431	8.30179	401.66
8/22/2006 9:51	20.0281	0.239287	22.952	17.9465	440.728
8/22/2006 9:51	20.0281	0.239287	46.8807	14.4061	361.372
8/22/2006 9:52	20.0281	0.339397	42.974 b		418.752
8/22/2006 9:52	19.9274	0.339397	20.7545	13.7956	432.182
8/22/2006 9:52	19.9274	0.339397	9.03431	13.4294	441.948
8/22/2006 9:52	19.9274	0.339397	6.83677	13.9177	444.39
8/22/2006 9:53	19.9274	0.339397	12.941	13.7956	419.973
8/22/2006 9:53	19.9274	0.339397	22.952	11.476	474.911
8/22/2006 9:53	19.9274	0.339397	18.8011	10.6214	544.5
8/22/2006 9:53	19.9274	0.339397	8.79014	10.3772	490.783
8/22/2006 9:54	19.9274	0.339397	2.68587	9.40056	510.316
8/22/2006 9:54	19.9274	0.339397	0.976682	9.8889	502.991
8/22/2006 9:54	19.9274	0.339397	4.88341	21.1207	550.604
8/22/2006 9:54	19.9274	0.339397	14.8944	18.0686	492.003
8/22/2006 9:55	19.9274	0.339397	16.8478	13.3073	300.33
	20.48229	0.206406	44.51237	8.224281	328.5154

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	O2	CO2	CO	THC	Inlet
8/22/2006 10:43	21.2642	0.107435	73.007	5.37175	14.6502
8/22/2006 10:43	21.2642	0.107435	62.7518	5.49383	12.2085
8/22/2006 10:43	21.2642	0.107435	62.996	5.73801	415.09
8/22/2006 10:43	21.2642	0.107435	70.8094	8.79014	73.2511
8/22/2006 10:44	21.2642	0.107435	93.0289	7.4472	58.6009
8/22/2006 10:44	21.0597	0.21487	118.667	5.24966	54.9383
8/22/2006 10:44	21.1665	0.21487	110.853	5.49383	56.1592
8/22/2006 10:44	21.1665	0.21487	93.0289	5.37175	56.1592
8/22/2006 10:45	21.1665	0.21487	102.796	6.95886	61.0426
8/22/2006 10:45	21.1665	0.21487	136.735	8.54597	65.926
8/22/2006 10:45	21.1665	0.21487	182.884	6.5926	64.7052
8/22/2006 10:45	21.1665	0.21487	198.999	6.10426	65.926
8/22/2006 10:46	21.1665	0.21487	146.502	5.24966	63.4843
8/22/2006 10:46	21.1665	0.21487	90.8314	5.73801	65.926
8/22/2006 10:46	21.1665	0.21487	72.7628	5.73801	70.8094
8/22/2006 10:46	21.1665	0.21487	80.8204	6.83677	64.7052
8/22/2006 10:47	21.1665	0.21487	108.9	6.10426	67.1469
8/22/2006 10:47	21.1665	0.21487	130.875	5.86009	67.1469
8/22/2006 10:47	21.1665	0.21487	116.713	5.37175	64.7052
8/22/2006 10:47	21.1665	0.21487	94.7381	5.98218	68.3677
8/22/2006 10:48	21.1665	0.21487	96.9357	7.32511	73.2511
8/22/2006 10:48	21.1665	0.21487	122.818	8.54597	74.472
8/22/2006 10:48	21.1665	0.21487	168.966	7.93554	80.5762
8/22/2006 10:48	21.1665	0.21487	186.79	6.47052	87.9014
8/22/2006 10:49	21.1665	0.21487	142.84	6.71469	95.2265
8/22/2006 10:49	21.1665	0.21487	86.9247	6.5926	92.7848
8/22/2006 10:49	21.1665	0.21487	68.8561	6.47052	102.552
8/22/2006 10:49	21.1665	0.21487	76.9137	6.95886	101.331
8/22/2006 10:50	21.1665	0.21487	104.993	7.32511	115.981
8/22/2006 10:50	21.1665	0.21487	128.922	6.47052	129.41
8/22/2006 10:50	21.1665	0.21487	108.9	5.86009	126.969
8/22/2006 10:50	21.1665	0.21487	78.867	5.73801	140.398
8/22/2006 10:51	21.1665	0.21487	78.6229	6.5926	147.723
8/22/2006 10:51	21.1665	0.21487	113.051	8.42388	156.269
8/22/2006 10:51	21.1665	0.21487	178.733	9.8889	162.373
8/22/2006 10:51	21.1665	0.21487	222.683	8.54597	161.152
8/22/2006 10:52	21.1665	0.21487	168.722	8.05762	175.803
8/22/2006 10:52	21.1665	0.21487	92.7848	8.30179	189.232
8/22/2006 10:52	21.1665	0.21487	64.7052	8.30179	200.22
8/22/2006 10:52	21.1665	0.21487	68.8561	8.54597	198.999

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8/22/2006 10:53	21.1665	0.21487	90.8314	9.40056	197.778
8/22/2006 10:53	21.1665	0.21487	114.76	7.69137	216.091
8/22/2006 10:53	21.1665	0.21487	93.0289	7.08094	212.428
8/22/2006 10:53	21.1665	0.21487	58.8451	6.71469	212.428
8/22/2006 10:54	21.1665	0.21487	50.5433	7.08094	223.416
8/22/2006 10:54	21.1665	0.21487	74.9603	7.81345	219.753
8/22/2006 10:54	21.1665	0.21487	138.933	12.2085	220.974
8/22/2006 10:54	21.1665	0.21487	198.755	10.2552	230.741
8/22/2006 10:55	21.1665	0.21487	156.757	10.1331	257.6
8/22/2006 10:55	21.1665	0.21487	82.7738	9.76682	245.391
8/22/2006 10:55	21.1665	0.21487	50.7874	9.76682	261.262
8/22/2006 10:55	21.1665	0.21487	48.8341	10.2552	294.225
8/22/2006 10:56	21.1665	0.21487	66.9027	11.9644	295.446
8/22/2006 10:56	21.1665	0.21487	84.9713	10.011	289.342
8/22/2006 10:56	21.1665	0.21487	68.6119	8.66805	306.434
8/22/2006 10:56	21.1665	0.21487	40.7765	8.79014	332.072
8/22/2006 10:57	21.1665	0.21487	31.0096	8.66805	330.851
8/22/2006 10:57	21.0658	0.21487	38.8231	8.66805	330.851
8/22/2006 10:57	21.0658	0.21487	74.9603	16.4815	341.839
8/22/2006 10:57	21.0658	0.21487	126.724	14.284	368.697
8/22/2006 10:58	21.0658	0.21487	108.9	13.5515	374.802
8/22/2006 10:58	21.0658	0.21487	56.8917	13.6735	396.777
8/22/2006 10:58	21.0658	0.21487	30.7655	13.0631	355.268
8/22/2006 10:58	21.0658	0.21487	28.8121	12.8189	362.593
8/22/2006 10:59	21.0658	0.21487	34.9164	15.8711	382.127
8/22/2006 10:59	21.0658	0.21487	46.8807	12.3306	394.335
8/22/2006 10:59	21.0658	0.21487	40.7765	10.9877	371.139
8/22/2006 10:59	21.0658	0.21487	24.9054	10.3772	387.01
8/22/2006 11:00	21.0658	0.21487	16.8478	9.76682	369.918
8/22/2006 11:00	21.0658	0.21487	18.8011	9.27848	407.765
8/22/2006 11:00	21.0658	0.21487	38.8231	19.0453	374.802
8/22/2006 11:00	21.0658	0.21487	68.8561	16.4815	372.36
8/22/2006 11:01	21.0658	0.21487	62.996	15.9932	441.948
8/22/2006 11:01	21.0658	0.21487	34.9164	15.5048	430.961
8/22/2006 11:01	21.0658	0.21487	20.7545	14.4061	404.102
8/22/2006 11:01	21.0658	0.21487	16.8478	13.6735	368.697
8/22/2006 11:02	21.0658	0.21487	20.7545	16.1152	428.519
8/22/2006 11:02	21.0658	0.21487	28.8121	13.9177	439.507
8/22/2006 11:02	21.0658	0.21487	24.9054	12.0864	413.869
8/22/2006 11:02	21.0658	0.21487	14.8944	11.7202	358.931
8/22/2006 11:03	20.9651	0.21487	10.9877	10.6214	372.36
8/22/2006 11:03	20.9651	0.21487	12.941	10.6214	356.489
8/22/2006 11:03	20.9651	0.21487	24.9054	19.7778	355.268
8/22/2006 11:03	20.9651	0.21487	41.0206	16.6036	335.734

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8/22/2006 11:04	20.9651	0.21487	36.8697	15.1386	335.734
8/22/2006 11:04	20.9651	0.21487	22.7079	13.9177	256.379
8/22/2006 11:09	21.1604	0.21487	62.7518	11.7202	354.047
8/22/2006 11:09	21.0505	0.21487	96.9357	16.1152	334.513
8/22/2006 11:09	21.0505	0.21487	196.801	19.7778	455.378
8/22/2006 11:09	21.0505	0.21487	292.76	18.0686	476.132
8/22/2006 11:10	21.0505	0.21487	230.741	17.0919	488.341
8/22/2006 11:10	21.0505	0.31498	110.853	16.4815	485.899
8/22/2006 11:10	20.9498	0.31498	52.985	16.7257	499.329
8/22/2006 11:10	20.9498	0.31498	36.8697	16.4815	493.224
8/22/2006 11:11	20.9498	0.31498	34.9164	17.7024	459.04
8/22/2006 11:11	20.9498	0.31498	42.974	15.1386	498.108
8/22/2006 11:11	20.9498	0.31498	36.8697	13.5515	493.224
8/22/2006 11:11	20.9498	0.31498	22.952	12.941	494.445
8/22/2006 11:12	20.9498	0.31498	12.941	12.5748	527.408
8/22/2006 11:12	20.9498	0.31498	12.941	12.4527	534.733
8/22/2006 11:12	20.9498	0.31498	18.8011	24.7833	556.709
8/22/2006 11:12	20.9498	0.31498	34.9164	20.7545	545.721
8/22/2006 11:13	20.9498	0.31498	34.9164	20.022	582.346
8/22/2006 11:13	20.9498	0.31498	22.952	19.0453	557.929
8/22/2006 11:13	20.9498	0.31498	12.941	19.2895	581.126
8/22/2006 11:13	20.9498	0.31498	12.941	18.8011	555.488
8/22/2006 11:14	20.9498	0.31498	12.941	20.8766	557.929
8/22/2006 11:14	20.9498	0.31498	20.7545	17.4582	578.684
8/22/2006 11:14	20.9498	0.31498	20.9987	15.3827	620.193
8/22/2006 11:14	20.9498	0.31498	12.941	15.0165	577.463
8/22/2006 11:15	20.8399	0.31498	8.79014	14.6502	625.076
8/22/2006 11:15	20.8399	0.31498	6.83677	14.0398	578.684
8/22/2006 11:15	20.8399	0.31498	10.9877	28.3238	595.776
8/22/2006 11:15	20.8399	0.31498	18.8011	23.4404	603.101
8/22/2006 11:16	20.8399	0.31498	20.7545	22.0974	594.555
8/22/2006 11:16	20.8399	0.31498	14.8944	21.6091	631.181
8/22/2006 11:16	20.8399	0.31498	10.9877	21.2428	605.543
8/22/2006 11:16	20.8399	0.31498	8.79014	20.8766	600.659
8/22/2006 11:17	20.8399	0.31498	9.03431	23.4404	621.414
8/22/2006 11:17	20.8399	0.31498	14.8944	19.2895	683.677
8/22/2006 11:17	20.8399	0.31498	16.8478	16.9698	599.438
8/22/2006 11:17	20.8399	0.31498	10.9877	16.3594	634.843
8/22/2006 11:18	20.8399	0.41509	6.83677	15.749	656.818
8/22/2006 11:18	20.8399	0.41509	6.83677	15.749	662.923
8/22/2006 11:18	20.8399	0.41509	6.83677	30.8876	688.561
8/22/2006 11:18	20.8399	0.41509	12.941	24.5391	622.635
8/22/2006 11:19	20.8399	0.41509	16.8478	23.1962	709.315
8/22/2006 11:19	20.8399	0.41509	12.941	21.9753	639.727

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8/22/2006 11:19	20.8399	0.41509	8.79014	21.6091	640.947
8/22/2006 11:19	20.8399	0.41509	6.83677	20.3882	653.156
8/22/2006 11:20	20.8399	0.41509	9.03431	24.6612	592.113
8/22/2006 11:20	20.8399	0.41509	10.9877	19.6557	581.126
8/22/2006 11:20	20.8399	0.41509	12.941	17.8244	571.359
8/22/2006 11:20	20.8399	0.41509	10.9877	16.6036	610.426
8/22/2006 11:21	20.8399	0.41509	6.83677	16.1152	617.751
8/22/2006 11:21	20.9407	0.41509	6.83677	15.3827	612.868
8/22/2006 11:21	20.9407	0.41509	7.08094	29.6667	601.88
8/22/2006 11:21	20.9407	0.41509	12.941	24.5391	625.076
8/22/2006 11:22	20.9407	0.41509	14.8944	22.8299	614.089
8/22/2006 11:22	20.9407	0.41509	10.9877	21.6091	603.101
8/22/2006 11:22	20.9407	0.41509	7.08094	21.2428	643.389
8/22/2006 11:22	20.9407	0.41509	7.08094	20.6324	601.88
8/22/2006 11:23	20.9407	0.41509	8.79014	25.2716	627.518
8/22/2006 11:23	20.9407	0.41509	12.6969	20.9987	636.064
8/22/2006 11:23	21.0414	0.41509	12.941	18.4349	618.972
8/22/2006 11:23	21.0414	0.41509	8.79014	17.3361	620.193
8/22/2006 11:24	21.0414	0.41509	6.83677	16.9698	600.659
8/22/2006 11:24	21.0414	0.41509	7.08094	16.6036	625.076
8/22/2006 11:24	21.0414	0.41509	6.83677	28.2017	611.647
8/22/2006 11:24	21.0414	0.41509	12.941	24.0508	618.972
8/22/2006 11:25	21.0414	0.41509	14.8944	22.3416	637.285
8/22/2006 11:25	21.0414	0.41509	10.9877	21.1207	687.34
8/22/2006 11:25	21.0414	0.41509	7.08094	21.2428	708.094
8/22/2006 11:25	21.0414	0.41509	6.83677	20.5103	684.898
8/22/2006 11:26	21.0414	0.41509	9.03431	25.5158	551.825
8/22/2006 11:26	21.0414	0.41509	10.9877	18.9232	463.924
8/22/2006 11:26	21.0414	0.41509	12.941	16.4815	324.747
8/22/2006 11:26	21.1482	0.31498	9.03431	13.6735	268.587
8/22/2006 11:59	21.4443	0.11476	162.618	10.011	126.969
8/22/2006 11:59	21.4443	0.11476	198.999	8.91222	263.704
8/22/2006 11:59	21.4443	0.11476	174.826	8.66805	246.612
8/22/2006 11:59	21.3405	0.21487	122.818	7.93554	234.404
8/22/2006 12:00	21.3405	0.21487	94.7381	8.54597	218.533
8/22/2006 12:00	21.3405	0.21487	116.958	10.1331	201.441
8/22/2006 12:00	21.3405	0.21487	186.79	13.7956	224.637
8/22/2006 12:00	21.3405	0.21487	258.821	11.3539	246.612
8/22/2006 12:01	21.3405	0.21487	202.661	10.2552	238.066
8/22/2006 12:01	21.3405	0.21487	102.796	10.3772	258.821
8/22/2006 12:01	21.3405	0.21487	56.8917	10.8656	275.913
8/22/2006 12:01	21.3405	0.21487	48.8341	10.8656	289.342
8/22/2006 12:02	21.3405	0.21487	58.8451	13.3073	285.679
8/22/2006 12:02	21.3405	0.21487	76.9137	10.4993	285.679

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8/22/2006 12:02	21.3405	0.21487	66.9027	9.64473	335.734
8/22/2006 12:02	21.2398	0.21487	38.8231	9.27848	324.747
8/22/2006 12:03	21.2398	0.21487	26.8587	9.76682	328.409
8/22/2006 12:03	21.2398	0.21487	31.0096	9.27848	323.526
8/22/2006 12:03	21.2398	0.21487	56.8917	18.4349	336.955
8/22/2006 12:03	21.2398	0.21487	104.749	15.749	367.476
8/22/2006 12:04	21.2398	0.21487	98.889	14.6502	393.114
8/22/2006 12:04	21.2398	0.21487	54.6942	14.6502	382.127
8/22/2006 12:04	21.2398	0.31498	28.8121	14.4061	383.348
8/22/2006 12:04	21.2398	0.31498	22.7079	14.7723	408.985
8/22/2006 12:05	21.1391	0.31498	26.8587	16.6036	423.636
8/22/2006 12:05	21.1391	0.31498	36.8697	13.4294	418.752
8/22/2006 12:05	21.1391	0.31498	32.963	12.8189	421.194
8/22/2006 12:05	21.1391	0.31498	20.7545	11.8423	444.39
8/22/2006 12:06	21.1391	0.31498	12.941	11.2318	433.403
8/22/2006 12:06	21.1391	0.31498	12.941	11.2318	466.366
8/22/2006 12:06	21.1391	0.31498	18.8011	23.1962	466.366
8/22/2006 12:06	21.1391	0.31498	36.8697	19.0453	465.145
8/22/2006 12:07	21.1391	0.31498	36.8697	19.1674	463.924
8/22/2006 12:07	21.1391	0.31498	24.9054	18.557	466.366
8/22/2006 12:07	21.1391	0.31498	14.8944	18.3128	478.574
8/22/2006 12:07	21.1391	0.31498	13.1852	18.4349	526.187
8/22/2006 12:08	21.1391	0.31498	14.8944	20.022	476.132
8/22/2006 12:08	21.1391	0.31498	22.952	16.3594	505.433
8/22/2006 12:08	21.1391	0.31498	24.9054	14.284	482.237
8/22/2006 12:08	21.1391	0.31498	14.8944	14.284	515.2
8/22/2006 12:09	21.1391	0.31498	10.9877	13.0631	501.77
8/22/2006 12:09	21.1391	0.31498	8.79014	13.4294	523.746
8/22/2006 12:09	21.1391	0.41509	12.941	26.6146	551.825
8/22/2006 12:09	21.0383	0.41509	22.952	22.3416	559.15
8/22/2006 12:10	21.0383	0.41509	26.8587	21.7312	518.862
8/22/2006 12:10	21.0383	0.41509	19.0453	19.8999	593.334
8/22/2006 12:10	21.0383	0.41509	12.941	20.2661	523.746
8/22/2006 12:10	21.0383	0.41509	10.9877	19.4115	548.163
8/22/2006 12:11	21.0383	0.41509	12.941	22.8299	593.334
8/22/2006 12:11	21.0383	0.41509	18.8011	17.9465	553.046
8/22/2006 12:11	21.0383	0.41509	20.7545	16.4815	583.567
8/22/2006 12:11	21.0383	0.41509	14.8944	15.3827	554.267
8/22/2006 12:12	21.0383	0.41509	10.9877	15.0165	568.917
8/22/2006 12:12	21.0383	0.41509	9.03431	14.6502	612.868
8/22/2006 12:12	21.0383	0.41509	9.03431	29.7888	611.647
8/22/2006 12:12	21.0383	0.41509	18.8011	25.2716	568.917
8/22/2006 12:13	21.0383	0.41509	24.9054	23.1962	583.567
8/22/2006 12:13	21.0383	0.41509	18.8011	21.8533	571.359

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8/22/2006 12:13	21.0383	0.41509	12.941	21.8533	549.383
8/22/2006 12:13	21.0383	0.41509	10.9877	20.7545	556.709
8/22/2006 12:14	21.0383	0.41509	10.9877	23.6845	550.604
8/22/2006 12:14	21.0383	0.41509	16.8478	18.4349	472.47
8/22/2006 12:23	21.4473	0.21487	54.9383	10.3772	114.76
8/22/2006 12:23	21.4473	0.21487	74.7162	8.42388	107.435
8/22/2006 12:23	21.4473	0.21487	74.7162	7.69137	106.214
8/22/2006 12:23	21.4473	0.21487	58.8451	7.81345	106.214
8/22/2006 12:24	21.4473	0.21487	56.8917	8.05762	102.552
8/22/2006 12:24	21.4473	0.21487	72.7628	8.91222	100.11
8/22/2006 12:24	21.4473	0.21487	98.889	10.7435	100.11
8/22/2006 12:24	21.4473	0.11476	118.911	9.03431	101.331
8/22/2006 12:25	21.4473	0.11476	94.7381	8.17971	95.2265
8/22/2006 12:25	21.4473	0.11476	62.7518	8.30179	96.4473
8/22/2006 12:25	21.4473	0.11476	48.8341	8.42388	94.0056
8/22/2006 12:25	21.4473	0.11476	50.7874	8.54597	94.0056
8/22/2006 12:26	21.4473	0.11476	62.7518	9.76682	94.0056
8/22/2006 12:26	21.4473	0.11476	78.867	8.79014	92.7848
8/22/2006 12:26	21.4473	0.11476	74.7162	7.81345	92.7848
8/22/2006 12:26	21.4473	0.11476	66.9027	8.54597	90.3431
8/22/2006 12:27	21.4473	0.11476	70.5653	8.66805	90.3431
8/22/2006 12:27	21.4473	0.11476	88.878	10.1331	90.3431
8/22/2006 12:27	21.4473	0.11476	118.911	10.7435	92.7848
8/22/2006 12:27	21.4473	0.11476	138.933	8.91222	91.5639
8/22/2006 12:28	21.4473	0.11476	112.807	8.66805	90.3431
8/22/2006 12:28	21.4473	0.11476	74.9603	9.03431	90.3431
8/22/2006 12:28	21.4473	0.11476	60.7984	8.42388	92.7848
8/22/2006 12:28	21.4473	0.11476	64.9493	9.27848	94.0056
8/22/2006 12:29	21.4473	0.11476	80.8204	10.1331	91.5639
8/22/2006 12:29	21.4473	0.11476	98.889	8.66805	85.4597
8/22/2006 12:29	21.4473	0.11476	93.0289	8.54597	89.1222
8/22/2006 12:29	21.4473	0.11476	80.5762	8.30179	85.4597
8/22/2006 12:30	21.4473	0.11476	84.7271	9.40056	90.3431
8/22/2006 12:30	21.4473	0.11476	104.993	11.2318	92.7848
8/22/2006 12:30	21.4473	0.11476	140.886	11.2318	92.7848
8/22/2006 12:30	21.4473	0.11476	158.955	9.76682	92.7848
8/22/2006 12:31	21.4473	0.11476	124.771	9.40056	94.0056
8/22/2006 12:31	21.4473	0.11476	82.7738	9.27848	90.3431
8/22/2006 12:31	21.4473	0.11476	66.6585	9.40056	96.4473
8/22/2006 12:31	21.4473	0.11476	73.007	9.52265	96.4473
8/22/2006 12:32	21.4473	0.11476	90.8314	10.4993	94.0056
8/22/2006 12:32	21.4473	0.11476	112.807	8.66805	89.1222
8/22/2006 12:32	21.4473	0.11476	104.993	8.17971	97.6682
8/22/2006 12:32	21.4473	0.11476	88.878	8.54597	96.4473

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8/22/2006 12:33	21.4473	0.11476	92.7848	9.8889	103.772
8/22/2006 12:33	21.4473	0.11476	118.911	11.5981	100.11
8/22/2006 12:33	21.4473	0.11476	160.908	11.7202	92.7848
8/22/2006 12:33	21.4473	0.11476	182.884	10.011	101.331
8/22/2006 12:34	21.4473	0.11476	140.642	9.15639	96.4473
8/22/2006 12:34	21.4473	0.11476	90.5872	9.40056	102.552
8/22/2006 12:34	21.4473	0.11476	70.8094	9.27848	104.993
8/22/2006 12:34	21.4473	0.11476	76.9137	10.2552	109.877
8/22/2006 12:35	21.4473	0.11476	98.889	10.2552	101.331
8/22/2006 12:35	21.4473	0.11476	123.062	8.79014	104.993
8/22/2006 12:35	21.4473	0.11476	112.807	8.30179	101.331
8/22/2006 12:35	21.4473	0.11476	94.7381	8.54597	104.993
8/22/2006 12:36	21.4473	0.11476	96.9357	10.2552	130.631
8/22/2006 12:36	21.4473	0.11476	124.527	11.7202	117.202
8/22/2006 12:36	21.4473	0.11476	170.919	13.0631	140.398
8/22/2006 12:36	21.4473	0.11476	200.952	10.3772	122.085
8/22/2006 12:37	21.4473	0.11476	158.711	9.8889	124.527
8/22/2006 12:37	21.4473	0.11476	96.6915	9.52265	125.748
8/22/2006 12:37	21.4473	0.11476	74.9603	10.011	125.748
8/22/2006 12:37	21.4473	0.11476	78.867	10.2552	115.981
8/22/2006 12:38	21.4473	0.11476	100.598	10.4993	112.318
8/22/2006 12:38	21.4473	0.11476	122.818	9.15639	117.202
8/22/2006 12:38	21.4473	0.11476	111.098	8.54597	120.864
8/22/2006 12:38	21.4473	0.11476	90.8314	8.42388	126.969
8/22/2006 12:39	21.4473	0.11476	90.5872	10.1331	128.189
8/22/2006 12:39	21.4473	0.11476	118.911	12.3306	135.515
8/22/2006 12:39	21.4473	0.11476	172.873	12.3306	123.306
8/22/2006 12:39	21.4473	0.11476	210.963	11.1098	145.281
8/22/2006 12:40	21.4473	0.11476	164.815	10.4993	133.073
8/22/2006 12:40	21.4473	0.11476	98.6449	9.8889	135.515
8/22/2006 12:40	21.4473	0.11476	70.8094	10.3772	153.827
8/22/2006 12:40	21.4473	0.11476	73.007	10.9877	135.515
8/22/2006 12:41	21.4473	0.11476	94.9823	11.1098	133.073
8/22/2006 12:41	21.4473	0.11476	120.864	9.8889	128.189
8/22/2006 12:41	21.4473	0.11476	108.9	8.66805	122.085
8/22/2006 12:41	21.4473	0.11476	86.9247	9.03431	137.956
8/22/2006 12:42	21.4473	0.11476	86.9247	10.4993	145.281
8/22/2006 12:42	21.4473	0.11476	116.958	12.4527	151.386
8/22/2006 12:42	21.4473	0.11476	172.628	13.1852	140.398
8/22/2006 12:42	21.4473	0.11476	214.87	11.476	131.852
8/22/2006 12:43	21.4473	0.11476	168.966	11.2318	141.619
8/22/2006 12:43	21.4473	0.11476	96.9357	10.4993	145.281
8/22/2006 12:43	21.4473	0.11476	68.8561	10.9877	151.386
8/22/2006 12:43	21.4473	0.11476	70.8094	10.7435	136.735

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21.18209	0.240106	68.47695	13.25187	318.538

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Run 3

	O2	CO2	CO	THC	Inlet
8/22/2006 15:04	20.5683	0.104993	80.5762	7.20303	14.6502
8/22/2006 15:04	20.5683	0.104993	60.7984	7.69137	15.8711
8/22/2006 15:04	20.5683	0.104993	50.7874	7.69137	24.417
8/22/2006 15:04	20.5683	0.104993	56.8917	8.79014	28.0796
8/22/2006 15:05	20.5683	0.104993	70.8094	9.03431	26.8587
8/22/2006 15:05	20.5683	0.104993	90.8314	7.56928	29.3005
8/22/2006 15:05	20.5683	0.104993	88.6339	7.81345	35.4047
8/22/2006 15:05	20.5683	0.104993	80.8204	8.30179	37.8464
8/22/2006 15:06	20.5683	0.104993	80.8204	9.27848	50.0549
8/22/2006 15:06	20.5683	0.104993	98.889	10.4993	51.2758
8/22/2006 15:06	20.5683	0.104993	122.818	10.011	58.6009
8/22/2006 15:06	20.5683	0.104993	142.596	8.17971	62.2635
8/22/2006 15:07	20.5683	0.104993	122.818	8.79014	83.0179
8/22/2006 15:07	20.5683	0.104993	86.9247	8.54597	89.1222
8/22/2006 15:07	20.5683	0.104993	74.7162	9.76682	98.889
8/22/2006 15:07	20.5683	0.104993	88.878	10.1331	108.656
8/22/2006 15:08	20.5683	0.104993	118.911	10.7435	109.877
8/22/2006 15:08	20.5683	0.104993	152.851	9.27848	129.41
8/22/2006 15:08	20.5683	0.104993	144.549	8.79014	135.515
8/22/2006 15:08	20.5683	0.104993	116.713	9.52265	157.49
8/22/2006 15:09	20.5683	0.104993	108.9	10.8656	151.386
8/22/2006 15:09	20.5683	0.104993	138.933	13.5515	172.14
8/22/2006 15:09	20.5683	0.104993	200.708	14.0398	211.207
8/22/2006 15:09	20.5683	0.104993	261.018	12.0864	219.753
8/22/2006 15:10	20.5683	0.104993	218.777	12.2085	241.729
8/22/2006 15:10	20.5683	0.104993	125.015	11.8423	246.612
8/22/2006 15:10	20.5683	0.104993	74.9603	11.9644	253.937
8/22/2006 15:10	20.5683	0.205103	66.9027	12.4527	295.446
8/22/2006 15:11	20.5683	0.205103	86.9247	15.3827	299.109
8/22/2006 15:11	20.5683	0.205103	118.667	11.9644	286.9
8/22/2006 15:11	20.5683	0.205103	108.656	10.9877	311.317
8/22/2006 15:11	20.4645	0.205103	68.8561	11.1098	374.802
8/22/2006 15:12	20.4645	0.205103	46.8807	10.6214	384.568
8/22/2006 15:12	20.4645	0.205103	52.7408	11.476	373.581
8/22/2006 15:12	20.4645	0.205103	92.7848	21.6091	418.752
8/22/2006 15:12	20.4645	0.205103	166.768	17.7024	406.544
8/22/2006 15:13	20.4645	0.205103	160.908	16.2373	423.636
8/22/2006 15:13	20.4645	0.205103	88.878	15.749	396.777
8/22/2006 15:13	20.4645	0.205103	42.974	16.8478	454.157
8/22/2006 15:13	20.4645	0.205103	31.0096	16.3594	427.298
8/22/2006 15:14	20.4645	0.205103	32.7188	19.6557	451.715

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8/22/2006 15:14	20.3638	0.205103	46.8807	15.1386	485.899
8/22/2006 15:14	20.3638	0.205103	46.6366	13.6735	443.169
8/22/2006 15:14	20.3638	0.305213	28.8121	13.5515	479.795
8/22/2006 15:15	20.3638	0.305213	14.8944	13.0631	505.433
8/22/2006 15:15	20.3638	0.305213	14.8944	13.3073	489.562
8/22/2006 15:15	20.3638	0.305213	26.8587	25.76	460.261
8/22/2006 15:15	20.3638	0.305213	58.8451	19.0453	473.691
8/22/2006 15:16	20.3638	0.305213	64.7052	18.4349	452.936
8/22/2006 15:16	20.3638	0.305213	41.0206	18.4349	555.488
8/22/2006 15:16	20.3638	0.305213	20.7545	17.7024	485.899
8/22/2006 15:16	20.3638	0.305213	14.8944	17.7024	513.979
8/22/2006 15:17	20.3638	0.305213	16.8478	22.5858	512.758
8/22/2006 15:17	20.3638	0.305213	26.8587	17.3361	528.629
8/22/2006 15:17	20.3638	0.305213	28.8121	16.3594	603.101
8/22/2006 15:17	20.3638	0.305213	18.8011	15.749	557.929
8/22/2006 15:18	20.3638	0.305213	11.476	15.3827	539.617
8/22/2006 15:18	20.3638	0.305213	9.03431	14.6502	573.801
8/22/2006 15:18	20.2631	0.305213	12.941	29.5446	581.126
8/22/2006 15:18	20.2631	0.305213	28.8121	21.9753	537.175
8/22/2006 15:19	20.2631	0.305213	34.9164	20.9987	545.721
8/22/2006 15:19	20.2631	0.305213	22.952	19.4115	507.874
8/22/2006 15:19	20.2631	0.305213	12.941	18.9232	506.654
8/22/2006 15:19	20.2631	0.305213	9.03431	19.0453	539.617
8/22/2006 15:20	20.2631	0.305213	12.941	24.9054	476.132
8/22/2006 15:28	19.9731	0.305213	93.0289	24.7833	614.089
8/22/2006 15:28	19.9731	0.305213	56.8917	21.7312	556.709
8/22/2006 15:28	19.8694	0.410206	28.8121	21.487	564.034
8/22/2006 15:28	19.8694	0.410206	18.8011	20.3882	529.85
8/22/2006 15:29	19.8694	0.410206	16.8478	28.0796	592.113
8/22/2006 15:29	19.8694	0.410206	22.952	20.3882	632.401
8/22/2006 15:29	19.9762	0.410206	24.9054	19.0453	594.555
8/22/2006 15:29	19.9762	0.410206	16.8478	17.0919	610.426
8/22/2006 15:30	19.9762	0.410206	9.03431	17.0919	640.947
8/22/2006 15:30	19.9762	0.410206	6.83677	16.7257	648.272
8/22/2006 15:30	19.9762	0.410206	8.79014	36.8697	666.585
8/22/2006 15:30	19.9762	0.410206	16.8478	28.4459	675.131
8/22/2006 15:31	19.9762	0.410206	22.952	27.1029	711.757
8/22/2006 15:31	19.9762	0.410206	18.8011	25.2716	688.561
8/22/2006 15:31	19.9762	0.410206	10.9877	24.7833	701.99
8/22/2006 15:31	19.9762	0.410206	8.79014	25.8821	825.296
8/22/2006 15:32	19.9762	0.410206	8.79014	34.1839	824.075
8/22/2006 15:32	19.9762	0.410206	12.941	25.0275	848.492
8/22/2006 15:32	19.9762	0.410206	16.8478	22.2195	860.701
8/22/2006 15:32	19.9762	0.410206	12.941	21.2428	896.105

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8/22/2006 15:33	19.9762	0.410206	6.83677	20.3882	869.247
8/22/2006 15:33	19.9762	0.410206	4.88341	19.5336	877.793
8/22/2006 15:33	19.9762	0.410206	4.88341	44.5611	918.081
8/22/2006 15:33	19.9762	0.410206	10.9877	35.5268	900.989
8/22/2006 15:34	19.9762	0.410206	16.8478	32.7188	888.78
8/22/2006 15:34	19.9762	0.510316	14.8944	31.8642	936.394
8/22/2006 15:34	19.9762	0.510316	9.03431	31.7422	894.885
8/22/2006 15:34	19.9762	0.510316	6.83677	30.3992	881.455
8/22/2006 15:35	19.8724	0.510316	6.83677	41.3869	922.964
8/22/2006 15:35	19.8724	0.510316	10.9877	28.9342	903.431
8/22/2006 15:35	19.8724	0.510316	14.8944	25.76	874.13
8/22/2006 15:35	19.8724	0.510316	10.9877	24.0508	927.848
8/22/2006 15:36	19.8724	0.510316	6.83677	23.4404	920.523
8/22/2006 15:36	19.8724	0.510316	4.88341	22.0974	921.743
8/22/2006 15:36	19.8724	0.510316	2.68587	50.177	954.706
8/22/2006 15:36	19.8724	0.510316	8.79014	38.4568	1019.41
8/22/2006 15:37	19.8724	0.510316	14.8944	37.236	970.577
8/22/2006 15:37	19.8724	0.510316	12.941	34.3059	938.835
8/22/2006 15:37	19.8724	0.510316	8.79014	35.0385	985.228
8/22/2006 15:37	19.8724	0.510316	4.88341	34.0618	994.995
8/22/2006 15:38	19.8724	0.510316	6.83677	45.2936	990.111
8/22/2006 15:38	19.8724	0.510316	8.79014	31.498	997.436
8/22/2006 15:38	19.8724	0.510316	12.941	28.4459	1009.64
8/22/2006 15:38	19.8724	0.510316	10.7435	26.8587	1021.85
8/22/2006 15:39	19.8724	0.510316	6.83677	25.2716	944.94
8/22/2006 15:39	19.8724	0.510316	2.93005	23.8066	914.418
8/22/2006 15:39	19.8724	0.510316	2.93005	51.8862	984.007
8/22/2006 15:39	19.8724	0.510316	6.83677	39.1894	905.872
8/22/2006 15:40	19.9731	0.510316	12.6969	36.8697	952.265
8/22/2006 15:40	19.9731	0.510316	10.9877	38.3348	1065.8
8/22/2006 15:40	19.9731	0.510316	6.83677	36.0151	1013.31
8/22/2006 15:40	19.9731	0.510316	6.83677	33.6955	947.381
8/22/2006 15:41	19.9731	0.510316	4.88341	45.1715	971.798
8/22/2006 15:41	19.9731	0.510316	8.79014	31.6201	946.16
8/22/2006 15:41	19.9731	0.510316	12.941	29.0563	969.357
8/22/2006 15:41	19.9731	0.510316	9.03431	27.5913	1038.95
8/22/2006 15:42	19.9731	0.510316	4.88341	25.2716	1026.74
8/22/2006 15:42	19.9731	0.510316	2.93005	24.7833	984.007
8/22/2006 15:42	19.9731	0.510316	2.93005	52.8629	966.915
8/22/2006 15:42	19.9731	0.510316	6.83677	40.6544	969.357
8/22/2006 15:43	19.9731	0.510316	12.941	37.1139	947.381
8/22/2006 15:43	19.9731	0.510316	10.9877	34.428	992.553
8/22/2006 15:43	19.9731	0.510316	6.83677	33.8176	952.265
8/22/2006 15:43	19.9731	0.510316	4.88341	33.9397	968.136

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8/22/2006 15:44	19.9731	0.510316	4.88341	43.3403	948.602
8/22/2006 15:44	19.9731	0.510316	9.03431	30.2771	927.848
8/22/2006 15:44	19.9731	0.510316	10.9877	27.8354	965.694
8/22/2006 15:44	19.9731	0.510316	8.79014	26.7367	936.394
8/22/2006 15:45	19.9731	0.510316	4.88341	24.6612	676.352
8/22/2006 15:45	19.9731	0.510316	2.93005	20.9987	502.991
8/22/2006 15:45	19.9731	0.510316	4.88341	34.5501	333.293
8/22/2006 15:45	20.1807	0.410206	8.79014	23.9287	274.692
8/22/2006 15:51	20.3943	0.209987	10.7435	15.749	358.931
8/22/2006 15:51	20.3943	0.209987	14.8944	15.6269	361.372
8/22/2006 15:51	20.3943	0.209987	18.8011	27.8354	336.955
8/22/2006 15:51	20.2906	0.209987	26.8587	22.952	397.998
8/22/2006 15:52	20.2906	0.209987	26.8587	21.1207	401.66
8/22/2006 15:52	20.2906	0.209987	18.8011	20.3882	401.66
8/22/2006 15:52	20.2906	0.209987	10.9877	21.2428	440.728
8/22/2006 15:52	20.2906	0.209987	9.03431	20.9987	454.157
8/22/2006 15:53	20.2906	0.310096	8.79014	29.1784	488.341
8/22/2006 15:53	20.2906	0.310096	12.941	21.3649	478.574
8/22/2006 15:53	20.2906	0.310096	14.8944	19.4115	500.549
8/22/2006 15:53	20.1868	0.310096	10.7435	18.0686	529.85
8/22/2006 15:54	20.1868	0.310096	4.88341	18.0686	534.733
8/22/2006 15:54	20.1868	0.310096	4.88341	17.5803	540.838
8/22/2006 15:54	20.1868	0.310096	4.88341	36.9918	542.058
8/22/2006 15:54	20.1868	0.310096	10.9877	28.2017	534.733
8/22/2006 15:55	20.1868	0.310096	14.8944	26.9808	593.334
8/22/2006 15:55	20.1868	0.310096	10.9877	26.1262	601.88
8/22/2006 15:55	20.1868	0.310096	6.83677	26.6146	623.855
8/22/2006 15:55	20.1868	0.310096	4.88341	25.1496	599.438
8/22/2006 15:56	20.1868	0.310096	4.88341	36.1372	653.156
8/22/2006 15:56	20.1868	0.310096	6.83677	25.76	669.027
8/22/2006 15:56	20.1868	0.310096	10.9877	22.8299	642.168
8/22/2006 15:56	20.1868	0.310096	6.83677	21.9753	638.506
8/22/2006 15:57	20.1868	0.410206	4.88341	21.2428	653.156
8/22/2006 15:57	20.1868	0.410206	2.93005	21.3649	775.241
8/22/2006 15:57	20.1868	0.410206	3.17422	45.782	717.861
8/22/2006 15:57	20.1868	0.410206	6.83677	34.3059	717.861
8/22/2006 15:58	20.1868	0.410206	10.9877	31.6201	633.622
8/22/2006 15:58	20.0861	0.410206	8.79014	30.2771	662.923
8/22/2006 15:58	20.0861	0.410206	6.83677	30.155	650.714
8/22/2006 15:58	20.0861	0.410206	4.88341	29.4225	649.493
8/22/2006 15:59	20.0861	0.410206	2.93005	39.4335	671.469
8/22/2006 15:59	20.0861	0.410206	4.88341	27.8354	687.34
8/22/2006 15:59	20.0861	0.410206	9.03431	24.9054	612.868
8/22/2006 15:59	20.0861	0.410206	6.83677	23.4404	681.236

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8/22/2006 16:00	20.0861	0.410206	2.93005	23.3183	712.978
8/22/2006 16:00	20.0861	0.410206	2.93005	23.3183	723.965
8/22/2006 16:00	20.0861	0.410206	2.93005	51.0316	814.308
8/22/2006 16:00	20.0861	0.410206	4.88341	37.236	745.941
8/22/2006 16:01	20.0861	0.410206	8.79014	34.1839	815.529
8/22/2006 16:01	19.9853	0.510316	6.83677	32.7188	843.609
8/22/2006 16:01	19.9853	0.510316	4.88341	31.7422	787.45
8/22/2006 16:01	19.9853	0.510316	2.93005	31.498	811.867
8/22/2006 16:02	19.9853	0.510316	2.93005	45.6599	795.996
8/22/2006 16:02	19.9853	0.510316	4.88341	30.7655	769.137
8/22/2006 16:02	19.9853	0.510316	9.03431	28.4459	786.229
8/22/2006 16:02	19.9853	0.510316	6.83677	26.8587	833.842
8/22/2006 16:03	19.9853	0.510316	2.93005	25.2716	739.836
8/22/2006 16:03	19.9853	0.510316	2.93005	23.3183	656.818
8/22/2006 16:03	19.9853	0.510316	2.93005	46.7586	682.456
8/22/2006 16:03	19.9853	0.510316	4.88341	33.4513	655.598
8/22/2006 16:04	20.0952	0.510316	6.83677	31.0096	654.377
8/22/2006 16:04	20.0952	0.510316	6.83677	29.3005	642.168
8/22/2006 16:04	20.0952	0.510316	2.93005	29.5446	737.395
8/22/2006 16:04	20.0952	0.510316	2.93005	29.3005	673.91
8/22/2006 16:05	20.0952	0.510316	2.93005	42.4857	682.456
8/22/2006 16:05	20.0952	0.510316	5.12758	30.6434	764.253
8/22/2006 16:05	20.0952	0.510316	7.08094	27.3471	682.456
8/22/2006 16:05	20.0952	0.510316	4.88341	25.2716	666.585
8/22/2006 16:06	20.0952	0.510316	2.93005	25.3937	693.444
8/22/2006 16:06	20.0952	0.510316	0.976682	24.5391	692.223
8/22/2006 16:06	20.0952	0.510316	2.93005	49.5666	738.616
8/22/2006 16:06	20.0952	0.510316	4.88341	35.5268	698.327
8/22/2006 16:07	20.0952	0.510316	8.79014	33.3293	692.223
8/22/2006 16:07	20.0952	0.510316	7.08094	32.1084	678.794
8/22/2006 16:07	20.0952	0.510316	2.93005	31.3759	721.524
8/22/2006 16:07	20.0952	0.510316	2.93005	30.5213	695.886
8/22/2006 16:08	20.0952	0.510316	2.93005	43.7065	664.144
8/22/2006 16:08	20.0952	0.510316	4.88341	30.3992	620.193
8/22/2006 16:08	20.0952	0.510316	9.03431	26.8587	621.414
8/22/2006 16:08	20.0952	0.510316	6.83677	25.3937	557.929
8/22/2006 16:09	20.0952	0.410206	2.93005	23.0741	478.574
8/22/2006 16:09	20.0952	0.410206	2.93005	21.1207	443.169
8/22/2006 16:09	20.1959	0.410206	2.93005	38.9452	371.139
8/22/2006 16:09	20.1959	0.410206	6.83677	28.4459	363.814
8/22/2006 16:10	20.2967	0.310096	9.03431	26.9808	368.697
8/22/2006 16:10	20.2967	0.310096	8.79014	25.3937	394.335
8/22/2006 16:19	20.2936	0.209987	52.7408	17.9465	178.244
8/22/2006 16:19	20.2936	0.209987	34.6722	17.4582	203.882

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8/22/2006 16:19	20.2936	0.209987	20.9987	16.9698	200.22
8/22/2006 16:19	20.2936	0.209987	16.8478	16.3594	202.661
8/22/2006 16:20	20.2936	0.209987	18.8011	23.6845	203.882
8/22/2006 16:20	20.2936	0.209987	26.8587	17.0919	203.882
8/22/2006 16:20	20.2936	0.209987	26.8587	15.9932	197.778
8/22/2006 16:20	20.2936	0.209987	18.8011	14.7723	197.778
8/22/2006 16:21	20.2936	0.209987	12.941	14.6502	208.766
8/22/2006 16:21	20.2936	0.209987	14.8944	14.8944	220.974
8/22/2006 16:21	20.2936	0.209987	24.9054	25.8821	218.533
8/22/2006 16:21	20.2936	0.209987	44.9274	20.1441	230.741
8/22/2006 16:22	20.2936	0.209987	46.8807	19.1674	236.845
8/22/2006 16:22	20.2936	0.209987	30.7655	18.557	234.404
8/22/2006 16:22	20.2936	0.209987	16.8478	18.4349	250.275
8/22/2006 16:22	20.2936	0.209987	14.8944	18.3128	258.821
8/22/2006 16:23	20.2936	0.209987	16.8478	25.5158	246.612
8/22/2006 16:23	20.2936	0.209987	22.7079	19.0453	262.483
8/22/2006 16:23	20.2936	0.209987	22.952	17.214	267.367
8/22/2006 16:23	20.2936	0.209987	14.8944	16.6036	267.367
8/22/2006 16:24	20.2936	0.209987	10.9877	15.6269	285.679
8/22/2006 16:24	20.2936	0.209987	10.9877	15.5048	285.679
8/22/2006 16:24	20.2936	0.209987	16.8478	30.2771	311.317
8/22/2006 16:24	20.2936	0.209987	30.7655	23.5624	327.188
8/22/2006 16:25	20.2936	0.209987	32.7188	22.0974	317.422
8/22/2006 16:25	20.2936	0.209987	20.9987	21.8533	351.605
8/22/2006 16:25	20.2936	0.209987	10.9877	21.3649	350.385
8/22/2006 16:25	20.2936	0.209987	9.03431	21.3649	358.931
8/22/2006 16:26	20.2936	0.209987	10.9877	30.3992	371.139
8/22/2006 16:26	20.2936	0.209987	14.8944	21.6091	354.047
8/22/2006 16:26	20.2936	0.209987	16.8478	19.7778	376.022
8/22/2006 16:26	20.2936	0.209987	10.9877	18.8011	361.372
8/22/2006 16:27	20.2936	0.209987	6.83677	18.4349	374.802
8/22/2006 16:27	20.2936	0.209987	6.5926	17.8244	388.231
8/22/2006 16:27	20.2936	0.209987	8.79014	36.0151	389.452
8/22/2006 16:27	20.2936	0.209987	16.8478	26.6146	389.452
8/22/2006 16:28	20.2936	0.209987	20.7545	24.295	384.568
8/22/2006 16:28	20.2936	0.209987	12.941	23.6845	390.673
8/22/2006 16:28	20.2936	0.209987	9.03431	23.8066	413.869
8/22/2006 16:28	20.2936	0.209987	6.83677	23.3183	416.311
8/22/2006 16:29	20.2936	0.310096	7.08094	33.3293	418.752
8/22/2006 16:29	20.2936	0.310096	10.9877	23.0741	406.544
8/22/2006 16:29	20.2936	0.310096	12.941	20.8766	390.673
8/22/2006 16:29	20.2936	0.310096	8.79014	20.022	434.623
8/22/2006 16:30	20.2936	0.310096	4.88341	20.022	460.261
8/22/2006 16:30	20.2936	0.310096	2.93005	18.8011	437.065

Loading Rack
Raw Data
Run 3

8/22/2006 16:30	20.2936	0.310096	4.88341	38.0906	419.973
8/22/2006 16:30	20.2936	0.310096	12.941	28.69	443.169
8/22/2006 16:31	20.2936	0.310096	14.8944	27.225	456.599
8/22/2006 16:31	20.2936	0.310096	10.9877	24.5391	408.985
8/22/2006 16:31	20.2936	0.310096	6.83677	25.5158	463.924
8/22/2006 16:31	20.2936	0.310096	4.88341	25.1496	470.028
8/22/2006 16:32	20.2936	0.310096	4.88341	36.0151	471.249
8/22/2006 16:32	20.1898	0.310096	8.79014	24.7833	452.936
8/22/2006 16:32	20.1898	0.310096	10.9877	23.1962	460.261
8/22/2006 16:32	20.1898	0.310096	6.83677	21.6091	460.261
8/22/2006 16:33	20.1898	0.310096	2.93005	20.7545	451.715
8/22/2006 16:33	20.1898	0.310096	2.93005	20.3882	496.887
8/22/2006 16:33	20.1898	0.310096	4.88341	41.1427	484.678
8/22/2006 16:33	20.1898	0.310096	8.79014	30.8876	473.691
8/22/2006 16:34	20.1898	0.310096	12.941	29.1784	485.899
8/22/2006 16:34	20.1898	0.310096	8.79014	26.7367	427.298
8/22/2006 16:34	20.1898	0.310096	4.88341	26.7367	443.169
8/22/2006 16:34	20.1898	0.310096	4.88341	25.6379	456.599
8/22/2006 16:35	20.1898	0.310096	4.88341	36.9918	479.795
8/22/2006 16:35	20.1898	0.310096	9.03431	25.76	461.482
8/22/2006 16:35	20.1898	0.310096	8.79014	23.3183	481.016
8/22/2006 16:35	20.1898	0.310096	6.83677	22.4637	445.611
8/22/2006 16:36	20.1898	0.310096	4.88341	20.9987	471.249
8/22/2006 16:36	20.1898	0.310096	2.93005	21.6091	507.874
8/22/2006 16:36	20.1898	0.310096	4.88341	40.8985	444.39
	20.19579	0.337305	25.44751	24.47211	545.8148

TANK CAPACITIES

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING

Facility Name: TRUMBULL

Street Address: 870 W. SMITH

City: MEDINA | State: OH | Zip: 44256

Process: TANKS 23,24,25 | Unit #: A36, A38, A40 | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End SAME | Height of Emiss. Pt. Rel. to Observer Start 12 End SAME

Distance to Emiss. Pt. Start 20 End SAME | Direction to Emiss. Pt. (Degrees) Start 32 End SAME

Vertical Angle to Obs. Pt. Start 15 End SAME | Direction to Obs. Pt. (Degrees) Start 33 End SAME

Distance and Direction to Observation Point from Emission Point Start SAME End SAME

Describe Emissions Start CLEAR End SAME

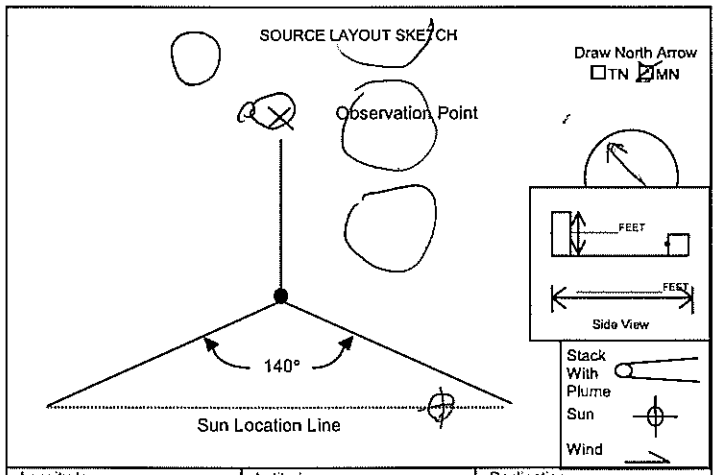
Emission Color Start CLEAR End SAME | Water Droplet Plume Attached ~ Detached ~ (None)

Describe Plume Background Start TANK End SAME

Background Color Start GREY End SAME | Sky Conditions Start OVERCAST MIN End SAME

Wind Speed Start 0 End SAME | Wind Direction Start N/A End SAME

Ambient Temp Start 75 End SAME | Wet Bulb Temp 72 | Rh, Percent 86



Longitude | Latitude | Declination

Additional Information: RUN 1

SOUTH OUTLET

Continued on VEO Form Number

Observation Date 8/18/06 | Start Time 1:45 | End Time 2:15

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE

Observer's Signature: [signature] | Date 8/18/06

Organization: CRA

Certified By: ETA | Date 4/20/06

Form Number | Page | Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING
Facility Name: TRUMBULL
Street Address: 870 W. SMITH
City: MEDINA | State: OH | Zip: 44256

Process: TANKS 23, 24, 25 | Unit #: A36, A38, A40 | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

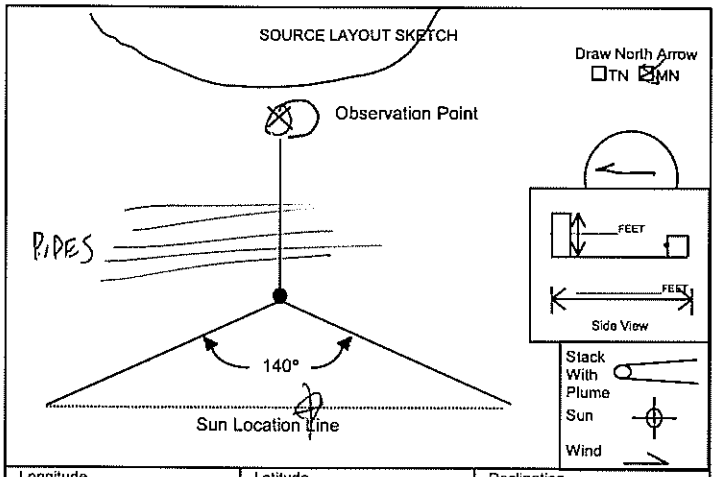
Height of Emiss. Pt. Start 20 End SAME
Height of Emiss. Pt. Rel. to Observer Start 20 End SAME
Distance to Emiss. Pt. Start 60 End SAME
Direction to Emiss. Pt. (Degrees) Start 83 End SAME

Vertical Angle to Obs. Pt. Start 15 End SAME
Direction to Obs. Pt. (Degrees) Start 83 End SAME
Distance and Direction to Observation Point from Emission Point Start SAME End SAME

Describe Emissions Start CLEAR End SAME
Emission Color Start CLEAR End SAME
Water Droplet Plume: Attached ~ Detached ~ (None)

Describe Plume Background Start PIPE End SAME
Background Color Start BLACK End SAME
Sky Conditions Start PSLY CLOUDY End SAME
Wind Speed Start 4-6 End 2
Wind Direction Start N End S
Ambient Temp Start 75 End 82
Wet Bulb Temp 73
Rh, Percent 90

SOURCE LAYOUT SKETCH



Longitude | Latitude | Declination

Additional Information: RUN 1
NORTH OUTLET

Continued on VEO Form Number					

Observation Date: 8/19/06 | Start Time: 7:45 | End Time: 8:15

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE
Observer's Signature: [signature] | Date: 8/19/06
Organization: CRA
Certified By: ETA | Date: 4/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING
Facility Name: TRUMBULL
Street Address: 870 W. SMITH
City: MEDINA | State: OH | Zip: 44256

Process: TANKS 23,24,25 | Unit #: A36, A38, A40 | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emission Point:

Height of Emiss. Pt. Start End | Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End | Direction to Emiss. Pt. (Degrees) Start End

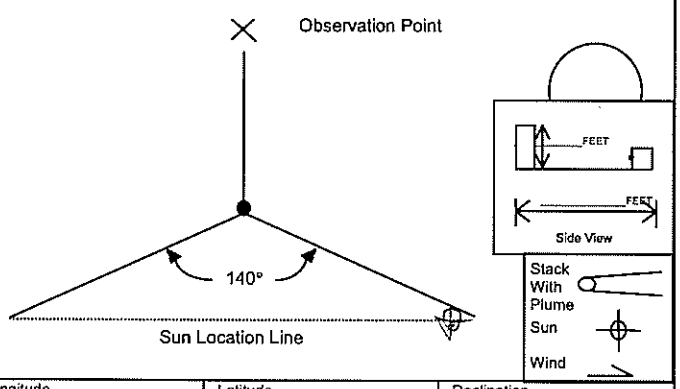
Vertical Angle to Obs. Pt. Start End | Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End

Describe Emissions Start End
Emission Color Start End | Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End
Background Color Start End | Sky Conditions Start End
Wind Speed Start End | Wind Direction Start End
Ambient Temp Start End | Wet Bulb Temp | Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude | Latitude | Declination

Additional Information: RUN 1
NORTH OUTLET

Continued on VEO Form Number

Observation Date: 8-21-06 | Start Time: 12:53 | End Time: 1:23

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE
Observer's Signature: Jason Reville | Date: 8/21/06
Organization: CRA
Certified By: ETA | Date: 4/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

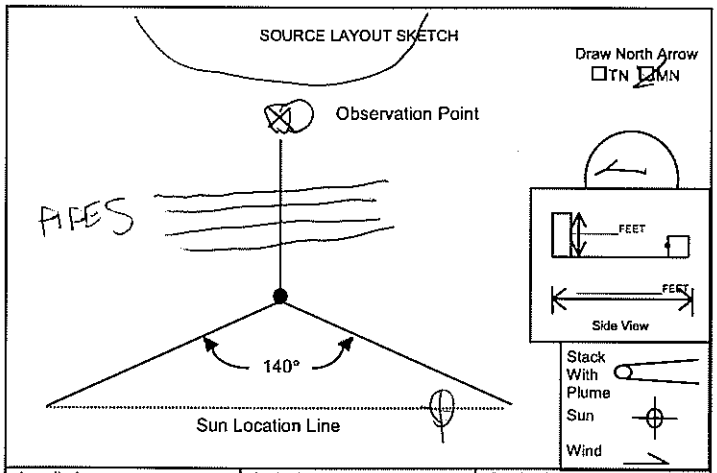
Process: TANKS 23,24,25	Unit #: A36, A37, A40	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 20 End SAME	Height of Emiss. Pt. Rel. to Observer Start 20 End SAME
Distance to Emiss. Pt. Start 60 End SAME	Direction to Emiss. Pt. (Degrees) Start 83 End SAME
Vertical Angle to Obs. Pt. Start 15 End SAME	Direction to Obs. Pt. (Degrees) Start 83 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions Start CLEAR End SAME	
Emission Color Start CLEAR End SAME	Water Droplet Plume Attached ~ Detached ~ (None)
Describe Plume Background Start PIPE End SAME	
Background Color Start BLACK End SAME	Sky Conditions Start PTLY CLDY End SAME
Wind Speed Start 3-5 End 0-2	Wind Direction Start N End SAME
Ambient Temp Start 78 End 82	Wet Bulb Temp 67 / Rh, Percent 55



Longitude	Latitude	Declination

Additional Information: RUN 2 NORTH OUTLET

Continued on VEO Form Number	

Observation Date	Start Time	End Time
8/21/06	1:51	2:21

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Date 8/21/06
Organization	CRA
Certified By ETA	Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 23,24,25	Unit #: A36, A38, A40	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

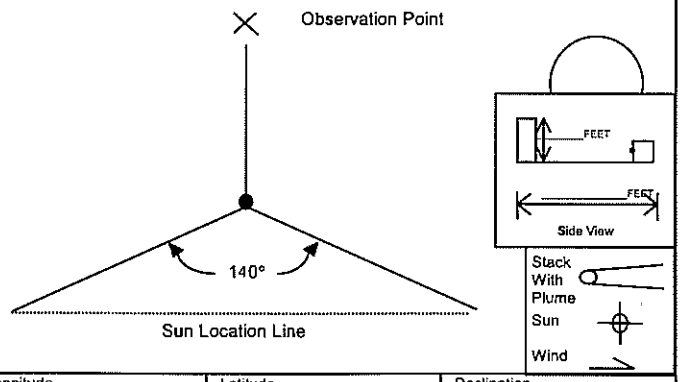
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 2

NORTH OUTLET

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/21/06	2:22	2:52

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature: Jason Reville	Date: 8/21/06
Organization	CRA
Certified By: ETA	Date: 4/20/06

Form Number						Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH RD
City	MEDINA
State	OH
Zip	44256

Process: TANKS 23, 24, 25	Unit #: A36, A38, A40	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVERFAN SILVERSTACK

Height of Emiss. Pt. Start 20 End SAME	Height of Emiss. Pt. Rel. to Observer Start 20 End SAME
Distance to Emiss. Pt. Start 80 End SAME	Direction to Emiss. Pt. (Degrees) Start 72 End SAME
Vertical Angle to Obs. Pt. Start 14 End SAME	Direction to Obs. Pt. (Degrees) Start 72 End SAME

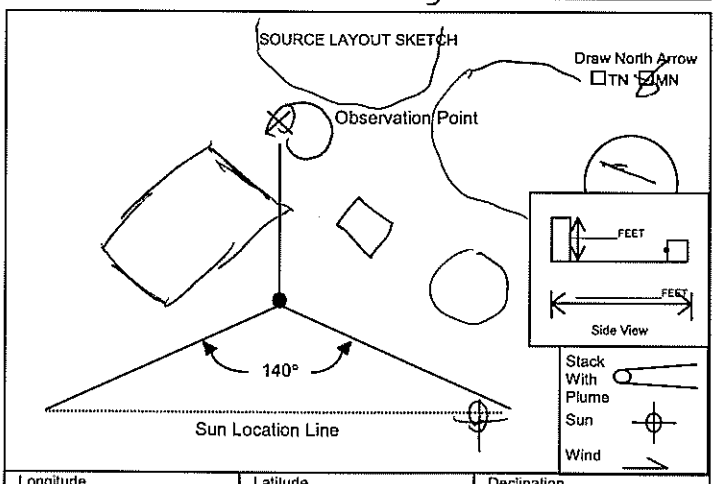
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ None ~

Describe Plume Background: Start PIPE End SAME

Background Color Start BLACK End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 0 End SAME	Wind Direction Start N/A End N/A
Ambient Temp Start 68 End 76	Wet Bulb Temp 63 / Rh, Percent 75



Longitude	Latitude	Declination

Additional Information: RUN 3 NORTH OUTLET

Continued on VEO Form Number						

Observation Date 8/22/06	Start Time 9:03	End Time 9:33

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature] / Date 8/22/06
Organization	CRA
Certified By EPA	Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING

Facility Name: TRUMBULL

Street Address: 870 W. SMITH

City: MEDINA | State: OH | Zip: 44256

Process: TANKS 23,24,25 | Unit #: A36, A38, A40 | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start End | Height of Emiss. Pt. Rel. to Observer Start End

Distance to Emiss. Pt. Start End | Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End | Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point Start End

Describe Emissions Start End

Emission Color Start End | Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

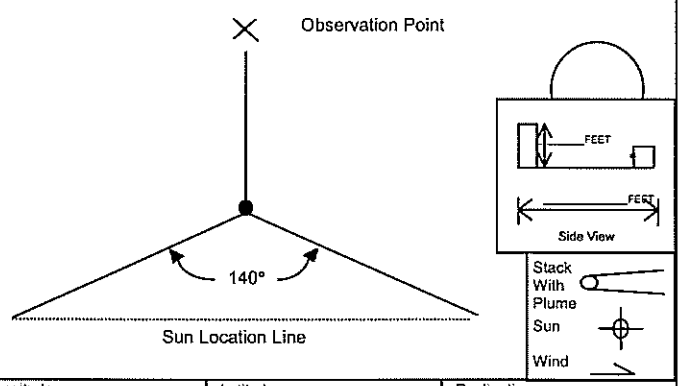
Background Color Start End | Sky Conditions Start End

Wind Speed Start End | Wind Direction Start End

Ambient Temp Start End | Wet Bulb Temp | Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude | Latitude | Declination

Additional Information: RUN 1 SOUTH OUTLET

Continued on VEO Form Number

Observation Date: 8/19/06 | Start Time: 10:05 | End Time: 10:35

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
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46	0	0	0	0	
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48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE

Observer's Signature: [signature] | Date: 8/19/06

Organization: CRA

Certified By: ETA | Date: 4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 23,24,25	Unit #: A36, A38, A40	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVERSTACK

Height of Emiss. Pt. Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer Start 12 End SAME
Distance to Emiss. Pt. Start 20 End SAME	Direction to Emiss. Pt. (Degrees) Start 33 End SAME
Vertical Angle to Obs. Pt. Start 15 End SAME	Direction to Obs. Pt. (Degrees) Start 33 End SAME

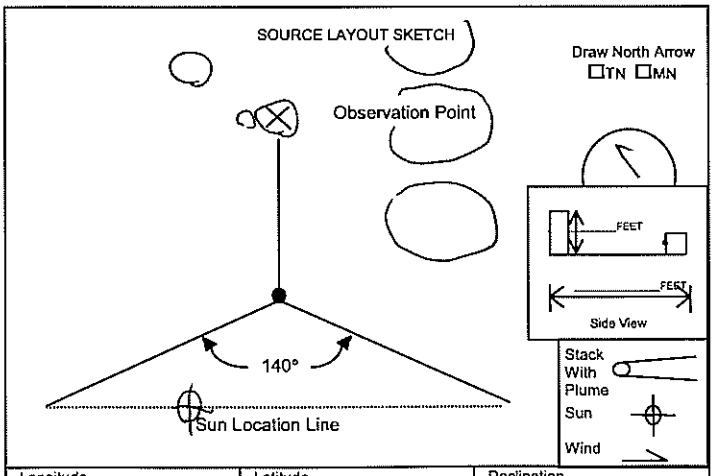
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ None (circled)

Describe Plume Background: Start TANK End SAME

Background Color Start GREY End SAME	Sky Conditions Start OVERCAST RAIN End SAME
Wind Speed Start 0 End SAME	Wind Direction Start NA End NA
Ambient Temp Start 76 End 76	Wet Bulb Temp 75 / Rh, Percent 95



Longitude	Latitude	Declination

Additional Information: RUN 2
SOUTH OUTLET

Continued on VEO Form Number					

Observation Date: 8/19/06 | Start Time: 5:00 | End Time: ~~5:01~~ 5:30

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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17	0	0	0	0	
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19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
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23	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature] / Date 8/19/06
Organization	CRA
Certified By ETA	Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256
Process	TANKS 23,24,25
Unit #:	A36, A38, A40
Operating Mode	
Control Equipment	
Operating Mode	

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

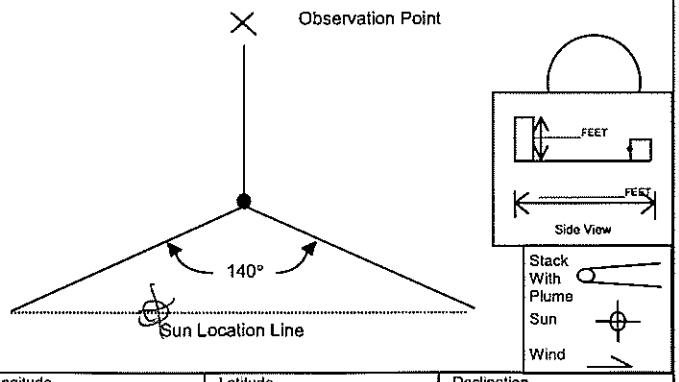
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp. Start 76 End	Wet Bulb Temp 75	Rh, Percent 95

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 2 SOUTH OUTLET

Continued on VEO Form Number

Observation Date	Start Time	End Time
8/19/06	5:30	6:00

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/19/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING

Facility Name: TRUMBULL

Street Address: 870 W. SMITH

City: MEDINA | State: OH | Zip: 44256

Process: TANKS 23,24,25 | Unit #: A36, A38, A40 | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End SAME | Height of Emiss. Pt. Rel. to Observer Start 12 End SAME

Distance to Emiss. Pt. Start 20 End SAME | Direction to Emiss. Pt. (Degrees) Start 33 End SAME

Vertical Angle to Obs. Pt. Start 15 End SAME | Direction to Obs. Pt. (Degrees) Start 33 End SAME

Distance and Direction to Observation Point from Emission Point Start SAME End SAME

Describe Emissions Start CLEAR End SAME

Emission Color Start CLEAR End SAME | Water Droplet Plume Attached ~ Detached ~ (None)

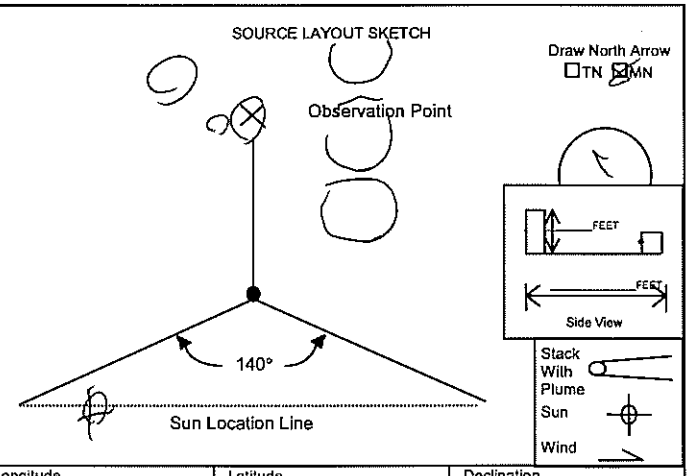
Describe Plume Background Start TANK End SAME

Background Color Start GREY End SAME | Sky Conditions Start OVRCAST End SAME

Wind Speed Start 0 End 5-6 | Wind Direction Start NA End N

Ambient Temp Start 75 End 75 | Wet Bulb Temp 74 | Rh, Percent 95

SOURCE LAYOUT SKETCH



Longitude | Latitude | Declination

Additional Information: RUN 3 SOUTH OUTLET

Continued on VEO Form Number

Observation Date: 8/19/06 | Start Time: 6:19 | End Time: 6:49

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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12	0	0	0	0	
13	0	0	0	0	
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15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE

Observer's Signature: Jason Reville | Date: 8/19/06

Organization: CRA

Certified By: ETA | Date: 4/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 23,24,25	Unit #: A36, A38, A40	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

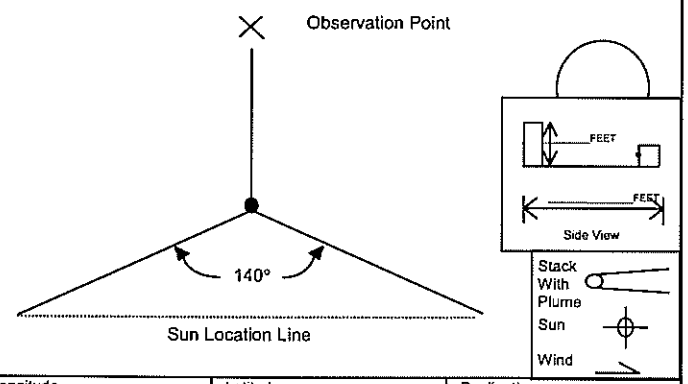
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start End	Wet Bulb Temp / Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3 SOUTH OUTLET

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/19/06	6:55	7:25

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
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50	0	0	0	0	
51	0	0	0	0	
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55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature] Date 8/19/06
Organization	CRA
Certified By	ETA Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH RD.
City	MEDINA
State	OH
Zip	44256

Process: TANKS 30, 31	Unit #: A82, A84	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End	Height of Emiss. Pt. Rel. to Observer Start 12 End
Distance to Emiss. Pt. Start 45 End	Direction to Emiss. Pt. (Degrees) Start 298 End
Vertical Angle to Obs. Pt. Start 9 End	Direction to Obs. Pt. (Degrees) Start 298 End

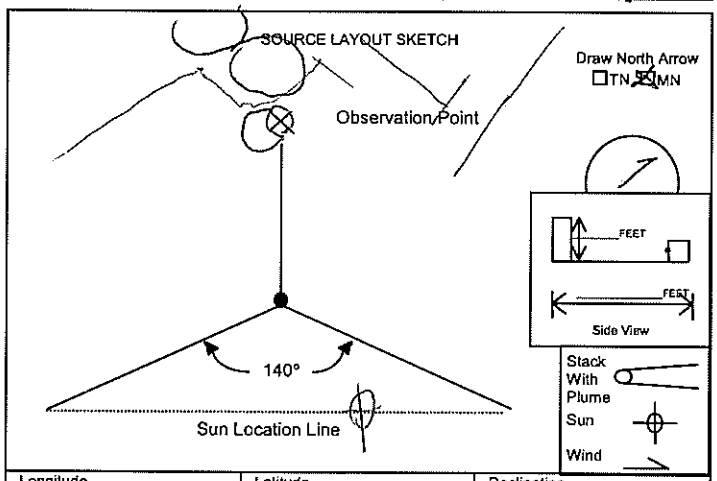
Distance and Direction to Observation Point from Emission Point: Start SAME End

Describe Emissions: Start CLEAR End

Emission Color: Start CLEAR End	Water Droplet Plume: Attached ~ Detached ~ (None)

Describe Plume Background: Start TANK End

Background Color: Start GREY End	Sky Conditions: Start PTLY CLDY End
Wind Speed: Start 2-3 End	Wind Direction: Start S End
Ambient Temp: Start 70 End 72	Wet Bulb Temp: 63 / Rh, Percent: 68



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number

Observation Date	Start Time	End Time
8/17/06	7:41	8:11

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8/17/06
Organization: CRA	
Certified By: ETA	Date: 4/20/06

Form Number _____ Page _____ Of _____

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 30,31	Unit #: A82, A84	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

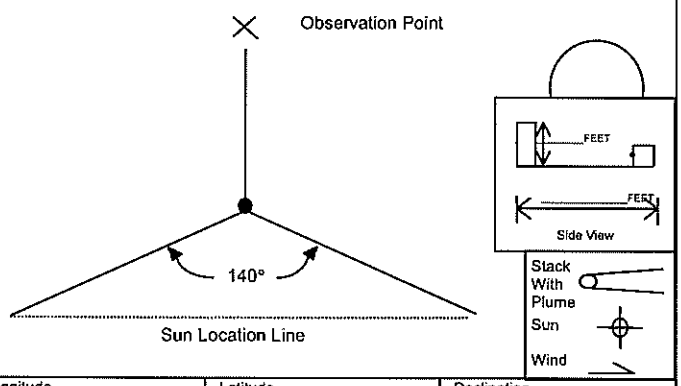
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8.17.06	8:11	8:41

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
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52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILUE	
Observer's Signature: Jason Revilue	Date: 8.17.06
Organization: CRA	
Certified By: EPA	Date: 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 30,31	Unit #: A82, A84	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer Start 12 End SAME
Distance to Emiss. Pt. Start 45 End SAME	Direction to Emiss. Pt. (Degrees) Start 298 End SAME
Vertical Angle to Obs. Pt. Start 9 End SAME	Direction to Obs. Pt. (Degrees) Start 298 End SAME

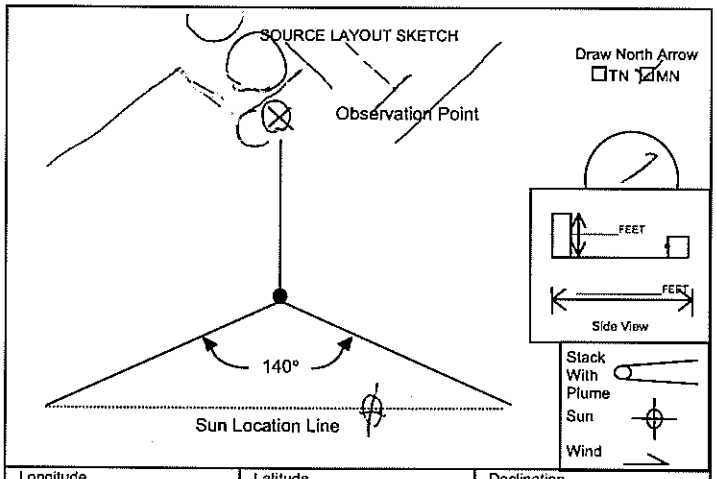
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ None ~

Describe Plume Background: Start TANK End SAME

Background Color Start GREY End SAME	Sky Conditions Start PTLY CLDY End SAME
Wind Speed Start 2-3 End SAME	Wind Direction Start S End SAME
Ambient Temp Start 72 End 71	Wet Bulb Temp 65 / Rh, Percent 69



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/17/06	8:54	9:24

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
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13	0	0	0	0	
14	0	0	0	0	
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23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/17/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: 7ANES 30,31	Unit #: A82, A84	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

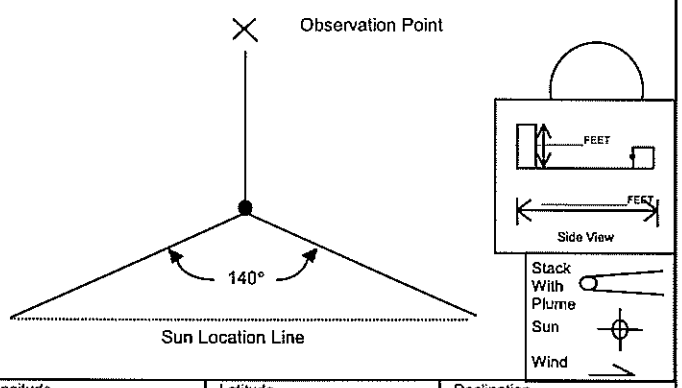
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start End	Wet Bulb Temp / Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 2

Form Number						Page	Of

Continued on VEO Form Number

Observation Date	Start Time	End Time
8/17/06	9:29	9:54

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILE
Observer's Signature	[signature]
Date	8/17/06
Organization	CRA
Certified By	ETA
Date	4/20/06

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process	TANKS 30, 31	Unit #:	A82, A84
Operating Mode			
Control Equipment		Operating Mode	

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt.	Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer	Start 12 End SAME
Distance to Emiss. Pt.	Start 45 End SAME	Direction to Emiss. Pt. (Degrees)	Start 3° End SAME
Vertical Angle to Obs. Pt.	Start 4° End SAME	Direction to Obs. Pt. (Degrees)	Start 3° End SAME

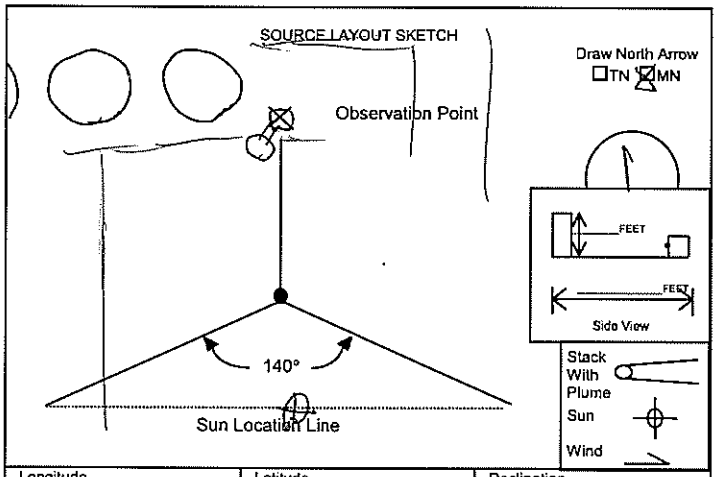
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color	Start CLEAR End SAME	Water Droplet Plume	Attached ~ Detached ~ None ~

Describe Plume Background: Start BUILDING End SAME

Background Color	Start WHITE End SAME	Sky Conditions	Start PTLY CLDY End SAME
Wind Speed	Start 0-3 End SAME	Wind Direction	Start SE End SAME
Ambient Temp	Start 85 End 87	Wet Bulb Temp	73
Rh, Percent	56		



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/17/06	2:05	2:35

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature]
Date	8/17/06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 30, 31	Unit #: A82, A84	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

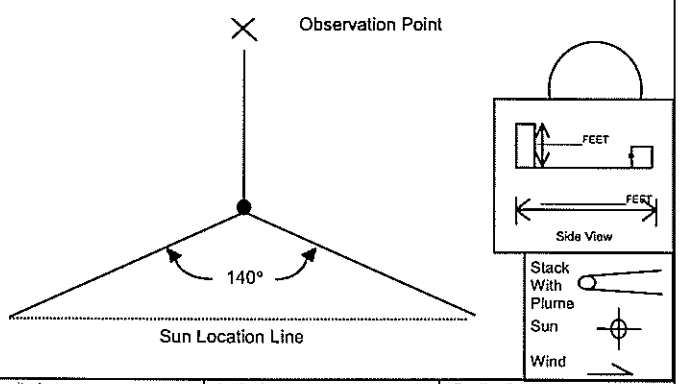
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number

Observation Date: 8/17/06	Start Time: 2:36	End Time: 3:06

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8/17/06
Organization: CRA	
Certified By: ETA	Date: 4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 26,27	Unit #: AG1, AG3	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer Start 12 End SAME
Distance to Emiss. Pt. Start 50 End SAME	Direction to Emiss. Pt. (Degrees) Start 258 End SAME
Vertical Angle to Obs. Pt. Start 70 End SAME	Direction to Obs. Pt. (Degrees) Start 258 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

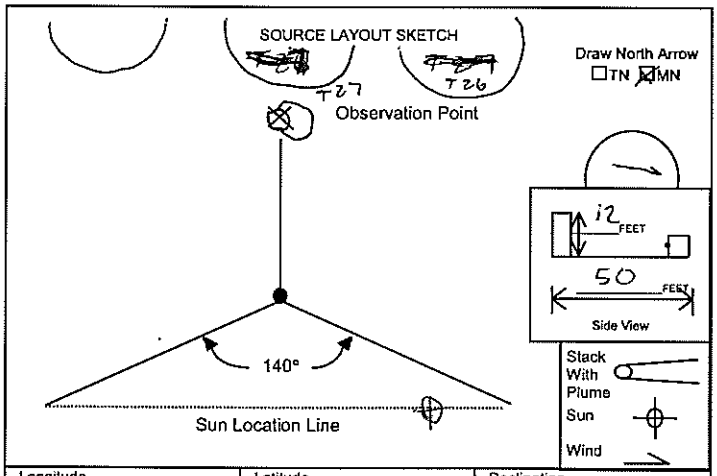
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None ~)

Describe Plume Background: Start TANK / PIPES End SAME

Background Color Start GREY End SAME	Sky Conditions Start CLEAR End PTLY CLDY
Wind Speed Start 2-3 End 0-3	Wind Direction Start S End SAME
Ambient Temp Start 79 End 82	Wet Bulb Temp 74 / Rh, Percent 79

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-15-06	10:50	11:51

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8-15-06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING		
Facility Name: TRUMBULL		
Street Address: 870 W. SMITH		
City: MEDINA	State: OH	Zip: 44256

Process: TANKS 26, 27	Unit #: A61, A63	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point
Start End

Describe Emissions
Start End

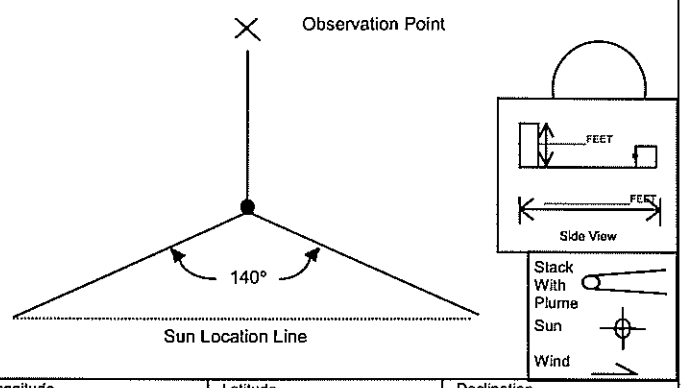
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background
Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date 8.15.06					Start Time 10:50	End Time 11:51
Sec / Min	0	15	30	45	Comments	
31	0	0	0	0		
32	0	0	0	0		
33	0	0	0	0		
34	0	0	0	0		
35	0	0	0	0		
36	0	0	0	0		
37	0	0	0	0		
38	0	0	0	0		
39	0	0	0	0		
40	0	0	0	0		
41	0	0	0	0		
42	0	0	0	0		
43	0	0	0	0		
44	0	0	0	0		
45	0	0	0	0		
46	0	0	0	0		
47	0	0	0	0		
48	0	0	0	0		
49	0	0	0	0		
50	0	0	0	0		
51	0	0	0	0		
52	0	0	0	0		
53	0	0	0	0		
54	0	0	0	0		
55	0	0	0	0		
56	0	0	0	0		
57	0	0	0	0		
58	0	0	0	0		
59	0	0	0	0		
60	0	0	0	0		

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8/15/06
Organization: CRA	
Certified By: ETA	Date: 4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 26,27	Unit #: A61, A63	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer Start 12 End SAME
Distance to Emiss. Pt. Start 50 End SAME	Direction to Emiss. Pt. (Degrees) Start 258 End SAME
Vertical Angle to Obs. Pt. Start 7° End SAME	Direction to Obs. Pt. (Degrees) Start 258 End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

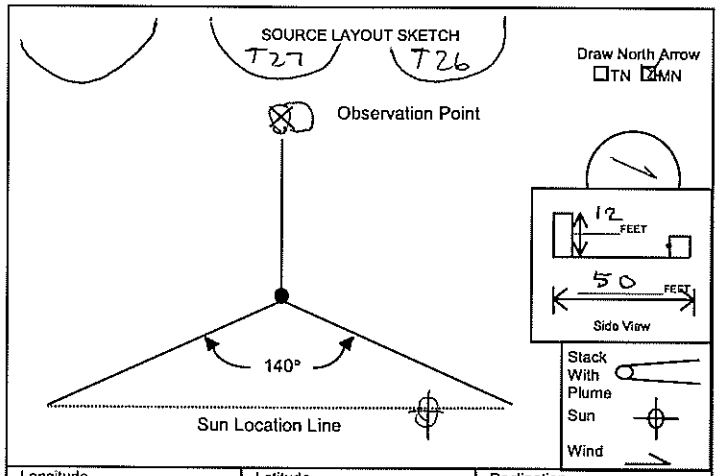
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None)

Describe Plume Background: Start TANK / PIPES End SAME

Background Color Start GREY End SAME	Sky Conditions Start PTLY CLOUDY End SAME
Wind Speed Start 0-3 End SAME	Wind Direction Start S End SAME

Ambient Temp Start 82 End 85	Wet Bulb Temp 79	Rh, Percent 88



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number

Observation Date	Start Time	End Time
8/15/06	12:37	1:07

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8.15.06
Organization: CRA	
Certified By: EJA	Date: 4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process	Unit #:	Operating Mode
TANKS 26,27	A61, A63	
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point
Start End

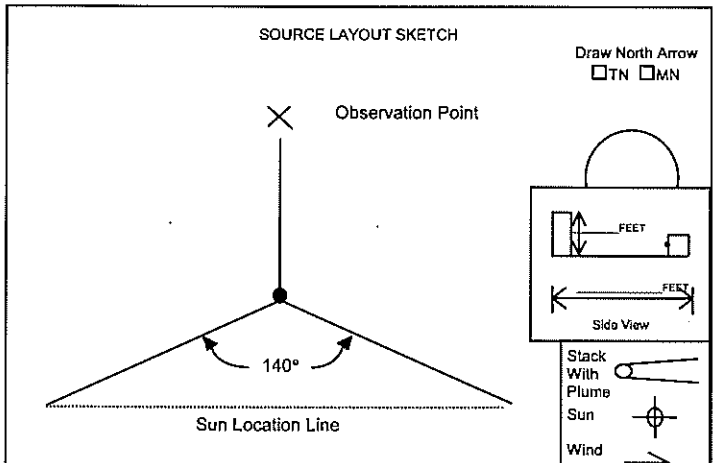
Describe Emissions
Start End

Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background
Start End

Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start End	Wet Bulb Temp / Rh, Percent

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number

Observation Date: 8/15/06 | Start Time: 4:17 | End Time: 4:47

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/15/06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH RD.
City	MEDINA
State	OH
Zip	44256

Process: TANKS 26,27	Unit #: AG1, AG3	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVERFAN SILVERSTACK

Height of Emiss. Pt. Start 12 End SAME	Height of Emiss. Pt. Rel. to Observer Start 12 End SAME
Distance to Emiss. Pt. Start 50 End SAME	Direction to Emiss. Pt. (Degrees) Start 258 End SAME
Vertical Angle to Obs. Pt. Start 7° End SAME	Direction to Obs. Pt. (Degrees) Start 258 End SAME

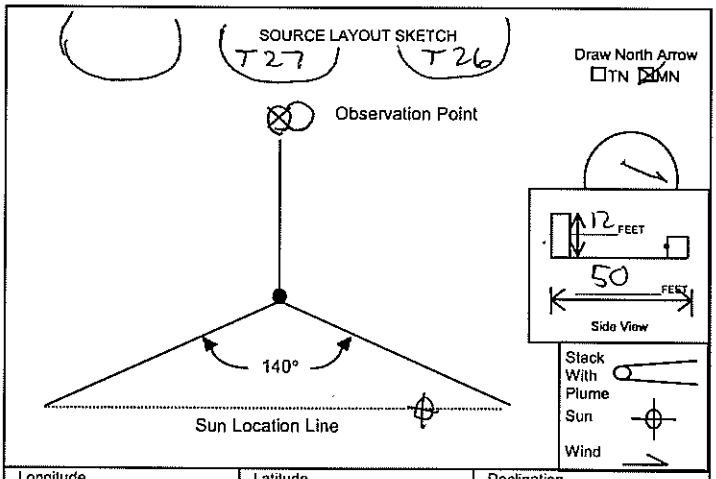
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None ~)

Describe Plume Background: Start TANK / PIPES End SAME

Background Color Start GREY End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 0-3 End SAME	Wind Direction Start N End SAME
Ambient Temp Start 75 End	Wet Bulb Temp 63 / Rh, Percent 55



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number: _____

Observation Date	Start Time	End Time
8/16/06	7:48	7:49

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/16/04
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 26,27	Unit #: A61, A63	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point: Start End

Describe Emissions: Start End

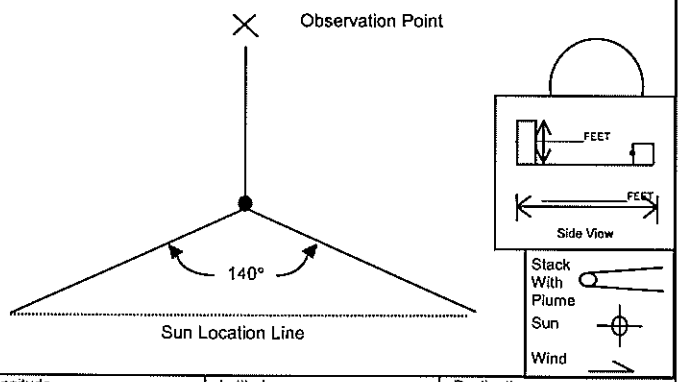
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background: Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/16/06	7:48	8:49

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: [signature]	Date: 8/16/06
Organization: CRA	
Certified By: EPA	Date: 4/20/06

Form Number						Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 40, 41, 42	Unit #: A76, A78, A80	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12' End SAME	Height of Emiss. Pt. Rel. to Observer Start 12' End SAME
Distance to Emiss. Pt. Start 50' End SAME	Direction to Emiss. Pt. (Degrees) Start ~~50~~ 345° End SAME
Vertical Angle to Obs. Pt. Start 12° End SAME	Direction to Obs. Pt. (Degrees) Start 345° End SAME

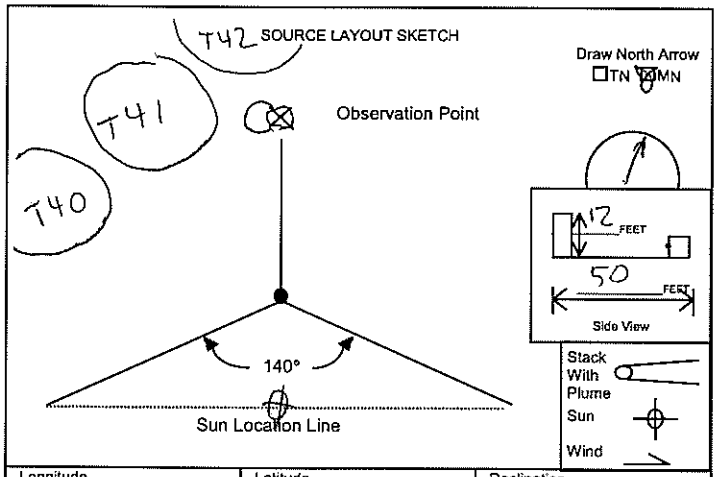
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End	Water Droplet Plume: Attached ~ Detached ~ (None)

Describe Plume Background: Start TANK End SAME

Background Color Start GREY End SAME	Sky Conditions Start PTLY CLDY End OVRCAST
Wind Speed Start 0-4 End SAME	Wind Direction Start S End SAME
Ambient Temp Start 91 End 83	Wet Bulb Temp 78 / Rh, Percent 55



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number					

Observation Date	Start Time	End Time
8-14-06	1:44	2:45

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8-14-06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process	Unit #:	Operating Mode
TANKS 40,41,42	A76, A78, A80	NORMAL
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End

Distance and Direction to Observation Point from Emission Point
Start End

Describe Emissions
Start End

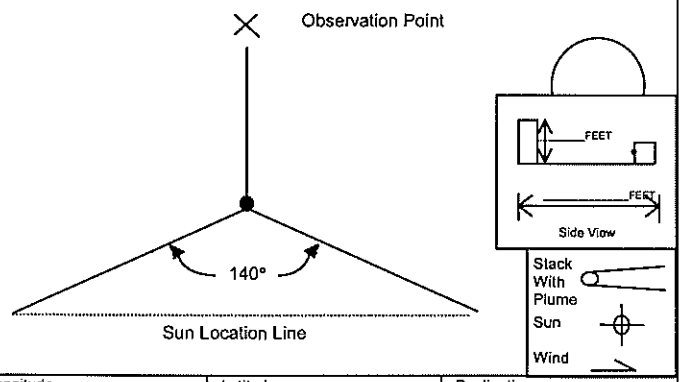
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background
Start End

Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start End	Wet Bulb Temp / Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/14/06	1:44	2:45

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
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56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature]
Date	8.14.06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 40, 41, 42	Unit #: A76, A78, A80	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt. Start 12' End SAME	Height of Emiss. Pt. Rel. to Observer Start 12' End SAME
Distance to Emiss. Pt. Start 50' End SAME	Direction to Emiss. Pt. (Degrees) Start 345° End SAME
Vertical Angle to Obs. Pt. Start 12° End SAME	Direction to Obs. Pt. (Degrees) Start 345° End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

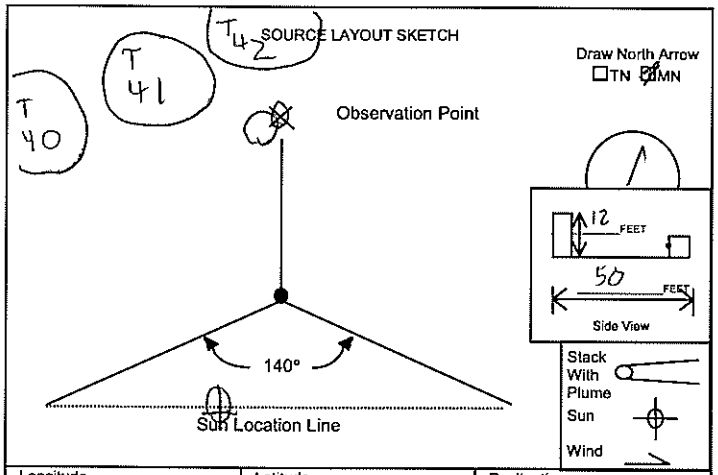
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None ~)

Describe Plume Background: Start TANK End SAME

Background Color Start GREY End SAME	Sky Conditions Start OVERCAST End SAME
Wind Speed Start 0-4 End SAME	Wind Direction Start S End SAME
Ambient Temp Start 83 End 78	Wet Bulb Temp 83 / Rh, Percent 100

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number

Observation Date	Start Time	End Time
8-14-06	3:15	4:15

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
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24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8-14-06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

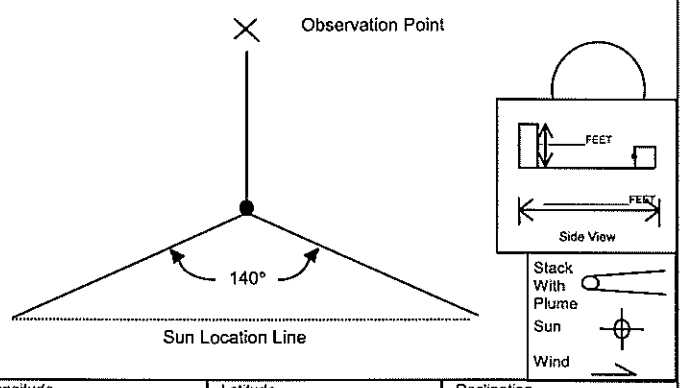
Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256
Process	TANKS 40,41,42
Unit #:	A76, A78, A80
Operating Mode	
Control Equipment	
Operating Mode	

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	
Describe Emissions Start End	
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~
Describe Plume Background Start End	
Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start ~~[illegible]~~ End	Wet Bulb Temp ~~[illegible]~~ / Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 2

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8-14-06	3:15	4:15

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
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47	0	0	0	0	
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53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature]
Date	8·14·06
Organization	CRA
Certified By	ETA
Date	4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 40,41,42	Unit #: A76, A78, A80	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN SILVER STACK

Height of Emiss. Pt.	Start 12' End SAME	Height of Emiss. Pt. Rel. to Observer	Start 12' End SAME
Distance to Emiss. Pt.	Start 50' End SAME	Direction to Emiss. Pt. (Degrees)	Start 250° End SAME
Vertical Angle to Obs. Pt.	Start 12° End SAME	Direction to Obs. Pt. (Degrees)	Start 250° End SAME

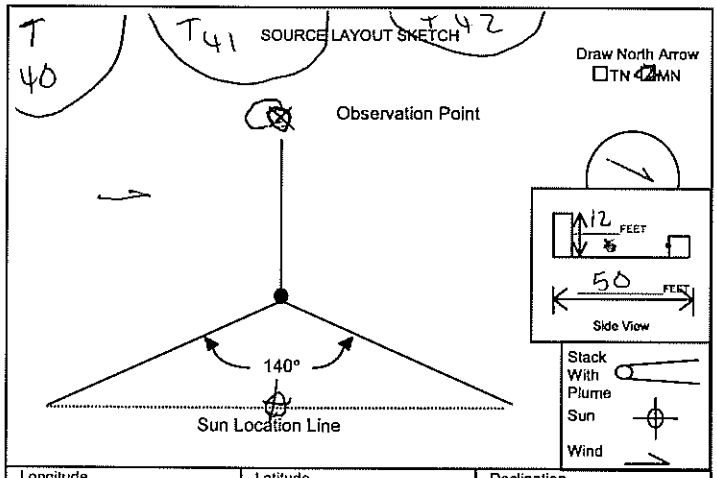
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start CLEAR End SAME

Emission Color	Start CLEAR End SAME	Water Droplet Plume	Attached ~ Detached ~ None

Describe Plume Background: Start SKY End SAME

Background Color	Start BLUE End SAME	Sky Conditions	Start PTLY CLDY End SAME
Wind Speed	Start 3-4 End SAME	Wind Direction	Start S End SAME
Ambient Temp	Start 64 End 68	Wet Bulb Temp 63	Rh, Percent 95



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number

Observation Date: 8/15/06 | Start Time: 7:32 | End Time: 8:33

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE	
Observer's Signature: Jason Reville	Date: 8/16/06
Organization: CRA	
Certified By: ETA	Date: 4/20/06

Form Number | Page | Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: TANKS 40 41 42	Unit #: A76 A78 A80	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

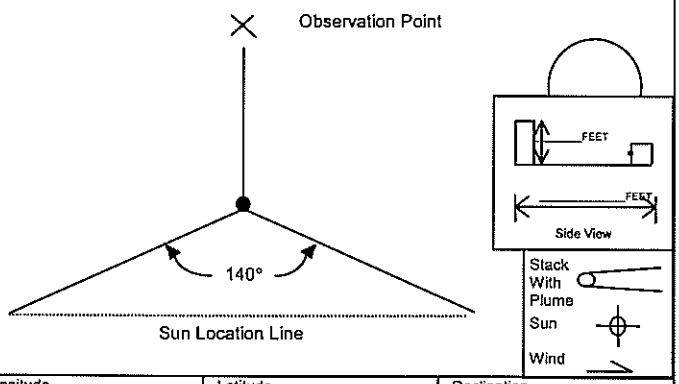
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number						

Observation Date	Start Time	End Time
8/15/06	7:32	8:33

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
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42	0	0	0	0	
43	0	0	0	0	
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45	0	0	0	0	
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55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print) JASON REVILLE	
Observer's Signature Jason Reville	Date 8/15/06
Organization CRA	
Certified By ETA	Date 4/20/06

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EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: ASPHALT TANK #45	Unit #: A108 TO34	Operating Mode: NORMAL
Control Equipment		Operating Mode

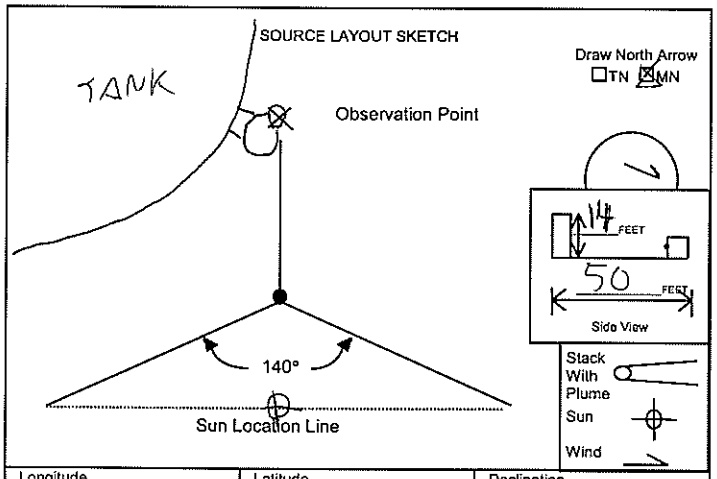
Describe Emission Point: BLUE TANK SILVER FAN WITH SILVER STACK

Height of Emiss. Pt. Start 14' End SAME	Height of Emiss. Pt. Rel. to Observer Start 14' End SAME
Distance to Emiss. Pt. Start 50' End SAME	Direction to Emiss. Pt. (Degrees) Start 255° End SAME
Vertical Angle to Obs. Pt. Start 7° End SAME	Direction to Obs. Pt. (Degrees) Start 255° End SAME
Distance and Direction to Observation Point from Emission Point Start SAME End SAME	

Describe Emissions Start CLEAR End SAME	
Emission Color Start CLEAR End SAME	Water Droplet Plume Attached ~ Detached ~ (None) ~
Describe Plume Background Start SKY End SAME	
Background Color Start BLUE End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 4-7 MPH End SAME	Wind Direction Start S End SAME
Ambient Temp Start 69 End 77	Wet Bulb Temp 66 / Rh, Percent 85

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☒MN



Longitude	Latitude	Declination

Additional Information: RUN 1

Form Number						Page	Of

Continued on VEO Form Number

Observation Date 8/14/06	Start Time 8:52	End Time 9:53

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print) JASON REVILLE	
Observer's Signature [signature]	Date 8/14/06
Organization ~~EASTERN TECH ASSOC.~~ CRA	
Certified By ETA	Date 11/20/06

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

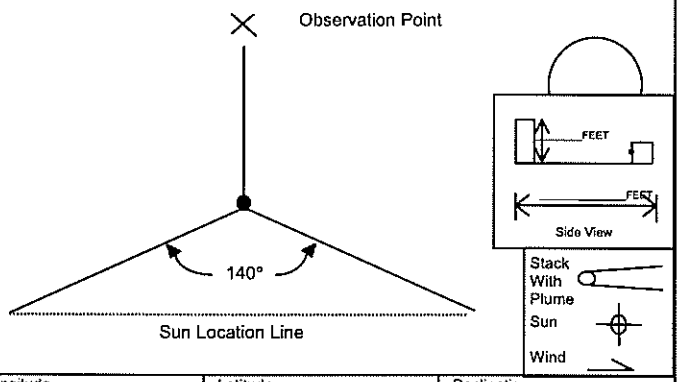
Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256
Process	TANK #45
Unit #:	A108 T034
Operating Mode	
Control Equipment	
Operating Mode	

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End
Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	
Describe Emissions Start End	
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~
Describe Plume Background Start End	
Background Color Start End	Sky Conditions Start End
Wind Speed Start End	Wind Direction Start End
Ambient Temp Start End	Wet Bulb Temp / Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: KUN 1

Continued on VEO Form Number						

Observation Date 8/14/06	Start Time 8:52	End Time 9:53

Sec / Min	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
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40	0	0	0	0	
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55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/14/06
Organization	CRA
Certified By	ETA
Date	4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING
Facility Name: TRUMBULL
Street Address: 870 W. SMITH
City: MEDINA | State: OH | Zip: 44256

Process: ASPHALT TANK #45 | Unit #: A108 T034 | Operating Mode: NORMAL
Control Equipment: | Operating Mode:

Describe Emission Point: BLUE TANK SILVER FAN WITH SILVER STACK

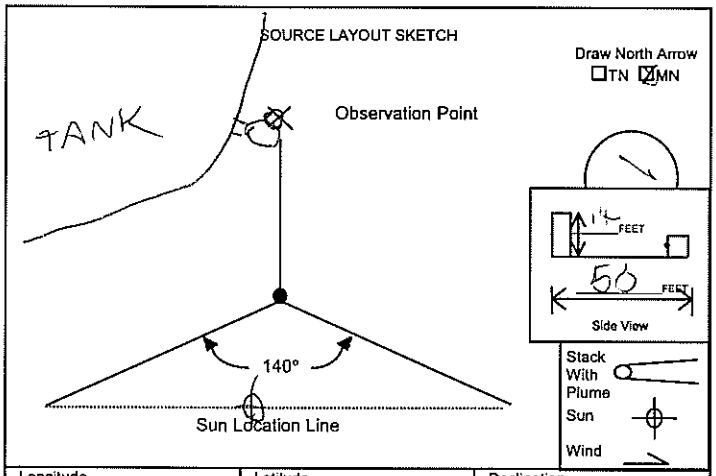
Height of Emiss. Pt. Start 14' End SAME | Height of Emiss. Pt. Rel. to Observer Start 14' End SAME
Distance to Emiss. Pt. Start 50' End SAME | Direction to Emiss. Pt. (Degrees) Start 255° End SAME

Vertical Angle to Obs. Pt. Start 7° End SAME | Direction to Obs. Pt. (Degrees) Start 255° End SAME
Distance and Direction to Observation Point from Emission Point Start SAME End SAME

Describe Emissions Start CLEAR End SAME
Emission Color Start CLEAR End SAME | Water Droplet Plume Attached ~ Detached ~ (None) ~

Describe Plume Background Start SKY End SAME
Background Color Start BLUE End SAME | Sky Conditions Start CLEAR End SAME
Wind Speed Start 7-10 End SAME | Wind Direction Start S End SAME
Ambient Temp Start 80 End 83 | Wet Bulb Temp 72 | Rh. Percent 69

SOURCE LAYOUT SKETCH



Longitude | Latitude | Declination

Additional Information: RUN 2

Continued on VEO Form Number

Observation Date 8/14/06 | Start Time 10:36 | End Time 11:36

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): JASON REVILLE
Observer's Signature: [signature] | Date 8/14/06
Organization: CRA
Certified By: ETA | Date 4/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: OWENS CORNING
Facility Name: TRUMBULL
Street Address: 870 W. SMITH
City: MEDINA | State: OH | Zip: 44256

Process: ASPHALT TANK 45 | Unit #: A1/B TO34 | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emission Point:

Height of Emiss. Pt. Start End | Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End | Direction to Emiss. Pt. (Degrees) Start End

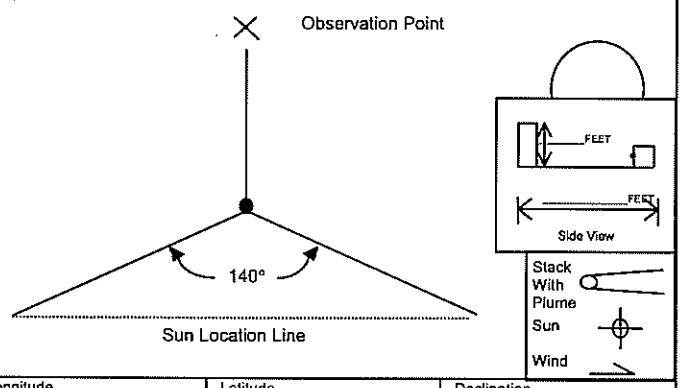
Vertical Angle to Obs. Pt. Start End | Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End

Describe Emissions Start End
Emission Color Start End | Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End
Background Color Start End | Sky Conditions Start End
Wind Speed Start End | Wind Direction Start End
Ambient Temp Start End | Wet Bulb Temp | Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude | Latitude | Declination

Additional Information: RUN 2

Continued on VEO Form Number

Observation Date: 8/14/06 | Start Time: 10:36 | End Time: 11:36

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print): JASON REVILLE
Observer's Signature: [signature] | Date: 8/14/06
Organization: CRA
Certified By: ETA | Date: 14/20/06

Form Number | Page Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: ASPHALT TANK #45	Unit #: A108 T024	Operating Mode: NORMAL
Control Equipment		Operating Mode

Describe Emission Point: BLUE TANK SILVER FAN WITH SILVER STACK

Height of Emiss. Pt. Start 14' End SAME	Height of Emiss. Pt. Rel. to Observer Start 14' End SAME
Distance to Emiss. Pt. Start 50' End SAME	Direction to Emiss. Pt. (Degrees) Start 255° End SAME
Vertical Angle to Obs. Pt. Start 70 End SAME	Direction to Obs. Pt. (Degrees) Start 255° End SAME

Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

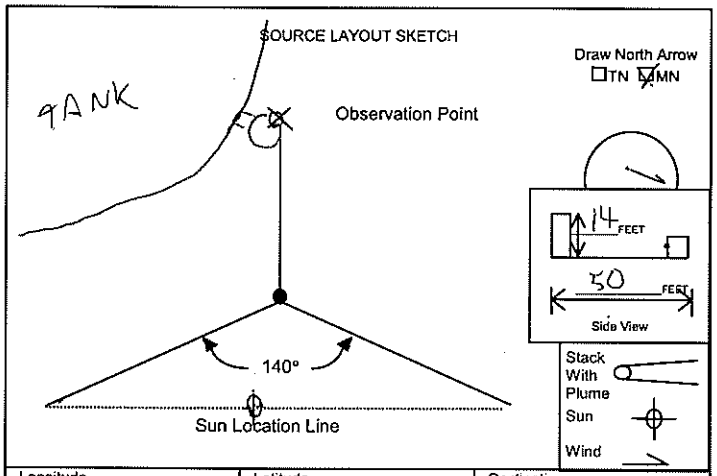
Describe Emissions: Start CLEAR End SAME

Emission Color Start CLEAR End SAME	Water Droplet Plume: Attached ~ Detached ~ (None) ~

Describe Plume Background: Start SKY End SAME

Background Color Start BLUE End SAME	Sky Conditions Start CLEAR End SAME
Wind Speed Start 3-5 End SAME	Wind Direction Start S End SAME
Ambient Temp Start 83 End 85	Wet Bulb Temp 74 / Rh, Percent 83

SOURCE LAYOUT SKETCH



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number					

Observation Date	Start Time	End Time
8/14/06	11:59	1:00

Sec / Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	[signature] / Date 8/14/06
Organization	CRA
Certified By	ETA / Date 4/20/06

Form Number						Page	Of

EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name	OWENS CORNING
Facility Name	TRUMBULL
Street Address	870 W. SMITH
City	MEDINA
State	OH
Zip	44256

Process: ASPHALT TANK 45	Unit #: A108 T034	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End	

Describe Emissions Start End

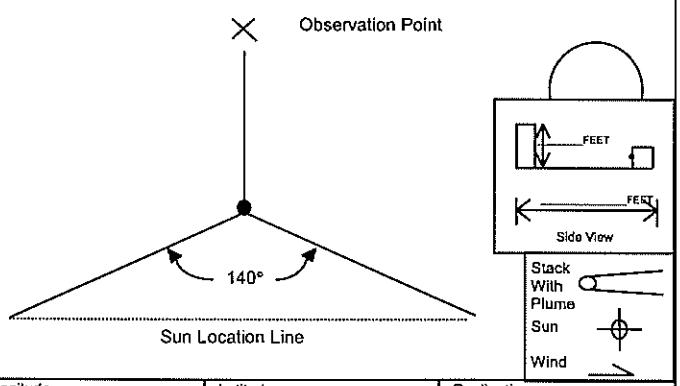
Emission Color Start End	Water Droplet Plume Attached ~ Detached ~ None ~

Describe Plume Background Start End

Background Color Start End	Sky Conditions Start End	
Wind Speed Start End	Wind Direction Start End	
Ambient Temp Start End	Wet Bulb Temp	Rh, Percent

SOURCE LAYOUT SKETCH

Draw North Arrow ☐TN ☐MN



Longitude	Latitude	Declination

Additional Information: RUN 3

Continued on VEO Form Number

Observation Date	Start Time	End Time
8/14/06	11:59	1:00

Min \ Sec	0	15	30	45	Comments
31	0	0	0	0	
32	0	0	0	0	
33	0	0	0	0	
34	0	0	0	0	
35	0	0	0	0	
36	0	0	0	0	
37	0	0	0	0	
38	0	0	0	0	
39	0	0	0	0	
40	0	0	0	0	
41	0	0	0	0	
42	0	0	0	0	
43	0	0	0	0	
44	0	0	0	0	
45	0	0	0	0	
46	0	0	0	0	
47	0	0	0	0	
48	0	0	0	0	
49	0	0	0	0	
50	0	0	0	0	
51	0	0	0	0	
52	0	0	0	0	
53	0	0	0	0	
54	0	0	0	0	
55	0	0	0	0	
56	0	0	0	0	
57	0	0	0	0	
58	0	0	0	0	
59	0	0	0	0	
60	0	0	0	0	

Observer's Name (Print)	JASON REVILLE
Observer's Signature	Jason Reville
Date	8/14/06
Organization	CRA
Certified By	EJA
Date	4/20/06

Form Number						Page	Of

APPENDIX C

CALIBRATION DATA

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

Method 5 Dry Gas Meter Annual Calibration

Meter Box ID: BE04906
Barometric Pressure, P_b, in. Hg: 29.94

Calibration Date: 06/05/06
Reference Meter ID: BE04899
Reference Meter posted Y: 0.990

Parameter	Units	Run 1	Run 2	Run 3	Average
Orfice Manometer Setting, ΔH	in. H_2O	0.50	1.50	3.00	
Elapsed Time	min.	12.0	8.0	6.0	
Reference Meter					
Initial Volume	ft^3	554.339	559.544	565.234	
Final Volume	ft^3	559.407	565.107	571.235	
Total Gas Volume, Vw	ft^3	5.0173	5.5074	5.9410	5.4886
Initial Temperature	F	73.00	74.00	76.00	
Final Temperature	F	73.00	76.00	78.00	
Average Temperature, Tw	F	73.00	75.00	77.00	75.00
Dry Gas Meter					
Initial Volume	ft^3	194.840	199.981	205.599	
Final Volume	ft^3	199.852	205.471	211.481	
Total Gas Volume, Vm	ft^3	5.0120	5.4900	5.8820	5.4613
Initial Temperature Inlet	F	69.00	73.00	79.00	
Final Temperature Inlet	F	73.00	80.00	84.00	
Initial Temperature Outlet	F	69.00	71.00	72.00	
Final Temperature Outlet	F	70.00	72.00	73.00	
Average Temperature, Tm	F	70.25	74.00	77.00	73.75
Results		Be sure to post ΔH @ and Y on the meter box.			
ΔH @	in. H_2O	1.6224	1.7962	1.7398	1.7195
ΔH @ within 0.20 of average?	Yes/No	YES	YES	YES	
Gamma, Y	unitless	0.9947	0.9976	1.0026	0.9983
Y for each run within 0.02 of average?	Yes/No	YES	YES	YES	

Calibrated by: _____ Calibration Reviewed by: _____

$$Y = \frac{V_w P_b (T_m + 460)}{V_m \left(P_b + \frac{\Delta H}{13.6}\right)(T_w + 460)}$$

$$\Delta H @ = \frac{0.0317 \times \Delta H}{P_b \times (T_m + 460)} \times \left[\frac{(T_W + 460) \times \Theta}{V_W}\right]^2$$

CRA METHOD 5 POST-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
3-POINT ENGLISH UNITS

Meter Console Information	
Console Model Number	BE04906
Console Serial Number	
DGM Model Number	
DGM Serial Number	

Calibration Conditions					Factors/Conversions		
Date	Time	09/13/06	8:21	Posted Y	Std Temp	528	°R
Barometric Pressure		29.9	in Hg	0.9983	Std Press	29.92	in Hg
Theoretical Critical Vacuum[1]		14.1	in Hg		K_t	17.647	oR/in Hg
Calibration Technician		SZ.					

[1]For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

[2]The Critical Orifice Coefficient, K', must be entered in English units, $(ft^3 \cdot °R^{1/2})/(in.Hg \cdot min)$.

Calibration Data

Run Time	Metering Console					Critical Orifice				
Elapsed	DGM Orifice ΔH	Volume Initial	Volume Final	Outlet Temp Initial	Outlet Temp Final	Serial Number	Coefficient	Amb Temp Initial	Amb Temp Final	Actual Vacuum
(Θ)	(P_m)	(V_{mi})	(V_{mf})	(t_{mi})	(t_{mf})		K'	(t_{amb})	(t_{amb})	
min	in H_2O	cubic feet	cubic feet	°F	°F		see above2	°F	°F	in Hg
10.0	1.1	928.465	934.658	69	70	55	0.4611	69	69	16
10.0	1.1	934.658	940.850	70	70	55	0.4611	69	69	16
10.0	1.1	940.850	947.061	70	72	55	0.4611	69	69	16

Results

Standardized Data				Dry Gas Meter				
Dry Gas Meter		Critical Orifice		Calibration Factor		Flowrate	ΔH @	
				Value	Variation	Std & Corr	0.75 SCFM	Variation
($V_{m(std)}$)	($Q_{m(std)}$)	($Vcr_{(std)}$)	($Q_{cr(std)}$)	(Y)	(ΔY)	($Q_{m(std)(corr)}$)	(ΔH@)	(ΔΔH@)
cubic feet	cfm	cubic feet	cfm			cfm	in H2O	
6.190	0.619	5.996	0.600	0.969	0.000	0.600	1.726	0.002
6.183	0.618	5.996	0.600	0.970	0.001	0.600	1.724	0.001
6.191	0.619	5.996	0.600	0.969	0.000	0.600	1.721	-0.003
		Difference from posted Y	-0.02927	0.96903	Y Average		1.724	ΔH@ Average

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +-0.02. And the difference from the posted Y must be less than 0.05.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F107, which is traceable to the National Bureau of Standards (N.I.S.T.).

Signature [signature] Date 9/13/06

Revision- 00
March 2004

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

Method 5 Dry Gas Meter Annual Calibration

Meter Box ID: BE04907
Barometric Pressure, P_b, in. Hg: 29.94

Calibration Date: 06/05/06
Reference Meter ID: BE04899
Reference Meter posted Y: 0.990

Parameter	Units	Run 1	Run 2	Run 3	Average
Orfice Manometer Setting, ΔH	in. H_2O	0.50	1.50	3.00	
Elapsed Time	min.	12.0	8.0	5.0	
Reference Meter					
Initial Volume	ft^3	538.043	543.316	549.106	
Final Volume	ft^3	543.161	548.979	554.188	
Total Gas Volume, Vw	ft^3	5.0668	5.6064	5.0312	5.2348
Initial Temperature	F	69.00	69.00	71.00	
Final Temperature	F	69.00	71.00	72.00	
Average Temperature, Tw	F	69.00	70.00	71.50	70.17
Dry Gas Meter					
Initial Volume	ft^3	401.496	406.734	412.474	
Final Volume	ft^3	406.583	412.345	417.489	
Total Gas Volume, Vm	ft^3	5.0870	5.6110	5.0150	5.2377
Initial Temperature Inlet	F	65.00	69.00	73.00	
Final Temperature Inlet	F	70.00	75.00	78.00	
Initial Temperature Outlet	F	65.00	67.00	69.00	
Final Temperature Outlet	F	67.00	68.00	70.00	
Average Temperature, Tm	F	66.75	69.75	72.50	69.67
Results		**Be sure to post ΔH @ and Y on the meter box.**			
ΔH @	in. H_2O	1.5775	1.7147	1.6642	1.6522
ΔH @ within 0.20 of average?	Yes/No	YES	YES	YES	
Gamma, Y	unitless	0.9906	0.9950	0.9978	0.9945
Y for each run within 0.02 of average?	Yes/No	YES	YES	YES	

Calibrated by: _____ Calibration Reviewed by: _____

$$Y = \frac{V_w P_b (T_m + 460)}{V_m \left(P_b + \frac{\Delta H}{13.6}\right)(T_w + 460)}$$

$$\Delta H@ = \frac{0.0317 \times \Delta H}{P_b \times (T_m + 460)} \times \left[\frac{(T_w + 460) \times \Theta}{V_w}\right]^2$$

CRA METHOD 5 POST-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
3-POINT ENGLISH UNITS

Meter Console Information	
Console Model Number	BE04907
Console Serial Number	
DGM Model Number	
DGM Serial Number	

Calibration Conditions					Factors/Conversions		
Date	Time	09/13/06	9:27	Posted Y	Std Temp	528	°R
Barometric Pressure		29.9	in Hg	0.9945	Std Press	29.92	in Hg
Theoretical Critical Vacuum[1]		14.1	in Hg		K_1	17.647	oR/in Hg
Calibration Technician		SZ.					

[1]For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

[2]The Critical Orifice Coefficient, K', must be entered in English units, $(ft^3 \cdot °R^{1/2})/(in.Hg \cdot min)$.

Calibration Data										
Run Time	Metering Console					Critical Orifice				
Elapsed	DGM Orifice ΔH	Volume Initial	Volume Final	Outlet Temp Initial	Outlet Temp Final	Serial Number	Coefficient	Amb Temp Initial	Amb Temp Final	Actual Vacuum
(Θ)	(P_m)	(V_{mi})	(V_{mf})	(t_{mi})	(t_{mf})		K'	(t_{amb})	(t_{amb})	
min	in H_2O	cubic feet	cubic feet	°F	°F		see above2	°F	°F	in Hg
10.0	1.1	934.340	940.364	65	65	55	0.4611	66	66	16
10.0	1.1	940.364	946.386	65	66	55	0.4611	66	66	16
10.0	1.1	946.386	952.433	66	67	55	0.4611	66	66	16

Results								
Standardized Data				Dry Gas Meter				
Dry Gas Meter		Critical Orifice		Calibration Factor		Flowrate	ΔH @	
($V_{m(std)}$)	($Q_{m(std)}$)	($Vcr_{(std)}$)	($Q_{cr(std)}$)	Value (Y)	Variation (ΔY)	Std & Corr ($Q_{m(std)(corr)}$)	0.75 SCFM (ΔH@)	Variation (ΔΔH@)
cubic feet	cfm	cubic feet	cfm			cfm	in H2O	
6.073	0.607	6.013	0.601	0.990	0.000	0.601	1.731	0.002
6.065	0.606	6.013	0.601	0.991	0.001	0.601	1.729	0.001
6.079	0.608	6.013	0.601	0.989	-0.001	0.601	1.726	-0.003
		Difference from posted Y	-0.00417	0.99033	Y Average		1.729	ΔH@ Average

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +-0.02. And the difference from the posted Y must be less than 0.05.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F107, which is traceable to the National Bureau of Standards (N.I.S.T.).

Signature [signature] Date 9/13/06

Revision- 00
March 2004

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

Method 5 Dry Gas Meter Annual Calibration

Meter Box ID: BE04908
Barometric Pressure, P_b, in. Hg: 29.94

Calibration Date: 06/05/06
Reference Meter ID: BE04899
Reference Meter posted Y: 0.990

Parameter	Units	Run 1	Run 2	Run 3	Average
Orfice Manometer Setting, ΔH	in. H_2O	0.50	1.50	3.00	
Elapsed Time	min.	14.0	8.0	6.0	
Reference Meter					
Initial Volume	ft^3	520.108	526.271	531.989	
Final Volume	ft^3	526.075	531.799	537.895	
Total Gas Volume, Vw	ft^3	5.9073	5.4727	5.8469	5.7423
Initial Temperature	F	68.00	69.00	71.00	
Final Temperature	F	68.00	70.00	72.00	
Average Temperature, Tw	F	68.00	69.50	71.50	69.67
Dry Gas Meter					
Initial Volume	ft^3	166.582	172.625	178.144	
Final Volume	ft^3	172.440	177.952	183.918	
Total Gas Volume, Vm	ft^3	5.8580	5.3270	5.7740	5.6530
Initial Temperature Inlet	F	66.00	70.00	73.00	
Final Temperature Inlet	F	70.00	75.00	80.00	
Initial Temperature Outlet	F	66.00	68.00	69.00	
Final Temperature Outlet	F	68.00	69.00	70.00	
Average Temperature, Tm	F	67.50	70.50	73.00	70.33
Results		Be sure to post ΔH @ and Y on the meter box.			
ΔH @	in. H_2O	1.5714	1.7936	1.7728	1.7126
ΔH @ within 0.20 of average?	Yes/No	YES	YES	YES	
Gamma, Y	unitless	1.0062	1.0255	1.0081	1.0133
Y for each run within 0.02 of average?	Yes/No	YES	YES	YES	

Calibrated by: Calibration Reviewed by:

$$Y = \frac{V_w P_b (T_m + 460)}{V_m \left(P_b + \frac{\Delta H}{13.6}\right)(T_w + 460)}$$

$$\Delta H@ = \frac{0.0317 \times \Delta H}{P_b \times (T_m + 460)} \times \left[\frac{(T_w + 460) \times \Theta}{V_w}\right]^2$$

CRA METHOD 5 POST-TEST CONSOLE CALIBRATION
USING CALIBRATED CRITICAL ORIFICES
3-POINT ENGLISH UNITS

Meter Console Information	
Console Model Number	BE04908
Console Serial Number	
DGM Model Number	
DGM Serial Number	

Calibration Conditions					Factors/Conversions		
Date	Time	09/13/06	12:37	Posted Y	Std Temp	528	°R
Barometric Pressure		29.9	in Hg	1.0133	Std Press	29.92	in Hg
Theoretical Critical Vacuum[1]		14.1	in Hg		K_1	17.647	oR/in Hg
Calibration Technician		SZ					

[1]For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above.

[2]The Critical Orifice Coefficient, K', must be entered in English units, $(ft^3 \cdot °R^{1/2})/(in.Hg \cdot min)$.

Calibration Data

Run Time	Metering Console					Critical Orifice				
Elapsed	DGM Orifice ΔH	Volume Initial	Volume Final	Outlet Temp Initial	Outlet Temp Final	Serial Number	Coefficient	Amb Temp Initial	Amb Temp Final	Actual Vacuum
(Θ)	(P_m)	(V_{mi})	(V_{mf})	(t_{mi})	(t_{mf})		K'	(t_{amb})	(t_{amb})	
min	in H_2O	cubic feet	cubic feet	°F	°F		see above2	°F	°F	in Hg
10.0	1.1	597.978	603.719	67	68	55	0.4611	67	67	15
10.0	1.1	603.719	609.379	68	69	55	0.4611	67	68	15
10.0	1.1	609.379	615.086	69	70	55	0.4611	68	68	15

Results

Standardized Data				Dry Gas Meter				
				Calibration Factor		Flowrate	ΔH @	
Dry Gas Meter		Critical Orifice		Value	Variation	Std & Corr	0.75 SCFM	Variation
$(V_{m(std)})$	$(Q_{m(std)})$	$(Vcr_{(std)})$	$(Q_{cr(std)})$	(Y)	(ΔY)	$(Q_{m(std)(corr)})$	(ΔH@)	(ΔΔH@)
cubic feet	cfm	cubic feet	cfm			cfm	in H2O	
5.754	0.575	6.002	0.600	1.043	-0.009	0.600	1.728	0.002
5.662	0.566	5.999	0.600	1.059	0.008	0.600	1.726	0.000
5.699	0.570	5.996	0.600	1.052	0.001	0.600	1.725	-0.002
		Difference from posted Y	0.03823	1.05153	Y Average		1.726	ΔH@ Average

Note: For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +-0.02. And the difference from the posted Y must be less than 0.05.

I certify that the above Dry Gas Meter was calibrated in accordance with USEPA Methods, CFR 40 Part 60, using the Precision Wet Test Meter # 11AE6, which in turn was calibrated using the American Bell Prover # 3785, certificate # F107, which is traceable to the National Bureau of Standards (N.I.S.T.).

Signature [illegible] Date 9/13/06

Control #	Avg Diameter	Nozzle I.D.	Type	Diameter 1	Diameter 2	Diameter 3	Average Diameter	Cal Date	Calibrator
BE04952	F (7/16)	F-06	Steel	0.434	0.431	0.431	0.432	11/27/00	JRTJ
BE04952 Count	4								
BE04953	G (1/2)	G-01	Steel	0.498	0.497	0.499	0.498	05/21/01	JRTJ
BE04953	G (1/2)	G-04	Steel	0.496	0.498	0.495	0.496	10/31/00	KWJ
BE04953	G (1/2)	G-05	Steel	0.501	0.500	0.500	0.500	05/21/01	JRTJ
BE04953	G (1/2)	G-06	Steel	0.499	0.500	0.498	0.499	01/13/99	RCS
BE04953	G (1/2)	G-07	Steel	0.493	0.495	0.497	0.495	01/13/99	RCS
BE04953	G (1/2)	G-08	Steel	0.499	0.502	0.498	0.500	01/13/99	RCS
BE04953	G (1/2)	G-12	Steel	0.507	0.505	0.503	0.505	01/13/99	RCS
BE04953 Count	7								
BE04954	I (5/8)	I-01	Steel	0.624	0.625	0.625	0.625	01/13/99	RCS
BE04954	I (5/8)	I-02	Steel	0.620	0.621	0.624	0.622	02/07/00	JJC
BE04954	I (5/8)	I-03	Steel	0.624	0.623	0.620	0.622	05/21/01	JRTJ
BE04954	I (5/8)	I-04	Steel	0.625	0.624	0.620	0.623	05/21/01	JRTJ
BE04954	I (5/8)	I-05	Steel	0.625	0.620	0.622	0.622	05/21/01	JRTJ
BE04954 Count	5								
BE04955	K (3/4)	K-01	Steel	0.755	0.756	0.753	0.755	01/13/99	RCS
BE04955	K (3/4)	K-02	Steel	0.755	0.754	0.751	0.753	01/13/99	RCS
BE04955	K (3/4)	K-03	Steel	0.752	0.753	0.751	0.752	01/13/99	RCS
BE04955	K (3/4)	K-04	Steel	0.756	0.756	0.752	0.755	01/13/99	RCS
BE04955 Count	4								
BE04956	GY (7/64)	GY-03	Glass	0.115	0.113	0.115	0.114	12/03/01	LCE
BE04956	GY (7/64)	GY-05	Glass	0.114	0.114	0.114	0.114	01/13/99	RCS
BE04956	GY (7/64)	GY-06	Glass	0.114	0.111	0.110	0.112	01/13/99	RCS
BE04956	GY (7/64)	GY-07	Glass	0.114	0.114	0.113	0.114	01/13/99	RCS
BE04956 Count	4								
BE04957	GA- (5/32)	GA-03	Glass	0.154	0.155	0.155	0.155	01/16/02	KWJ
BE04957	GA- (5/32)	GA-04	Glass	0.156	0.154	0.155	0.155	01/16/02	KWJ
BE04957	GA- (5/32)	GA-06	Glass	0.153	0.151	0.151	0.152	04/12/04	JMO
BE04957	GA- (5/32)	GA-07	Glass	0.163	0.161	0.161	0.162	04/12/04	JMO
BE04957	GA- (5/32)	GA-08	Glass	0.150	0.148	0.149	0.149	04/12/04	JMO
BE04957	GA- (5/32)	GA-09	Glass	0.149	0.149	0.149	0.149	04/12/04	JMO
BE04957 Count	6								
BE04958	GB- (3/16)	GB-17	Glass	0.190	0.191	0.190	0.190	08/09/06	AGK
BE04958	GB- (3/16)	GB-18	Glass	0.191	0.190	0.190	0.190	08/09/06	AGK
BE04958	GB- (3/16)	GB-19	Glass	0.193	0.191	0.192	0.192	08/09/06	AGK
BE04958	GB- (3/16)	GB-20	Glass	0.192	0.192	0.192	0.192	08/09/06	AGK
BE04958	GB- (3/16)	GB-21	Glass	0.191	0.192	0.192	0.192	08/09/06	AGK
BE04958	GB- (3/16)	GB-22	Glass	0.192	0.194	0.193	0.193	08/09/06	AGK
BE04958 Count	1								
BE04959	GX (7/32)	GX-11	Glass	0.219	0.219	0.219	0.219	06/30/03	TAB
BE04959	GX (7/32)	GX-13	Glass	0.206	0.206	0.208	0.207	08/09/06	AGK
BE04959	GX (7/32)	GX-14	Glass	0.207	0.206	0.207	0.207	08/09/06	AGK
BE04959	GX (7/32)	GX-15	Glass	0.207	0.207	0.208	0.207	08/09/06	AGK
BE04959	GX (7/32)	GX-16	Glass	0.208	0.209	0.209	0.208	08/09/06	AGK
BE04959	GX (7/32)	GX-17	Glass	0.208	0.207	0.208	0.208	08/09/06	AGK
BE04959	GX (7/32)	GX-18	Glass	0.208	0.208	0.209	0.208	08/09/06	AGK
BE04959 Count	7								
BE04960	GC (1/4)	GC-49	Glass	0.261	0.261	0.261	0.261	08/05/03	AGK
BE04960	GC (1/4)	GC-54	Glass	0.256	0.256	0.256	0.256	08/05/03	AGK
BE04960	GC (1/4)	GC-60	Glass	0.253	0.252	0.253	0.253	12/13/04	SZ
BE04960	GC (1/4)	GC-68	Glass	0.255	0.255	0.255	0.255	12/13/04	SZ
BE04960	GC (1/4)	GC-69	Glass	0.257	0.258	0.257	0.257	08/09/06	AGK
BE04960	GC (1/4)	GC-70	Glass	0.256	0.258	0.257	0.257	08/09/06	AGK
BE04960	GC (1/4)	GC-71	Glass	0.257	0.258	0.258	0.258	08/09/06	AGK
BE04960	GC (1/4)	GC-72	Glass	0.259	0.258	0.258	0.258	08/09/06	AGK
BE04960	GC (1/4)	GC-73	Glass	0.260	0.258	0.259	0.259	08/09/06	AGK
BE04960	GC (1/4)	GC-74	Glass	0.258	0.258	0.259	0.258	08/09/06	AGK
BE04960 Count	4								
BE04961	GW (9/32)	GW-07	Glass	0.275	0.275	0.274	0.275	12/03/01	LCE
BE04961	GW (9/32)	GW-08	Glass	0.274	0.275	0.274	0.274	12/03/01	LCE
BE04961	GW (9/32)	GW-17	Glass	0.277	0.279	0.276	0.277	02/24/03	SH

Control #	Avg Diameter	Nozzle I.D.	Type	Diameter 1	Diameter 2	Diameter 3	Average Diameter	Cal Date	Calibrator
BE04961	GW (9/32)	GW-18	Glass	0.280	0.280	0.279	0.280	02/24/03	SH
BE04961	GW (9/32)	GW-19	Glass	0.279	0.276	0.278	0.277	08/09/06	AGK
BE04961	GW (9/32)	GW-20	Glass	0.278	0.278	0.279	0.278	08/09/06	AGK
BE04961	GW (9/32)	GW-21	Glass	0.277	0.277	0.278	0.278	08/09/06	AGK
BE04961 Count	4								
BE04962	GD (5/16)	GD-33	Glass	0.297	0.298	0.297	0.297	04/12/04	JMO
BE04962	GD (5/16)	GD-35	Glass	0.300	0.301	0.299	0.300	04/12/04	JMO
BE04962	GD (5/16)	GD-42	Glass	0.309	0.308	0.307	0.308	04/29/05	SZ
BE04962	GD (5/16)	GD-43	Glass	0.312	0.312	0.311	0.312	08/09/06	AGK
BE04962	GD (5/16)	GD-44	Glass	0.313	0.312	0.312	0.312	08/09/06	AGK
BE04962	GD (5/16)	GD-45	Glass	0.314	0.313	0.313	0.313	08/09/06	AGK
BE04962 Count	3								
BE04963	GE (23/64)	GE-32	Glass	0.367	0.369	0.369	0.368	04/12/04	JMO
BE04963	GE (23/64)	GE-33	Glass	0.376	0.375	0.376	0.376	04/12/04	JMO
BE04963	GE (23/64)	GE-35	Glass	0.378	0.377	0.377	0.377	04/12/04	JMO
BE04963	GE (23/64)	GE-36	Glass	0.374	0.375	0.376	0.375	04/12/04	JMO
BE04963	GE (23/64)	GE-37	Glass	0.370	0.369	0.369	0.369	04/12/04	JMO
BE04963	GE (23/64)	GE-39	Glass	0.375	0.377	0.375	0.376	04/12/04	JMO
BE04963	GE (23/64)	GE-41	Glass	0.376	0.378	0.376	0.377	04/12/04	JMO
BE04963 Count	7								
BE04964	GZ (25/64)	GZ-04	Glass	0.391	0.391	0.391	0.391	01/03/02	KWJ
BE04964	GZ (25/64)	GZ-05	Glass	0.395	0.396	0.393	0.395	01/13/99	RCS
BE04964	GZ (25/64)	GZ-09	Glass	0.390	0.391	0.390	0.390	04/12/04	JMO
BE04964	GZ (25/64)	GZ-10	Glass	0.392	0.392	0.392	0.392	04/12/04	JMO
BE04964	GZ (25/64)	GZ-11	Glass	0.383	0.383	0.383	0.383	04/12/04	JMO
BE04964	GZ (25/64)	GZ-12	Glass	0.389	0.388	0.388	0.388	04/12/04	JMO
BE04964 Count	6								
BE04965	GF (7/16)								
BE04965 Count	1								
BE04966	GG (1/2)	GG-02	Glass	0.501	0.499	0.503	0.501	09/05/00	JJC
BE04966	GG (1/2)	GG-03	Glass	0.493	0.500	0.499	0.497	09/05/00	JJC
BE04966	GG (1/2)	GG-10	Glass	0.501	0.500	0.501	0.501	01/13/99	RCS
BE04966 Count	3								
BE04967	QA								
BE04967 Count	1								
BE04968	QB (3/16)	QB-01	Quartz	0.180	0.179	0.180	0.180	01/13/99	RCS
BE04968	QB (3/16)	QB-02	Quartz	0.182	0.181	0.181	0.181	01/13/99	RCS
BE04968	QB (3/16)	QB-03	Quartz	0.197	0.196	0.197	0.197	01/13/99	RCS
BE04968	QB (3/16)	QB-11	Quartz	0.196	0.198	0.197	0.197	01/13/99	RCS
BE04968	QB (3/16)	QB-21	Quartz	0.197	0.199	0.199	0.198	01/13/99	RCS
BE04968	QB (3/16)	QB-22	Quartz	0.194	0.195	0.195	0.195	08/09/06	AGK
BE04968	QB (3/16)	QB-23	Quartz	0.193	0.197	0.195	0.195	08/09/06	AGK
BE04968	QB (3/16)	QB-24	Quartz	0.194	0.195	0.195	0.195	08/09/06	AGK
BE04968 Count	5								
BE04969	QC (1/4)	QC-02	Quartz	0.260	0.258	0.261	0.260	01/13/99	RCS
BE04969	QC (1/4)	QC-09	Quartz	0.260	0.262	0.261	0.261	04/12/04	JMO
BE04969	QC (1/4)	QC-12	Quartz	0.226	0.227	0.227	0.227	08/09/06	AGK
BE04969	QC (1/4)	QC-13	Quartz	0.228	0.227	0.227	0.227	08/09/06	AGK
BE04969	QC (1/4)	QC-14	Quartz	0.231	0.230	0.230	0.230	08/09/06	AGK
BE04969	QC (1/4)	QC-15	Quartz	0.228	0.226	0.227	0.227	10/14/05	SZ
BE04969	QC (1/4)	QC-16	Quartz	0.229	0.230	0.230	0.230	10/14/05	SZ
BE04969 Count	7								
BE04970	QD	QD-01	Quartz	0.314	0.314	0.314	0.314	10/14/05	SZ
BE04970	QD(5/16)	QD-03	Quartz	0.315	0.315	0.315	0.315	10/14/05	SZ
BE04970	QD(5/16)	QD-05	Quartz	0.311	0.309	0.310	0.310	08/09/06	AGK
BE04970	QD(5/16)	QD-06	Quartz	0.310	0.311	0.310	0.310	08/09/06	AGK
BE04970	QD(5/16)	QD-07	Quartz	0.316	0.315	0.315	0.315	08/09/06	AGK
BE04970	QD(5/16)	QD-08	Quartz	0.319	0.320	0.319	0.319	08/09/06	AGK
BE04970 Count	2								
BE04971	QE (25/64)	QE-01	Quartz	0.391	0.389	0.391	0.390	04/16/04	JMO
BE04971	QE (25/64)	QE-02	Quartz	0.389	0.390	0.390	0.390	01/13/99	RCS

E3 Division
CONESTOGA-ROVERS & ASSOCIATES

Revision- 00
March 2004

Method 2 Calibration Report
(Thermocouples, Pitots and Pitot Assemblies)

Calibration Date: 09/12/06
Calibrator's Initials: SZ

Project Number: 045396_00
Project Name: Owens Corning

Equipment ID																							
Ass.	Pitot	Tc	a1 (°)	a2 (°)	b1 (°)	b2 (°)	Dt (in.)	PA (in.)	PB (in.)	w (in.)	Z (in.)	Field Tc Temp (F)	Cal. Tc Temp (F)	Field Tc Temp (R)	Cal. Tc Temp (R)	Pitot Pass/Fail	W (in.)	X (in.)	Y (in.)	Pitot Ass. Pass/Fail	W (in.)	Pitot Ass w/ st therm Pass/Fail
BE04182A	2P-1	2T-1	1.0	1.0	0.0	0.0	0.375	0.505	0.505	0.000	0.035	71	70	531	530	Pass	6.50	2.00	3.25	Pass		Fail
BE04182G	2P-7	2T-7	0.5	1.0	1.5	1.5	0.375	0.447	0.447	0.000	0.045	70	70	530	530	Pass	6.00	1.75	3.25	Pass		Fail
BE04183F	3P-6	3T-6	0.5	1.5	0.5	0.5	0.375	0.489	0.489	0.002	0.046	71	70	531	530	Pass	6.25	2.000	3.75	Pass		Fail
BE04183I	3P-9	3T-9	0.5	0.0	0.5	1.0	0.375	0.510	0.510	0.000	0.043	70	70	530	530	Pass	7.00	2.00	3.75	Pass		Fail
BE04186H	6P-8	6T-8	1.5	0.0	1.0	0.5	0.375	0.485	0.485	0.004	0.048	70	70	530	530	Pass	6.25	2.25	3.25	Pass		Fail
BE04186J	6P-10	6T-10	0.0	1.0	1.0	1.0	0.375	0.456	0.456	0.000	0.048	69	70	529	530	Pass	6.00	2.00	3.25	Pass		Fail
BE04185J	5P-10	5T-10	0.0	1.5	1.0	1.5	0.375	0.472	0.472	0.002	0.052	69	70	529	530	Pass	13.00	2.00	3.50	Pass		Fail
BE04185P	5P-16	5T-16	2.0	1.5	1.5	1.0	0.375	0.476	0.476	0.003	0.052	70	70	530	530	Pass	12.50	2.0	3.25	Pass		Fail

Acceptance Criteria

Pitots			Pitot Assemblies			Thermocouples
a1	< +10°	PA = PB	a1	< +10°	X	Thermocouples are calibrated at absolute stack temperature and the calibration is valid if the field thermocouple and the calibrated thermocouple read temperatures to within 1.5% of each other.
a2	< +10°	Dt: between 3/16 and 3/8 in.	a2	< +10°	Y	
b1	< +5°	P: 1.05Dt < P < 1.50Dt	b1	< +5°	Dt:	
b2	< +5°		b2	< +5°	W	
Z	< 1/8 in.		Z	< 1/8 in.		
w	< 0.03125 in		w	< 0.03125 ir	P:	

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

Barometer Calibration Report

Project Number:	045396_00
Project Name:	Owens Corning
Test Date:	8/15-8/23/06
Barometer ID:	BE04921

	Pre. Cal		Post Cal	
Calibrator's Initials:	S.Z.		S.Z.	
Calibration Date:	08/10/06		09/05/06	
Time:	11:27		8:16	
Barometric Pressure:	29.94	in. Hg	30.12	in. Hg
NWS Station Pressure:	29.94	in. Hg	30.10	in. Hg
Pass/Fail, (within 0.1 in. Hg):	Pass		Pass	

Elevation at CRA Buffalo Office: 704' **Elevation at National Weather Service: 714'**

Barometer pressure correction due to altitude is not necessary due to the fact that the elevations are similar.

E3 Division
CONESTOGA-ROVERS
& ASSOCIATES

Barometer Calibration Report

Project Number:	045396_00
Project Name:	Owens Corning
Test Date:	8/15-8/23/06
Barometer ID:	BE04923

	Pre. Cal		Post Cal	
Calibrator's Initials:	S.Z.		S.Z.	
Calibration Date:	08/10/06		09/05/06	
Time:	11:27		8:16	
Barometric Pressure:	29.94	in. Hg	30.11	in. Hg
NWS Station Pressure:	29.94	in. Hg	30.10	in. Hg
Pass/Fail, (within 0.1 in. Hg):	Pass		Pass	

Elevation at CRA Buffalo Office: 704' **Elevation at National Weather Service: 714'**

Barometer pressure correction due to altitude is not necessary due to the fact that the elevations are similar.

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	SG9167914BAL	Reference Number:	46-124066324-4
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	5/31/2009
Certification Date:	5/31/2006	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
CARBON DIOXIDE	17.06 %	+/- 1%	FTIR	G1
OXYGEN	21.05 %	+/- 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 0	NITROGEN	CARBON DIOXIDE	XC034415B	19.84 %
NTRM 82659	NITROGEN	OXYGEN	SG9159572	20.98 %

Analytical Results

1st Component CARBON DIOXIDE

1st Analysis Date: 05/31/2006

R 19.85	S 17.08	Z -0.002	Conc 17.08 %
S 17.09	Z -0.001	R 19.87	Conc 17.06 %
Z -0.015	R 19.85	S 17.05	Conc 17.05 %
			AVG: 17.06 %

2nd Component OXYGEN

1st Analysis Date: 05/31/2006

R 179.0	S 179.6	Z 1.310	Conc 21.05 %
S 179.6	Z 1.330	R 179.1	Conc 21.04 %
Z 1.310	R 179.1	S 179.6	Conc 21.05 %
			AVG: 21.05 %

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	CC19248	Reference Number:	46-124055698-2
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	1/23/2009
Certification Date:	1/23/2006	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
PROPANE	90.20 PPM	+/- 1%	FTIR	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
NTRM 81668	NITROGEN	PROPANE	CC47125	96.2 PPM

Analytical Results

1st Component PROPANE

1st Analysis Date: 01/23/2006

R 96.410	S 90.603	Z -0.114	Conc 90.41 PPM
S 90.482	Z -0.081	R 96.406	Conc 90.29 PPM
Z -0.033	R 96.449	S 90.188	Conc 89.92 PPM
			AVG: 90.20 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	CC151453	Reference Number:	46-124052951-3
Cylinder Pressure:	1565.6 PSIG	Expiration Date:	12/30/2008
Certification Date:	12/30/2005	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
PROPANE	4426 PPM	+/- 1%	FTIR	G2
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
NTRM 1050613	NITROGEN	PROPANE	SG9112817	965.6 PPM

Analytical Results

1st Component PROPANE

1st Analysis Date: 12/30/2005

R 976.994	S 892.714	Z 0.151	Conc 4412 PPM
S 894.775	Z 0.108	R 976.668	Conc 4423 PPM
Z 0.132	R 975.362	S 897.902	Conc 4445 PPM
			AVG: 4426 PPM

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

1290 COMBERMERE STREET,TROY,MI 48083 Phone: 248-589-2950 Fax: 248-589-2134

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
1290 COMBERMERE STREET
TROY,MI 48083

P.O. No.: 53178-71-65000
Project No.: 05-16397-021

Customer

CLEAN AIR ENGINEERING
DON ALLEN
500 W. WOOD STREET
PALATINE IL 60067

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM020068 **Certification Date:** 25Mar2004 **Exp. Date:** 25Mar2007
Cylinder Pressure*:** 950 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
PROPANE	8,493	PPM	+/- 1%	Direct NIST and NMi
AIR		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.
Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 2648	08Mar2007	ALM019625	4986. PPM	PROPANE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
VARIAN/3400/7506	05Mar2004	TCD/FID

ANALYZER READINGS

(Z=Zero Gas R=Reference Gas T=Test Gas r=Correlation Coefficient)

First Triad Analysis

PROPANE

Date: 22Mar2004	Response Unit:AREA	
Z1=0.00000	R1=39651.00	T1=67377.00
R2=39605.00	Z2=0.00000	T2=67570.00
Z3=0.00000	T3=67525.00	R3=39508.00
Avg. Concentration:	8493.	PPM

Second Triad Analysis

Calibration Curve

Concentration=A+Bx+Cx2+Dx3+Ex4	
r=0.999999	
Constants:	A=-20.01162428
B=0.1278806	C=0.00
D=0.00	E=0.00

APPROVED BY: _____

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	CC15749	Reference Number:	46-124055706-1
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	1/23/2009
Certification Date:	1/23/2006	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
PROPANE	878.5 PPM	+/- 1%	FTIR	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
NTRM 1050613	NITROGEN	PROPANE	SG9112817	965.6 PPM

Analytical Results

1st Component PROPANE

1st Analysis Date: 01/23/2006

R 971.308	S 876.995	Z -0.052	Conc 871.8 PPM
S 880.051	Z -0.134	R 957.941	Conc 887.1 PPM
Z -0.066	R 980.489	S 890.220	Conc 876.7 PPM
			AVG: 878.5 PPM

Airgas

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 No:	CC179026	Reference Number:	54-ST10078-000
Cylinder Pressure:	2,013 psig	Expiration Date:	12/15/2006
Certification Date:	12/15/2003	Laboratory:	ASG - Chicago - IL

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
Carbon Monoxide	90.75 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.

Approved for Release

Reference Standard Information

Type	Component	Cyl. Number	Concentration
NTRM 2050706	Carbon Monoxide	SG9149632BAL	97.30 PPM

Analytical Results

1st Component **Carbon Monoxide**

1st Analysis Date: 12/08/2003

R	97.30	S	90.60	Z	0.0000	Conc	90.60 PPM
S	90.70	Z	0.0000	R	97.30	Conc	90.70 PPM
Z	0.0000	R	97.30	S	90.60	Conc	90.60 PPM
						AVG:	90.63 PPM

2nd Analysis Date: 12/15/2003

R	96.90	S	90.50	Z	0.0000	Conc	90.90 PPM
S	90.50	Z	0.0000	R	97.00	Conc	90.80 PPM
Z	0.0000	R	96.90	S	90.50	Conc	90.90 PPM
						AVG:	90.87 PPM

RATA CLASS

Scott Specialty Gases

Dual-Analyzed Calibration Standard

1290 COMBERMERE STREET,TROY,MI 48083 Phone: 248-589-2950 Fax: 248-589-2134

CERTIFICATE OF ACCURACY: EPA Protocol Gas

Assay Laboratory

SCOTT SPECIALTY GASES
1290 COMBERMERE STREET
TROY,MI 48083

P.O. No.: 53021-71-65000
Project No.: 05-14433-008

Customer

CLEAN AIR ENGINEERING
DON ALLEN
500 W. WOOD STREET
PALATINE IL 60067

ANALYTICAL INFORMATION

This certification was performed according to EPA Traceability Protocol For Assay & Certification of Gaseous Calibration Standards; Procedure G-1; September, 1997.

Cylinder Number: ALM042735 **Certification Date:** 29Jan2004 **Exp. Date:** 28Jan2007
Cylinder Pressure*:** 1900 PSIG

COMPONENT	CERTIFIED CONCENTRATION (Moles)		ANALYTICAL ACCURACY**	TRACEABILITY
CARBON MONOXIDE	1,983.0	PPM	+/- 1%	Direct NIST and NMi
NITROGEN		BALANCE		

*** Do not use when cylinder pressure is below 150 psig.

** Analytical accuracy is based on the requirements of EPA Protocol Procedure G1, September 1997.
Product certified as +/- 1% analytical accuracy is directly traceable to NIST or NMI standards.

REFERENCE STANDARD

TYPE/SRM NO.	EXPIRATION DATE	CYLINDER NUMBER	CONCENTRATION	COMPONENT
NTRM 2638	01Feb2006	ALM058036	5012. PPM	CARBON MONOXIDE

INSTRUMENTATION

INSTRUMENT/MODEL/SERIAL#	DATE LAST CALIBRATED	ANALYTICAL PRINCIPLE
HORIBA/AIA-210/57076204	29Jan2004	NDIR

ANALYZER READINGS

(Z = Zero Gas R = Reference Gas T = Test Gas r = Correlation Coefficient)

CARBON MONOXIDE

First Triad Analysis

Date: 23Jan2004	Response Unit:MV	
Z1 = 0.00000	R1 = 121.0000	T1 = 49.40000
R2 = 121.0000	Z2 = 0.00000	T2 = 49.40000
Z3 = 0.00000	T3 = 49.50000	R3 = 121.0000
Avg. Concentration:	1984.	PPM

Second Triad Analysis

Date: 30Jan2004	Response Unit: MV	
Z1 = 0.00000	R1 = 121.0000	T1 = 49.50000
R2 = 121.0000	Z2 = 0.00000	T2 = 49.50000
Z3 = 0.00000	T3 = 49.60000	R3 = 121.2000
Avg. Concentration:	1983.	PPM

Calibration Curve

Concentration = A + Bx + Cx2 + Dx3 + Ex4	
r = .999998	
Constants:	A = -4.1910925
B = 3.92E1	C = 1.87E-2
D = 0	E = 0

APPROVED BY: _____

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	XC021128B	Reference Number:	46-124044598-1A
Cylinder Pressure:	2000.6 PSIG	Expiration Date:	9/21/2008
Certification Date:	9/21/2005	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
METHANE	91.67 PPM	+/- 1%	FTIR	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
GMIS 0	AIR	METHANE	SG9146824	250.2 PPM

Analytical Results

1st Component METHANE

1st Analysis Date: 09/21/2005

R 249.861	S 92.203	Z 0.016	Conc 92.32 PPM
S 92.181	Z 0.099	R 252.509	Conc 91.28 PPM
Z 0.011	R 252.402	S 92.246	Conc 91.43 PPM
			AVG: 91.67 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	SG9103389	Reference Number:	46-124036365-3
Cylinder Pressure:	1999.6 PSIG	Expiration Date:	5/27/2007
Certification Date:	5/27/2005	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
SULFUR DIOXIDE	179.017 PPM	+/- 1%	FTIR	G1
NITRIC OXIDE	179.982 PPM	+/- 1%	FTIR	G1
NITROGEN	Balance			

Total oxides of nitrogen 181 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 00051203	NITROGEN	SULFUR DIOXIDE	SG9141952	249.6 PPM
NTRM 50907	NITROGEN	NITRIC OXIDE	SG9198913	46.94 PPM

Analytical Results

1st Component SULFUR DIOXIDE

1st Analysis Date: 05/14/2005

R 249.249	S 179.706	Z -1.432	Conc 180.36 PPM
S 179.931	Z -1.163	R 249.334	Conc 180.45 PPM
Z -1.185	R 249.961	S 179.947	Conc 180.02 PPM
			AVG: 180.27 PPM

2nd Analysis Date: 05/27/2005

R 251.259	S 178.147	Z -0.997	Conc 177.258 PPM
S 179.017	Z -1.304	R 251.500	Conc 178.022 PPM
Z -0.815	R 251.339	S 178.996	Conc 177.989 PPM
			AVG: 177.756 PPM

2nd Component NITRIC OXIDE

1st Analysis Date: 05/14/2005

R 47.7	S 181.616	Z 0.643	Conc 180.52 PPM
S 181.406	Z 0.543	R 47.604	Conc 180.4 PPM
Z 0.588	R 47.566	S 181.235	Conc 180.5 PPM
			AVG: 180.47 PPM

2nd Analysis Date: 05/27/2005

R 47.168	S 182.052	Z -0.176	Conc 180.671 PPM
S 181.641	Z -0.134	R 47.814	Conc 177.951 PPM
Z -0.190	R 47.226	S 181.489	Conc 179.852 PPM
			AVG: 179.491 PPM

Airgas

Certificate of Analysis: EPA Protocol Gas Mixture

Airgas Specialty Gases
325 McCausland Court
Cheshire, CT 06410
Phone (203) 250-6827
Fax (203) 250-6842
www.airgas.com

Cylinder Number:	CC79205	Reference Number:	46-124036919-2
Cylinder Pressure:	1999.6 PSIG	Expiration Date:	5/24/2007
Certification Date:	5/24/2005	Laboratory:	ASG - Cheshire - CT

Certified Concentrations

Component	Concentration	Accuracy	Analytical Principle	Procedure
NITRIC OXIDE	869.9 PPM	+/- 1%	FTIR	G1
SULFUR DIOXIDE	873.8 PPM	+/- 1%	FTIR	G1
NITROGEN	Balance			
Total oxides of nitrogen	874 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	XC023968B	487.6 PPM
NTRM 81661	NITROGEN	SULFUR DIOXIDE	CC44440	494.4 PPM

Analytical Results

1st Component — NITRIC OXIDE

1st Analysis Date: 05/17/2005

R 490.669	S 874.986	Z 1.201	Conc 870.5 PPM
S 873.311	Z 1.863	R 490.545	Conc 869.5 PPM
Z 0.989	R 490.359	S 874.373	Conc 868.8 PPM
			AVG: 869.6 PPM

2nd Analysis Date: 05/24/2005

R 489.107	S 873.725	Z 0.671	Conc 871.6 PPM
S 871.679	Z 0.933	R 488.616	Conc 870.6 PPM
Z 0.125	R 488.867	S 870.943	Conc 868.8 PPM
			AVG: 870.3 PPM

2nd Component — SULFUR DIOXIDE

1st Analysis Date: 05/17/2005

R 495.830	S 875.371	Z -1.084	Conc 872.0 PPM
S 877.555	Z -0.699	R 496.795	Conc 872.8 PPM
Z -0.838	R 496.361	S 877.982	Conc 873.9 PPM
			AVG: 872.9 PPM

2nd Analysis Date: 05/24/2005

R 495.199	S 876.084	Z -0.928	Conc 874.0 PPM
S 877.104	Z -0.886	R 495.213	Conc 875.0 PPM
Z -0.849	R 495.749	S 878.250	Conc 875.2 PPM
			AVG: 874.7 PPM

APPENDIX D

LABORATORY DATA

Conestoga-Rovers & Associates

2371 George Urban Blvd.
Depew, NY 14043

Owens-Corning
Medina, OH

Analytical Report
(0806-43)

EPA Method 15

Hydrogen sulfide

Enthalpy Analytical, Inc.
Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)
- This analytical report was prepared in Portable Document Format (.PDF) and contains 259 pages.

Michael Steven Schapira

QA Review Performed by: Michael Steven Schapira

Summary of Results

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	3 Runs

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

Compound	Sample ID / Adjusted Concentration (ppm)		
	Run 1	***Run 2***	***Run 3***
	8/15/06	***8/16/06***	***8/17/06***
Hydrogen sulfide	6.80	0.595	0.250 J

Results

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 1 (8/15/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.188 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 25.1 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret Time (min)	Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
Run 1	SIG10016.D	8/15/06 9:08 AM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10017.D	8/15/06 9:15 AM	0806-43C.	2.29	10.5	1	90.8	11.6	
Run 1	SIG10018.D	8/15/06 9:23 AM	0806-43C.	2.29	3.91	1	90.8	4.30	
Run 1	SIG10019.D	8/15/06 9:31 AM	0806-43C.	2.29	4.76	1	90.8	5.24	
Run 1	SIG10020.D	8/15/06 9:38 AM	0806-43C.	2.29	6.20	1	90.8	6.83	
Run 1	SIG10021.D	8/15/06 9:46 AM	0806-43C.	2.29	7.17	1	90.8	7.90	
Run 1	SIG10022.D	8/15/06 9:53 AM	0806-43C.	2.29	7.09	1	90.8	7.81	
Run 1	SIG10023.D	8/15/06 10:01 AM	0806-43C.	2.29	5.10	1	90.8	5.61	
Run 1	SIG10024.D	8/15/06 10:08 AM	0806-43C.	2.29	3.19	1	90.8	3.52	
Run 1	SIG10025.D	8/15/06 10:16 AM	0806-43C.	2.29	2.03	1	90.8	2.24	
Run 1	SIG10026.D	8/15/06 10:23 AM	0806-43C.	2.29	2.82	1	90.8	3.10	
Run 1	SIG10027.D	8/15/06 10:31 AM	0806-43C.	2.29	2.55	1	90.8	2.80	
Run 1	SIG10028.D	8/15/06 10:38 AM	0806-43C.	2.29	4.51	1	90.8	4.96	
Run 1	SIG10029.D	8/15/06 10:46 AM	0806-43C.	2.29	4.87	1	90.8	5.36	
Run 1	SIG10030.D	8/15/06 10:54 AM	0806-43C.	2.29	16.6	1	90.8	18.2	
Run 1	SIG10031.D	8/15/06 11:01 AM	0806-43C.	2.29	6.54	1	90.8	7.20	
Run 1	SIG10032.D	8/15/06 11:09 AM	0806-43C.	2.29	2.45	1	90.8	2.69	
Run 1	SIG10033.D	8/15/06 11:16 AM	0806-43C.	2.29	2.15	1	90.8	2.37	
Run 1	SIG10034.D	8/15/06 11:24 AM	0806-43C.	2.28	1.38	1	90.8	1.52	
Run 1	SIG10035.D	8/15/06 11:31 AM	0806-43C.	2.28	0.940	1	90.8	1.03	
Run 1	SIG10038.D	8/15/06 11:54 AM	0806-43C.	2.28	0.535	1	90.8	0.589	
Run 1	SIG10039.D	8/15/06 12:02 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10040.D	8/15/06 12:09 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10041.D	8/15/06 12:17 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10042.D	8/15/06 12:24 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10043.D	8/15/06 12:32 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10044.D	8/15/06 12:40 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10045.D	8/15/06 12:47 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10046.D	8/15/06 12:55 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10047.D	8/15/06 1:02 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10048.D	8/15/06 1:10 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10049.D	8/15/06 1:18 PM	0806-43C.	NA	0.188	1	90.8	0.207	ND
Run 1	SIG10050.D	8/15/06 1:25 PM	0806-43C.	2.28	0.773	1	90.8	0.851	
Run 1	SIG10051.D	8/15/06 1:33 PM	0806-43C.	2.28	4.80	1	90.8	5.28	
Run 1	SIG10052.D	8/15/06 1:40 PM	0806-43C.	2.28	12.4	1	90.8	13.7	
Run 1	SIG10053.D	8/15/06 1:48 PM	0806-43C.	2.28	20.0	1	90.8	22.0	
Run 1	SIG10054.D	8/15/06 1:55 PM	0806-43C.	2.28	14.4	1	90.8	15.9	
Run 1	SIG10055.D	8/15/06 2:03 PM	0806-43C.	2.28	32.5	1	90.8	35.8	E

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 1 (8/15/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.188 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 25.1 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret Time (min)	Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
Run 1	SIG10056.D	8/15/06 2:10 PM	0806-43C.	2.28	18.0	1	90.8	19.8	
Run 1	SIG10057.D	8/15/06 2:18 PM	0806-43C.	2.28	14.6	1	90.8	16.1	
Run 1	SIG10058.D	8/15/06 2:26 PM	0806-43C.	2.28	38.2	1	90.8	42.0	E
							Fraction Average	6.80	

7.07 ppm H2S	SIG10001.D	8/15/06 8:06 AM	0806-43C.	2.32	7.41	1	100	7.41	
7.07 ppm H2S	SIG10002.D	8/15/06 8:09 AM	0806-43C.	2.32	7.37	1	100	7.37	
7.07 ppm H2S	SIG10003.D	8/15/06 8:12 AM	0806-43C.	2.32	7.42	1	100	7.42	
							Fraction Average	7.40	
							Tag Value (ppm)	7.07	
							Difference	4.6%	

Line Loss	SIG10061.D	8/15/06 2:57 PM	0806-43C.	2.27	6.35	1	100	6.35	
Line Loss	SIG10062.D	8/15/06 3:00 PM	0806-43C.	2.27	6.42	1	100	6.42	
Line Loss	SIG10063.D	8/15/06 3:03 PM	0806-43C.	2.27	6.50	1	100	6.50	
							Fraction Average	6.42	
							Recovery	90.8%	

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 2 (8/16/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.166 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 8.06 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret Time (min)	Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
Run 2	SIG10029.D	8/16/06 9:08 AM	0806-43E.	2.30	1.01	1	82.1	1.23	
Run 2	SIG10030.D	8/16/06 9:16 AM	0806-43E.	2.30	2.89	1	82.1	3.52	
Run 2	SIG10031.D	8/16/06 9:29 AM	0806-43E.	2.30	3.63	1	82.1	4.42	
Run 2	SIG10032.D	8/16/06 9:37 AM	0806-43E.	2.29	3.83	1	82.1	4.66	
Run 2	SIG10033.D	8/16/06 9:44 AM	0806-43E.	2.30	1.41	1	82.1	1.72	
Run 2	SIG10034.D	8/16/06 10:07 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10035.D	8/16/06 10:14 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10036.D	8/16/06 10:22 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10037.D	8/16/06 10:37 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10038.D	8/16/06 10:44 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10039.D	8/16/06 10:58 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10040.D	8/16/06 11:05 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10041.D	8/16/06 11:12 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10042.D	8/16/06 11:20 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10043.D	8/16/06 11:27 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10046.D	8/16/06 11:48 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10047.D	8/16/06 11:56 AM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10048.D	8/16/06 12:03 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10049.D	8/16/06 12:10 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10050.D	8/16/06 12:18 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10051.D	8/16/06 12:25 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10052.D	8/16/06 12:32 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10053.D	8/16/06 12:39 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10054.D	8/16/06 12:46 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10055.D	8/16/06 12:54 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10056.D	8/16/06 1:01 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10057.D	8/16/06 1:08 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10058.D	8/16/06 1:15 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10059.D	8/16/06 1:22 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10060.D	8/16/06 1:30 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10061.D	8/16/06 1:37 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10062.D	8/16/06 1:44 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10063.D	8/16/06 1:51 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10064.D	8/16/06 1:59 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10065.D	8/16/06 2:06 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10066.D	8/16/06 2:13 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
Run 2	SIG10067.D	8/16/06 2:20 PM	0806-43E.	NA	0.166	1	82.1	0.202	ND
							Fraction Average	0.595	

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 2 (8/16/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.166 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 8.06 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret Time (min)	Conc (ppm)	DF	Rec Eff (%)	Adj Conc (ppm)	Qual
7.07 ppm H2S	SIG10007.D	8/16/06 7:20 AM	0806-43E.	2.30	6.56	1	100	6.56	
7.07 ppm H2S	SIG10008.D	8/16/06 7:23 AM	0806-43E.	2.30	6.47	1	100	6.47	
7.07 ppm H2S	SIG10009.D	8/16/06 7:26 AM	0806-43E.	2.30	6.47	1	100	6.47	
							Fraction Average	6.50	
							Tag Value (ppm)	7.07	
							Difference	8.4%	

Line Loss	SIG10076.D	8/16/06 3:30 PM	0806-43E.	2.28	5.85	1	100	5.85	
Line Loss	SIG10077.D	8/16/06 3:36 PM	0806-43E.	2.28	5.72	1	100	5.72	
Line Loss	SIG10078.D	8/16/06 3:39 PM	0806-43E.	2.28	5.85	1	100	5.85	
							Fraction Average	5.80	
							Recovery	82.1%	

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 3 (8/17/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.169 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 8.06 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret. Time (min)	Conc (ppm)	DF	Rec. Eff. (%)	Adj. Conc (ppm)	Qual
Run 3	SIG10024.D	8/17/06 8:28 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10025.D	8/17/06 8:35 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10026.D	8/17/06 8:43 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10027.D	8/17/06 8:50 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10028.D	8/17/06 8:57 AM	0806-43G.	2.30	1.48	1	85.5	1.74	
Run 3	SIG10029.D	8/17/06 9:05 AM	0806-43G.	2.30	1.65	1	85.5	1.94	
Run 3	SIG10030.D	8/17/06 9:12 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10031.D	8/17/06 9:20 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10032.D	8/17/06 9:27 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10033.D	8/17/06 9:35 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10034.D	8/17/06 9:42 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10035.D	8/17/06 9:50 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10036.D	8/17/06 9:57 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10037.D	8/17/06 10:05 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10038.D	8/17/06 10:12 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10039.D	8/17/06 10:20 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10040.D	8/17/06 10:27 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10041.D	8/17/06 10:35 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10042.D	8/17/06 10:42 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10043.D	8/17/06 10:50 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10044.D	8/17/06 11:08 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10045.D	8/17/06 11:16 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10046.D	8/17/06 11:24 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10047.D	8/17/06 11:32 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10048.D	8/17/06 11:40 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10049.D	8/17/06 11:47 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10050.D	8/17/06 11:55 AM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10051.D	8/17/06 12:03 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10052.D	8/17/06 12:10 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10053.D	8/17/06 12:18 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10054.D	8/17/06 12:25 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10055.D	8/17/06 12:33 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10056.D	8/17/06 12:40 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10057.D	8/17/06 12:48 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10058.D	8/17/06 12:55 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10059.D	8/17/06 1:03 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10060.D	8/17/06 1:11 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10061.D	8/17/06 1:18 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10062.D	8/17/06 1:26 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND

Company	CRA
Analyst	MBW
Parameters	EPA Method 15
# Samples	Day 3 (8/17/06)

Client #	Owens-Corning
Job #	0806-43
PO #	Verbal
Report Date	8/22/2006

MDL 0.169 (ppm)
LOQ 0.500 (ppm)
Compound Hydrogen sulfide

Lower Curve Limit 0.951 (ppm)
Upper Curve Limit 8.06 (ppm)

Sample ID	Lab ID	Date & Time	Analysis Method	Ret. Time (min)	Conc (ppm)	DF	Rec. Eff. (%)	Adj. Conc (ppm)	Qual
Run 3	SIG10063.D	8/17/06 1:34 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10064.D	8/17/06 1:41 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10065.D	8/17/06 1:49 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10066.D	8/17/06 1:56 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10067.D	8/17/06 2:04 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10068.D	8/17/06 2:12 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10069.D	8/17/06 2:19 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10070.D	8/17/06 2:27 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10071.D	8/17/06 2:34 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10072.D	8/17/06 2:42 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10073.D	8/17/06 2:50 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10074.D	8/17/06 2:57 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10075.D	8/17/06 3:05 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10076.D	8/17/06 3:12 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10077.D	8/17/06 3:26 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10078.D	8/17/06 3:40 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10079.D	8/17/06 3:52 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10080.D	8/17/06 3:59 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10081.D	8/17/06 4:13 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10082.D	8/17/06 4:21 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10083.D	8/17/06 4:28 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10084.D	8/17/06 4:35 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10085.D	8/17/06 4:42 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
Run 3	SIG10086.D	8/17/06 4:49 PM	0806-43G.	NA	0.169	1	85.5	0.198	ND
							Fraction Average	0.250	J

7.07 ppm H2S	SIG10007.D	8/17/06 7:31 AM	0806-43G.	2.33	7.06	1	100	7.06	
7.07 ppm H2S	SIG10008.D	8/17/06 7:34 AM	0806-43G.	2.32	7.61	1	100	7.61	
7.07 ppm H2S	SIG10009.D	8/17/06 7:37 AM	0806-43G.	2.32	7.67	1	100	7.67	
							Fraction Average	7.44	
							Tag Value (ppm)	7.07	
							Difference	5.2%	

Line Loss	SIG10089.D	8/17/06 5:44 PM	0806-43G.	2.28	6.07	1	100	6.07	
Line Loss	SIG10090.D	8/17/06 5:47 PM	0806-43G.	2.28	6.01	1	100	6.01	
Line Loss	SIG10091.D	8/17/06 5:50 PM	0806-43G.	2.28	6.04	1	100	6.04	
							Fraction Average	6.04	
							Recovery	85.5%	

Narrative Summary

Enthalpy Analytical Narrative Summary

Company:	CRA
Client #:	Owens-Corning
PO #	Verbal

Enthalpy #:	0806-43
Analyst:	MBW
Parameters	EPA Method 15

Analysis

Matthew Whitfield of Enthalpy Analytical, Inc. conducted EPA Method 15 direct interface testing on 8/15/06, 8/16/06 and 8/17/06 at the Owens-Corning facility in Medina, OH for Conestoga-Rovers and Associates.

The analysis was performed using a Hewlett-Packard 5890 Series II gas chromatograph equipped with a flame photometric detector (FPD). Samples and calibration standards were injected into the GC using a VICI six port valve with a gas sample loop. Hydrogen sulfide was referenced to a certified permeation device.

The calibration gases were generated by passing nitrogen over certified permeation devices that emits hydrogen sulfide at a fixed rate given a fixed temperature. The temperature was maintained at 50 °C ± 1.5 °C. By altering the amount of diluent nitrogen used the desired calibration concentrations were produced.

Chromatography Conditions

Copies of the acquisition methods (0806-43.M and 0806-43^.M) are included in the Curve/QA Chromatograms section of this report.

Separation

All samples were separated using a Restek 60 m x 0.53 mm Rtx-1 capillary column. Hydrogen was used as the carrier gas.

Hydrogen sulfide eluted at approximately 2.3 minutes, separated well, and was easily identified.

Recovery Efficiency

Before and after sampling each day, a line-loss recovery study was performed. A cylinder containing H_2S at a certified concentration of 7.07 ppm was introduced at the head of the sample line, adjacent to the sampling port. The gas traveled through the sample line, through the dilution system, and on to the GC for analysis. This concentration was used to calculate the recovery efficiency. The recovery efficiency must fall between 80 to 120% for the data to be considered valid. The calculated recovery efficiencies were 90.8% for 8/15/06, 82.1% for 8/16/06 and 85.5% for 8/17/06. The reported concentrations were adjusted using these recovery efficiencies.

Enthalpy Analytical Narrative Summary
(continued)

Carbon Dioxide Interference Study

To determine the effect of carbon dioxide on the samples, a 5.40 ppm hydrogen sulfide gas concentration was generated using a certified hydrogen sulfide permeation device and a diluent flow rate of 600 cc/min pure nitrogen. This gas mixture was analyzed and the diluent gas supply was then switched to a cylinder containing pure carbon dioxide. A diluent flow rate of 600 cc/min was maintained. An additional set of injections were made and the difference in concentration between the gas mixture containing CO_2 and without was 2.7% using the average of 3 injections at each condition.

Reproducibility

The reproducibility of standards was acceptable.

Reporting Notes

The probe came free from its place in the stack during the 8/15/06 run. The data collected at 11:39 a.m. and 11:46 a.m. have therefore not been included in the spreadsheet or average concentration determination for the run. The probe was replaced in the stack and the data collected starting at 11:54 a.m. was included.

General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. reports, unless specifically noted otherwise.

- The symbol ***MDL*** represents the Minimum Detection Limit. Below this value the laboratory cannot confim the presence of the analyte of interest reliably.
- The symbol ***LOQ*** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The symbol ***ND*** following a value indicates a non-detect or analytical result below the MDL.
- The symbol ***J*** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The symbol ***E*** following a value indicates an analytical result exceeding 100% of the highest calibration point.
- The symbol ***DF*** represents a Dilution Factor. This number represents dilutions during the extraction and/or laboratory stages of sample treatment. The analytical result taken from a laboratory instrument is multiplied by the DF to get final results.
- The Sample ID ***MS*** represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix prohibits analysis for the analyte(s).
- The Sample ID ***MSD*** represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times. Most methods performed by Enthalpy do not require analysis of an MSD.
- The Sample ID ***BS*** represents a Blind Spike. A member of the Quality Assurance department has created BS samples for many of the analytes Enthalpy tests for, and only QA and the Enthalpy Analytical ownership have access to the actual values of these samples. The laboratory analyzes them without knowledge of the actual value, and the spreadsheets get completed for these samples solely by the QA group.
- The Sample ID ***LCS*** represents a Laboratory Control Sample. Whenever spikes are prepared for our clients more spikes are prepared than needed. The extras (randomly chosen) are kept in-house at the appropriate temperature conditions. When the spike samples come back from the client for analysis, the LCSs (usually two are saved) are analyzed to confirm that the analyte could be recovered from the media, separate from the spike samples which were used on the project and which may have had issues caused during collection and/or transport.
- **Significant Figures**: Where the reported value is much greater than unity (1.00) in the units expressed (specifically values of 1,000 or greater), the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits reported, but no confidence should be placed on more than three significant digits.

APPENDIX E

OHIO EPA INTENT TO TEST FORMS

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
J003 Loading Rack			THC	25A			1 hr	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? _____

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): May need to add additional filtering to inlet, will have to start/stop testing according to truck loading

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☐ No ☒ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name Owèns Corning Medina Roofing

Contact Person Mr. Brian Thomas

Address 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number 330-764-7839

B. Testing Firm Information

Name CRA, Inc.

Contact Person Mr. Michael Tahirak

Address 2371 George Urban Blvd., Depew, NY 14043

Telephone Number 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T009			Opacity	9			1 hr	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 60,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T008			Opacity	9			1hr	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 30,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T026			Opacity	9			1hr	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 29,600 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
J031			Opacity	9			1 hr	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 129,600 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T034	Fiber Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 1,700,000 gallons, with air sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

Facility number no. _____

Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 970 West Smith Rd., Medina, OH 44256-2433

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CBA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tabirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T021	Filter Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,500 gallons w/ air sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T020	Filter Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,000 gallons w/ air sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T019	Filter Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,000 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T018	Fiber Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,000 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T017	Fiber Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,500 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T016	Fiber Bed Filter		Opacity	9		[illegible]	60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 18,500 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrant Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T015	Filter Bed Filter		Opacity	9			60 min.	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 29,000 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T014	Fiber Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 29,000 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T005	Filter Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 345,000 gallons, with hrs/week

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name Owens Corning Medina Roofing

Contact Person Mr. Brian Thomas

Address 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number 330-764-7839

B. Testing Firm Information

Name CRA, Inc.

Contact Person Mr. Michael Tahirak

Address 2371 George Urban Blvd., Depew, NY 14043

Telephone Number 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T004	Fiber Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 245,000 gallons / Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name Owens Corning Medina Roofing

Address 870 West Smith Rd., Medina, OH 44256-2483

Contact Person Mr. Brian Thomas

Telephone Number 330-764-7839

B. Testing Firm Information

Name CRA, Inc.

Address 2371 George Urban Blvd., Depew, NY 14043

Contact Person Mr. Michael Tahirak

Telephone Number 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T001	Filter Bed Filter		Opacity	9			60 mins	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 245,000 gallons, w/ Air Sweep

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation. N/A

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☐ No ☒ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): _____

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: N/A

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T029			VOC/THC	25A			6-12 hrs	3
John Zinc Incinerator								

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☐ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 400,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): Will collect bags for analysis by analyzer for Methane by Jum 109A

Sampling Location(s): Inlet ☐ Outlet ☒ Simultaneous ☐ Will Cyclonic flow check(s) be conducted? Yes ☐ No ☒

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☐ No ☒ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☐ No ☒

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No _____ SCC

Code _____

A. Facility Information

Name Owens Corning Medina Roofing

Address 870 West Smith Rd., Medina, OH 44256-2483

Contact Person Mr. Brian Thomas

Telephone Number 330-764-7839

B. Testing Firm Information

Name CRA, Inc.

Address 2371 George Urban Blvd., Depew, NY 14043

Contact Person Mr. Michael Tahirak

Telephone Number 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P005	Incinerator		PM	5A	108 ± 18	Not yet determined	6-12 hrs	3
Cohn			THC	25A				3
Zinc								
Incinerator								

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 51,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P003

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☐ No ☒ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: See P003

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P004	Incinerator		PM	5A	108±18	Not yet determined	6-12hrs	3
John Zinc Incinerator			THC	25A				3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 51,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): total gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P003

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test Data

Are concurrent Method 9 readings to be performed? Yes ☐ No ☒ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: See P003

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P003	Incinerator		PM	5A	108 ± 18	Unknown at this time	6-12 hrs	3
John			THC	25A				3
Zinc								
Incinerator								

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 51,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): total Gallons Blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): Sample time set at 6 hrs, anything past this will be sampled at point of average velocity

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐ Sample readings every 10 minutes

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☐ No ☒ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: April 06 Installed additional thermocouple + redundant pressure transmitters

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes [ ] No [ ]

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
T027			VOC/THC	25A			6-12 hrs	3
PCC								
Incinerator								

Source is testing to comply with (check all that apply): [ ] State PTI [ ] State PTO [X] Title V [ ] NSPS [ ] MACT [ ] BIF [ ] Title IV [ ] Other _____

D. What is the maximum rated capacity? _____

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes [ ] No [ ] If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): _____

Are any modifications to USEPA Reference Method(s) proposed? Yes [X] No [ ] If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): Will collect bags for analysis by Tom 109A for Methane

Sampling Location(s): Inlet [ ] Outlet [X] Simultaneous [ ] Will Cyclonic flow check(s) be conducted? Yes [ ] No [ ]

Fuel Sampling: Coal - Proximate [ ] Ultimate [ ] Other [ ] If other, specify: N/A

Emission rate to be calculated using: F-Factor [ ] Ultimate Coal Analysis [ ] Other [X] If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes [ ] No [X] Does the test method require audit samples? Yes [ ] No [X]

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes [ ] No [X]

If yes, briefly describe: _____

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
J005	Incinerator		CO	10			6-12hrs	3
PCC			H_2S	16			"	3
			VOC	25A			"	3
Outlet								

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☐ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 61,000 Gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total Gallons Blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P006

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☐ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: See P006

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Address: 870 West Smith Rd., Medina, OH 44256-2483

Contact Person: Mr. Brian Thomas

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Address: 2371 George Urban Blvd., Depew, NY 14043

Contact Person: Mr. Michael Tahirak

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
J005	Incinerator		PM	5A/202	108±18	12	6-12 hrs	3
PCC			SO_2	6C			"	3
			NO_x	7E			"	3
Outlet			Opacity	9			1 hrs	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 6,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total Gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P006

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: See P006

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P007	Incinerator		CO	10			6-12 hrs	3
PCC			H_2S	16			"	3
outlet			VOC	25A			"	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 61,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total Gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P006

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☒

If yes, briefly describe: See P006

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P007	Incinerator		PM	5A/202	108±18	12	6-12 hrs	3
PCC Outlet			SO_2	6C			"	3
			NO_x	7E			"	3
			Opacity	9			1 hrs	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 6,000 gallons

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See P006

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test Data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: See P006

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

AGENCY USE ONLY

Date Received _____

Assigned _____

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P006	Incinerator		CO	10			6-12 hrs	3
PCC			H_2S	16			"	3
outlet			VOC	25A			"	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 64,000 gals

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): total gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): See page 1

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test Data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☒

If yes, briefly describe: See page 1

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

INTENT TO TEST NOTIFICATION (One Emissions Unit Per Sheet)

AGENCY USE ONLY

Date Received _____

Assigned _____

Proposed Test Date _____

Pre-Test Meeting Desired? Yes ☐ No ☐

Facility Premise No. _____ SCC Code _____

A. Facility Information

Name: Owens Corning Medina Roofing

Contact Person: Mr. Brian Thomas

Address: 870 West Smith Rd., Medina, OH 44256-2483

Telephone Number: 330-764-7839

B. Testing Firm Information

Name: CRA, Inc.

Contact Person: Mr. Michael Tahirak

Address: 2371 George Urban Blvd., Depew, NY 14043

Telephone Number: 716-206-0202

C. Test Plan and Emissions Unit Information Table: List the applicable information under each respective column heading.

Emissions Unit #	Control Equipment	Monitoring Equipment	Pollutant(s) to be Tested	EPA Test Method(s)	Filter Box Temperature	Number of Sampling Points	Total Time for Test Run	Number of Sampling Runs
P006	Incinerator		PM	5A/202	108±18	12	6-12 hrs	3
PCC Outlet			SO_2	6C			"	3
			NO_x	7E			"	3
			Opacity	9			1 hrs	3

Source is testing to comply with (check all that apply): ☐ State PTI ☐ State PTO ☒ Title V ☐ NSPS ☒ MACT ☐ BIF ☐ Title IV ☐ Other _____

D. What is the maximum rated capacity? 61,000 gals

Will Emissions Unit be operated at the maximum capacity given in its permit-to-install or permit-to-operate? Yes ☐ No ☐ If no, attach explanation.

Specify how operating rate will be demonstrated during testing (*See notes 1, 2 and 3 on page 2.): Total gallons blown

Are any modifications to USEPA Reference Method(s) proposed? Yes ☒ No ☐ If "no" is checked, then no modification, however minor, will be accepted.

If yes, explain proposed modification(s): Sample time to be set at 6hrs, after then remainder sampled at point of Avg. Velocity

Sampling Location(s): Inlet ☐ Outlet ☐ Simultaneous ☒ Will Cyclonic flow check(s) be conducted? Yes ☒ No ☐ Sample readings every 10mins.

Fuel Sampling: Coal - Proximate ☐ Ultimate ☐ Other ☐ If other, specify: N/A

Emission rate to be calculated using: F-Factor ☐ Ultimate Coal Analysis ☐ Other ☒ If other, specify: Stack test Data

Are concurrent Method 9 readings to be performed? Yes ☒ No ☐ Does the test method require audit samples? Yes ☐ No ☒

Has any maintenance or parts replacement been performed on the emissions unit or the control equipment within the last year? Yes ☒ No ☐

If yes, briefly describe: Dec 05 - Clean & Replace O_2 Sensor, replace circuit board for FD Fan, April 06 Installed additional thermocouple & redundant pressure transmitters.

(Note: Some maintenance, such as installing new filter bags in a baghouse, or replacing the activated carbon in an adsorber, may disqualify the emissions unit from a performance test until a sufficient amount of time has elapsed to ensure a test which will be representative of normal operations.)

E. Sample Train Calibration: All affected measuring and monitoring equipment should be calibrated within 60 days of the scheduled testing.

APPENDIX F

PROCESS DATA

Medina
John Zinc Incinerator
August 18,19,21, 2006

Date	Test #/ # Stills	Still#1 Gallons	Still#1 Charge Temp	Still#2 Gallons	Still#2 Charge Temp	Still#3 Gallons	Still#3 Charge Temp	Still#1 Tons	Still#2 Tons	Still#3 Tons	Total Tons	Total Blow Time Hours	Process Weight Tons/Hr
08/18/06	1	15000	351	21000	430	11000	470	59.21	80.52	41.5	181.3	7.75	23.39
08/19/06	2	15000	430	21000	420	11000	470	57.52	80.82	41.5	179.9	7.17	25.10
08/21/06	3	15000	430	21000	430	11000	470	57.52	80.52	41.5	179.6	7.02	25.60

174.25 241.86 540.8

41.5

Medina
PCC incinerator
August 15-17, 2006

Date	Test #/ # Stills	Still#4 Gallons	Still#4 Charge Temp	Still#5 Gallons	Still#5 Charge Temp	Gallons	Charge Temp	Still#4 Tons	Still#5 Tons	Tons	Total Tons	Total Blow Time Hours	Process Weight Tons/Hr
08/15/06	1	25000	351	25000	351	0	0	98.69	98.69	0.0	197.4	5.33	37.03
08/16/06	2	25000	350	23000	350	0	0	98.72	90.83	0.0	189.5	5.25	36.10
08/17/06	3	25000	405	23000	405	0	0	96.76	89.02	0.0	185.8	8.42	22.07
								98.057	92.847		190.9		

Hourly Average For 15-Aug-06 09:10 Thru 15-Aug-06 14:30

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
PCC Incin Firebox Temp 1	1428	4	1420	1433	15-AUG-06 10:09:59.9
PCC Incin Firebox Temp 1	1428	4	1420	1433	15-AUG-06 10:09:59.9
PCC Incin Firebox Temp 1	1434	4	1430	1442	15-AUG-06 11:09:59.9
PCC Incin Firebox Temp 1	1434	4	1430	1442	15-AUG-06 11:09:59.9
PCC Incin Firebox Temp 1	1438	4	1436	1439	15-AUG-06 12:09:59.9
PCC Incin Firebox Temp 1	1438	4	1436	1439	15-AUG-06 12:09:59.9
PCC Incin Firebox Temp 1	1434	4	1431	1440	15-AUG-06 13:09:59.9
PCC Incin Firebox Temp 1	1434	4	1431	1440	15-AUG-06 13:09:59.9
PCC Incin Firebox Temp 1	1437	4	1433	1442	15-AUG-06 14:09:59.9
PCC Incin Firebox Temp 1	1437	4	1433	1442	15-AUG-06 14:09:59.9

Hourly Average For 16-Aug-06 09:10 Thru 16-Aug-06 13:00

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
PCC Incin Firebox Temp 1	1432	4	1424	1440	16-AUG-06 10:09:59.9
PCC Incin Firebox Temp 1	1432	4	1424	1440	16-AUG-06 10:09:59.9
PCC Incin Firebox Temp 1	1431	4	1429	1433	16-AUG-06 11:09:59.9
PCC Incin Firebox Temp 1	1431	4	1429	1433	16-AUG-06 11:09:59.9
PCC Incin Firebox Temp 1	1435	4	1430	1441	16-AUG-06 12:09:59.9
PCC Incin Firebox Temp 1	1435	4	1430	1441	16-AUG-06 12:09:59.9

Hourly Average For 17-Aug-06 08:28 Thru 17-Aug-06 12:32

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
PCC Incin Firebox Temp 1	1423	4	1397	1437	17-AUG-06 09:27:59.9
PCC Incin Firebox Temp 1	1423	4	1397	1437	17-AUG-06 09:27:59.9
PCC Incin Firebox Temp 1	1435	4	1427	1442	17-AUG-06 10:27:59.9
PCC Incin Firebox Temp 1	1435	5	1427	1442	17-AUG-06 10:27:59.9
PCC Incin Firebox Temp 1	1435	4	1430	1442	17-AUG-06 11:27:59.9
PCC Incin Firebox Temp 1	1435	4	1430	1442	17-AUG-06 11:27:59.9
PCC Incin Firebox Temp 1	1438	4	1436	1441	17-AUG-06 12:27:59.9
PCC Incin Firebox Temp 1	1438	4	1436	1441	17-AUG-06 12:27:59.9

AVERAGE TEMP **1433**

Hourly Average For 18-Aug-06 08:36 Thru 18-Aug-06 14:17

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
JZ Incin Firebox Temp 1	1434	4	1433	1437	18-AUG-06 09:35:59.9
JZ Incin Firebox Temp 1	1434	4	1433	1437	18-AUG-06 09:35:59.9
JZ Incin Firebox Temp 1	1426	4	1418	1435	18-AUG-06 10:35:59.9
JZ Incin Firebox Temp 1	1426	4	1418	1435	18-AUG-06 10:35:59.9
JZ Incin Firebox Temp 1	1430	4	1427	1434	18-AUG-06 11:35:59.9
JZ Incin Firebox Temp 1	1430	4	1427	1434	18-AUG-06 11:35:59.9
JZ Incin Firebox Temp 1	1432	4	1429	1437	18-AUG-06 12:35:59.9
JZ Incin Firebox Temp 1	1432	4	1429	1437	18-AUG-06 12:35:59.9
JZ Incin Firebox Temp 1	1430	4	1430	1431	18-AUG-06 13:35:59.9
JZ Incin Firebox Temp 1	1430	4	1430	1431	18-AUG-06 13:35:59.9

Hourly Average For 19-Aug-06 07:54 Thru 19-Aug-06 13:33

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
JZ Incin Firebox Temp 1	1433	4	1431	1436	19-AUG-06 08:53:59.9
JZ Incin Firebox Temp 1	1433	5	1431	1436	19-AUG-06 08:53:59.9
JZ Incin Firebox Temp 1	1433	4	1425	1441	19-AUG-06 09:53:59.9
JZ Incin Firebox Temp 1	1433	4	1425	1441	19-AUG-06 09:53:59.9
JZ Incin Firebox Temp 1	1435	4	1429	1438	19-AUG-06 10:53:59.9
JZ Incin Firebox Temp 1	1435	4	1429	1438	19-AUG-06 10:53:59.9
JZ Incin Firebox Temp 1	1435	4	1432	1438	19-AUG-06 11:53:59.9
JZ Incin Firebox Temp 1	1435	4	1432	1438	19-AUG-06 11:53:59.9
JZ Incin Firebox Temp 1	1431	4	1430	1431	19-AUG-06 12:53:59.9
JZ Incin Firebox Temp 1	1431	4	1430	1431	19-AUG-06 12:53:59.9

Hourly Average For 21-Aug-06 07:47 Thru 21-Aug-06 13:32

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
JZ Incin Firebox Temp 1	1429	4	1426	1436	21-AUG-06 08:46:59.9
JZ Incin Firebox Temp 1	1429	4	1426	1436	21-AUG-06 08:46:59.9
JZ Incin Firebox Temp 1	1429	4	1403	1438	21-AUG-06 09:46:59.9
JZ Incin Firebox Temp 1	1429	4	1403	1438	21-AUG-06 09:46:59.9
JZ Incin Firebox Temp 1	1428	4	1408	1437	21-AUG-06 10:46:59.9
JZ Incin Firebox Temp 1	1428	4	1408	1437	21-AUG-06 10:46:59.9
JZ Incin Firebox Temp 1	1435	4	1435	1436	21-AUG-06 11:46:59.9
JZ Incin Firebox Temp 1	1435	4	1435	1436	21-AUG-06 11:46:59.9
JZ Incin Firebox Temp 1	1433	4	1432	1435	21-AUG-06 12:46:59.9
JZ Incin Firebox Temp 1	1433	4	1432	1435	21-AUG-06 12:46:59.9

AVERAGE TEMP **1432**

Hourly Average For 22-Aug-06 08:35 Thru 22-Aug-06 09:55

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
RTO Avg Bed Temp 1	1493.75	4	1488	1500	22-AUG-06 09:34:59.9

Hourly Average For 22-Aug-06 10:43 Thru 22-Aug-06 12:43

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
RTO Avg Bed Temp 1	1499.75	4	1481	1508	22-AUG-06 11:42:59.9
RTO Avg Bed Temp 1	1490.5	4	1479	1500	22-AUG-06 12:42:59.9

Hourly Average For 22-Aug-06 15:04 Thru 22-Aug-06 16:36

Tag Name	Average	# of points	Minumum Value	Maximum Value	Time Avg Calc Ended
RTO Avg Bed Temp 1	1505.75	4	1504	1511	22-AUG-06 16:03:59.9

Average Temperature **1,497.4**

TA-14726-R1

Owens Corning Trumbull
Division of Owens-Corning Fiberglas

№ 100226

CONVERTING REPORT

Plant Medina Operator Scott
Date 8-15-06 Converter No. TWO Product 300-6
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 10:05 am pm Finished Charging 11:40 am pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365151		23	420	21,000
2.	60104		17		140
3.					

3. Gauge Charged Meter Temp 420 Gals 21,000
4. Start Blow 10:05 am pm Back Pressure 12 Amps _____ Temp _____

Time SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

2:00 465 181 17,882
3:00 465 216
6291586
490 845 7023

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 3:00 am pm Date 8-15-06 Blowing Time 4 Hr. 55 Min.
7. Final Test: SP. 216 Pen 18.1 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 465 Gals _____
9. Pumping Started 3:45 am pm Date 8-15-06 Finished 5:00 am pm Date 8-15-06
10. Shipped To 36
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: _____

Completed By: Scott Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull
Division of Owens-Corning Fiberglas

№ 103225

CONVERTING REPORT

Plant Medina Operator Scott
Date 8-19-06 Converter No. ONE Product 300C
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 8:55 am/pm Finished Charging 10:05 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365181		23	430	15,000
2.	60104		17		55
3.					

3. Gauge Charged Meter Temp 430 Gals 15,000
4. Start Blow 8:55 am/pm Back Pressure 11 Amps _____ Temp _____

Time SOFTENING POINT

Time	130	140	150	160	170	180	190	200	210	220	230	240	250
12:00	465	174											
1:05	470	212											

12.726
6291583
4908457015

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 1:05 am/pm Date 8-17-06 Blowing Time 4 Hr. 10 Min.
7. Final Test: SP. 212 Pen 16 1/21 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 470 Gals _____
9. Pumping Started 1:05 am/pm Date 8-19-06 Finished 2:15 am/pm Date 8-19-06
10. Shipped To 36
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scott Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull

Division of Owens-Corning Fiberglas

№ 100224

CONVERTING REPORT

Plant Medina Operator Scott

Date 8-19-06 Converter No. Three Product R-97

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 7:50 am ~~pm~~ Finished Charging 8:55 am ~~pm~~

	Charged With	Inches	From Tank No.	Temp	Gals
1.	364543		25	470	11,000
2.					
3.					

3. Gauge Charged Meter Temp 455 Gals 11,000

4. Start Blow 7:50 am ~~pm~~ Back Pressure 17 Amps _____ Temp _____

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

12:00 – 485 196

1:00 – 475 207

1:40 – 470 213

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 1:40 am pm Date 8-19-06 Blowing Time 5 Hr. 50 Min.

7. Final Test: SP. 213 Pen 181 Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp 470 Gals _____

9. Pumping Started 2:15 am pm Date 8-19-06 Finished 3:35 am pm Date 8-19-06

10. Shipped To 28

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scott Reviewed By: _____

7A-14726-R1

OWENS CORNING Trumbull

Division of Owens-Corning Fiberglas

№ 100255

CONVERTING REPORT

Plant Medina Operator Scot

Date 8-21-06 Converter No. ONE Product 3027

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 7:45 am ~~pm~~ Finished Charging 9:00 am ~~pm~~

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365181		24	430	15,000
2.	60104		17		25
3.					

3. Gauge Charged Meter Temp 440 Gals 15,000

4. Start Blow 7:45 am ~~pm~~ Back Pressure 11 Amps _____ Temp _____

Time	SOFTENING POINT 130 140 150 160 170 180 190 200 210 220 230 240 250		
12:00	470	181	12,726
12:30	475	203	
1:30	475	223	6292561
			4908526764

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 1:30 ~~am~~ pm Date 8-21-06 Blowing Time 5 Hr. 45 Min.

7. Final Test: SP. 223 Pen 15½ Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp _____ Gals _____

9. Pumping Started 2:00 ~~am~~ pm Date 8-21-06 Finished 3:15 am pm Date 8-21-06

10. Shipped To 29TK

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scot Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull
Division of Owens-Corning Fiberglas

№ 100257

CONVERTING REPORT

Plant Medina Operator Scot
Date 8-21-06 Converter No. Two Product 3000
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 10:00 am/pm Finished Charging 11:30 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365181		23	430	21,000
2.	60104		17		140
3.					

3. Gauge Charged Meter Temp 440 Gals 21,000
4. Start Blow 10:00 am/pm Back Pressure 10 Amps _____ Temp _____

Time — SOFTENING POINT

Time	Temp	SP	Pen
2:00	475	203	18,241
2:40	480	232	
			6292569
			4908535264

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 2:40 am/pm Date 8-21-06 Blowing Time 4 Hr. 40 Min.
7. Final Test: SP. 232 Pen 16 1 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 480 Gals _____
9. Pumping Started 3:00 am/pm Date 8-21-06 Finished 4:40 am/pm Date 8-21-06
10. Shipped To 32
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: _____

Completed By: Scot Reviewed By: _____

YA-14926-R1

Owens Corning Trumbull
Division of Owens-Corning Fiberglas

№ 100256

CONVERTING REPORT

Plant Medina Operator Scot
Date 8-21-06 Converter No. Three Product R-97
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 9:00 am ~~pm~~ Finished Charging 10:00 am ~~pm~~

	Charged With	Inches	From Tank No.	Temp	Gals
1.	364943		25	470	11,000
2.					
3.					

3. Gauge Charged Meter Temp 460 Gals 11,000
4. Start Blow 9:00 am ~~pm~~ Back Pressure 18 Amps _____ Temp _____

Time — SOFTENING POINT (130 140 150 160 170 180 190 200 210 220 230 240 250)

12:50 — 495 200
1:35 — 485 204
3:05 — 470 219

Temp (390 400 410 420 430 440 450 460 470 480 490 500 510)

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 3:05 am pm Date 8-21-06 Blowing Time 6 Hr. 5 Min.
7. Final Test: SP. 219 Pen 18.1 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp _____ Gals _____
9. Pumping Started 4:15 am pm Date 8-21-06 Finished 5:45 am pm Date 8-21-06
10. Shipped To 28
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scot Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull

Division of Owens-Corning Fiberglas

№ 169186

CONVERTING REPORT

Plant Medina Operator Milton

Date 8/16/06 Converter No. Four Product 3021

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 9:05 am/pm Finished Charging 10:45 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	60118		45	350	25,000
2.	60104		19		125
3.					

3. Gauge Charged Meter Temp 410 Gals 25,000

4. Start Blow 9:10 am/pm Back Pressure 1.1 Amps 295 Temp _____

Time	SOFTENING POINT 130 140 150 160 170 180 190 200 210 220 230 240 250	
12:35	475	179
1:40	515	238

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 1:40 am/pm Date 8/16/06 Blowing Time _____ Hr. _____ Min.

7. Final Test: SP. 238 Pen 22-1 Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp 311 Gals _____

9. Pumping Started 2:00 am/pm Date 8/16/06 Finished 3:45 am/pm Date 8/16/06

10. Shipped To 44+2

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Milton Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull

Division of Owens-Corning Fiberglas

CONVERTING REPORT

№ 160188

Plant Medina Operator Milton

Date 8/16/06 Converter No. Five Product 3001

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 10:50 am/pm Finished Charging 12:25 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	60118		45	350	23.000
2.	60104		19		
3.					

3. Gauge Charged Meter Temp 474 Gals 23.000

4. Start Blow 10:50 am/pm Back Pressure 14 1/4 Amps 283 Temp _____

Time SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

1:50 - 203

2:20 - 490 - 237

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 2:20 am/pm Date 8/16/06 Blowing Time _____ Hr. _____ Min.

7. Final Test: SP. 237 Pen 231 Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp 490 Gals _____

9. Pumping Started 3:45 am/pm Date 8/16/06 Finished 5:00 am/pm Date 8/16/06

10. Shipped To 44 TC

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

YA-14726-R1

Owens Corning Trumbull
Division of Owens-Corning Fiberglas

№ 163199

CONVERTING REPORT

Plant Medina Operator Milton
Date 8/17/06 Converter No. FOUR Product 3000
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 8:30 am pm Finished Charging 10:55 am pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	366181		23	405	25,000
2.	60104		19		150
3.					

3. Gauge Charged Meter Temp 405 Gals 25,000
4. Start Blow 8:30 am pm Back Pressure 14 Amps 500 Temp _____

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

12:15 - 445 165
12:45 - 450 188
1:25 - 450 200 20

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 1:25 am pm Date 8/17/06 Blowing Time _____ Hr. _____ Min.
7. Final Test: SP 200 Pen 20 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 450 Gals _____
9. Pumping Started 200 am pm Date 8/17/06 Finished 820 am pm Date 8/17/06
10. Shipped To 36 TL
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: 8984

11-11

TA-14726-R1

OWENS CORNING Trumbull
Division of Owens-Corning Fiberglas

CONVERTING REPORT

№ 103200

Plant Medina Operator Milton
Date 8/17/06 Converter No. Five Product 3000
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 10:56 am/pm Finished Charging 1:05 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	36518		23	405	23,000
2.	60100		19		136
3.					

3. Gauge Charged Meter Temp 405 Gals 23,000
4. Start Blow 10:56 am/pm Back Pressure 14 Amps _____ Temp _____

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

1:55 - 420 150
2:55 - 450 177
3:55 - 460 214
4:55 - 465 249

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 4:55 am/pm Date 8/17/06 Blowing Time _____ Hr. _____ Min.
7. Final Test: SP. 249 Pen 16.1 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 465 Gals _____
9. Pumping Started 5:35 am/pm Date 8/17/06 Finished 6:15 am/pm Date 8/17/06
10. Shipped To 36
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks _____

1.11.

TA-14726-R1

Owens Corning Trumbull
Division of Owens-Corning Fiberglas

№ 103208

CONVERTING REPORT

Plant: Medina Operator: Scott
Date: 8-18-06 Converter No. Three Product R-97
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 8:35 am ~~pm~~ Finished Charging 9:40 am ~~pm~~

	Charged With	Inches	From Tank No.	Temp	Gals
1.	364543		25	470	11,000
2.					
3.					

3. Gauge Charged Meter Temp 460 Gals 11,000
4. Start Blow 8:35 am ~~pm~~ Back Pressure 16 Amps _____ Temp _____

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

12:40 — 490 199
1:30 — 485 207
2:20 — 485 220

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 2:20 am ~~pm~~ Date 8-18-06 Blowing Time 5 Hr. 45 Min.
7. Final Test: SP. 220 Pen 16½-1 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished Meter Temp 480 Gals 11,000
9. Pumping Started 6:05 am ~~pm~~ Date 8-18-06 Finished 7:0 am ~~pm~~ Date 8-18-06
10. Shipped To 28
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: _____

Completed By: Scott Reviewed By: _____

TA-14726-R1

Owens Corning Trumbull

Division of Owens-Corning Fiberglas

№ 108212

CONVERTING REPORT

Plant Medina Operator Scot

Date 8-18-06 Converter No. ONE Product 3027

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 11:20 am/pm Finished Charging 12:20 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365181		24	430	15,000
2.	60104		17		30
3.					

3. Gauge Charged Meter Temp 440 Gals 15,000

4. Start Blow 11:20 am/pm Back Pressure 10 Amps _____ Temp _____

Time SOFTENING POINT

Time	130	140	150	160	170	180	190	200	210	220	230	240	250
3:30	475	202								12,726			
4:20	470	222											
										6291230			
										4908425375			

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 4:20 am/pm Date 8-18-06 Blowing Time 5 Hr. – Min.

7. Final Test: SP. 222 Pen 15½ Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp 470 Gals _____

9. Pumping Started 4:55 am/pm Date 8-18-06 Finished 6:00 am/pm Date 8-18-06

10. Shipped To 29

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scot Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull

Division of Owens-Corning Fiberglas

№ 108210

CONVERTING REPORT

Plant Medina Operator Scot

Date 8-18-06 Converter No. TWO Product 30

1. Gauge Before Charging _____ Temp _____ Gals _____

2. Started Charging 9:40 am/pm Finished Charging 11:20 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	365181		23	430	21,000
2.	60104		17		125
3.					

3. Gauge Charged Meter Temp 435 Gals 21,000

4. Start Blow 9:40 am/pm Back Pressure 11 Amps _____ Temp _____

Time SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

1:25 470 180 17,817

2:35 475 228

6291229

4908420833

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Time _____ am/pm Tank _____ Oil _____ Gals _____

Explanation _____

6. Finished Blowing 2:35 am/pm Date 8-18-06 Blowing Time 4 Hr. 55 Min.

7. Final Test: SP. 228 Pen 16 Viscosity _____

Flash _____ Other Test Info. _____

8. Gauge When Finished Meter Temp 475 Gals _____

9. Pumping Started 2:35 am/pm Date 8-18-06 Finished 3:50 am/pm Date 8-18-06

10. Shipped To 36

11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____

Remarks: _____

Completed By: Scot Reviewed By: _____

TA-14726-R1

OWENS CORNING Trumbull
Division of Owens-Corning Fiberglas

№ 166173

CONVERTING REPORT

Plant MEDINA Operator JOE
Date 8-15-06 Converter No. FOUR Product CT 3001
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 9:10 am/pm Finished Charging 10:50 am/pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	60118		45	351	25,000
2.	60104		19		125
3.					

3. Gauge Charged METER Temp 435 Gals 25,000
4. Start Blow 9:10 am/pm Back Pressure 14 Amps 294 Temp 420'

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

12 15/p. 488 - 172'
1 05/p. 500' - 228'

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 1:05 pm/pm Date 8-15-06 Blowing Time 3 Hr. 55 Min.
7. Final Test: SP. 228' Pen 22 / Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished METER Temp 500' Gals 25,000
9. Pumping Started 1:05 am/pm Date 8-15-06 Finished 2:45 am/pm Date 8-15-06
10. Shipped To 44 TK
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: 8861 TO 8882

Completed By: JOE Reviewed By: _____

TA-14726-R1

Owens Corning Trumbull
Division of Owens-Corning Fiberglas

CONVERTING REPORT

№ 103175

Plant MEDINA Operator Joe
Date 8-15-06 Converter No. FIVE Product CT 3001
1. Gauge Before Charging _____ Temp _____ Gals _____
2. Started Charging 10:50 am pm Finished Charging 12:20 am pm

	Charged With	Inches	From Tank No.	Temp	Gals
1.	60118		45	351	23,000
2.	60104		19		120
3.					

3. Gauge Charged METER Temp 465 Gals 23,000
4. Start Blow 10:50 am pm Back Pressure 14 1/4 Amps 284 Temp 440

Time — SOFTENING POINT

130 140 150 160 170 180 190 200 210 220 230 240 250

1 15/P. 475-162
2 30/P. 495-249

Temp 390 400 410 420 430 440 450 460 470 480 490 500 510

5. Flux Added _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Time _____ am/pm Tank _____ Oil _____ Gals _____
Explanation _____

6. Finished Blowing 2:30 am pm Date 8-15-06 Blowing Time 3 Hr. 40 Min.
7. Final Test: SP. 249 Pen 20 1/2 Viscosity _____
Flash _____ Other Test Info. _____
8. Gauge When Finished METER Temp 495 Gals 23,000
9. Pumping Started 3:10 am pm Date 8-15-06 Finished 4:40 am pm Date 8-15-06
10. Shipped To 44
11. Start Tank Gauge _____ Finished Tank Gauge _____ Temp _____
Remarks: _____

Completed By: Joe Reviewed By: _____